



NGWATHE LOCAL MUNICIPALITY

NLM: TEC 03 [03/2026]

APPOINTMENT OF A SERVICE PROVIDER FOR SUPPLY AND INSTALLATION OF SMART METERS (WATER AND ELECTRICITY) AND RELATED ACCESSORIES, FOR DOMESTIC AND BULK SUPPLY FOR A PERIOD OF 36 MONTHS.

CLOSING DATE:	09 APRIL 2026	TIME	12H00
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NAME OF TENDERER	
TOTAL BID PRICE	R
CENTRAL SUPPLIER DATABASE NUMBER	MAAA
TOTAL SPECIFIC GOAL POINTS	90/10
CONTACT PERSON	
TELEPHONE NUMBER	
FAX NUMBER	

ENQUIRIES REGARDING BID PROCEDURES		TECHNICAL ENQUIRIES	
DIRECTORATE: FINANCE		DIRECTORATE: TECHNICAL SERVICES	
RICHARD MALAMULE		M MOROKOLO	
MANAGER: SCM		DIRECTOR: TECHNICAL SERVICES	
TEL. NUMBER	056 816 2700	TEL. NUMBER	056 816 2700
TENDER ISSUED BY			
SUPPLY CHAIN MANAGEMENT UNIT			
LIEBENBERGSTREK		TEL. NUMBER	056 816 2700
NGWATHE LOCAL MUNICIPALITY		LIEBENBERGSTREK, PARYS, 9585	

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BIDDER		WITNESS		EMPLOYER	
WITNESS		WITNESS		WITNESS	

NB: ANY OBJECTIONS OR COMPLAINTS IN RESPECT WITH THIS TENDER SHOULD BE LODGED WITHIN 14 DAYS OF THE ADVERTISEMENT.

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TENDER DETAILS				
TENDER NUMBER	NLM: TEC 03 [03/2026]			
TENDER TITLE	APPOINTMENT OF A SERVICE PROVIDER FOR SUPPLY AND INSTALLATION OF SMART METERS (WATER AND ELECTRICITY) AND RELATED ACCESSORIES, FOR DOMESTIC AND BULK SUPPLY FOR A PERIOD OF 36 MONTHS.			
CLOSING DATE	09 APRIL 2026	CLOSING TIME	12H00	
SITE MEETING	DATE	18 March 2026	TIME	10h00am
SITE MEETING ADDRESS	NGWATHE LOCAL MUNICIPALITY MAIN BUILDING: SIDE HALL PARYS			
CIDB GRADING REQUIRED	N/A		LEVEL AND CATEGORY	N/A
TENDER DOCUMENT FEE	R 1 500.00 (collecting at Ngwathe Local Municipality)		PREFERENC E POINT SYSTEM	90/10
BID BOX SITUATED AT	LIEBENBERGSTREK, PARYS, Ngwathe Local Municipality.			
OPERATING HOURS	The bid box is open during office hours, Monday to Friday from 07h30 to 16h30.			
OFFER TO BE VALID FOR	90	DAYS FROM THE CLOSING DATE OF TENDER.		

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TENDER DETAILS

PLEASE NOTE:

1. Prospective suppliers must be registered on CSD prior to submitting bid (open tender)
2. Tenders that are deposited in the incorrect box will not be considered.
3. Mailed, telegraphic, telex, or faxed tenders will not be accepted.
4. No late bids after closing date and time will be accepted.
5. Bids not clearly marked and unamend will not be accepted.
6. Bids may only be submitted on the bid documentation provided by the municipality.
7. No awards will be made to a person:
 - i. Who is in the service of the state,
 - ii. If that person is not a natural person, of which any director, manager, principal shareholder or stakeholder is a person in the service of the state
 - iii. Who is an advisor or consultant contracted with the municipality or municipal entity

BIDDER'S TENDER DOCUMENTATION DECLARATION CERTIFICATION

I, the undersigned certify that the information furnished on this declaration form is correct, completed and submitted.

NAME OF REPRESENTATIVE	
POSITION / DESIGNATION	
SIGNATURE	
DATE	

T1.1 TENDER NOTICE AND INVITATION TO TENDER

NGWATHE LOCAL MUNICIPALITY

TENDER NOTICE AND INVITATION TO TENDER



In terms of Section 110 of the Municipal Finance Management Act, 2003 (No. 56 of 2003), tenders are hereby invited for **APPOINTMENT OF A SERVICE PROVIDER FOR SUPPLY AND INSTALLATION OF SMART METERS (WATER AND ELECTRICITY) AND RELATED ACCESSORIES, FOR DOMESTIC AND BULK SUPPLY FOR A PERIOD OF 36 MONTHS.**

Tender documents and specifications are available and can be obtained from CASHIERS OFFICE IN THE MAIN OFFICES, Liebenbergstrek, PARYS, 9585, Tel: [056] 816 2700, at a non-refundable deposit of R 1 500.00 when the bidder request/need a document from the municipality. Payments can be made through cash, payable to the Ngwathe Local Municipality cashiers.

The closing time for receipt of tenders is **09 April 2026 at 12h00.** Telegraphic, telephonic, telex, facsimile, e-mail, unmarked and **late tenders** will under no circumstances be considered and accepted. The tender box will be emptied just after closing time on the closing date. Hereafter all bids will be open in public.

Any technical enquiries relating to the tender document may be directed to the **Office of The Technical Services (Ms. M. Morokolo)** on 056 816 2700 or at morokolom@ngwathe.co.za for any technical assistance.

Fully completed tender documents, clearly marked **APPOINTMENT OF A SERVICE PROVIDER FOR SUPPLY AND INSTALLATION OF SMART METERS (WATER AND ELECTRICITY) AND RELATED ACCESSORIES, FOR DOMESTIC AND BULK SUPPLY FOR A PERIOD OF 36 MONTHS.** with "**NAME of TENDERER**" must be placed in a sealed envelope and placed in the **tender box 1 LIEBENBERGSTREK, PARYS, 9585, Ngwathe Local Municipality, Main Offices, Liebenbergstrek, Parys, 9585, by no later than 09 April 2026 at 12h00.** The envelope must be endorsed with number, title and closing date as indicated above.

Bidders will be evaluated on functionality whereby **70 points** has to be attained before financial proposals can be looked at. A preferential point system shall apply whereby a contract will be allocated to a tenderer in accordance with the Preferential Procurement Policy Framework Act, Act No. 5 of 2000 (as amended) and as defined in the Conditions of Tender in the tender document, read in conjunction with the Supply Chain Management Policy of Ngwathe Local Municipality where **90 points will be allocated in respect of price and 5 points in respect of HDI and 5 points in respect of Locality.**

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All bidders must ensure that they are registered on the National Treasury Central Supplier Database via the following link: business.support@csd.gov.za.

Since no business will be conducted with any bidder who is not registered on the CSD database

Bidders must take note of the following:

Bidders must take note of the following:

- Certified copy of Identity document be attached;
- Valid company tax clearance certificate be attached;
- Copy of the company registration certificate / founding certificate must be attached;
- Copy of company profile with clear references;
- PPPFA level (Attach copy of share certificate), and if applicable attach proof of disability;
- Proof of CSD registration report;
- Valid letter of good standing (COIDA) must be attached;
- Audited annual financial statements for the past 3 years for the Bid above R10m;
- Copy of Professional Indemnity Insurance;
- Current Municipal rates & taxes account for company:
 1. For procurement expected to be less than 10 million, awards will not be made to bidders owing municipal rates and taxes for over 90 days at the time of tender closure;
 2. For procurement expected to be more than 10 million, awards will not be made to bidders owing municipal rates and taxes for over 30 days at the time of tender closure;
- Current Municipal rates & taxes information for the organizational directors to be attached and not in arrears for more than 90 days;
- Lease agreement together municipal account of the Landlord;
- All compulsory/ supplementary forms must be fully completed;
- For the briefing Session to be conducted; any queries must be directed to Managers/End Users;
- Failure to comply with the above-mentioned conditions may invalidate your bid.
- The bidder should be mSCOA (Municipal Standard Chart of Accounts) compliant.

Ngwathe Local Municipality fully reserve the right not to accept the lower tender or accept the whole or part of the any tender or not to consider any tender submitted.

Dr F.P Mothamaha

Municipal Manager

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**TERMS OF REFERENCE
FOR**

APPOINTMENT OF A SERVICE PROVIDER FOR SUPPLY AND INSTALLATION OF SMART METERS (WATER AND ELECTRICITY) AND RELATED ACCESSORIES, FOR DOMESTIC AND BULK SUPPLY FOR A PERIOD OF 36 MONTHS.

1. INTRODUCTION

- This bid provides for the supply and installation of smart meters (water and electricity) and related accessories, for Domestic and Bulk supply within Ngwathe area (all 5 towns) for the duration of 36. Supplying and delivering of prepaid smart meters (water and electricity) compatible with the STS vending system and bulk metering. Works including upgrading or replacing of existing meters, installing new meters on areas where meters were not previously installed.

2. KEY DELIVERABLES

2.1 WATER AMR METERS

- Supplying and delivering standard smart prepaid water meters compatible with the STS vending system and Bulk meters.
- Installing and replacing all faulty, stuck, or non-functioning meters and upgrading existing token-based meters to smart prepaid meters. If required.
- Ensuring meters deliver real-time feedback on consumption, credit balance, and leak detection to support water / electricity management and revenue collection.
- Conducting customer training on the use and management of smart prepaid meters.
- Each meter must have the capability of two way communication without replacing any part of the initial installation, in essence it must be AMR (Automatic Meter Reading) enabled for remote reading of meters, via fixed network, walk-by / drive-by, and accommodate an In- House Display Unit.
- The system must be capable of handling the future addition of user support functions through field upgrading of software via radio or the addition of networked data, such as user account status, via a cell phone.

The following overview provides key system requirements that must be complied with. Specific features of the products offered must be covered in a brief (three pages maximum) technical addendum to this tender document, which shall be read as an integral part of the offer.

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2.2 ELECTRICITY AMR METERS

This bid calls for the services of **remote metering, meter data management** and **billing** service provider to manage the Municipal LPU meter readings via an AMR system.

In brief, the following services will be required:

- to install, commission, maintain and manage a meter data acquisition system for large power users, selected small power users and other metering points identified by and on behalf of the Municipality, in accordance with SANS 474:2018 Ed2 (NRS 057) and NRS 049:2008 and NRS 071;
- if required, to take over, maintain and manage the meter data acquisition, meter data management and billing services from the current service provider on the existing installed base;
- to continuously attend to all communication, equipment and other functional related problems;
- to supply GPRS modems for communicating with meters;
- to provide a meter data management service;
- to provide a suitably formatted monthly billing file, that can be uploaded to the billing system;
- to provide a customer web portal;
- to effectively deal with and manage customer queries related to the service;
- to verify the correctness of the existing metering equipment to ensure that it complies to the minimum requirements of the Municipality;
- to provide professional engineering services;
- to provide meter calibration services;
- to provide an application-based meter fault log;
- to provide an Eskom account metering verification service;
- to provide a once off cost and time period to change over from the existing service provider. This includes populating the website with historical interval data received from the previous service provider (Bidder to provide), and
- to provide costing on additional items such as meter testing and meter battery replacement and so forth;

to provide a procurement mechanism for primary meter plant, and the installation thereof

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T1.2 TENDER DATA

The Tender Data shall be read with the Standard Conditions of Tender in order to expand on the Tenderer's obligations and the Employer's undertakings in administering the tender process in respect of the project under consideration.

The Tender Data hereafter shall have precedence in the interpretation of any ambiguity or inconsistency between it and the Standard Conditions of Tender.

Each item of Tender Data given below is cross-referenced to the relevant clause in the Standard Conditions of Tender. The Conditions of Tender are the Standard Conditions of Tender as contained in Annex F of the CIDB Standard for Uniformity in Construction Procurement, as printed in Board Notice 136 of 2015 in the Government Gazette No. 38960 of 2015 dated 10 July 2015.

The Standard Conditions of Tender make several references to the Tender Data which specifically applies 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 Tender Data given below is cross-referenced to the relevant clause in the Standard Conditions of Tender.

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Tender Data Applicable to this Tender

Clause Number	Data / Wording
F.1.2	<p>The Tender Documents consist of the following:</p> <p>3. This Project Document, which contains the following:</p> <p>PART T1: TENDERING PROCEDURES T1.1 Tender Notice and Invitation to Tender T1.2 Tender Data</p> <p>PART T2: RETURNABLE DOCUMENTS T2.1 List of Returnable Documents T2.2 Returnable Schedules</p> <p>PART C1: AGREEMENTS AND CONTRACT DATA C1.1 Form of Offer and Acceptance C1.2 Contract Data C1.3 Performance Guarantee C1.4 Agreement in terms of Section 37(2) of the Occupational Health and Safety Act No. 85 of 1993 C1.5 Retention Money Guarantee C1.6 Transfer of Rights</p> <p>PART C2: PRICING DATA C2.1 Pricing Instructions C2.2 Schedule of Quantities</p> <p>PART C3: SCOPE OF WORKS C3.1 Standard Specifications C3.2 Project Specifications C3.3 Particular Specifications</p> <p>PART C4: SITE INFORMATION C4.1 Locality Plan C4.2 Example of Contract Signboard Details C4.3 Existing Services Report (delete if not required)</p> <p>4. Drawings (issued separately by the Employer).</p>

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		WITNESS			

Clause Number	Data / Wording
	<ul style="list-style-type: none"> ● ‘General Conditions of Contract for Construction Works, Third Edition, 2015’ issued by the South African Institution of Civil Engineering (abbreviated title ‘General Conditions of Contract 2015’ – ‘GCC 2015’). This document is obtainable separately and Tenderers shall obtain their own copy. ● ‘The Occupational Health and Safety Act No 85 and Amendment Act No 181 of 1993, and the Construction Regulations 2014 (Government Gazette No 37305 of 7 February 2014, Notice No R. 84)’. These documents are obtainable separately and Tenderers shall obtain their own copies. ● The Construction Industry Development Board Act No. 38 of 2000 as amended and the Regulations in terms of the CIDB Act 38 of 2000, Government Notice No 692 of 9 June 2004 as amended. <p>In addition, Tenderers are advised, in their own interest, to obtain their own copies of the relevant Acts, Regulations and Standards referred to in this document, as they are essential for the Tenderer to become acquainted with the basics of construction management, the implementation of preferential construction procurement policies, and participation of targeted enterprises and labour.</p>
F.1.4	<p>(a) The Employer’s Agent is: Name of the firm: Ngwathe Local Municipality Contact person: Ms P. Morokolo Telephone: (056) 816 2700 Fax: N/A E-mail: morokolom@ngwathe.co.za</p>
F.2.1	<p>A Tenderer will not be eligible to submit a tender if:</p> <ol style="list-style-type: none"> 1. the Contractor submitting the tender is under restrictions or has principals who are under restriction to participate in the Employer’s procurement due to corrupt or fraudulent practices; 2. the Tenderer does not have the legal capacity to enter into the contract; 3. the Contractor submitting the tender is insolvent, in receivership, 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 the foregoing; 4. The Tenderer does not comply with the legal requirements stated in the Employer’s procurement policy; 5. The Tenderer cannot demonstrate that he possesses the necessary professional and technical qualifications and competence, financial resources, equipment and other physical facilities, managerial capability, personnel, experience and reputation to perform the contract; 6. The Tenderer cannot provide proof that he is in good standing with respect to duties, taxes, levies and contributions required in terms of legislation applicable to the work in the contract. 7. Only those tenderers who can demonstrate that they will have in their employ, management and supervisory staff satisfying the requirements of the scope of

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Clause Number	Data / Wording
	<p>work for labour-intensive competencies for supervisory and management staff during the validity of the contract are eligible to submit tenders.</p> <p>In terms of the Free State Supply Chain Management Policy Framework, all suppliers of goods and services to the Province of Free State are required to register on the Central Supplier Database.</p> <p><i>Prospective suppliers should self-register on the CSD website www.csd.gov.za.</i></p> <p>IF THE SUPPLIER IS NOT REGISTERED AT THE CLOSING TIME OF TENDER, THE SUPPLIER WILL BE DISQUALIFIED AT THE TENDER EVALUATION PROCESS.</p>
F.2.1.5	<p>Labour-intensive competencies for supervisory and management staff</p> <p>Only those tenderers who have in their employ management and supervisory staff satisfying the requirements of the Scope of Work for labour intensive competencies for supervisory and management staff are eligible to submit tenders.</p> <p>“The employer reserves to himself the right, in his sole discretion, to reject any tender where it appears to the employer that the tenderer does not comply with any of the requirements set out below.”</p> <p>The requirements for site staff are: Site Agent NQF 5 Labour Intensive Construction (LIC)</p>
F.2.7	<p>The arrangements and venue for the compulsory Clarification Meeting are:</p> <p>Venue: Parys Municipal offices inside Side Hall Building (refer to Section T1.1) Date: Wednesday, 18 March 2026 at 10h00 Contact person Ms P. Morokolo</p> <p>Telephone: 056 816 2700 Fax: N/A Email: morokolom@ngwathe.co.za</p>
F.2.8	<p>Change ‘five working days’ to ‘seven working days’. Working days shall be from Monday to Friday and shall exclude all gazetted public holidays.</p>
F.2.10	<p>All Tenderers must be registered for Value Added Tax (VAT) with the South African Revenue Services (SARS).</p>
F.2.11	<p>The tenderer shall not take the tender document apart. <u>Any tender submitted using a document that has been taken apart and reassembled shall be considered non-responsive in terms of sub-clause F.3.8 of the Conditions of Tender and such a tender shall be rejected.</u></p>
F.2.12	<p>The requirements are as described in SANS 1200 Standard Specifications for Civil Engineering Construction.</p>

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Clause Number	Data / Wording
F.2.13	<p>F.2.13.3 Tender offers shall be submitted as an original only. Under no circumstances whatsoever may the tender forms be retyped or redrafted. Photocopies of the original tender documentation may be used, but an original signature must appear on such photocopies.</p> <p>1. The Employer's address for delivery of tender offers and identification details to be shown on each tender offer package are: Location of Tender Box : Ngwathe Local Municipality Physical Address : Liebenbergstrek, Parys Identification Details : Contract No. NLM: TEC 03 [03/2026]</p> <p>2. A two-envelope system will <u>not be followed</u>.</p>
F.2.15	<p>The closing time for submission of Tender Offers is: 12h00 on, 09 April 2026 (Thursday)</p> <p>Telegraphic, telephonic, telex, facsimile, electronic, e-mailed and late tenders will not be accepted.</p>
F.2.16	<p>The tender offer validity period is 90 days from the closing time for submission of tenders.</p>
F.2.18	<p>The tender must submit to the employer, 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.</p>
F.2.19	<p>Access shall be provided for inspections and testing by personnel acting on behalf of the Employer.</p>
F.2.22	<p>This is not applicable.</p>
F.2.23	<p>The certificates as required in the Returnable Schedules and Forms must be provided with the tender for each party to a consortium / joint venture.</p>
F.3.1	<p>Change 'five working days' to 'seven working days'. Working days shall be from Monday to Friday and shall exclude all gazetted public holidays.</p>
F.3.2	<p>Change 'three days' to 'three working days'. Working days shall be from Monday to Friday and shall exclude all gazetted public holidays.</p>
F.3.4	<p>The time and location for opening of the tender offers are: Time:12h00 Date: Thursday, 09 April 2026 Location / Venue: Parys Municipal Offices in Forum Building</p>
F.3.5	<p>A two-envelope system will <u>not be followed</u>.</p>

Clause Number	Data / Wording				
F.3.11	Evaluation of tender offers				
F.3.11.1	The quality criteria and maximum score in respect of each of the criteria are as follows:				
	The procedure for the evaluation of responsive Tender Offers will be Method 4: Price, Quality and Preference.				
F.3.11.3	Stage 1: Scoring quality: Only tenderers who will achieve a minimum score of 70 points of the total available points will qualify to be evaluated for stage 2.				
	Functionality				
	FUNCTIONALITY CRITERIA	BASIS FOR POINTS ALLOCATION	SCORE	MAX. POINTS	VERIFICATION METHOD
	Company Experience (Name of traceable reference with contact details to be included for verification)	4 or more completed projects on similar work within the past 10 years. (2 in water and 2 in electricity).	40	40	Bidders are to provide an Appointment Letter and completion certificates specifying the following <ul style="list-style-type: none"> Indicating previously work done relating to smart metering for water &/ electricity for municipalities and the appointment must not be less than 5 million for each completed project of similar smart meter installations (water &/ electricity) within the past 10 years. The reference letter must be signed by the Project Manager, Municipal Manager or a person at a Directorship level in the respective institutions. NB: POINTS WILL ONLY BE GIVEN FOR EACH PROJECT WHERE THE TENDERER HAS SUBMITTED ALL THE REQUIRED DOCUMENTS
		3 completed projects on similar work within the past 10 years. (2 in water and 1 in electricity or 2 in electricity and 1 in water).	30		
		2 completed projects on similar work within the past 10 years. (1 in water and 1 in electricity).	20		
		1 completed project on similar work within the past 10 years. No project completed with proof submitted shall score zero points	10		
	Key Personnel	Project Manager - Minimum National Diploma (NQF level 6): Civil Engineering/ Electrical Engineering / Construction Management and at least 10 years post graduate experience and having been involved in 5 or more projects of smart meter installation (water and or electricity)	25	25	CV and certified qualification certificates and ID copies must be attached and are required to claim any points. Certification On Documents Must Not Be Older Than 6 Months.

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		at least 5 years post graduate experience and having been involved in 4 or more projects of smart meter installation (water and or electricity)	20		A Copy of a Previously Certified Document Will Not Be Accepted. Failure To Certify Will Result in Zero Points.
		at least 5 years post graduate experience and having been involved in 3 or more projects of smart meter installation (water and or electricity)	15		
		at least 5 years post graduate experience and having been involved in 2 or more projects of smart meter installation (water and or electricity)	10		
		at least 5 years post graduate experience and having been involved in 1 or more projects of smart meter installation (water and or electricity)	5		
Project Plan & Method Statement		Detailed Project Implementation Plan to be used in the project. • Bidder provides a Very good and technically sound project management plan.	25	25	The plan should cover the following aspect of the project: <ul style="list-style-type: none"> • Conformance to Technical Specifications • Primary Functionality • Secondary Functionality • Meter Functionality • Data management • CIU / In House Display Units • Batteries & Replacement • Original Equipment Manufacturer (OEM) and installation warranties. • Training • Quality assurance • Turnaround time • Human resource • Cover the scope of work.
		• Bidder provides a good and technically sound project management plan.	20		
		• Bidder provides a satisfactory and technically sound project management plan	15		
Financial Capacity		• Code A – Indisputable for inquiries	10	10	(Attach a bank account rating letter) for the tender amount issued & certified by the banking institution NOT OLDER THAN 6 MONTHS & FOR MINIMUM of R2 MILLION)
		• Code B – Good for the amount	8		
		• Code C – Good for the	6		

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	amount, strictly for business			
	• Code D – Good for the amount, strictly for business	4		
	• Code E – Good for the amount, strictly for business	2		
	• Code F – Good for the amount, strictly for business	0		

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	<p>Tenderers are required to submit supporting documents to score full point and must score at least (70 out of 100) for quality, to qualify for further evaluation.</p> <p>Stage 2: Scoring Financial and Preference Points</p> <p>The weighting of tender Price and Preference for the tender will be done by way of a point system:</p> <p>In the case of acquisition of services, works or goods up to a Rand value equal to or above R30 000 and up to R50 million:</p> <ol style="list-style-type: none"> 1. 90 points are assigned to Price; and 2. 10 points are assigned to Preference. <p>The total points for Price and Preference in each case above must add up to 100 points.</p> <p>In scoring Price using the formula given in subclause F.3.11.7, the values of W_1 and A shall be as follows:</p> <p>$W_1 = 90$ points (for acquisition of services, works or goods up to a Rand equal to or above R30 000 and up to R50 million:); or</p> <p>The value of A shall be calculated using Table F.1, Formula 2 Option 1.</p>

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		BIDDER	WITNESS	EMPLOYER	WITNESS

Clause Number	Data / Wording												
F.3.11.8	<p>Scoring preferences</p> <p>PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022</p> <p>Points awarded for Preference will be in accordance with a tenderer's compliance to SPECIFIC GOALS as summarized in the table below:</p> <p>Table F.2: Points for Preference based on SPECIFIC GOALS (HDI & LOCALITY) For quotes with a Rand value above R50 000 000, the preference point system of 90/10 will apply, where 90 points will be for (Price) and 10 points will be for PPPFA status level.</p> <p>Points awarded for Preference will be in accordance with a tenderer's compliance to SPECIFIC GOALS as summarized in the table below:</p> <p>Table F.2: Points for Preference based on SPECIFIC GOALS (HDI & LOCALITY)</p> <table border="1" data-bbox="293 864 1463 1305"> <thead> <tr> <th data-bbox="293 864 619 1088">HDI & Locality</th> <th data-bbox="619 864 1031 1088">Number of points allocated (90/10 system) (To be completed by the organ of state)</th> <th data-bbox="1031 864 1463 1088">Number of points claimed (90/10 system) (To be completed by the tenderer)</th> </tr> </thead> <tbody> <tr> <td data-bbox="293 1088 619 1200">▪ Historical Disadvantage Individual</td> <td data-bbox="619 1088 1031 1200">5</td> <td data-bbox="1031 1088 1463 1200"></td> </tr> <tr> <td data-bbox="293 1200 619 1256">▪ Locality</td> <td data-bbox="619 1200 1031 1256">5</td> <td data-bbox="1031 1200 1463 1256"></td> </tr> <tr> <td data-bbox="293 1256 619 1305">TOTAL POINTS</td> <td data-bbox="619 1256 1031 1305">10</td> <td data-bbox="1031 1256 1463 1305"></td> </tr> </tbody> </table> <p>Eligibility for Preference points is subject to the following conditions:</p> <ul style="list-style-type: none"> • A tenderer's scorecard shall be based on the Codes of Good Practice promulgated in Gazette 36928 of 11 October 2013, as amended; and • The scorecard shall be submitted as a certificate attached to Returnable Schedule L; and • The date of issue of any certificate or sworn affidavit must be less than 12 (twelve) months prior to the advertised tender closing date (see Tender Data F.2.15); and • Compliance with any other information requested to be attached to Returnable Schedule L. <p><u>Total Score for Price and Preference</u></p> <p>The points scored for a Tenderer in respect of Price must be added to the points scored in respect of Preference. Only the tender with the highest number of points may be selected, except in those instances permissible by legislation, practice notes or relevant policies.</p>	HDI & Locality	Number of points allocated (90/10 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)	▪ Historical Disadvantage Individual	5		▪ Locality	5		TOTAL POINTS	10	
HDI & Locality	Number of points allocated (90/10 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)											
▪ Historical Disadvantage Individual	5												
▪ Locality	5												
TOTAL POINTS	10												

TENDER NO.	NLM: TEC 03 [03/2026]				
BIDDER		WITNESS		EMPLOYER	
		WITNESS			

F.3.13

1.16.3.1 The legal requirements for acceptance of the tender offer are:

1.16.3.1.1 **Tender Defaulters Register** - the Tenderer or any of its principals 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.

1.16.3.1.2 **Abuse of the SCM System** - the Tenderer has not abused the Employer's Supply Chain Management System and has not been given a written notice to the effect that he has failed to perform on any previous contract.

1.16.3.1.3 **Declaration** - the Tenderer has indicated and declared whether or not a spouse, child or parent of the Tenderer is in the service of the State.

1.16.3.1.4 **Fraud and Corruption** - the Employer is satisfied that the Tenderer or any of his principals have not influenced the tender offer and acceptance by the following criteria:

1.16.3.1.4.1 having offered, promised or given a bribe or other gift or remuneration to any person in connection with the obtaining of this Contract;

1.16.3.1.4.2 having acted in a fraudulent or corrupt manner in obtaining this Contract;

1.16.3.1.4.3 having approached an officer or employee of the Employer or the Employer's Agent with the object of influencing the award of a Contract in the Tenderer's favour;

1.16.3.1.4.4 having entered into any agreement or arrangement, whether legally binding or not, with any other person, firm or company to refrain from Tendering for this Contract or as to the amount of the Tender to be submitted by either party;

1.16.3.1.4.5 having disclosed to any other person, firm or company other than the Employer, the exact or approximate amount of his proposed Tender.

The Employer may, in addition to using any other legal remedies, repudiate the Tender offer and acceptance and declare the Contract invalid should it have been concluded already.

In addition to clauses F.2.1 and F.3.13, Tender Offers will only be accepted on condition that:

a) the tenderer has in his or her possession an original Tax Clearance Certificate issued by the South African Revenue Services;

b) the tenderer is registered with the Construction Industry Development Board in an appropriate contractor grading designation;

c) the tenderer is not in arrears for more than THREE 3 months with municipal rates and taxes and municipal service charges;

d) the tenderer or any of its directors is not listed in 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; and

e) the tenderer has not:

a.abused the Employer's Supply Chain Management System; or

Clause Number	Data / Wording
	<p>ii) failed to perform on any previous contract and has been given a written notice to this effect; and</p> <p>f) 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 comprise the tender process</p> <p>In addition to the evaluation of Responsiveness and Functionality a financial risk analysis will be performed on the Tenderers having the highest ranking/number of points to verify that the rates entered in the Bill of Quantities are reasonable and balanced. Tenders may be disqualified if tendered rates are found to be distorted. Such evaluation will include "Rate Only" items.</p>
F.3.17	<ul style="list-style-type: none"> The number of paper copies of the signed contract to be provided by the Employer is one (1).

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		BIDDER	WITNESS	EMPLOYER	WITNESS

T2: RETURNABLE DOCUMENTS

T2.1 LIST OF RETURNABLE DOCUMENTS

- This Project Document must be submitted as a whole and shall not be taken apart or altered in any way whatsoever. The following schedules and forms are contained in this document and are to be properly completed as required:
 - Returnable Schedules in T2.1.
 - C1.1 Form of Offer and Acceptance, A. Offer, on page C3.
 - Contract Specific Data Provided by the Contractor in C1.2.2 Part B.
 - Pricing Data in C2.2: Schedule of Quantities.

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T2.1 RETURNABLE SCHEDULES

3	CERTIFICATE OF ATTENDANCE AT CLARIFICATION MEETING.....	T18
4	RECORD OF ADDENDA TO TENDER DOCUMENTS	T19
5	COMPULSORY ENTERPRISE QUESTIONNAIRE.....	T20
6	STANDARD BIDDING DOCUMENTS.....	T21
	SBD 1: INVITATION TO BID.....	T21
7	MBD 2: DECLARATION OF INTEREST	T23
8	MBD 3: THE NATIONAL INDUSTRIAL PARTICIPATION PROGRAMME	T27
9	MBD 4.1: PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2017	T29
	SBD 4.2: DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND DESIGNATED SECTORS	T33
	CONTENT FOR SBD 5: DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES.....	T39
	SBD 6: CERTIFICATE OF INDEPENDENT BID DETERMINATION.....	T41
E	PPPFA STATUS LEVEL VERIFICATION.....	T43
F	CERTIFICATE OF AUTHORITY	T44
G	PLANT AND EQUIPMENT.....	T50
H	EXPERIENCE OF TENDERER	T51
I	PROPOSED SUBCONTRACTORS.....	T52
J	KEY PERSONNEL.....	T53
K	DEVIATIONS AND QUALIFICATIONS	T55
L	CONTRACTOR'S HEALTH AND SAFETY DECLARATION	T56
M	TAX COMPLIANCE STATUS.....	T58
N	TENDERER'S BEE VERIFICATION CERTIFICATE.....	T59
O	SCHEDULE OF ALTERNATIVE TENDERS	T60
P	TENDERER'S PARTICIPATION IN JOB CREATION USING LOCAL LABOUR.....	T61
Q	TENDERER'S CONFIRMATION OF BANKING DETAILS AND ACCOUNT STATUS REPORT.....	T63

NOTE: The Tenderer is required to complete each and every schedule and form listed above to the best of his ability as the evaluation of tenders and the eventual contract will be based on the information provided by the Tenderer. Failure of a Tenderer to complete the schedules and forms to the satisfaction of the Employer may lead to rejection on the grounds that the tender is not responsive.

TENDER NO.	NLM: TEC 03 [03/2026]				
		BIDDER	WITNESS	EMPLOYER	WITNESS

4. CERTIFICATE OF ATTENDANCE AT CLARIFICATION MEETING

This is to certify that (*Tenderer*)

of (*address*)

.....
 was represented by the person(s) named below at the compulsory clarification meeting held for all Tenderers **at the Parys Municipality Offices (refer to the Clarification Meeting Venue Plan in Section T1.1) on Wednesday, 18 March 2026, starting at 10h00.**

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

Particulars of person attending the meeting:

Name: Signature:

Capacity:

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

Name: Signature:

Capacity: Date and Time:

<div style="border: 1px solid black; width: 100%; height: 100%;"></div>
<p>Municipal Stamp</p>

Any tender submitted that does not bear the signature of the Employer's Agent on this page shall be considered non-responsive in terms of subclause F.3.8 of the Conditions of Tender and shall be rejected.

TENDER NO.	NLM: TEC 03 [03/2026]			
		BIDDER	WITNESS	EMPLOYER
				WITNESS

6. 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:

Section 2: VAT registration number, if any:

Section 3: CIDB registration number, if any:

Section 4: CSD number:

Section 5: 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 6: Particulars of companies and close corporations

Company registration number:

Close corporation number:

Tax reference number:

Section 7: SBD4 issued by National Treasury must be completed for each tender and be attached as a tender requirement.

Section 8: SBD 6 issued by National Treasury must be completed for each tender and be attached as a tender requirement.

Section 9: SBD8 issued by National Treasury must be completed for each tender and be attached as a tender requirement.

Section 10: SBD9 issued by National Treasury must be completed for each tender and be attached as a tender requirement.

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

1. authorizes the employer to verify the tenderers tax clearance status from the South African Revenue Services that it is in order;
 2. confirms that the neither the name of the enterprise or the name of any partner, manager, director or other person, who wholly or partly exercises or may exercise, control over the enterprise appears on the Register of Tender Defaulters established in terms of the Prevention and Combating of Corrupt Activities Act of 2004;
 3. confirms that no partner, member, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears, has within the last five years been convicted of fraud or corruption;
 4. 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; and
- iv) confirms that the contents of this questionnaire are within my personal knowledge and are to the best of my belief both true and correct.

Signed		Date	
Name		Position	
Enterprise name			

Failure to complete, sign and date this form shall result in the tender being considered non-responsive and rejected in terms of clause C.3.8 of the Conditions of Tender.

TENDER NO.	NLM: TEC 03 [03/2026]				
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PHASE 2: PRICE AND PREFERENTIAL POINTS ALLOCATIONS

For quotes with a Rand value above R50 000 000, the preference point system of 90/10 will apply, where 90 points will be for **(Price)**, 5 points will be for HDI and 5 points will be for Locality.

Price	=	90 Points
HDI	=	5 Points
Locality	=	5 Points
Total	=	100 Points

HDI & Locality	Number of points allocated (90/10 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)
▪ HDI	5	
▪ Locality	5	
TOTAL POINTS	10	

CONCLUSION

Any false information given by the Prospective Service Provider and not meeting the minimum qualifying requirement, will lead to automatic disqualification of the PSP.

The council reserves the right to accept either the whole or part of any Bid, or not to appoint at all. Faxes or e-mail is not acceptable. Bidders will be required to show compliance with the New Preferential Procurement Regulation of 2022

COMPULSORY MUNICIPAL BID DOCUMENTATION

- MBD 1 : Invitation to tender
- MBD 4 : Declaration of interest
- MBD 5 : Declaration for procurement above R10 million
Declaration for audited/reviewed annual financial statements
- MBD 6.1 : Preference points in terms of Preferential Policy Regulations 2022
- MBD 8 : Declaration of bidder’s past supply chain management practices
- MBD 9 : Certificate of Independent Bid Determine

TENDER NO.	NLM: TEC 03 [03/2026]				
		BIDDER	WITNESS	EMPLOYER	WITNESS

APPROVED / NOT APPROVE

**DR. F.P MOTHAMAHA
MUNICIPAL MANAGER**

Date

**NGWATHE LOCAL MUNICIPALITY
LIEBENBERGSTREK
PARYS
9585**

TENDER NO.	NLM: TEC 03 [03/2026]				
		BIDDER	WITNESS	EMPLOYER	WITNESS

**PART A
INVITATION TO BID**

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE (NGWATHE LOCAL MUNICIPALITY)

BID NUMBER:	NLM: TEC 03 [03/2026]	CLOSING DATE:	09 April 2026	CLOSING TIME:	12h00
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DESCRIPTION	APPOINTMENT OF A SERVICE PROVIDER FOR SUPPLY AND INSTALLATION OF SMART METERS (WATER AND ELECTRICITY) AND RELATED ACCESSORIES, FOR DOMESTIC AND BULK SUPPLY FOR A PERIOD OF 36 MONTHS.
-------------	--

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 BOX SITUATED AT (STREET ADDRESS

LIEBENBERGSTREK

PARYS

9585

SUPPLIER INFORMATION

NAME OF BIDDER					
POSTAL ADDRESS					
STREET ADDRESS					
TELEPHONE NUMBER	CODE		NUMBE R		
CELLPHONE NUMBER					
FACSIMILE NUMBER	CODE		NUMBE R		
E-MAIL ADDRESS					
VAT REGISTRATION NUMBER					
TAX COMPLIANCE STATUS	TCS PIN:		OR	CSD No:	

TENDER NO.	NLM: TEC 03 [03/2026]				
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BIDDER

WITNESS

EMPLOYER

WITNESS

<p>ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?</p>	<p><input type="checkbox"/>Yes <input type="checkbox"/>No [IF YES ENCLOSE PROOF]</p>	<p>ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?</p>	<p><input type="checkbox"/>Yes <input type="checkbox"/>No [IF YES, ANSWER PART B:3]</p>
<p>TOTAL NUMBER OF ITEMS OFFERED</p>		<p>TOTAL BID PRICE</p>	<p>R</p>
<p>SIGNATURE OF BIDDER</p>	<p>.....</p>	<p>DATE</p>	
<p>CAPACITY UNDER WHICH THIS BID IS SIGNED</p>			
<p>BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO:</p>		<p>TECHNICAL INFORMATION MAY BE DIRECTED TO:</p>	
<p>CONTACT PERSON</p>		<p>CONTACT PERSON</p>	
<p>TELEPHONE NUMBER</p>		<p>TELEPHONE NUMBER</p>	
<p>E-MAIL ADDRESS</p>		<p>E-MAIL ADDRESS</p>	

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 FORMS PROVIDED–(NOT TO BE RE-TYPED) OR ONLINE			
1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2022, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER 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 THE TAX COMPLIANCE STATUS (TCS) CERTIFICATE 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 FOREIGN SUPPLIERS MUST COMPLETE THE PRE-AWARD QUESTIONNAIRE IN PART B:3.			
2.5 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.			
2.6 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED, EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.			
2.7 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 ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)? YES <input type="checkbox"/> NO <input type="checkbox"/>			
3.2. DOES THE ENTITY HAVE A BRANCH IN THE RSA? YES <input type="checkbox"/> NO <input type="checkbox"/>			
3.3. DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA? YES <input type="checkbox"/> NO <input type="checkbox"/>			
3.4. DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA? YES <input type="checkbox"/> NO <input type="checkbox"/>			
3.5. IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION? YES <input type="checkbox"/> NO <input type="checkbox"/>			
IF THE ANSWER IS “NO” TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 ABOVE.			

3. Service Providers Declaration and Privacy Notice

3.1 I declare that I undertake to inform Ngwathe Local Municipality of any changes in my personal information.

9.2I, as a Service Provider of the Municipality hereby consent that the Municipality may collect, use, distribute, process my personal information for its business purposes, which may include, but is not limited to,

9.2.1 internal administrative processes pertaining to services rendered or goods provided to the Municipality;

9.2.2 conducting service provider vetting; and

9.2.3 rendering services or providing goods to Ngwathe Local Municipality.

9.3I also consent that the Municipality may share my personal information with the South African Revenue Service, Companies and Intellectual Property Commission, Department of Trade and Industry, Provincial Treasury, Black Economic Empowerment Commission, Competition Commission, South African Police Service, Banks, External Auditors, Suppliers Vetting Agencies, relevant governance structures, relevant government institutions and legal entities which may lawfully require such information for legal obligations.

9.4I understand that in terms of the Protection of Personal Information Act (POPIA) and other laws of the country, there are instances where my express consent is not necessary to permit the processing of personal information, which may be related to investigations, litigation, compliance with legislative requirements or when personal information is publicly available.

9.5I will not hold the Municipality responsible for any improper or unauthorized use of personal information that is beyond its reasonable control.

9.6I confirm that I have read the notice and understand the contents.

NB: FAILURE TO PROVIDE ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID. NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE.

7. I, the undersigned certify that the information furnished on this declaration form is correct.

SIGNATURE OF BIDDER:

CAPACITY UNDER WHICH THIS BID IS SIGNED:

DATE:

TENDER NO.	NLM: TEC 03 [03/2026]				
		BIDDER	WITNESS	EMPLOYER	WITNESS

DECLARATION OF INTEREST

5. No bid will be accepted from persons in the service of the state¹.
6. 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 favoritism, 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 authorized representative declare their position in relation to the evaluating/adjudicating authority.
3. In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.

No.	Information	Please provide detail	
3.1	Full name of bidder or his or her representative		
3.2	Identity number		
3.3	Position occupied in the company (director, trustee, hareholder ²		
3.4	Company registration number		
3.5	Tax reference number		
3.6	VAT registration number		
Note	<i>(The names of all directors / trustees / shareholders members, their individual identity numbers and state employee numbers must be indicated in paragraph 4 below.)</i>		
3.7	Are you presently in the service of the state? If yes, please furnish particulars :	Yes	No
3.7.1	Name of director		
3.7.2	Service of state organization		

3.8	Have you been in the service of the state for the past twelve months? If yes, please furnish particulars :	Yes	No
3.8.1	Name of director		
3.8.2	Service of state organization		
3.9	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? If yes, please furnish particulars :	Yes	No
3.9.1	Name of person in the service of state		
3.9.2	Relationship		
3.10	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? If yes, please furnish particulars :	Yes	No
3.10.1	Name of person in the service of state		
3.10.2	Relationship		
3.11	<i>Are any of the company's directors, trustees, managers, principle shareholders or stakeholders in service of the state?</i> If yes, please furnish particulars :	Yes	No
3.11.1	Name of director		
3.11.2	Service of state organization		
3.12	Is any spouse, child or parent of the company's director trustees, managers, principle shareholders or stakeholders in service of the state?	Yes	No

	If yes, please furnish particulars:		
3.12.1	Name of director		
3.12.2	Name of relative		
3.12.3	Relationship		
3.13	Do you or any of the directors, trustees, managers, principle shareholders, or stakeholders of this company have any interest in any other related companies or business whether or not they are bidding for this contract?	Yes	No
	If yes, please furnish particulars:		
3.13.1	Name of director		
3.13.2	Related company		
Note:	<p>SCM Regulations:</p> <p>“In the service of the state” means to be –</p> <p>(a) a member of –</p> <p>(i) any municipal council;</p> <p>(ii) any provincial legislature; or</p> <p>(iii) the national Assembly or the national Council of provinces;</p> <p>(b) a member of the board of directors of any municipal entity;</p> <p>(c) an official of any municipality or municipal entity;</p> <p>(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);</p> <p>(e) a member of the accounting authority of any national or provincial public entity; or</p> <p>(f) an employee of Parliament or a provincial legislature.</p> <p>“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.</p>		

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

Full Name	Identity Number	State Employee Number

5. Service Providers Declaration and Privacy Notice

- 5.1 I declare that all the personal information furnished by me on this form is true and correct, and I undertake to inform Ngwathe Local Municipality of any changes in my personal information.
- 5.2 I, as a Service Provider of the Municipality hereby consent that the Municipality may collect, use, distribute, process my personal information for its business purposes, which may include, but is not limited to,
- 5.2.1 internal administrative processes pertaining to services rendered or goods provided to the Municipality.
 - 5.2.2 conducting service provider vetting; and
 - 5.2.3 rendering services or providing goods to Ngwathe Local Municipality.
- 5.3 I also consent that the Municipality may share my personal information with the South African Revenue Service, Companies and Intellectual Property Commission, Department of Trade and Industry, Provincial Treasury, Black Economic Empowerment Commission, Competition Commission, South African Police Service, Banks, External Auditors, Suppliers Vetting Agencies, relevant governance structures, relevant government institutions and legal entities which may lawfully require such information for legal obligations.
- 5.4 I understand that in terms of the Protection of Personal Information Act (POPIA) and other laws of the country, there are instances where my express consent is not necessary to permit the processing of personal information, which may be related to investigations, litigation, compliance with legislative requirements or when personal information is publicly available.
- 5.5 I will not hold the Municipality responsible for any improper or unauthorised use of personal information that is beyond its reasonable control.
- 5.6 I confirm that I have read the notice and understand the contents.

6. I, the undersigned 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.

<p>NAME OF REP: _____</p>	<p>SIGNATURE: _____</p>
<p>DATE: _____</p>	<p>CAPACITY: _____</p>

CERTIFICATION

I, the undersigned 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.

NAME OF REPRESENTATIVE	AUTHORIZED SIGNATURE (UNDERSIGNED)
DATE	CAPACITY

TENDER NO.	NLM: TEC 03 [03/2026]				
		BIDDER	WITNESS	EMPLOYER	WITNESS

**AUDITED/INDEPENDENTLY REVIEWED ANNUAL FINANCIAL STATEMENT
DECLARATION**

SECTION A - COMPANY TYPE			
	Yes	No	Comment
Is the bidder a public company? Tick applicable box			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. If no, complete section B
SECTION B - PUBLIC INTEREST (PI) SCORE COMPUTATION			
		Allocate points	
Workforce (Number of employees in prior financial year) - 1 point per employee	Number:		
Third party liabilities – 1 point per R1 million (or portion of)	R		
Turnover – 1 point per R1 million (or portion of)	R		
Number of shareholders – 1 point per shareholder (irrespective of how many shares they hold individually).	Number:		
		<hr style="width: 100px; margin: 0 auto;"/>	
			Total
If the PI score is more than 350, submit audited annual financial statements for the past three years or since the date of establishment if established during the past three years.			
If the PI score is less than 350, proceed to section C			
SECTION C			
Submit independently reviewed annual financial statements for the past three years or since the date of establishment if established during the past three years.			

CERTIFICATION

I, the undersigned 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.

Name of representative:	
Capacity:	
Authorized signature (undersigned)	
Date:	

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BIDDER

WITNESS

EMPLOYER

WITNESS

**PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL
PROCUREMENT REGULATIONS 2022**

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 90/10 system for requirements with a Rand value of 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.
- b) The 90/10 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;
- (b) HDI and
- (c) Locality

1.4 To be completed by the organ of state:

The maximum points for this tender are allocated as follows:

	POINTS
PRICE	90
HDI	5
Locality	5
Total points for Price, HDI & Locality	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 HDI & Locality, will be interpreted to mean that HDI & Locality points 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.

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).

2. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

3.1. POINTS AWARDED FOR PRICE

3.1.1 THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

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

$$\begin{array}{ccc}
 \mathbf{80/20} & \mathbf{or} & \mathbf{90/10} \\
 \\
 P_s = 80 \left(1 - \frac{P_t - P}{P} \right) & \mathbf{or} & P_s = 90 \left(1 - \frac{P_t - P}{P} \right)
 \end{array}$$

Where

- P_s = Points scored for price of tender under consideration
- P_t = Price of tender under consideration
- P_{min} = Price of lowest acceptable tender

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		BIDDER	WITNESS	EMPLOYER	WITNESS

3.2. FORMULAE FOR DISPOSAL OR LEASING OF STATE ASSETS AND INCOME GENERATING PROCUREMENT

3.2.1. POINTS AWARDED FOR PRICE

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

80/20

or

90/10

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

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmax = Price of highest 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. In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—

(a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or

(b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system,

then the organ of state must indicate the points allocated for specific goals for 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 organs of state: Where either the 90/10 or 80/20 preference point system is applicable, corresponding points must also be indicated as such.

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

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The HDI & LOCALITY 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 claimed (90/10 system) (To be completed by the tenderer)
HDI	5	
Locality	5	
TOTAL POINTS	10	

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 authorized 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;

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BIDDER

WITNESS

EMPLOYER

WITNESS

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 favorable 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

SIGNATURE(S) OF TENDERER(S)	
SURNAME AND NAME :
DATE	:
ADDRESS	:
	:
	:
	:

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		BIDDER	WITNESS	EMPLOYER
				WITNESS

DECLARATION OF BIDDERS PAST SUPPLY CHAIN MANAGEMENT PRACTICES

1. This municipal bidding document must form part of all bids invited.
2. It serves as a declaration to be used by municipalities and municipal entities in ensuring that when goods and services are being procured, all reasonable steps are taken to combat the abuse of the supply chain management system.
3. The bid of any bidder may be rejected if that bidder, or any of its directors have:
 - 3.1 abused the municipality’s / municipal entity’s supply chain management system or committed any improper conduct in relation to such system;
 - 3.2 been convicted for fraud or corruption during the past five years;
 - 3.3 willfully neglected, reneged on or failed to comply with any government, municipal or other public sector contract during the past five years; or
 - 3.4 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	<p>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?</p> <p>(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 <i>audi alteram partem</i> rule was applied).</p> <p>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</p>	Yes	No
4.1.1	If so, furnish particulars:		
4.2	<p>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)?</p> <p>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.</p>	Yes	No

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		BIDDER	WITNESS	EMPLOYER	WITNESS

Item	Question	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:		
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
4.5. 1	If so, furnish particulars:		
5.	Service Providers Declaration and Privacy Notice		
	<p>5.1 I declare that I undertake to inform Ngwathe Local Municipality of any changes in my personal information.</p> <p>5.2 I, as a Service Provider of the Municipality hereby consent that the Municipality may collect, use, distribute, process my personal information for its business purposes, which may include, but is not limited to,</p> <p>5.2.1 internal administrative processes pertaining to services rendered or goods provided to the Municipality;</p> <p>5.2.2 conducting service provider vetting; and</p> <p>5.2.3 rendering services or providing goods to Ngwathe Local Municipality.</p> <p>5.3 I also consent that the Municipality may share my personal information with the South African Revenue Service, Companies and Intellectual Property Commission, Department of Trade and Industry, Provincial Treasury, Black Economic Empowerment Commission, Competition Commission, South African Police Service, Banks, External Auditors, Suppliers Vetting Agencies, relevant governance structures, relevant government institutions and legal entities which may lawfully require such information for legal obligations.</p>		

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Item	Question	Yes	No
5.4	I understand that in terms of the Protection of Personal Information Act (POPIA) and other laws of the country, there are instances where my express consent is not necessary to permit the processing of personal information, which may be related to investigations, litigation, compliance with legislative requirements or when personal information is publicly available.		
5.5	I will not hold the Municipality responsible for any improper or unauthorized use of personal information that is beyond its reasonable control.		
5.6	I confirm that I have read the notice and understand the contents.		
5.7	I, the undersigned certify that the information furnished on this declaration form is correct.		

CERTIFICATION

I, the undersigned 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.

NAME OF REP: _____	SIGNATURE: _____
DATE: _____	CAPACITY: _____

CERTIFICATE OF INDEPENDENT BID DETERMINATION

- 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).² 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:
 - 3.1. take all reasonable steps to prevent such abuse;
 - 3.2. 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
 - 3.3. 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:

¹ Includes price quotations, advertised competitive bids, limited bids and proposals.

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

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		BIDDER	WITNESS	EMPLOYER	WITNESS

CERTIFICATE OF INDEPENDENT BID DETERMINATION

I, the undersigned, in submitting the accompanying bid:

(Tender Number and Description)

in response to the invitation for the bid made by:

(Name of Municipality / Municipal Entity)

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

I certify, on behalf of: _____ that:

(Name of Bidder)

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

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		BIDDER	WITNESS	EMPLOYER	WITNESS

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 products or services to which this bid invitation relates.
9. The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.

Service Providers Declaration and Privacy Notice

10. I declare that I undertake to inform Ngwathe Local Municipality of any changes in my personal information.
11. I, as a Service Provider of the Municipality hereby consent that the Municipality may collect, use, distribute, process my personal information for its business purposes, which may include, but is not limited to,
 - 11.1 internal administrative processes pertaining to services rendered or goods provided to the Municipality;
 - 11.2 conducting service provider vetting; and
 - 11.3 rendering services or providing goods to Ngwathe Local Municipality.
12. I also consent that the Municipality may share my personal information with the South African Revenue Service, Companies and Intellectual Property Commission, Department of Trade and Industry, Provincial Treasury, Black Economic Empowerment Commission, Competition Commission, South African Police Service, Banks, External Auditors, Suppliers Vetting Agencies, relevant governance structures, relevant government institutions and legal entities which may lawfully require such information for legal obligations.
13. I understand that in terms of the Protection of Personal Information Act (POPIA) and other laws of the country, there are instances where my express consent is not necessary to permit the processing of personal information, which may be related to investigations, litigation, compliance with legislative requirements or when personal information is publicly available.
14. I will not hold the Municipality responsible for any improper or unauthorized use of personal information that is beyond its reasonable control.
15. I confirm that I have read the notice and understand the contents.

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		BIDDER	WITNESS	EMPLOYER
				WITNESS

16. I, the undersigned certify that the information furnished on this declaration form is correct.

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.**

17. 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

GENERAL CONDITIONS OF CONTRACT

The General Conditions of Contract are not included in this document and may be downloaded from the following website – www.treasury.gov.za/legislation

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		BIDDER	WITNESS	EMPLOYER	WITNESS

6 CERTIFICATE OF AUTHORITY

The Tenderer must indicate the enterprise status by ticking the appropriate box hereunder.

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

The Tenderer must complete the relevant certificate(s) set out hereafter or must provide a certificate in the form of a resolution of the partners or directors authorising the signatory on behalf of the enterprise(s) **and such resolution shall include a specimen signature of the signatory.**

Failure to complete, sign and date the relevant certificate(s) set out hereafter or failure to provide the certificate(s) in the form of a resolution as described above 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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- **CERTIFICATE FOR SOLE PROPRIETOR**

I , hereby confirm that I am the sole owner of the

Business trading as:

Specimen Signature of Sole Owner:

Date:

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		BIDDER	WITNESS	EMPLOYER	WITNESS

- CERTIFICATE FOR CLOSE CORPORATION**

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

Signatures of Members:

NAME	ADDRESS	SIGNATURE	DATE

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

Specimen Signature of Signatory:

Date:

- CERTIFICATE FOR PARTNERSHIP**

We, the undersigned, being the key partners in the business trading as

.....

hereby authorize Mr/Ms

acting in the capacity of, to sign all documents in connection with the

tender for Contract No. and any contract resulting from

it on our behalf.

NAME	ADDRESS	SIGNATURE	DATE

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

Specimen Signature of Signatory:

Date:

- CERTIFICATE FOR COMPANY**

I , chairperson of the Board of Directors

of , hereby confirm that by resolution of the Board

(copy attached) taken on 20 ,

Mr/Ms , acting in the capacity of

. , was authorised to sign all documents in connection with this tender and any contract resulting from it on behalf of the company.

Signature of Chairman:

Specimen Signature of Signatory:

Date:

TENDER NO.	NLM: TEC 03 [03/2026]				
		BIDDER	WITNESS	EMPLOYER	WITNESS

• **CERTIFICATE FOR JOINT VENTURE / CONSORTIUM**

[This Returnable Schedule is to be completed by a Joint Venture / Consortium]

We, the undersigned, are submitting this tender offer in Joint Venture / Consortium and hereby authorize Mr/Ms....., authorized signatory of the company

....., acting in the capacity of Lead Partner, to sign all documents in connection with the tender offer and any contract resulting therefrom on our behalf.

NAME OF COMPANY	ADDRESS	DULY AUTHORISED SIGNATORY
Lead Partner		Signature..... Name..... Designation..... Date.....
		Signature..... Name..... Designation..... Date.....
		Signature..... Name..... Designation..... Date.....
		Signature..... Name..... Designation..... Date.....

In addition to this Certificate of Authority on behalf of the JV or Consortium, separate Certificates of Authority are also required from each parent company to the Joint Venture or Consortium. These must be in the form of a resolution of the partners or directors authorizing the signatory on behalf of the enterprise to sign the JV or Consortium Certificate of Authority.

For example, if a joint venture partner is a limited liability company, then a resolution of the board of directors for that company is required to demonstrate that the person signing on behalf of the JV has the authority to do so from the parent company. The tenderer must do this either by using the relevant pro forma certificate (I), (II), (III) or (IV), as provided in this section D of the Returnable Documents, for that particular type of parent organization, or by providing a certificate in the form of a resolution of the partners or directors authorizing the signatory on behalf of the enterprise **and such resolution shall include a specimen signature of the signatory.**

TENDER NO.	NLM: TEC 03 [03/2026]				
		BIDDER	WITNESS	EMPLOYER	WITNESS

7 PLANT AND EQUIPMENT

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

1. Details of major plant and equipment owned by me / us and immediately available for this contract:

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

Attach additional pages if more space is required

2. Details of major plant and equipment that will be hired or acquired for this contract if my / our tender is accepted:

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

Attach additional pages if more space is required

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

SIGNATURE:

DATE:

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

9 PROPOSED SUBCONTRACTORS

I/We hereby notify you that it is my/our intention to employ the following subcontractors for work under this contract. If I/we am/are awarded a contract I/we agree that this notification does not change the requirement for me/us to submit the names of proposed subcontractors in accordance with the requirements of the contract for such appointments.

Acceptance of this tender shall not be construed as approval of all or any of the listed subcontractors. Should any of or all of the subcontractors not be approved subsequent to the acceptance of the tender, it 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 below being approved by the Employer.

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

Attach additional pages if more space is required

SIGNATURE:

DATE:

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

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		BIDDER	WITNESS	EMPLOYER	WITNESS

10 KEY PERSONNEL

The Tenderer must insert in the spaces provided below a list of the key personnel to be employed in the construction of the Works together with a resume of their experience with particular reference to the construction of similar Works.

Contractors

The unit standards for contractors or equivalent QCTO qualification are outlined in Table below. The Tenderer shall attach the curriculum vitae of the listed key personnel to the next page.

DESIGNATION	NAMES	PROJECT TYPE	VALUE OF WORK	YEAR COMPLETED
<p>CONTRACTS MANAGER</p> <p>Bsc/ BTech Civil Engineering or Construction Management and 5 Years Relevant Experience</p> <p>SITE AGENT</p> <p>NQF 5 LIC qualification, ND Civil Eng, Professional Registration with ECSA, 5 years relevant experience and</p> <p>FOREMAN</p> <p>NQF 4 LIC qualification and 5-year relevant experience</p>				

Attach additional pages if more space is required

SIGNATURE:

DATE:

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

TENDER NO.	NLM: TEC 03 [03/2026]				
		BIDDER	WITNESS	EMPLOYER	WITNESS

CURRICULUM VITAE OF KEY PERSONNEL

[Curriculum Vitae of key personnel to be attached here]

TENDER NO.	NLM: TEC 03 [03/2026]				
		BIDDER	WITNESS	EMPLOYER	WITNESS

12 CONTRACTOR'S HEALTH AND SAFETY DECLARATION

- In terms of Clause 5(1)(h) of the OHS Act 1993 Construction Regulations 2014 (referred to as "the Regulations" hereafter), a Contractor may only be appointed to perform construction work if the Employer is satisfied that the Contractor has the necessary competencies and resources to carry out the work safely in accordance with the Occupational Health and Safety Act No 85 of 1993, as amended and the OHS Act 1993 Construction Regulations 2014.

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

Declaration by Tenderer

1. I the undersigned hereby declare and confirm that I am fully conversant with the Occupational Health and Safety Act No 85 of 1993 (as amended by the Occupational Health and Safety Amendment Act No 181 of 1993), and the OHS Act 1993 Construction Regulations 2014.
2. I hereby declare that my company has the competence and the necessary resources to safely carry out the construction work under this contract in compliance with the Construction Regulations and the Employer's Health and Safety Specifications.
3. I propose to achieve compliance with the Regulations by one of the following:
 - (a) From my own competent resources as detailed in 4(a) hereafter:..... ***Yes / No**
 - (b) From my own resources still to be appointed or trained until competency is achieved, as detailed in 4(b) hereafter:..... ***Yes / No**
 - (c) From outside sources by appointment of competent specialist subcontractors as detailed in 4(c) hereafter:..... ***Yes / No**

(* = delete whatever is not applicable)

4. Details of resources I propose:

Note: Competent resources shall include safety personnel such as the construction manager, construction health and safety officer and construction supervisor as defined in Regulation 8, and competent persons as defined in the OHS Act 1993 Construction Regulations 2014, as applicable to this contract.

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

NAMES OF COMPETENT PERSONS	POSITIONS TO BE FILLED BY COMPETENT PERSONS

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

(i) By whom will training be provided?

(ii) When will training be undertaken?

(iii) List the positions to be filled by persons to be trained or hired:

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

Name of proposed subcontractor:

Qualifications or details of competency of the subcontractor:

.....

.....

- 5. I hereby undertake, if my tender is accepted, to provide, before commencement of the works under the contract, a suitable, sufficiently documented and coherent site specific Health and Safety Plan in accordance with Regulation 7(1)(a) of the Construction Regulations, which plan shall be subject to approval by the Employer.
- 6. I confirm that copies of my company's approved Health and Safety Plan, the Employer's Health and Safety Specifications as well as the OHS 1993 Construction Regulations 2014 will be provided on site and will at all times be available for inspection by the Contractor's personnel, the Employer's personnel, the Employer's Agent, visitors, and officials and inspectors of the Department of Labour.
- 7. I hereby confirm that adequate provision has been made in my tendered rates and prices in the schedule of quantities to cover the cost of all resources, actions, training and all health and safety measures envisaged in the OHS 1993 Construction Regulations 2014, and that I will be liable for any penalties that may be applied in terms of the said Regulations (Regulation 33) as a result of contravening or failing to comply with the provisions of the Act and the Regulations.
- 8. I agree that my failure to complete and execute this declaration to the satisfaction of the Employer will mean that I am unable to comply with the requirements of the OHS 1993 Construction Regulations 2014, and accept that my tender will be prejudiced and may be rejected at the discretion of the Employer.

SIGNATURE:

DATE:

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

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		BIDDER	WITNESS	EMPLOYER	WITNESS

13 TAX COMPLIANCE STATUS

The Tenderer is to provide its Tax Compliance Status according to the South African Revenue Services (SARS) for the purposes of tendering.

It is a condition of tender that the taxes of the successful tenderer must be in order, or that satisfactory arrangements have been made with South African Revenue Services (SARS) to meet the tenderer's tax obligations.

- a. **Tenderers must provide a TCS PIN with their tender (in the form of the TCS result letter) to authorize the Employer to view the tenderer's current TCS online, as well as a copy of the Tax Clearance Certificate which is printable after completing the TCS request.**
- b. In tenders where Consortia / Joint Ventures are involved, each party must submit a separate TCS PIN and Tax Clearance Certificate.

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14 PREFERENTIAL PROCUREMENT REGULATIONS 2022

- .Historical disadvantage individual will be given preference for points as per the regulations and such individuals are **Woman, Youth and people with disability.**

1. **Proof of shareholding certificate to claims points**
2. **Proof of disability to claim points**

- Locality (**Preference will be given to local SMME's with preferred points**)

1. Points will be categorized as per Preferential Procurement Regulation and approved SCM Policy

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		BIDDER	WITNESS	EMPLOYER	WITNESS

16 TENDERER'S PARTICIPATION IN WORK OPPORTUNITY CREATION USING LOCAL LABOUR

The Contractor shall be required to participate in work opportunity creation (employment of local labour) by executing various portions of the Works using local labour.

The creation of one work opportunity shall mean the employment, for any period of time, of one unskilled labourer from the local community who is a South African Citizen with his/her own unique South African identity document. Proof of citizenship may be audited during the contract period.

The Tenderer shall note the requirements for work opportunity Creation Reporting for EPWP as set out in clause F3 in Part F: Requirements of the Expanded Public Works Programme (EPWP) of the project specifications.

The minimum number of jobs to be created using local unskilled labour shall be as set out in the table below. This number is inclusive of the local unskilled labour employed to execute various portions of the Works by both the main Contractor and any subcontractors, including the small development subcontractors in terms of Part G: Small Contractor Development of the project specifications. The targeted labour goal stated in the table shall include for a minimum allocation of 55% Women, 55% Youth and 2% Disabled.

The Tenderer shall by the approval of this form commit to creating the minimum number of jobs in terms of job creation participation during the contract period, and this number shall not be less than the minimum stated in the table.

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

I/We hereby tender to participate in job creation through the employment of local labour as approved by the PLC as identified by the OSS War room by creating the following number of jobs using unskilled labour recruited from the local community (including for a minimum allocation of 55% Women, 55% Youth and 2% Disabled):

	Total	Women	Youth	Disabled
Work Opportunities	20	10	10	1
Person Days	2400	1200	1200	120
Training Days	50			

Penalty = 0.5 x 9the value of the shortfall of Targeted Labour). It shall be applied on a pro-rata basis according to a monthly evaluation of achievements against the programmed utilisation. It shall not apply to the individual Target Groups.

The tenderer must complete a standard table reflecting the labour force anticipated to be employed on this contract, including labour employed by sub-contractors. The Specified target value is 18%

Type of Labour	Person-Days	Wage Rate per unit	Total Wage Cost (Excl VAT)
Permanent Staff			
Temporary Staff			
SMME/HDEs Labour			
		Total	
		Percentage	

Notes to Tenderer:

(1) Labour is defined as hourly paid personnel

The undersigned, who warrants that he/she is duly authorized to do so on behalf of the Tenderer, confirms that he/she understands the conditions for such participation and confirms that the tender satisfies the conditions for participation in work opportunity creation through the employment of local labour.

Name:

Duly authorized to sign on behalf of: _____

SIGNATURE:

DATE:

(Of person authorized to sign on behalf of the Tenderer)

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17 TENDERER'S CONFIRMATION OF BANKING DETAILS AND ACCOUNT STATUS REPORT

The tenderer is required to request its bankers to prepare a general report on the tenderer's account status including, *inter alia*, how the tenderer conducts its account, the credit rating that the bank accords the tenderer for the business envisaged by this tender, and setting out the information requested in (a) to (d) below.

In addition to attaching the aforementioned general report from the bank, the tenderer shall also on this Form O complete in full the banking details required in each of (a) to (d) below.

In the event that the tenderer is a joint venture / consortium, a general report and details for each of the members of the joint venture / consortium shall similarly be provided and attached to this Form O.

A. Name of account holder:.....

B. Account number:.....

C. Bank name:

D. Contact details of banker:

Name:

Telephone Number:

E-mail address:

SIGNATURE:

DATE:

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

“Failure to provide the required general report with the tender submission or 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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CONTRACT

C1: AGREEMENTS AND CONTRACT DATA

C2: PRICING DATA

C3: SCOPE OF WORK

C4: SITE INFORMATION

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CONTRACT

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C1.2: CONTRACT DATA	C7	Yellow
C1.2.1: CONDITIONS OF CONTRACT	C8	Yellow
C1.2.2: PART A: DATA PROVIDED BY THE EMPLOYER	C11	Yellow
PART B: DATA PROVIDED BY THE CONTRACTOR	C16	Yellow
C1.3: PERFORMANCE GUARANTEE.....	C17	White
C1.4: AGREEMENT IN TERMS OF SECTION 37(2) OF THE OCCUPATIONAL HEALTH AND SAFETY ACT No 85 OF 1993.....	C20	White
C1.5: RETENTION MONEY GUARANTEE	C22	White
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C1: AGREEMENTS AND CONTRACT DATA

C1.1 FORM OF OFFER AND ACCEPTANCE

a. OFFER

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

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APPOINTMENT OF A SERVICE PROVIDER FOR SUPPLY AND INSTALLATION OF SMART METERS (WATER AND ELECTRICITY) AND RELATED ACCESSORIES, FOR DOMESTIC AND BULK SUPPLY FOR A PERIOD OF 36 MONTHS.

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

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

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

Amount in Words.....
.....
.....

R..... (in figures)

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

Signature: *(of person authorised to sign the tender):*

Name: *(of signatory in capitals):*

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

Name of Tenderer: *(organisation):*

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

Telephone number: Fax number:

Witness:

Signature:

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Name: *(in capitals)*:

Date:

[Failure of a Tenderer to sign this form will invalidate the tender]

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		BIDDER	WITNESS	EMPLOYER	WITNESS

This form is to be completed by the Employer only

b. 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 Agreements and Contract Data (which includes this Agreement) Part 2 Pricing Data, including the Schedule of Quantities
- Part 3 Scope of Work Part 4

Site Information and the schedules, forms, 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 authorized representatives of both parties.

The Tenderer shall deliver the Guarantee in terms of Clause 6.2.1 of the General Conditions of Contract Third Edition (2015) within the period stated in the Contract Data, and he shall, immediately after receiving a completed copy of this Agreement, including the Schedule of Deviations (if any), contact the Employer's Agent (whose details are given in the Contract Data) to arrange the delivery of any other bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the Conditions of Contract identified in the Contract Data, within 14 days of the date on which this Agreement comes into effect. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this Agreement.

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

Signature:

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

Capacity:

Name of Employer *(organisation)*

Address:

.....

Witness: Signature: **Name:**

Date:

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C1.2: CONTRACT DATA

C1.2.1: CONDITIONS OF CONTRACT

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C1.2.1 CONDITIONS OF CONTRACT

C1.2.1.1 GENERAL CONDITIONS OF CONTRACT

This Contract will be based on the "General Conditions of Contract for Construction Works, Third Edition, 2015", issued by the South African Institution of Civil Engineering (abbreviated title: "GCC 2015").

It is agreed that the only variations from the GCC 2015 are those set out hereafter under "C1.2.1.2 SPECIAL CONDITIONS OF CONTRACT".

C1.2.1.2 SPECIAL CONDITIONS OF CONTRACT

C1.2.1.2.1 GENERAL

These Special Conditions of Contract (SCC) form an integral part of the Contract. The Special Conditions of Contract shall amplify, modify or supersede, as the case may be, the GCC 2015 to the extent specified below, and shall take precedence and shall govern.

The clauses of the Special Conditions of Contract hereafter are numbered "SCC" followed in each case by the number of the applicable clause or subclause in the GCC 2015, and the applicable heading, or (where a new special condition that has no relation to the existing clauses is introduced) by a number that follows after the last clause number in the GCC 2015, and an appropriate heading.

C1.2.1.2.2 AMENDMENTS TO THE GCC 2015

SCC 1.1 Definitions

Add the following to the end of Clause 1.1:

"SCC 1.1.1.35 "Targeted Enterprise" means an enterprise as defined in Part G: Small Contractor Development of section C3.3 Particular Specifications in Part C3: Scope of Works."

SCC 4.1.1 Extent of Contractor's obligations

Add the following new paragraph to the end of Clause 4.1.1:

"If the Contractor fails to achieve the monetary value of the target set by the Employer for contract participation by Targeted Enterprises in terms of Part G: Small Contractor Development of section C3.3 Particular Specifications in Part C3: Scope of Works, the Contractor shall be liable to the Employer for a sum calculated in accordance with the Contract Data and the aforementioned Scope of Works as a penalty for such underachievement."

SCC 6.2 Security

SCC 6.2.1 Delivery of security

In the last two lines of Clause 6.2.1, delete the words "the type of security for the due performance of the Contract, as selected in the Contract Data" and replace them with the words "a fixed performance guarantees as security for the due performance of the Contract in accordance with the Contract Data Part A: Data Provided by the Employer".

Delete the entirety of Clause 6.2.2 and replace it with the following:

"SCC 6.2.2 Contractor failing to provide security

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If the Contractor fails to provide the required fixed performance guarantee within the time period stipulated in the Contract Data, or if the performance guarantee shall differ substantially from the pro forma, it shall legally be deemed that the Contractor has selected a security of ten per cent retention of the value of the Works without limiting the Employer's right to terminate the Contract in terms of Clause 9.2."

SCC 6.2.3 Validity of performance guarantee

Delete the entirety of the first sentence of Clause 6.2.3 and replace it with the following:

"The Contractor shall ensure that the performance guarantee remains valid and enforceable until the Certificate of Completion is issued."

SCC 6.8.2 Application of the Contract Price Adjustment Factor

Add the following to the end of Clause 6.8.2:

"Referring to Clause 1 of the "CONTRACT PRICE ADJUSTMENT SCHEDULE" on page 86 of the GCC 2015, delete the paragraph describing the symbols "L", "P", "M" and "F", and replace it with the following:

"L", "P", "M" and "F" are defined as follows:

"L" is the "Labour Index" and shall be the Consumer Price Index for the province as stated in the Contract Data as published in Table A of the Statistical release P0141 of Statistics South Africa.

"P" is the "Contractor's Equipment Index" and shall be the Producer Price Index for "Civil engineering plant" as published in Table 4 of the Statistical release P0151 of Statistics South Africa.

"M" is the "Materials Index" and shall be the Producer Price Index for the "Building and construction - Civil engineering" industry as published in Table 3 of the Statistical release P0151 of Statistics South Africa.

"F" is the "Fuel Index" and shall be the Producer Price Index for "Diesel fuel wholesale - Total" as published in Table 4 of the Statistical release P0151 of Statistics South Africa."

Additional Special Conditions of Contract

The following additional Special Conditions of Contract clauses SCC 1.1 and SCC 5.3 shall apply only in those circumstances where the Employer is required to apply for a construction work permit in terms of Construction Regulation 3(1):

SCC 1.1 Definitions

Delete the entirety of Clause 1.1.1.5 and replace it with the following:

"SCC 1.1.1.5 "Commencement Date" means the date 42 calendar days after the date that the Agreement, made in terms of the Form of Offer and Acceptance, comes into effect."

SCC 5.3 Commencement of the Works

Delete the entirety of Clauses 5.3.1, 5.3.2 and 5.3.3 and replace them with the following:

"SCC 5.3.1 Commencement of the Works

Upon the Employer's Agent's instruction, the Contractor shall, save as may be otherwise provided in the Contract, or be legally or physically impossible, commence carrying out the Works. Such instruction shall be provided not later than 14 days after the Commencement Date. Such instruction shall be subject to:

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SCC 5.3.1.1 The timely submission by the Contractor, and approval by the Employer's Agent, of documentation required before commencing to carry out the Works and before the Employer applying for a permit to do construction work, as set out in the Contract Data,

SCC 5.3.1.2 Application by the Employer for a permit to do construction work in terms of Regulations 3(1) and (2) of the Construction Regulations 2014, and

SCC 5.3.1.3 Receipt by the Employer of the permit to do construction work.

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SCC 5.3.2 Unacceptable documentation

If the documentation referred to in Clause SCC 5.3.1 is not submitted within the number of days stipulated in the Contract Data from the date that the Agreement, made in terms of the Form of Offer and Acceptance, comes into effect, or if such documentation is found to be unacceptable, the Employer may terminate the Contract in terms of Clause 9.2.

SCC 5.3.3 Time to instruct commencement of the Works

Where the Contractor delays the submission by the Employer of the application for a permit to do construction work and such permit is not received within 14 days following the Commencement Date such that the Employer's Agent's instruction to commence carrying out the Works cannot be given, without prejudice to the Employer's rights to terminate the contract under Clause 9.2, the Employer's Agent shall delay issuing the instruction to commence carrying out the Works until such time as the permit to do construction work has been received. The Contractor shall have no entitlement under Clause 5.12 to an extension of time for Practical Completion.

Where the permit to do construction work is not received within the 14 day period following Commencement of the Contract for reasons not attributable to the Contractor, the Employer's Agent shall delay the instruction to commence the Works and the Contractor shall be entitled to make a claim in accordance with Clause 10.1."

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C1.2.2: CONTRACT DATA (Applicable to this contract)

PART A: DATA PROVIDED BY THE EMPLOYER

The following contract specific data are applicable to this contract.

REFERENCE	CONTRACT SPECIFIC DATA PROVIDED BY THE EMPLOYER
<p>1.</p> <p>Clause 1.1.1.13:</p> <p>Clause 1.1.1.14:</p> <p>Clause 1.1.1.26:</p> <p>Clause 1.1.1.15:</p> <p>Clause 1.2.1.2:</p> <p>Clause 1.1.1.16:</p> <p>Clause 1.2.1.2:</p>	<p>GENERAL</p> <p>The Defects Liability Period is 12 months.</p> <p>The time for achieving Practical Completion is 36 <u>months</u> from the Commencement Date, including non-working days and special non-working days.</p> <p>Pricing Strategy: The Contract is to be a Re-measurement Contract.</p> <p>Name of Employer: Ngwathe Local Municipality</p> <p>Address of Employer:</p> <p><u>Physical:</u> Liebenbergstrek Pary's 9585</p> <p><u>Postal:</u> Private Bag 359 Pary's 9585</p> <p>E-Mail: morokolom@ngwathe.co.za</p> <p>Telephone No: (056) 816 2700 Fax No: N/A</p> <p>Name of Employer's Agent: Ngwathe Local Municipality</p> <p>Address of Employer's Agent:</p> <p><u>Physical:</u> Liebenbergstrek Pary's 9585</p> <p><u>Postal:</u> Private Bag 359 Pary's</p> <p>E-Mail: morokolom@ngwathe.co.za</p> <p>Telephone No: (056) 816 2700 Fax No: N/A</p>
<p>3.</p> <p>Clause 3.2.3:</p>	<p>EMPLOYER'S AGENT</p> <p>The Employer's Agent is required to obtain the specific approval of the Employer for any expenditure in excess of the Contract Price and before executing any of the following functions or duties: The issuing of a variation order in terms of Clause 6.3.2. Significant change in designs.</p>

REFERENCE	CONTRACT SPECIFIC DATA PROVIDED BY THE EMPLOYER

REFERENCE	CONTRACT SPECIFIC DATA PROVIDED BY THE EMPLOYER
<p>4.</p> <p>Clauses 4.1.1 and SCC 4.1.1:</p>	<p>CONTRACTOR'S GENERAL OBLIGATIONS</p> <p>The penalty for failing to achieve the monetary value of the target set by the Employer for contract participation by Targeted Enterprises in terms of Part G: Small Contractor Development of section C3.3 Particular Specifications in Part C3: Scope of Works, is 5% of the monetary value by which the achieved monetary value falls short of the target monetary value.</p>
<p>5.</p> <p>5.1.1</p> <p>Clauses 5.3.1 and 5.3.2:</p> <p>Clauses SCC 5.3.1 and SCC 5.3.2:</p>	<p>TIME AND RELATED MATTERS</p> <p>The special non-working days are public holidays, Sundays and the year end break. These days will be excluded from time calculations. The year end break will be as agreed between SAFCEC and the Labour Unions.</p> <p>Where the Employer is not required to apply for a permit to do construction work in terms of Construction Regulation 3(1), the following documentation is to be submitted within <u>14 days</u> from the Commencement Date:</p> <p>The documents required before commencing to carry out the Works:</p> <ul style="list-style-type: none"> • Health and Safety Plan (refer to Clause 4.3) • Initial Programme (refer to Clause 5.6) • Security (refer to Clause 6.2) • Insurance (refer to Clause 8.6) • Form C1.4 'Agreement in terms of Section 37(2) of the Occupational Health and Safety Act No. 85 of 1993' to be signed by the Contractor and the Employer (refer to Clause 4.3 of the GCC 2015 and to paragraph E9. CONTRACTOR'S RESPONSIBILITIES in Part E of C3.3 Particular Specifications) <p>Where the Employer is required to apply for a permit to do construction work in terms of Construction Regulation 3(1), the following documentation is to be submitted within <u>14 days</u> from the date that the Agreement, made in terms of the Form of Offer and Acceptance, comes into effect:</p> <p>The documents required before commencing to carry out the Works:</p> <ul style="list-style-type: none"> • Health and Safety Plan (refer to Clause 4.3) • Initial Programme (refer to Clause 5.6) • Security (refer to Clause 6.2) • Insurance (refer to Clause 8.6) • Form C1.4 'Agreement in terms of Section 37(2) of the Occupational Health and Safety Act No. 85 of 1993' to be signed by the Contractor and the Employer (refer to Clause 4.3 of the GCC 2015 and to paragraph E9. CONTRACTOR'S RESPONSIBILITIES in Part E of C3.3 Particular Specifications) <p>And:</p> <p>The documents required by the Employer to apply for a permit to do construction work in terms of Regulations 3(1) and (2) of the Construction Regulations 2014:</p> <ul style="list-style-type: none"> • Temporary works designer's appointment duties in terms of Regulation 6(2) as have been agreed upon plus proof of registration with ECSA

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REFERENCE	CONTRACT SPECIFIC DATA PROVIDED BY THE EMPLOYER
	<p><i>[CR 3(5)(b)(iii) read with CR 5(1)(e) and CR 6(2)];</i></p> <ul style="list-style-type: none"> Evidence that the contractor has made adequate provision for the cost of Health and Safety, i.e., Bill of quantities <i>[CR 3(5)(b)(iii) read with CR 5(1)(g)];</i>
Clause 5.4.2	<ul style="list-style-type: none"> Evidence that the Principal contractor has the necessary competencies to carry out construction work safely, viz., schedule of activities, relevant appointments and proofs of competency <i>[CR 5(1)(h)];</i> Valid Letter(s) of Good Standing for the appointed Principal Contractor(s) <i>[CR 3(5)(b)(ii) read with CR 5(1)(j)].</i> <p>Access to and possession of the site shall not be exclusive to the Contractor insofar as the provisions of Clause 4.8 apply and where ongoing use by the general public is required. The Contractor shall bear all costs and charges for special and temporary rights of way required by him in connection with access to the site.</p>
Clause 5.8.1:	<p>The non-working days are Sundays.</p> <p>The special non-working days are the construction industry year end break, all foreseeable statutory election days as declared by National Government, and the following statutory public holidays as declared by National Government:</p> <p style="padding-left: 40px;">New Year's Day, Human Rights Day, Good Friday, Family Day, Freedom Day, Workers' Day, Youth Day, National Women's Day, Heritage Day, Day of Reconciliation, Christmas Day and the Day of Goodwill.</p> <p>The construction industry year end break commences on the first working day after 15 December and ends on the first working day after 5 January of the following year.</p>
Clause 5.13.1:	<p>The penalty for failing to complete the Works is five thousand rand per day (R5 000,00 per day).</p>
Clause 5.12.2.2	<p>Extension of time due to abnormal rainfall. Refer to Part A of C3.2: Project Specifications, clause C3.5.</p>
Clause 5.16.3:	<p>The latent defects period is 10 years.</p>

REFERENCE	CONTRACT SPECIFIC DATA PROVIDED BY THE EMPLOYER
<p>6.</p> <p>Clauses 6.2.1 and SCC 6.2.1:</p> <p>6.2.3</p> <p>Clause 6.5.1.2.3:</p> <p>Clauses 6.8.2 and SCC 6.8.2:</p> <p>Clause 6.8.3:</p> <p>Clause 6.10.1.5:</p> <p>Clause 6.10.3:</p>	<p>PAYMENT AND RELATED MATTERS</p> <p>The Performance Guarantee is to contain the wording of the document included in C1.3.</p> <p>The security to be provided by the Contractor shall be:</p> <p>Fixed Performance Guarantee of 10% of the accepted Contract Sum.</p> <p>The expiry date shall be the date, of the issue by the Engineer, of the Certificate of Completion of the Works.</p> <p>The percentage allowance to cover overhead charges is 10%.</p> <p>The value of the certificates issued shall be adjusted in accordance with the Contract Price Adjustment Schedule with the following values:</p> <p>The values of the coefficients for calculating the Contract Price Adjustment Factor are:</p> <p>x = 0.1 a = 0.15 (Labour) b = 0.20 (Plant) c = 0.55 (Materials) d = 0.10 (Fuel)</p> <p>The indices for "L", "P", "M" and "F" as published by SAFCEC. "L" is the "Labour Index" "P" is the "Contractor's Equipment Index" "M" is the "Materials Index" "F" is the "Fuel Index"</p> <p>The "Consumer Price Index" will be as for the Province of Free State</p> <p>The base month is the month prior to the month in which the closing date for the tender falls. Contract Price Adjustment is not allowed in this project.</p> <p>Price adjustments for variations in the costs of special materials are allowed.</p> <p>The percentage advance on materials not yet built into the Permanent Works is 80%.</p> <p>The percentage retention on the amounts due to the Contractor is 10%.</p> <p>The limit of retention money is 5% of the tender offer excluding contingencies and VAT.</p> <p>A retention guarantee in lieu of a cash retention is permitted.</p>
<p>8.</p> <p>Clause 8.6.1.1.2:</p> <p>Clause 8.6.1.1.3:</p> <p>Clause 8.6.1.2:</p>	<p>RISKS AND RELATED MATTERS</p> <p>The value of Plant and materials supplied by the Employer to be included in the insurance sum is <u>nil</u>.</p> <p>The amount to cover professional fees for repairing or reinstatement of damage to the Works to be included in the insurance sum is <u>nil</u>.</p> <p>Special Risks Insurance issued by SASRIA is required.</p>

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REFERENCE	CONTRACT SPECIFIC DATA PROVIDED BY THE EMPLOYER
<p>8.6.1.1.3</p> <p>Clause 8.6.1.3:</p>	<p>The amount to cover professional fees for repairing damages and loss to be included in the insurance sum is 10% of the value of the repair work.</p> <p>The limit of indemnity for liability insurance is <u>R10 000 000,00 (ten million Rand only)</u> for any single liability claim. Liability insurance shall include spread of fire risk.</p>
<p>10.</p> <p>Clause 10.5.3:</p> <p>Clause 10.7.1:</p>	<p>CLAIMS AND DISPUTES</p> <p>The number of Adjudication Board Members to be appointed is one.</p> <p>Unresolved disputes shall be referred to arbitration.</p>
<p>G1003</p> <p>Refer to Part C3: Scope of Works, section C3.3 Particular Specifications, Part G: Small Contractor Development</p>	<p>CONTRACT PARTICIPATION</p> <p>(b) Contract Participation Targets</p> <p>The Contract Participation Target for Targeted Enterprises is <u>10%</u></p>

C1.3: PERFORMANCE GUARANTEE

PRO FORMA PERFORMANCE

GUARANTEE

For use with the General Conditions of Contract for Construction Works, Third Edition (2015).

1. GUARANTOR DETAILS AND DEFINITIONS

“Guarantor” means:

Physical address:

“Employer” means:

“Contractor” means:

“Employer’s Agent” means:

“Works” means:

“Site” means:

“Contract” means: The Agreement made in terms of the Form of Offer and Acceptance and such amendments or additions to the Contract as may be agreed in writing between the parties.

“Contract Sum” means: The accepted amount inclusive of tax of R

Amount in words:

“Guaranteed Sum” means: The maximum aggregate amount of R

..... Amount in words:

.....

“Expiry Date” means: or any other later date set by the Contractor and/or Employer provided such instruction is received prior to the Expiry Date as indicated here.

2. CONTRACT DETAILS

Employer’s Agent issues: Interim Payment Certificates, Final Payment Certificate and the Certificate of Completion of the Works as defined in the Contract.

3. GUARANTOR’S LIABILITY

3.1 The Guarantor’s liability shall be limited to the amount of the Guaranteed Sum.

3.2 The Guarantor’s period of liability shall be from and including the date on which the Performance Guarantee is signed, up to and including the Expiry Date, or the date of issue by the Employer’s Agent of the Certificate of Completion of the Works, or the date of payment in full of the Guaranteed Sum, whichever occurs first.

3.3 The Employer’s Agent and/or the Employer shall advise the Guarantor in writing of the date on which the Certificate of Completion of the Works has been issued.

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4. CONDITIONS APPLICABLE TO THIS PERFORMANCE GUARANTEE

4.1 The Guarantor hereby acknowledges that:

4.1.1 Any reference in this Performance Guarantee to the Contract is made for the purpose of convenience and shall not be construed as any intention whatsoever to create an accessory obligation or any intention whatsoever to create a suretyship.

4.1.2 Its obligation under this Performance Guarantee is restricted to the payment of money.

4.2 Subject to the Guarantor's maximum liability referred to in 3.1, the Guarantor hereby undertakes to pay the Employer the sum certified upon receipt of the documents identified in 4.2.1 to 4.2.3:

4.2.1 A copy of a first written demand issued by the Employer to the Contractor stating that payment of a sum certified by the Employer's Agent in an Interim or Final Payment Certificate has not been made in terms of the Contract and failing such payment within seven (7) calendar days, the Employer intends to call upon the Guarantor to make payment in terms of 4.2.2;

4.2.2 A first written demand issued by the Employer to the Guarantor at the Guarantor's physical address with a copy to the Contractor stating that a period of seven (7) days has elapsed since the first written demand in terms of 4.2.1 and the sum certified has still not been paid;

4.2.3 A copy of the aforesaid payment certificate which entitles the Employer to receive payment in terms of the Contract of the sum certified in 4.2.

4.3 Subject to the Guarantor's maximum liability referred to in 3.1, the Guarantor undertakes to pay to the Employer the Guaranteed Sum or the full outstanding balance upon receipt of a first written demand from the Employer to the Guarantor at the Guarantor's physical address calling up this Performance Guarantee, such demand stating that:

4.3.1 the Contract has been terminated due to the Contractor's default and that this Performance Guarantee is called up in terms of 4.3; or

4.3.2 a provisional or final sequestration or liquidation court order has been granted against the Contractor and that the Performance Guarantee is called up in terms of 4.3; and

4.3.3 the aforesaid written demand is accompanied by a copy of the notice of termination and/or the provisional/final sequestration and/or the provisional liquidation court order.

4.4 It is recorded that the aggregate amount of payments required to be made by the Guarantor in terms of 4.2 and 4.3 shall not exceed the Guarantor's maximum liability in terms of 3.1.

4.5 Where the Guarantor has made payment in terms of 4.3, the Employer shall upon the date of issue of the Final Payment Certificate submit an expense account to the Guarantor showing how all monies received in terms of this Performance Guarantee have been expended and shall refund to the Guarantor any resulting surplus. All monies refunded to the Guarantor in terms of this Performance Guarantee shall bear interest at the prime overdraft rate of the Employer's bank compounded monthly and calculated from the date payment was made by the Guarantor to the Employer until the date of refund.

4.6 Payment by the Guarantor in terms of 4.2 or 4.3 shall be made within seven (7) calendar days upon receipt of the first written demand to the Guarantor.

4.7 Payment by the Guarantor in terms of 4.3 will only be made against the return of the original Performance Guarantee by the Employer.

4.8 The Employer shall have the absolute right to arrange his affairs with the Contractor in any manner which the Employer may consider fit and the Guarantor shall not have the right to claim his release from this Performance Guarantee on account of any conduct alleged to be prejudicial to the Guarantor.

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- 4.9 The Guarantor chooses the physical address as stated above for the service of all notices for all purposes in connection herewith.
- 4.10 This Performance Guarantee is neither negotiable nor transferable and shall expire in terms of 3.2, where after no claims will be considered by the Guarantor. The original of this Guarantee shall be returned to the Guarantor after it has expired.
- 4.11 This Performance Guarantee, with the required demand notices in terms of 4.2 or 4.3, shall be regarded as a liquid document for the purposes of obtaining a court order.
- 4.12 Where this Performance Guarantee is issued in the Republic of South Africa the Guarantor hereby consents in terms of Section 45 of the Magistrates' Courts Act No 32 of 1944, as amended, to the jurisdiction of the Magistrate's Court of any district having jurisdiction in terms of Section 28 of the said Act, notwithstanding that the amount of the claim may exceed the jurisdiction of the Magistrate's Court.

Signed at

Date

Guarantor's signatory (1)

Capacity

Guarantor's signatory (2)

Capacity

Witness signatory (1)

Witness signatory (2)

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C1.4: AGREEMENT IN TERMS OF SECTION 37(2) OF THE OCCUPATIONAL HEALTH AND SAFETY ACT No 85 OF 1993

THIS AGREEMENT is made between Ngwathe Local Municipality (hereinafter called the EMPLOYER) of the one part, herein represented by:

.....

in his capacity as:

AND:

(hereinafter called the CONTRACTOR) of the other part, herein represented by.....

.....

in his capacity as:

duly authorised to sign on behalf of the Contractor.

WHEREAS the CONTRACTOR is the Mandatory of the EMPLOYER in consequence of an agreement between the CONTRACTOR and the EMPLOYER in respect of:

for the construction, completion and maintenance of the works;

AND WHEREAS the EMPLOYER and the CONTRACTOR have agreed to enter into an agreement in terms of the provisions of Section 37(2) of the Occupational Health and Safety Act No 85 of 1993, as amended by OHS Act Amendment Act No 181/1993 (hereinafter referred to as the ACT);

NOW THEREFORE the parties agree as follows:

- The CONTRACTOR undertakes to acquaint the appropriate officials and employees of the CONTRACTOR with all relevant provisions of the ACT and the regulations promulgated in terms thereof.
- The CONTRACTOR undertakes to fully comply with all relevant duties, obligations and prohibitions imposed in terms of the ACT and Regulations: Provided that should the EMPLOYER have prescribed certain arrangements and procedures that same shall be observed and adhered to by the CONTRACTOR, his officials and employees. The CONTRACTOR shall bear the onus of acquainting himself/herself/itself with such arrangements and procedures.
- The CONTRACTOR hereby accepts sole liability for such due compliance with the relevant duties, obligations, prohibitions, arrangements and procedures, if any, imposed by the ACT and Regulations, and the CONTRACTOR expressly absolves the EMPLOYER and the EMPLOYER'S AGENT from being obliged to comply with any of the aforesaid duties, obligations, prohibitions, arrangements and procedures in respect of the work included in the contract.
- The CONTRACTOR agrees that any duly authorised officials of the EMPLOYER shall be entitled, although not obliged, to take such steps as may be necessary to ensure that the CONTRACTOR has complied with his undertakings as more fully set out in paragraphs 1 and 2 above, which steps may include, but shall not be limited to, the right to inspect any appropriate site or premises occupied by the CONTRACTOR, or to take such steps the EMPLOYER may deem necessary to remedy the default of the CONTRACTOR at the cost of the CONTRACTOR.

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- The CONTRACTOR shall be obliged to report forthwith to the EMPLOYER any investigation, complaint or criminal charge which may arise as a consequence of the provisions of the ACT and Regulations, pursuant to work performed in terms of this agreement, and shall, on written demand, provide full details in writing of such investigation, complaint or criminal charge.

Thus signed at for and on behalf of the **CONTRACTOR**

on this the day of 20.....

SIGNATURE:

NAME AND SURNAME:

CAPACITY:

WITNESSES: 1.

o

Thus signed at for and on behalf of the **EMPLOYER** on this

the day of 20.....

SIGNATURE:

NAME AND SURNAME:

CAPACITY:

WITNESSES: 1.

2.

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C1.5: RETENTION MONEY GUARANTEE

PRO FORMA

RETENTION MONEY GUARANTEE

NGWATHE LOCAL MUNICIPALITY
PRIVATE BAG 395
PARYS
9585

CONTRACT No. _____ FOR _____

ISSUED TO: NGWATHE LOCAL MUNICIPALITY (Hereinafter referred to as “the Employer”)

ON BEHALF OF: (Hereinafter referred to as “the Contractor”)

In connection with

CONTRACT NO......(Hereinafter referred to as “the Contract”)

WHEREAS the Employer and the Contractor have agreed that the Contractor may provide a guarantee in lieu of the whole or portion of the retention monies provided for under the Contract;

NOW THEREFORE we, the undersigned, undertake, in accordance with the following provisions, to pay the Employer such amounts as the Employer may, from time to time, demand from us.

- Each demand by the Employer shall be in writing signed by the Employer and delivered to us at

.....
or such other address as we shall in writing notify to the Employer and shall be accompanied by a certificate complying with Clause 2, signed by the Employer’s Agent as such in terms of the Contract.

- The Employer’s Agent’s certificate referred to in Clause 1 shall certify
 - a. that he is the Employer’s Agent in terms of the Contract,
 - b. that the Contractor is in breach of his obligations under the Contract, and
 - c. that the amount demanded, which amount the certificate shall specify,
 - i. does not exceed the amount of retention monies which, but for this guarantee, would have been retained by the Employer in terms of the Contract at the date of the certificate, less the aggregate of the amounts of retention money actually retained by the Employer and the amounts previously paid by us to the Employer in terms hereof, and
 - ii. does not exceed a genuine estimate of the cost to the Employer of having the breach referred to in paragraph (b) remedied less the aggregate of any amounts withheld by the Employer from payments due the Contractor in terms of the Contract by reason of the breach referred to, and any amount in retention money actually held by the Employer save to the extent that the same had been deducted from any previous demand in terms hereof.
- We shall within 28 days after our receipt of a demand complying with the provisions of Clauses 1 and 2 make payment to the Employer of the amount demanded at 172 Burger Street, Pietermaritzburg or at such other address as the Employer shall in writing notify us.
- Subject to compliance with the provisions thereof, our liability to make the payments herein referred to shall be unconditional and shall not be affected nor diminished by any disputes, claims or counterclaims between the Employer and the Contractor.
- Our aggregate liability under this guarantee is limited to R

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- This guarantee shall expire on the date on which the last of the retention monies, which but for this guarantee would have been retained by the Employer, becomes payable to the Contractor.
- This guarantee is not transferable and must be produced for endorsement if any part payment is made and must be returned to us against final payment of our aggregate liability or on the date of the expiry of the guarantee in terms of Clause 6, whichever is the earlier.

Signed in the presence of the witnesses named hereunder:

At for and on behalf of

on this day of

Signature:

Capacity:

Address:

As Witnesses:

- Name in Block Letters
- Name in Block Letters

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C2: PRICING DATA

C2.1 PRICING INSTRUCTIONS

10. GENERAL

- a. Measurement and payment shall be in accordance with Clause 8 of the SANS 1200 Standardised Specifications for Civil Engineering Construction referred to in the Scope of Works, subject to the variations and amendments contained in the section "Applicable SANS 1200 standardised specifications".
- b. Descriptions in the Bills of Quantities 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 Bill, the requirements of the Standardised or Scope of Work, as applicable, shall prevail.
- c. The clauses in a specification in which further information regarding the Bill item can be obtained appear under "Reference clause" in the Bills of Quantities. The reference clauses indicated are not necessarily the only sources of information in respect of schedule items. Further information and set 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 1200 G.
- d. Unless otherwise stated, items are measured nett in accordance with the drawings, and no allowance is made for waste.
- e. The quantities set out in these Bills of Quantities are approximate and do not necessarily represent the actual amount of work to be done. The quantities of work accepted and certified for payment will be used for determining payments due and not the quantities given in the Bills of Quantities.
- f. The prices and rates to be inserted in the Bills of Quantities are to be the full inclusive prices for the work described under the several items. Such prices and rates 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 on which the tender is based, as well as overhead charges and profit. The prices will be used as a basis for assessment of payment for additional work that may have to be carried out.
- g. It will be assumed that prices included in these Bills of Quantities are based on Acts, Ordinances, Regulations, By-laws, International Standards and National Standards that were published 28 days before the closing date for tenders. (Refer to www.stanza.org or www.iso.org for information on standards).
- h. Where the Scope of Work requires detailed drawings and designs or other information to be provided, all costs associated therewith are deemed to have been provided for and included in the unit rates and sum amount tendered such items
- i. A price or rate is to be entered against each item in the Schedule/Bills of Quantities, 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 Bills of Quantities. A single lump sum will apply should a number of items be grouped together for pricing purposes.
- j. Except where rates only are required, the Tenderer shall insert all amounts to be included in his total tendered price in the "Amount" column and show the corresponding total tendered price.
- k. The Tenderer must price each item in the schedule/bill of quantities in **BLACK INK**.
- l. All prices and rates shall exclude value added tax (VAT). The Tenderer shall calculate value added tax and enter it at the end of the summary of the Bill of Quantities.
- m. While the Employer has every intent to complete the full scope of works, the Employer reserves the right to reduce or increase the scope of works according to the dictates of the budget, or to terminate this contract, with adjustment to the agreed rates, sums or fees and without payment of any penalty in this regard. The Service Provider shall however be entitled to pro-rata payment for all services carried out in terms of any adjustment to the Scope of Work or, in the case of termination, remuneration and/or reimbursement.

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11. PROVISIONAL SUMS

Where Provisional sums or Prime Cost sums are provided for items in the Schedule of Quantities, payment for the work done under such items will be made in accordance with Clause 6.6 of the General Conditions of Contract 2015. The Employer reserves the right, during the execution of the works, to adjust the stated amounts upwards or downwards according to the work actually done under the item, or the item may be omitted altogether, without affecting the validity of the Contract.

The Tenderer shall not under any circumstances whatsoever delete or amend any of the sums inserted by the Employer in the "Amount" column of the Schedule of Quantities and in the Summary of the Schedule of Quantities unless so ordered or authorised in writing by the Employer before closure of tenders. Any unauthorised changes made by the Tenderer to provisional items in the schedule, or to the provisional percentages and sums in the Summary of the Schedule of Quantities, at the Employer's discretion, may invalidate the Tenderer's offer or may be treated as arithmetical errors and the provisional items and percentages corrected without change to the Contract Sum.

12. PRICING OF THE SCHEDULE OF QUANTITIES

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

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

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

Should the Tenderer group a number of items together and tender one lump sum for such group of items, this single lump sum shall apply to that group of items and not to each individual item.

The tendered lump sums and rates shall be valid irrespective of any change in the quantities during the execution of the contract.

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

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

For "Rate Only" items, no quantities are given in the "Quantity" column but the quoted rate shall apply in the event of work under this item being required. The Tenderer shall, however, note that in terms of the Tender Data the Tenderer may be asked to reconsider any such rates which the Employer may regard as unbalanced.

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Reasonable compensation will be received where no payment item appears in respect of work required in terms of the Contract which is not covered in any other pay item.

All rates and amounts quoted in the Schedule of Quantities shall be in Rands and cents and shall include all levies and taxes (other than VAT). VAT will be added in the summary of the Schedule of Quantities. Note that fractions of a cent in all rates shall be omitted.

13. CORRECTION OF ENTRIES

Incorrect entries shall not be erased or obliterated with correction fluid but must be crossed out neatly. The correct figures must be entered above or adjacent to the deleted entry, and the alteration must be initialed by the Tenderer.

14. INTERIM PAYMENTS

Unless otherwise specified, progress payments in Interim Certificates, referred to in Clause 6.10 of the General Conditions of Contract 2015, in respect of "sum" items in the Schedule of Quantities shall be by means of interim progress instalments assessed by the Employer's Agent and based on the measure in which the work actually carried out relates to the extent of the work to be done by the Contractor.

Notwithstanding any custom to the contrary, the work as executed will be measured for payment in accordance with the methods described in the contract documents under the various items of payment.

The nett measurements or mass of the finished work in place shall be taken for payment, but any quantity of work in excess of that prescribed shall be excluded.

15. UNITS OF MEASUREMENT

The units of measurement described in the Schedule of Quantities are metric units. The following abbreviations are used in the Schedule of Quantities:

mm	= millimetre	m ³	= cubic metre	Prov sum	= provisional sum
m	= metre	l	= litre	kPa	= kilopascal
km	= kilometre	kl	= kilolitre	MPa	= megapascal
km-pass	= kilometre-pass	kg	= kilogram	MN	= meganewton
m ²	= square metre	t	= ton (1 000 kg)	t-km	= ton-kilometre
m ² -pass	= square metre-pass	No	= number	h	= hour
ha	= hectare	%	= percent	dia	= diameter
m ³	= cubic metre	PC sum	= prime cost sum	Sum	= lump sum
kW	= kilowatt	MN-m	= meganewton-		
		metre			

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BIDDER

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EMPLOYER

WITNESS

16. CONSISTENCY OF RATES

In order to ensure that payments certified by the Employer’s Agent are reasonably consistent with the market value of the work done, and that variations in quantities do not distort the contract valuation, the rates, prices and amounts tendered in the Schedule of Quantities are required to be in balance.

A tender will be considered out of balance if:

1. the combined, extended total tendered for the item:

B13.01 The contractor’s general obligations:

- a. Fixed obligations
- b. Value-related obligations
- c. Time-related obligations

exceeds a maximum of 15% of the Contract Sum (excluding contingencies, escalation and VAT).

2. the rate, price or amount tendered for any other item differs by more than 20 (twenty) percent from the average of the rates, prices or amounts for the same item as tendered by those tenderers who submitted the lowest five responsive tender offers (or as tendered by all the responsive tenderers if there are less than five responsive tenderers).

Any such unbalanced tender may be rejected if, after fourteen (14) days of having been given written notice by the Employer to adjust those rates or lump sums which are unreasonable or out of balance, the Tenderer fails to make the necessary satisfactory adjustments. These adjustments in rectification will be such that increases are balanced by decreases, leaving the tender offer unchanged.

17. PAYMENT FOR LABOUR INTENSIVE COMPONENTS OF WORKS

Those parts of the works to be constructed using labour-intensive methods are to be identified and agreed with by the contractor and Engineer and shall be 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 override 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

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18. 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 client may institute a penalty relating to outstanding labour information.

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

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

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C2.2. SCHEDULE OF QUANTITIES

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SCHEDULE 1 PRELIMINARY AND GENERAL

ITEM	PAYMENT REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1.1	SABS 1200A	PRELIMINARY AND GENERAL				
1.1.1	8.3 PSA 8	A1. Fixed Charges Contractual Requirements, facilities required by Contractor, general responsibilities, site on completion for projects up to the following values: (before establishment and removal thereof adding P&G's)				
1.1.1.1		Project value up to R 50 000:	%	R 50 000,00		
1.1.1.2		Project value above R 50 000 and up to R 100 000:	%	R 100 000,00		
1.1.1.3		Project value above R 100 000 and up to R 500 000:	%	R 500 000,00		
1.1.1.4		Project value above R 500 000 and up to R1 000 000:	%	R 1 000 000,00		
1.1.1.5		Project value above R 1 000 000 and up to R 3 000 000:	%	R 3 000 000,00		
1.1.1.6	PSA 8.11	Dealing with Water based on Work Order Amount Determined above (Fixed Costs)	%	R 2 000 000,00		
1.1.1.7		Provision of Sanitation for Workers on site in the form of Chemical Toilets (Fixed Cost)	Sum	1		
1.1.2	8.4	A2. Time Related Items (for duration of contract, unless otherwise stated)				
1.1.2.1	PSA 8.4.1	Contractual Requirements, general responsibilities and other time related obligations as a percentage of project value (determined above):	%	R 2 000 000,00		
1.1.2.2	PSA 8.11	Dealing with Water based on Work Order Amount Determined above (Time Related Cost)	%	R 2 000 000,00		
1.1.2.3		Time related costs for Chemical Toilets based on Work Order amount determined above (Time Related Cost)	%	R 2 000 000,00		
1.1.2.4		Accommodation of Traffic (only where required)	%	R 1 000 000,00		
1.1.2.5		Locate and protect services (LI)	m ³	1		
1.1.2.6		Standing time due to riots and defined in Clause 42.3 of the General Conditions of Contract: Charges for delay due to riots and other	Day	1		
1.1.2.7		Allow for Payment of CLO	Prov. Sum	1	R 50 000,00	
TOTAL CARRIED FORWARD						

TENDER NO.	NLM: TEC 03 [03/2026]				
		BIDDER	WITNESS	EMPLOYER	WITNESS

SCHEDULE 1 PRELIMINARY AND GENERAL

ITEM	PAYMENT REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
1.1.2.8		Extra over item 1.1.2.7 above for Contractors overheads & profit	%	R 50 000,00		
1.1.2.9		Allow for accredited training (PC)	Sum	1	R 20 000,00	
1.1.2.10		Extra over item 1.1.2.9 above for Contractors overheads & profit	%	R 20 000,00		
1.1.2.11	PSA 8.4.6.	Quality Control Plan & Compliance thereafter	Sum	1		
1.1.2.12	PSA 8.4.7	Liaison with property owner to confirm water interruption	No.	1		
1.1.2.13	PSA 8.12	Allow for compliance with OHS Act by submitting an overall, general safety plan for the duration of the Contract	Sum	1		
1.1.2.14	PSA 8.12	Allow for addendum to general safety plan for each specific project	%	R 2 000 000,00		
1.1.2.15		Allow for safety officer	Month	1		
1.1.2.16		Allow for Safety Audits	Month	1	R 40 000,00	
1.1.2.17	PSA 8.13	Allow for Compliance with Environmental Management Plan (Based on Work Order Amount determined above)	%	R 2 000 000,00		
1.1.2.18		Compilation of meter data sheets, inclusive of photos, coordinates and meter serial no's and details. Refer to the attached copy of the data sheet in this document.	Sum	1		
1.1.2.19		Transportation of old meter materials to municipal depot. Rate to be inclusive of loading, unloading, photos of materials and proof of delivery to and receipt by depot storeman.	Sum	1		
1.12.20		Cost to setting up gateway for Smart Meter	Per Gateway	1		
1.12.21		Cost for A meter Mangament Gateway-Smart Metering	Per Meter	1		
1.12.22		Costing for Data Hosting and Management	Per Meter	1		
TOTAL FOR SECTION 1 CARRIED FORWARD TO SUMMARY						

TENDER NO.	NLM: TEC 03 [03/2026]				
		BIDDER	WITNESS	EMPLOYER	WITNESS

SCHEDULE 2 SITE CLEARANCE

ITEM	PAYMENT REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2.1	SABS 1200C	SITE CLEARANCE				
2.1.1	PSC8.2.1 8.2.2	Clear and Grub Remove and grub large trees and tree stumps of girth Over 1,0 m up to 2,0 m	m ²	1		
2.1.2			no.	1		
2.1.3	8.2.4	Reclear surfaces where ordered by Engineer (Provisional)	m ²	1		
2.1.4	8.2.5	Take down existing fences regardless of size and type(Provisional).	m	1		
	PSC 8.2.11	Demolish and remove structures/ buildings: (Provisional)				
2.1.5		Dismantle and remove existing water meter.	no.	1		
2.1.6		Dismantle and remove existing water meter box.	no.	1		
2.1.7		Dismantle and remove existing water meter stop valve.	no.	1		
2.1.8		Dismantle and remove existing water meter box complete with meter, valve and fittings.	no.	1		
2.1.9		Dismantle and remove existing water mains (up to 150mm AC pipes)	m	1		
2.1.10		Kerbs regardless of type and size (Stack neatly for reinstatement measured separately)	m	1		
2.1.11		Concrete walkway slabs up to 150mm thick	m ²	1		
2.1.12		Segmented Paving: (Stack neatly for reinstatement measured separately)	m ²	1		
TOTAL FOR SECTION 2 CARRIED FORWARD TO SUMMARY						

TENDER NO.	NLM: TEC 03 [03/2026]			
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BIDDER

WITNESS

EMPLOYER

WITNESS

SCHEDULE 3 EARTHWORKS (PIPE TRENCHES)

ITEM	PAYMENT REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3.1	SABS 1200DB	EARTHWORKS - PIPE TRENCHES				
	PSDB 8.3.2	Excavation: (By hand or other means) Excavate in all materials for trenches and use for backfill and or dispose as ordered, The rate also to include for sloping and finishing the final surfaces to the satisfaction of the Engineer. All rates to include for transport, barricading handling, dumping fees, safeguarding, traffic signs to the SA Road Traffic Signs Manual and all signs, barricades and lights as ordered by the local authority, dealing with traffic and all other related costs. (LI) Trench for 150mm pipe				
3.1.1		(i) 0m to 1m deep	m	1		
3.1.2		(ii) 1m to 2m deep Backfill, compact 93% Mod AASHTO, and dispose of surplus/unsuitable material, finish to a smooth surface: Backfill or dispose as ordered. Compaction to 93% MOD-AASHTO density at OMC in layers not exceeding 150mm in thickness. Trench for 150mm pipe	m	1		
3.1.3		(i) 0m to 1m deep	m	1		
3.1.4		(ii) 1m to 2m deep	m	1		
	PSDB 8.3.2.b	Extra-over items 3.1.1 to 3.1.2 for (Provisional) :				
3.1.5		Hard rock excavation, including concrete (thicker than 150 mm) Extra-over items 3.1.3 to 3.1.4 for (Provisional) :	m ³	1		
3.1.6		Soilcrete (5%) under sealed roads (paved) that are - subject to traffic load(motor vehicles), or where ordered by the Engineer	m ³	1		
	8.3.6	Extra Over 8.3.2: Finishing Reinstate surfaces complete with all courses:				
3.1.7		Gravel on shoulders (G7 Min, 75 mm thick)	m ²	1		
3.1.8		Asphalt 25mm thick or more (match existing).	m ²	1		
3.1.9		Paving to match existing	m ²	1		
3.1.10		Kerbing	m ²	1		
TOTAL FOR SECTION 3 CARRIED FORWARD TO SUMMARY						

TENDER NO.	NLM: TEC 03 [03/2026]				
		BIDDER	WITNESS	EMPLOYER	WITNESS

SCHEDULE 4 EARTHWORKS (ROADS AND SUBGRADE)

ITEM	PAYMENT REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
4.1	SABS	EARTHWORKS (ROADS, SUB GRADE)				
	1200DM					
	8.3.3	Treatment of sub grade: Sub-grade preparation and compaction of material to (Max. 150mm thick layer) :				
4.1.1		Min. of 90% of mod. AASHTO max. density.	m ³	1		
4.1.2		Min. of 93% of mod. AASHTO max. density.	m ³	1		
	8.3.4	Cut to fill, borrow to fill: G8 material to TRH14, minimum std. and:				
4.1.3		Compact to 90% mod. AASHTO max. density.	m ³	1		
	8.3.5	Selected layer compacted to:				
4.1.4		93%mod. AASHTO density, G8 material to TRH14.	m ³	1		
4.1.5		93%mod. AASHTO density, G5 material to TRH14.	m ³	1		
	8.3.6	Extra over 8.3.4 & 8.3.5 for breaking material down in:				
4.1.6		Intermediate.	m ³	1		
4.1.7		Hard rock excavation, including concrete.	m ³	1		
4.1.8	8.3.7	Cut to spoil or stockpile from	m ³	1		
4.1.9	8.3.12	Long Overhaul (more than 2km)	km	1		
TOTAL FOR SECTION 4 CARRIED FORWARD TO SUMMARY						

TENDER NO.	NLM: TEC 03 [03/2026]			
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BIDDER

WITNESS

EMPLOYER

WITNESS

SCHEDULE 5 CONCRETE (STRUCTURAL)

ITEM	PAYMENT REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
5.1	SABS 1200G	CONCRETE				
	8.4	Concrete				
	8.4.3.	Strength concrete:				
5.1.1		25/19MPa	m ³	1		
	8.2	Formwork				
5.1.2	8.2.1	Rough (Wood finish):	m ²	1		
		Unformed surface finishes:				
5.1.3	8.4.4.a	Wood floated finish:	m ²	1		
5.1.4	8.4.4.b	Steel floated finish:	m ²	1		
	8.2.1	Provide and Place Precast				
5.1.5		Concrete Slabs 450mmx450mmx50mm	no.	1		
TOTAL FOR SECTION 5 CARRIED FORWARD TO SUMMARY						

TENDER NO.	NLM: TEC 03 [03/2026]				
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BIDDER

WITNESS

EMPLOYER

WITNESS

SCHEDULE 6 MEDIUM PRESSURE PIPELINES

ITEM	PAYMENT REF	DESCRIPTION	UNIT	QUANTIT Y	RATE	AMOUNT
6.1	SABS 1200L	MEDIUM-PRESSURE PIPELINES				
6.2		Lay and Bed Pipes Complete with Couplings Mild Steel Galvanized and Flanged piping (Rate includes Supply and Installation)				
6.3		DN 32	m	1		
6.4		DN 40	m	1		
6.5		DN 50	m	1		
6.6		DN 63	m	1		
6.7		DN 75	m	1		
6.8		DN 90	m	1		
6.9		DN 100	m	1		
	PSL 8.2.1	Supply, Lay and Bed Pipes complete with couplings Mild Steel Galvanized pipes with Table 1600/3 flanges for the following diameters (Rate includes Supply and Installation)				
6.10		DN 32	m	1		
6.11		DN 40	m	1		
6.12		DN 50	m	1		
6.13		DN 63	m	1		
6.14		DN 75	m	1		
6.15		DN 90	m	1		
6.16		DN 100	m	1		
	PSL 8.2.2	Extra-over Item PSL 8.2.1 for cutting of the pipe and the fixing of :	no.	1		
	PSL 8.2.2	Flange adaptor to suit AC pipe (VJ or similar approved by the Engineer in writing). Include for painting bolts with bituminous corrosion resisting paint (Rate includes Supply and Installation)				
6.17		DN 32				
6.18		DN 40	no.	1		
6.19		DN 50	no.	1		
6.20		DN 63	no.	1		
6.21		DN 75	no.	1		
6.22		DN 90	no.	1		
6.23		DN 100	no.	1		
TOTAL CARRIED FORWARD						

TENDER NO.	NLM: TEC 03 [03/2026]				
		BIDDER	WITNESS	EMPLOYER	WITNESS

SCHEDULE 6 MEDIUM PRESSURE PIPELINES

ITEM	PAYMENT REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
	PSL 8,2,5	Mild Steel Galvanized Short Radius Bends Flanged (Rate includes Supply and Installation)				
		90° Elbow				
6.24		DN 32	no.	1		
3.25		DN 40	no.	1		
3.26		DN 50	no.	1		
3.27		DN 63	no.	1		
3.28		DN 75	no.	1		
3.29		DN 90	no.	1		
3.30		DN 100	no.	1		
		Flanged Gate Valve with Valve Box. Include for painting of bolts with bituminous corrosion resisting paint. (Rate includes Supply and Installation)				
6.31		DN 32	no.	1		
6.32		DN 40	no.	1		
6.33		DN 50	no.	1		
6.34		DN 63	no.	1		
6.35		DN 75	no.	1		
6.36		DN 90	no.	1		
6.37		DN 100	no.	1		
		Flanged Strainer (AVK or similar approved). Include for painting of bolts with bituminous corrosion resisting paint. (Rate includes Supply and Installation)				
6.38		DN 32	no.	1		
6.39		DN 40	no.	1		
6.40		DN 50	no.	1		
6.41		DN 63	no.	1		
6.42		DN 75	no.	1		
6.43		DN 90	no.	1		
6.44		DN 100	no.	1		
		Flanged Non-Return Valve (AVK or similar approved). Include for painting of bolts with bituminous corrosion resisting paint. (Rate includes Supply and Installation)				
6.45		DN 32	no.	1		
6.46		DN 40	no.	1		
6.47		DN 50	no.	1		
6.48		DN 63	no.	1		
6.49		DN 75	no.	1		
6.50		DN 90	no.	1		
6.51		DN 100	no.	1		
TOTAL CARRIED FORWARD						

TENDER NO.	NLM: TEC 03 [03/2026]				
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BIDDER

WITNESS

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SCHEDULE 6 MEDIUM PRESSURE PIPELINES

ITEM	PAYMENT REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
	PSL 8.2.2	Extra-over Item PSL 8.2.1 for cutting of the pipe and the fixing of:				
	PSI 8.2.5	Mild Steel Galvanized Short Radius Bends Flanged to Table 1600/3 (Rate includes Supply and Installation) 90° Bend:				
6.52		DN 32	no.	1		
6.53		DN 40	no.	1		
6.54		DN 50	no.	1		
6.55		DN 63	no.	1		
6.56		DN 75	no.	1		
6.57		DN 90	no.	1		
6.58		DN 100	no.	1		
		Install New Water Domestic Prepaid Smart Meter Including Fittings and relative Meter Box (Rate includes Supply and Installation):				
6.59		DN 15	no.	1		
6.60		DN 20	no.	1		
6.61		DN 25	no.	1		
6.62		DN 32	no.	1		
		Install New Water Domestic Meter Including Fittings and relative Meter Box (Rate includes Supply and Installation):				
6.63		DN 15	no.	1		
6.64		DN 20	no.	1		
6.65		DN 25	no.	1		
6.66		DN 32	no.	1		
		Install New Smart Bulk Water Meter Assembly above ground for (Rate includes Supply and Installation) :				
6.67		DN 32	no.	1		
6.68		DN 40	no.	1		
6.69		DN 50	no.	1		
6.70		DN 63	no.	1		
6.71		DN 75	no.	1		
6.72		DN 90	no.	1		
6.73		DN 100	no.	1		
TOTAL CARRIED FORWARD						

TENDER NO.	NLM: TEC 03 [03/2026]				
		BIDDER	WITNESS	EMPLOYER	WITNESS

SCHEDULE 6 MEDIUM PRESSURE PIPELINES

ITEM	PAYMENT REF	DESCRIPTION	UNIT	QUANTIT Y	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
	PSL8.2.16.1	Install New Water Meter Assembly above ground for (Rate includes Supply and Installation) :				
6.74		DN 32	no.	1		
6.75		DN 40	no.	1		
6.76		DN 50	no.	1		
6.77		DN 63	no.	1		
6.78		DN 75	no.	1		
6.79		DN 90	no.	1		
6.80		DN 100	no.	1		
	PSL8.2.18	Raise Water Meter Assembly (above ground level) for:				
6.81		DN 40	no.	1		
6.82		DN 65	no.	1		
6.83		DN 80	no.	1		
6.84		DN 100	no.	1		
6.85		DN 125	no.	1		
6.86		DN 150	no.	1		
6.87		DN 200	no.	1		
6.88	PSL8.2.20	Uncover and Clean Meter Box: As instructed by the Engineer Irrespective of Diameter	no.	1		
	PSL8.2.21	Dismantle Inspect and Clean Water Meter Installation :				
		As instructed by the Engineer				
		Below Ground Existing Meters Above	no.	1		
		Ground meter installations	no.	1		
6.89	PSL8.2.27	Remove of Bees and Clean the Inside of the meter box				
		Of Meter Assembly: As instructed by the Engineer	no.	1		
6.90	PSL8.2.20	Locate and Uncover Covered Meter or Connection as directed by the Engineer.	no.	1		
TOTAL CARRIED FORWARD						

TENDER NO.	NLM: TEC 03 [03/2026]				
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BIDDER

WITNESS

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WITNESS

SCHEDULE 7 BEDDING (PIPES)

ITEM	PAYMENT REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SABS 1200 LB	BEDDING (PIPES)				
	8.2	Bedding				
	8.2.1	Supply bedding from trench excavations				
7.1		Selected granular material:	m ³	1		
	8.2.2	Supply only of Bedding by				
	8.2.2.2	Importation From borrow pits				
7.2		by Contractor Selected granular material:	m ³	1		
	8.2.2.3	From commercial sources:				
7.3		Selected granular material: Washed river sand	m ³	1		
TOTAL FOR SECTION 7 CARRIED FORWARD TO SUMMARY						

TENDER NO.	NLM: TEC 03 [03/2026]			
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BIDDER

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SCHEDULE 8 SUBBASE

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SABS 1200ME	SUBBASE				
	8.3	Sub Base				
	8.3.3	Construct the subbase course with material from commercial sources or designated borrow areas: C4 material, compacted to 95% of mod AASHTO maximum density				
8.1			m ³	1		
8.2	8.3.8	Stabilizing agent: Portland Cement (CEM II B-L 32,5N)	t	1		
TOTAL FOR SECTION 8 CARRIED FORWARD TO SUMMARY						

TENDER NO.	NLM: TEC 03 [03/2026]				
		BIDDER	WITNESS	EMPLOYER	WITNESS

SCHEDULE 9 ASPHALT BASE AND SURFACING

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SABS 1200 MH	ASPHALT BASE AND SURFACING				
	8.5	Asphalt Base and Surfacing				
	8.5.1	Prime coat: (0.7 liter/m ²)				
9.1		RTH 3/12P tar prime	m ²	1		
9.2		MC-30 cut-back bitumen	m ²	1		
	8.5.3	Tack coat: (0.7 liter/m ²)				
9.3		30% bitumen anionic stable grade emulsion Asphalt:	m ²	1		
9.4		Asphalt layer (25 mm thick) hot mix: TPA Medium	t	1		
	8.5.3	Masking all kerbing and channeling with 150 micron PVC sheeting during application of prime coat, tack coat and curing coat.	m	1		
9.5						
TOTAL FOR SECTION 9 CARRIED FORWARD TO SUMMARY						

TENDER NO.	NLM: TEC 03 [03/2026]				
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BIDDER

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SCHEDULE 10 SEGMENTED PAVING

TEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SABS 1200 MJ	SEGMENTED PAVING				
	8.2.2	Construction of Paving Complete Supply and construct ONLY WHERE ORDERED BY ENGINEER IN WRITING Side Walks : 60mm paving (Class 25 MPa) To SABS1058 Pattern paving using more than one color on 20 mm river sand. Colored, including rolling to interlocking condition and cutting :				
10.1		Type S-C Bevel brick in herringbone pattern.	m ²	1		
10.2		Type S-A Interlocker in herringbone pattern. Roadway : 80mm paving (Class 25MPa) To SABS1058 Pattern paving using more than one color on 20 mm river sand. Colored, including rolling to interlocking condition and cutting :	m ²	1		
10.3		Type S-C Bevel brick in herringbone pattern.	m ²	1		
10.4		Type S-A Interlocker in herringbone pattern.	m ²	1		
TOTAL FOR SECTION 10 CARRIED FORWARD TO SUMMARY						

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BIDDER

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WITNESS

SCHEDULE 11 KERBING AND CHANNELLING

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTIT Y	RATE	AMOUNT
	SABS 1200 MK	KERBING & CHANNELLING				
	8.2.1	Concrete kerbing: 25 MPa/13 kerbing :				
11.1		Figure 7	m	1		
11.2		Figure 3	m	1		
11.3		Figure 8 (Mountable)	m	1		
11.4		Figure 9	m	1		
11.5		Figure 10	m	1		
	8.2.6	Ancillaries				
11.6		Transition : Vertical to mountable kerb per 2m length.	no.	1		
TOTAL FOR SECTION 11 CARRIED FORWARD TO SUMMARY						

TENDER NO.	NLM: TEC 03 [03/2026]				
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BIDDER

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WITNESS

SUMMARY – WATER AMR METERS - A

SECTION	DESCRIPTION	AMOUNT
1	PRELIMINARY AND GENERAL	
2	SITE CLEARANCE	
3	EARTHWORKS (PIPE TRENCHES)	
4	EARTHWORKS (ROADS AND SUBGRADE)	
5	CONCRETE (STRUCTURAL)	
6	MEDIUM PRESSURE PIPELINES	
7	BEDDING (PIPES)	
8	SUBBASE	
9	ASPHALT BASE AND SURFACING	
10	SEGMENTED PAVING	
11	KERBING & CHANNELLING	
A	SUB-TOTAL A - WATER AMR METERS	

TENDER NO.	NLM: TEC 03 [03/2026]				
		BIDDER	WITNESS	EMPLOYER	WITNESS

ELECTRICITY AMR METERS

SCHEDULE 12 AUTOMATED METER READING

ITEM NO	DESCRIPTION	UNIT OF MEASURE "A"	EST QUANTITY "B"	UNIT PRICE EXCL VAT "C"	BID TOTAL PRICE FOR FULL PERIOD A x B x C (Excl VAT)
12. AUTOMATED METER READING					
12.1	Daily collection, monitoring, processing, publishing and management of billing and profile data on the remote meters (all costs involved, incl. field services)	36 (months)	1	R	R
12.2	Any communications-related cost (additional to 1 above, e.g. SIM cards, etc.)	36 (months)	1	R	R
12.3	Any operational cost (additional to 1 above, in terms of full responsibility for the integrity and correct operation of the remote metering equipment with the exception of the primary plant such as current and voltage transformers etc.)	36 (months)	1	R	R
12.4	Management of Virtual Meters	36 (months)	1	R	R
TOTAL FOR SECTION 12 CARRIED FORWARD TO SUMMARY					R

ELECTRICITY AMR METERS

SCHEDULE 13 METER RELATED WORK

ITEM NO	DESCRIPTION	UNIT OF MEASURE "A"	EST QUANTITY "B"	UNIT PRICE EXCL VAT "C"	BID TOTAL PRICE FOR FULL PERIOD A x B x C (Excl VAT)
13. METER-RELATED WORK					
13.1	Supply and install meter battery replace CR 2032 3Volt type	Each	1	R	R
13.2	Supply a GPRS modem (material only)	Each	1	R	R
13.3	Install and commission a GPRS modem – labour only (meter supplied by the Municipality)	Each	1	R	R
13.4	Supply, a modem equipped with a last-gasp mechanism to enable notification in the event of a power outage (material only)	Each	1	R	R
13.5	Install and commission a modem equipped with a last-gasp mechanism to enable notification in the event of a power outage – labour only (meter supplied by the Municipality)	Each	1	R	R
13.6	Supply, install and commission an external watchdog timer on modems that often hang	Each	1	R	R

TENDER NO.	NLM: TEC 03 [03/2026]				
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ITEM NO	DESCRIPTION	UNIT OF MEASURE "A"	EST QUANTITY "B"	UNIT PRICE EXCL VAT "C"	BID TOTAL PRICE FOR FULL PERIOD A x B x C (Excl VAT)
13.7	Supply an external modem power supply in the event that a modem cannot be powered by the meter (material only)	Each	1	R	R
13.8	Install and commission an external modem power supply in the event that a modem cannot be powered by a meter – labour only	Each	1	R	R
13.9	Supply, install and commission high-gain antenna	Each	1	R	R
13.10	Install/ commission/ programme/ wire and supply commissioning sheet of a new municipal meter – CT and VT driven or direct meter (meter supplied by the Municipality)	Each	1	R	R
13.11	Install/ commission/ programme and supply commissioning sheet of a new municipal meter – CT and VT driven or direct meter (meter supplied by the bidder)	Each	1	R	R
13.12	Replace/ install/ commission/ programme and supply commissioning sheet of an existing municipal meter – CT and VT driven or direct meter (new meter supplied by the Municipality)	Each	1	R	R
13.13	Verify correctness of new and existing metering equipment at an LV metering point , on request: <ul style="list-style-type: none"> ● verifying of CT polarity correctness ● verifying of CT ratios ● confirmation of correct voltage and current phase relationships ● CT multiplication factor, programmed as per the Municipality requirement at the meter and also remote metering database 	Each	1	R	R
13.14	Verify correctness of new and existing metering equipment at an MV metering point , on request <ul style="list-style-type: none"> ● verifying of CT-VT polarity correctness and wiring ● verifying of CT-VT ratios ● confirmation of correct voltage and current phase relationships ● CT-VT multiplication factor, whichever applicable programmed as per the Municipality requirement 	Each	1	R	R

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ITEM NO	DESCRIPTION	UNIT OF MEASURE "A"	EST QUANTITY "B"	UNIT PRICE EXCL VAT "C"	BID TOTAL PRICE FOR FULL PERIOD A x B x C (Excl VAT)
	at the meter and also remote metering database				
13.15	On request of the Municipality attend to a complaint/ new commissioning of plant/ scheduled maintenance at customer premise etc, during non -normal working hours (e.g. Saturdays and Sundays or Public Holidays).	1	1	R	R
TOTAL FOR SECTION 13 CARRIED FORWARD TO SUMMARY					R

ELECTRICITY AMR METERS

SCHEDULE 14 METER TESTING

ITEM NO	DESCRIPTION	UNIT OF MEASURE "A"	EST QUANTITY "B"	UNIT PRICE EXCL VAT "C"	BID TOTAL PRICE FOR FULL PERIOD A x B x C (Excl VAT)
14. METER TESTING					
14.1	Accuracy test of a 3-phase meter in a laboratory accredited to SANS 17025 by SANAS	Each	1	R	R
14.2	Accuracy test of a 1-phase meter in a laboratory accredited to SANS 17025 by SANAS	Each	1	R	R
14.3	Onsite meter accuracy test	Each	1	R	R
TOTAL FOR SECTION 14 CARRIED FORWARD TO SUMMARY					R

ELECTRICITY AMR METERS

SCHEDULE 15 ESKOM POD'S

ITEM NO	DESCRIPTION	UNIT OF MEASURE "A"	EST QUANTITY "B"	UNIT PRICE EXCL VAT "C"	BID TOTAL PRICE FOR FULL PERIOD A x B x C (Excl VAT)
15. ESKOM POD'S					
15.1	Municipal Eskom Points of Delivery (10 x ESKOM PODs) separate reporting and monthly energy and demand verifications by means of check metering per POD with Eskom billing, one consolidated report per month	1	(month)	R	R
TOTAL FOR SECTION 15 CARRIED FORWARD TO SUMMARY					R

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BIDDER	WITNESS	EMPLOYER	WITNESS	

SCHEDULE 16 PROFESSIONAL SERVICES

ITEM NO	DESCRIPTION	UNIT OF MEASURE "A"	EST QUANTITY "B"	UNIT PRICE EXCL VAT "C"	BID TOTAL PRICE FOR FULL PERIOD A x B x C (Excl VAT)
16. PROFESSIONAL SERVICES					
16.1	Professional services (ECSA registration): • Pr Eng	1	1 hr	R	R
16.2	Professional services (ECSA registration): • Pr Tech Eng/ Pr Cert Eng	1	1 hr	R	R
16.3	Upon request, programming changes, additional programming or system changes	1	1 hr	R	R
16.4	Use of Application Training to the Municipality personnel on an as and when required basis (one session twice a year, each with 12 persons)	1	1 sessions	R	R
16.5	Tariff structural changes re-programming system	1	1	R	R
16.6	Create back-billing / correction reports for faulty meter installations (in accordance with policy and by-laws)	1	1	R	R
16.7	Attend meetings with the customer following back-billing / correction reports for faulty meter installations	1		R	R
TOTAL FOR SECTION 16 CARRIED FORWARD TO SUMMARY					R

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		BIDDER	WITNESS	EMPLOYER	WITNESS

ELECTRICITY AMR METERS

SCHEDULE 17 ONCE-OFF TAKEOVER COST

ITEM NO	DESCRIPTION	UNIT OF MEASURE "A"	EST QUANTITY "B"	UNIT PRICE EXCL VAT "C"	BID TOTAL PRICE FOR FULL PERIOD A x B x C (Excl VAT)
17. ONCE-OFF TAKEOVER COST					
17.1	As per scope, once-off take-over costs: The contract may require a changeover period not exceeding 3 months, during which the new service provider will be allowed to transfer meters from the existing service provider to their database (and communications network). During this period, only meters read for a full month, will be chargeable to the City.	1	1	R	R
TOTAL FOR SECTION 17 CARRIED FORWARD TO SUMMARY					

ELECTRICITY AMR METERS

SCHEDULE 18 REPORTING REQUIREMENTS

ITEM NO	DESCRIPTION	UNIT OF MEASURE "A"	EST QUANTITY "B"	UNIT PRICE EXCL VAT "C"	BID TOTAL PRICE FOR FULL PERIOD A x B x C (Excl VAT)
18. REPORTING REQUIREMENTS					
18.1	Reports providing all the billing data in Rand values as well as summarized per depot area, per consumption category Peak kWh, Standard kWh and Off-Peak kWh and NMD kVA and NAC kVA, and per tariff, of all the meters of the previous calendar month in Excel format.	1	month	R	R
18.2	Provide and manage an application-based meter fault log. The fault log shall have a web-based user interface as part of the MDMS.	1	month	R	R
18.3	Compile detailed technical reports where metering or meter readings on the AMR system were found to be faulty.	1	1	R	R
18.4	Attending monthly meetings in the Municipality area, or virtually	1	month	R	R
TOTAL FOR SECTION 18 CARRIED FORWARD TO SUMMARY					R

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BIDDER		WITNESS		EMPLOYER	
WITNESS					

ELECTRICITY AMR METERS

SCHEDULE 19 PRIMARY PLANT REPLACEMENT AND HOURLY LABOUR RATE

ITEM NO	DESCRIPTION	UNIT OF MEASURE "A"	EST QUANTIT Y "B"	UNIT PRICE EXCL VAT "C"	BID TOTAL PRICE A x B x C (Excl VAT)
19. PRIMARY PLANT REPLACEMENT AND HOURLY LABOUR RATE					
19.1	Handling fee for the bidder to source and supply any size VT, CT or other equipment in the metering circuit (upon request).	1	_____%	R10,000	R
19.2	To do the installation of primary and other meter plant, skilled labour, incl assistant(s), special equipment, vehicle cost, additional material costs, smalls and incidentals.	per 1 hour	N/A	R	R
19.3	Meter Technician with an Assistant and Vehicle.	per 1 hour	1	R	R
TOTAL FOR SECTION 19 CARRIED FORWARD TO SUMMARY					R

ELECTRICITY AMR METERS

SUMMARY – ELECTRIC AMR METERS - B

SECTION	DESCRIPTION	AMOUNT
12	AUTOMATED METER READING	
13	METER RELATED WORK	
14	METER TESTING	
15	ESKOM POD'S	
16	PROFESSIONAL SERVICES	
17	ONCE-OFF TAKEOVER COST	
18	REPORTING REQUIREMENTS	
19	PRIMARY PLANT REPLACEMENT AND HOURLY LABOUR RATE	
B	SUB-TOTAL B - ELECTRICITY AMR METERS	

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TOTAL CARRIED FORWARD TO FORM OF OFFER

SECTION	DESCRIPTION	AMOUNT
A	SUB-TOTAL OF WATER AMR METERS	
B	SUB-TOTAL OF ELECTRICITY AMR METERS	
C	SUB-TOTAL C- (A+B) WATER PLUS ELECTRICITY AMR METERS	
D	CONTINGENCIES AT 10%	
E	SUB-TOTAL D – (C+D) SUB-TOTAL C PLUS CONTINGENCIES AT 10%	
F	ALLOWANCE FOR VAT AT 15.0%	
G	TOTAL TENDER SUM	

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BIDDER

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C3: SCOPE OF WORK

The Ngwathe Local Municipality invites Service Providers to submit written submissions for the appointment to become the Preferred Service Provider for the supply and Installation of prepaid smart (meters and electricity), for a period of 36 months.

Ngwathe Local Municipality seeks prepaid smart meters (water and electricity) and related accessories with the following minimum specifications:

A. PRIMARY

The bidder will be responsible for:

- Supplying, delivering and installing standard prepaid smart meters (water and electricity) compatible with the STS vending system and Bulk meters.
- Installing and replacing all faulty, stuck, or non-functioning meters and upgrading existing meters to prepaid smart meters. Where required.
- Ensuring meters deliver real-time feedback on consumption, credit balance, and leak detection to support management and revenue collection.
- Conducting customer training on the use and management of prepaid smart meters (water & electricity)

B. SECONDARY

- Each meter must have the capability of two way communication without replacing any part of the initial installation, in essence it must be AMR (Automatic Meter Reading) enabled for remote reading of meters, via fixed network, walk-by / drive-by, and accommodate an In- House Display Unit.
- The system must be capable of handling the future addition of user support functions through field upgrading of software via radio or the addition of networked data, such as user account status, via a cell phone.

The following overview provides key system requirements that must be complied with. Specific features of the products offered must be covered in a brief (three pages maximum) technical addendum to this tender document, which shall be read as an integral part of the offer.

C. WATER AMR METERS

1. Meter Box – water

- 1.1. To consist of a robust UV-resistant polymer above ground or wall mount meter box. The Meter Box shall be complete with a Water Meter, Prepaid Water Controller (PWC), Isolating Valve as well as Consumer Stopcock.
- 1.2. A 2-way ballcock is located upstream of the water meter for maintenance, and a 2-way ballcock with exposed handle for the consumer is located downstream.
- 1.3. For above Ground boxes the PWC LCD display shall be positioned +- 400mm from the ground, conveniently visible from the side or from the top, from a standing position.
- 1.4. Internal piping is 25mm HDPE and joints are fusion welded. The meter box inlet and outlets are 20mm (3/4”) BSP female Polymer threads.
- 1.5. A dual key operated secure locking mechanism allows removal of the top half of the meter box for maintenance.
- 1.6. All fittings inside the meter box to be pressure tested to 15 Bar pressure.
- 1.7. The System shall be constructed from materials with very limited or no scrap value.
- 1.8. SABS standard approved.

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		BIDDER	WITNESS	EMPLOYER	WITNESS

PREPAID WATER METERS - TECHNICAL SPECIFICATION (Type A)

PLASTIC WATER METER BOX

2. Water Meter

- 2.1. At minimum a Class C plastic bodied volumetric type water meter, complete with pulse output approved by S.A Trade Metrology to SANS 1529-1:2003. Meter sizes to be available in 15mm, 20mm & 25mm for residential consumers and a 32mm, 40mm, 50mm, 63mm, 75mm, 90mm, 100mm for commercial consumers such as industrial establishments, schools, clinics, hospitals, kiosks, etc.
- 2.2. The meter should be accurate in measuring flow rates from 0.015 to 3500 m³/hour.
- 2.3. The meter shall be fitted with a mechanical register measuring in cubic meters, to 4 decimal places (0.0001m³).
- 2.4. The meter should be approved for both horizontal and vertical mounting.

3. Prepaid Water Controller (PWC)

- 3.1. The PWC must be able to function in either one of the following modes, interchangeable at any time without the need for firmware changes :
 - Prepaid Mode, with configurable daily limit, regardless if credit is available.
 - Fixed Water Dispenser Mode, limiting the volume delivered to a configured daily or monthly allowance.
 - Debit (Postpaid) Mode, to deliver water before payment is required.
 - Conventional Mode, functioning as a normal water meter, manually controlling the valve using FMT, with the option of using the CIU for the consumer to monitor his water usage.
- 3.2. The PWC shall be fitted with a Liquid Crystal Display (LCD) showing the following minimum information:
 - Totalizer, indicated in Cubic Meters (m³) to a minimum resolution of 0.0005 m³
 - Credit available in Cubic Meters (m³) to a minimum resolution of 0.001 m³
 - Highest priority error code that may be present on the system
 - Battery status (low or empty)
 - Valve status (open or closed)
 - Possible water leak indication
 - RF link to CIU
 - Pulse Indication, as a visible indication of pulses received from meter.
- 3.3. The following markings should be visible on the PWC:
 - Measurement Unit in Cubic Meters(m³)
 - Unique 11 digit numeric Prepaid Number, including a check digit, available in QR or Bar Coded formats for easy scanning.
 - NRCS certificate number, as required by SANS1529-9.
 - STS Logo and certificate number as required by IEC 62055.
- 3.4. The PWC shall be fitted with a bi-directional 868mHz Radio Frequency (RF) communications port to facilitate Automatic Meter Reading (AMR), as well as a wireless link to a remote CIU, with a minimum transmission range of 500meters (line of sight).
- 3.5. The radio antenna should be of the internal type. No external antennas shall be allowed.
- 3.6. An Infra Red (IR) port located on the face of the PWC to facilitate direct communications to a Field Maintenance Terminal (FMT).
- 3.7. All radio and IR communication shall be securely encrypted.

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- 3.8. The PWC must be fitted with an in-the-field replaceable battery pack, without the need to remove the meter from the installation. Battery design life should be 10 years, irrespective of usage.
- 3.9. The PWC must be water and dust proof to IP68, with an operating temperature between - 10oC to 55oC.
- 3.10. Drive-by AMR (Automatic Meter Reading) capabilities should include:
 - User defined fields, where the user can select from a list of data fields, which data is required and only download the required data.
 - No duplication of meter data (Same meter read more than once)
 - Date/Time Stamp for each record uploaded
- 3.11. Automated Meter Configuration (AMC) to facilitate mass meter re-configuration using Walk-by or Drive-by, without the need to re-configure each meter individually. As an example: Change all the installed meters from providing 6kL per month, to 8kL per month, without physically having to attend and re-configure each meter.
- 3.12. Automatically deliver Free Basic Water (FBW), at zero cost, with the following configurable options:
 - Daily at specified time or monthly on the 1st day of each month.
 - Configurable volume up to 65m3 or for a specified duration.
 - Options for “No Accumulation” (Use it or lose it), “Daily Accumulation” or “Daily and Monthly accumulation”
 - Accept manual FBW credit tokens issued on a consumer collection basis from vending points. Only one token accepted per month irrespective of how many tokens issued.
- 3.13. Allowance for Lifeline Credit. Lifeline credit allows consumers limited access to water when the meter runs out of credit, until the consumer is able purchase more credit. Lifeline credit is activated on the CIU when no credit is available. Unused Lifeline credit expires at the end of the day. Lifeline credit is not free and runs the credit register into negative credit, until such time the consumer purchases more credit. Purchased credit is first used to replenish the negative credit, before the register is brought into a positive value. Three limiting options should be available:
 - Limited daily volume for limited number of days (Default)
 - Limited daily volume for unlimited number of days.
 - Unlimited volume, for limited number of days.
- 3.14. Emergency Water is delivered to the consumer in case of Emergency, such as fire. Delivery is based on a limited annual allocation of water at zero cost.
- 3.15. Emergency Water shall be delivered upon activation on the CIU by the consumer, for a limited volume and limited duration. Emergency allocation shall be re-instated automatically at a configured date annually.
- 3.16. The PWC shall only except Credit Tokens conforming to the IEC 62055-41 & 51
- 3.17. Standards, being a 20 digit encrypted numeric credit token.
- 3.18. The PWC should store a 12 month consumption history, for the Total monthly consumption and individually recorded each credit type, being Paid, FBW,
- 3.19. Lifeline and Emergency.
- 3.20. Record the monthly paid credit usage over the last 12 months.
- 3.21. History of the last 10 credit tokens entered shall be recorded and
- 3.22. made visible to the consumer on the CIU indicating the token entered, the volume and the date the token was entered.
- 3.23. Record the previous 12 months totalizer reading as at the start of each month facilitating consumption vs. credit loaded queries.
- 3.24. Support a data logging system recording the hourly totalizer reading for the last 90 days.

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3.25. A configurable Water Conservation Limit, limiting daily usage, regardless of credit being available.

4. Consumer Interface Unit (CIU)

- 4.1. The CIU shall be a wall-mounted device installed inside the consumer house, linked to the PWC via RF communication link.
- 4.2. The CIU shall be battery powered with a life span of 5 years. Replacement batteries shall be of a commonly available type obtainable from any retail shop. A dedicated battery compartment, with sliding lid shall enable the consumer to replace the batteries without having to open the unit or require assistance from technical personnel.
- 4.3. The CIU shall have a Liquid Crystal Display (LCD) displaying the following:
 - 1. Credit Type being delivered, i.e. Paid Credit, FBW, Emergency, Lifeline, etc.
 - 2. Credit available in Cubic Meters (m³) to a minimum resolution of 0.001 m³
 - 3. Allow for additional messages such as an Error Code, "Locked", "Leak", etc.
 - 4. Credit status indication such as "No credit", "Credit low" and "FBW Low".
 - 5. Battery status of the CIU
 - 6. Valve open or closed status
 - 7. Indicates a possible water leak
 - 8. RF communication link status
- 4.4. The LCD display should always be active, indicating the credit available. The CIU should at least once every hour, automatically refresh itself by obtain the latest information form the PWC, without any intervention from the consumer.
- 4.5. The display shall rotate every 10 seconds between the following messages: Credit Status, Credit Available and any Additional Message such as a possible leak. It shall be possible to manually refresh the credit available on the CIU at any time.
- 4.6. The CIU shall include a 12 button silicon keypad with tactile feedback. Buttons shall include 0 - 9, Backspace and #. The button layout shall be according to the industry accepted standard layout for STS prepaid meters.
- 4.7. In addition to entering of credit tokens, the CIU must enable the consumer to obtain the following information or perform actions on the meter:
 - 1. Display the 11 digit Prepaid Number of the PWC
 - 2. Display the credit available individually for any of the credit registers
 - 3. Consumption for the current day
 - 4. Consumption for the current month
 - 5. Consumption average over the last 3 months.
 - 6. Electronic totalizer reading
 - 7. Total consumption to date
 - 8. Total credit loaded to date
 - 9. Paid Credit used for the month
 - 10. Monthly consumption history over the previous 3 months
 - 11. Leak indication, with the size of the leak in Litres/hour
 - 12. History of the last 10 tokens entered, with credit value and date stamp
 - 13. Display the Supply Group Code loaded in the PWC
 - 14. Lock or Unlock the meter, stopping water delivery when not at home.
 - 15. Activate Lifeline credit, if so configured
 - 16. Activate Emergency Water, if so configured

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- 4.8. A resettable User Totalizer shall be available for the consumer to record water consumption for specific events, such as using the dishwasher or watering the garden. First reset the user totalizer on the CIU. After consuming the water, the consumer can now view the water consumed on the CIU display.
- 4.9. All volume indications should be in Cubic meters (m3) only, to a resolution of 0.001 m3.
- 4.10. Pairing between the CIU and PWC shall be password controlled to prevent un-authorized tampering.
- 4.11. A Keypad Lock function shall be available to prevent un-authorized pressing of buttons.

5. Remote On-line Monitoring

- 5.1. The CIU shall facilitate remote on-line monitoring by connecting to Sigfox public network or similar, without having impact on the battery life of the PWC. No installation of additional data concentrators or gateways should be required.
- 5.2. The meter shall send the following information on a daily basis:
 - 1. Electronic Meter totalizer reading in m3
 - 2. Credit Status – Credit, low credit or no credit
 - 3. Credit type consumed – Paid, FBW, Special, Lifeline, Emergency
 - 4. Meter Mode – Prepaid, Post-paid, Conventional or FWD
 - 5. Valve position - Open or Close
 - 6. Tamper status, with date/time stamp of last tamper
 - 7. Leak indication, with leak size in Litres/h
 - 8. PWC and CIU battery status
 - 9. Lock status – Utility or Consumer lock
 - 10. Error code, if present
 - 11. Current month to date consumption
 - 12. Previous month consumption
- 5.3. A web interface shall be made available to register and manage installed meters, and view the above data from each meter.

6. Field Maintenance Terminal (FMT)

- 6.1. The FMT software shall be available for installation on any compatible Windows based laptop or tablet. A rugged, splash proof laptop may be offered as pre-installed complete solution.
- 6.2. The FMT shall be used for drive-by AMR (Automatic Meter Reading) as well as remote meter interrogation for diagnostic and configuration purposes.
- 6.3. The FMT shall be complete with a USB RF Data Collector suitable to communicate with the meter, remotely without having direct access to the meter.
- 6.4. The RF Data Collector shall have the facility to attach a magnetic roof-mount antenna, to be fitted on the roof of the vehicle when used for drive-by AMR data collection.
- 6.5. All communications between the FMT and PWC shall be securely encrypted.
- 6.6. The FMT shall be password controlled, with various levels of security.
- 6.7. The FMT shall include various diagnostics functions to fully assess the functionality of the system, as well as provide meter, credit, and valve information.
- 6.8. It shall be possible to view historical information such as the last 10 credit tokens entered, 12- month consumption history for each credit type, monthly totalizer history, credit usage, and hourly consumption patterns.

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- 6.9. AMR data fields requested from the PWC shall be fully user definable, to prevent uploading of unwanted data.
- 6.10. No record duplication shall be accepted when doing drive-by AMR.
- 6.11. AMR records should be available in CSV format, for easy import to Microsoft Excel, and other third-party information systems.

7. APPROVAL

- 7.1. The PWC shall be approved by STSA (Standard Transfer Specification Association) for compliance to IEC62055-41 & IEC62055-51.
- 7.2. The complete system shall be approved by NRCS (National Regulator for Compulsory Specifications) to SANS1529-1 and SANS1529-9.
- 7.3. The radio equipment shall be approved by ICASA (Independent Communications Authority for South Africa) to EN 300 220, EN 301 489-1&3 and EN 60950.
- 7.4. The CIU shall be Sigfox Certified.

8. PLASTIC WATER METER

The water meter shall meet or exceed the following requirements:

- Volumetric rotary piston principle of measurement
- 15mm, 20mm or 25mm Class C, 114mm plastic rotary piston meter with liquid
- sealed mechanical transmission/flow with direct reading counter, high reliability,
- high precision
- Conform to NRCS 1529-1
- Conform to ISO 4064 ISO 9001:2008 Class C
- Accuracy is NOT to be affected where ever installed at a horizontal, vertical or
- inclined pipeline
- Clear, easily read, liquid sealed 8 -digit counter
- Internal non-return valve and strainer
- Meter to be robust, leak proof with durable tamper proof construction.
- Meter must NOT have visible pulse output facility for smart solution to avoid
- tampering and manipulation
- Meter to have wet dial counter to prevent condensation under the lenses
- Meter to have direct mechanical drive counter to prevent magnetic interference and
- tampering
- Flow requirements: In the lower zone from (qmin) inclusive up to but excluding (qt)
- is $\pm 5\%$
- Flow requirements: In the upper zone from (qt) inclusive up to and including (qs) is
- $\pm 2\%$
- Meter working conditions must allow for water temperature of 0°C- 50°C and water Pressure of 16 Bar

9. BATTERY FOR THE WATER METER SCREEN

MODEL: PWC 100-B or similar approved

Type: 3V6 Lithium Battery Pack

Parameters:

- Nominal Voltage: 3V6
- Capacity: 4800mAh
- Chemistry: Li/SOCl2 - Lithium Thionyl Chloride
- Maximum Current: 100mA

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- Maximum Pulse: 200mA
- Temperature Range: -10oC – 55oC
- Environmental: IP68
- Cell Size: Cylindrical, Size AA
- Arrangement: 2 x Cells in Parallel

Physical:

- Dimensions: 50mm x 65mm x 20mm
- Wire length: 150mm
- Polarity: + Red, - Black
- Mounting: Designed to fit Piggyback Scan counter enclosure
- Sealing: For field replacement, use 2 x Scotchlock UY2 connectors.

9.1 General Requirements

- **Type:** Volumetric Rotary Piston.
- **Material:** Corrosion-resistant, UV-stabilized, fiberglass-reinforced polymer plastic.
- **Pulse Output:** Must be pulse-prepared, providing a Hall-Effect compatible signal.
- **Internal Features:** Must include an internal non-return valve and a strainer.
- **Installation:** Suitable for horizontal or vertical pipelines.
- **Compliance:** Must be NRCS Type Approved and comply with SANS 1529-1:2019.

9.2 Technical & Metering Specifications

Parameter	Requirement
Accuracy Class	Class C (per SANS 1529-1:2019)
Nominal Pressure	16 Bar (1600 kPa)
Working Temperature	+2°C to +40°C
Pulse Value	500 ml/pulse

9.3 Meter Sizes and Flow Rates

Size (mm)	Max. Flow (q_{max})	Nominal Flow (q_n)	Min. Flow (q_{min})
15	3.0 m ³ /h	1.5 m ³ /h	0.015 m ³ /h
20	5.0 m ³ /h	2.5 m ³ /h	0.025 m ³ /h

9.4 Deliverables and Certification

- 9.4.1** Each integrated unit must have a unique, bar-coded serial number.
- 9.4.2** The supplier must provide copies of the valid **NRCS Type Approval Certificates** for both the PWC and the Water Meter.
- 9.4.3** Basic installation and user manuals must be provided.

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10. BULK WATER METERS - TECHNICAL SPECIFICATION

Range: 32/40/50/63/75/90/100mm. Interchangeable internal mechanism. Suitable for forward and reverse flow measuring. Versatile bi-directional inductive pulse output with external PR7. Pressure tapping. Max working pressure: 1600 kPa.

10.1 Meter performance

Meter size(mm)	32mm	40mm	50mm	63mm	75mm	90mm	100mm
Overload Flow m ³ /h	90	90	90	90	200	250	250
Permanent flow m ³ /h	50	50	50	50	120	180	180
Transitional Flow m ³ /h	1	1	1	1	2	2	2
Minimum flow (horizontal) m ³ /h	0,35	0,35	0,35	0,35	0,5	0,6	0,6
Minimum flow (Vertical) m ³ /h	0,45	0,45	0,45	0,45	1,2	1,2	1,2
Starting flow (approx.)	0,15	0,15	0,16	0,16	0,22	0,25	0,25
Head loss at overload flow Kpa	84	84	49	49	27	43	43
Maximum registration millions of	1	1	1	1	1	1	1
Maximum water temperature °C	50	50	50	50	50	50	50
Maximum working pressure Kpa	1600	1600	1600	1600	1600	1600	1600

10.2 Flange Table

Meter size	32	40	50	63	75	90	100
Table D	Dual	Dual	Dual	Dual	Dual	Dual	Dual
SABS 1123 table 16	Dual	Dual	Dual	Dual	Dual	Dual	Dual

10.3 Bulk water meter

Description	Sizes
Bulk water meters dual drilled flanged	32mm
Bulk water meters dual drilled flanged	40mm
Bulk water meters dual drilled flanged	50mm
Bulk water meters dual drilled flanged	63mm
Bulk water meters dual drilled flanged	75mm
Bulk water meters dual drilled flanged	90mm
Bulk water meters dual drilled flanged	100mm

D. ELECTRICAL AMR METERS

- The time on all the meters shall be maintained to SA standard time to 30 seconds ± 1 second as outlined in this specification. An alarm shall be raised within the MDMS Fault Management System described in this specification if the time on a meter has drifted more than 3 minutes.

2 Certification and verification of metering points

The bidder shall assume full responsibility for the integrity and correct operation of the metering equipment with the exception of the primary plant such as current and voltage transformers;

- Each metering point shall (*upon request*) be verified to meet the minimum requirements of the Municipality. Copies of the metering commissioning sheet, in the format provided by the Municipality, shall be made available to the Manager: Electricity.
- In the majority of cases, it is recognised that access may not be possible to primary equipment such as current and voltage transformers, but work on these should be scheduled to coincide with any routine or other maintenance on the system during which the plant is isolated, and
- Metering equipment shall be sealed by the bidder using seals approved by the Municipality.

The bidder must, on request, verify the correctness of new and existing metering equipment at an **LV metering point**, in terms of at least the following:

- verifying of CT polarity correctness
- verifying of CT ratios
- confirmation of correct voltage and current phase relationships
- CT multiplication factor, programmed as per the Municipality requirement at the meter and also in the remote metering database.

Similarly, the bidder must, on request, verify the correctness of new and existing metering equipment at an **MV metering point**, in terms of at least the following:

- verifying of CT-VT polarity correctness and wiring
- verifying of CT-VT ratios

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- confirmation of correct voltage and current phase relationships
- CT-VT multiplication factor, whichever applicable programmed as per the Municipality requirement at the meter and also in the remote metering database.

On request from the Municipality, the bidder will be expected to attend to a complaint/ new commissioning of plant/ scheduled maintenance at customer premises, etc., during **non-normal** working hours (e.g. Saturdays and Sundays or Public Holidays).

3 Pre-requisite requirements

3.1 Competence

The service provider shall assume responsibility for the integrity of the entire metering installation down line from the instrumentation transformers including, but not limited to, meters, test terminal blocks, LV fuses, and all wiring and communication equipment. Upon request by the municipality, quotes will be provided by the bidder to repair primary plant. More detail lower down in this specification.

This necessarily implies that staff working in high, medium and low voltage chambers shall have the requisite qualifications to comply with statutory safety requirements.

The service provider shall not permit an employee to work alone on a live metering system. Each technically competent person shall be accompanied by an assistant, who need not be technically competent, but shall have basic training in first aid.

The service provider shall have sufficient specialised equipment for each technical team to allow certification, verification and fault finding and diagnosis on meter systems. This shall include, but not be limited to:

- notebook computers;
- camera devices to record before and after installations and evidence of tampering if found;
- GPS devices for recording coordinates of metering points;
- high voltage current measurement devices;
- multi-meters with a correct safety rating for the type of work;
- safety equipment such as insulated gloves, face masks, safety boots, flame resistant clothing and fire extinguishers;
- comprehensive first aid kits with special attention to treating burns.

3.2 SANAS calibration laboratory

The ability to certify metering installations and calibrate meters is an important part of the scope of work and requires that the service provider shall use the services of a meter calibration laboratory that has been accredited by SANAS to SANS 17025 for AC energy, including on-site calibration.

4 System implementation

The Municipality requires the bidder to provide a fully hosted cloud-based solution for the meter data acquisition, meter data management and billing service.

The data acquisition system shall be operated entirely by the service provider in a Software as a Service (SaaS) delivery model.

This specification is therefore not prescriptive of any one particular technology, architecture or implementation paradigm. The service provider shall nevertheless demonstrate to the satisfaction of the Municipality that the underlying software of their solution is fit for purpose: based on a robust architecture model and framework using industry-standard systems and applications.

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The application shall be highly scalable, available and reliable and shall provide excellent performance, even under conditions of high load.

The application shall be designed using multi-tier (N-tier) design architecture. The architecture shall have distinct tiers representing the client, business, database layers etc.

4.1 Web-based implementation

- There shall be no need for the installation of any application, hardware or licensing at the client end.
- The proposed MIS/MDMS system deployment/ implementation shall be entirely cloud based with a Web based front-end.
- All access to MIS/MDMS functionality shall be by means of Web Applications. The Web Applications shall be guaranteed to work with standard versions of Internet browsers.
- There shall be no need for the installation of any browser extensions or “add-ons” such as Adobe Flash or similar.
- The system shall make use of HTTPS authentication and encryption signed by an internationally recognised and globally trusted certification authority.

4.2 Metering database

The database tier should comprise of an industry-standard SQL compliant RDBMS that must be designed to be able to maintain the relationships between meter and network assets, network topology, user privileges, service points, customer accounts and other entities.

No proprietary, non-standard or non-SQL-based database shall be acceptable.

The database system hardware and database components shall be such that the average system load measured in any given 60s interval represents no more than 40% of the total available capacity.

The database shall be required to hold at least five years of data live for reporting and other purposes. Data older than five years may be archived, but never deleted. As a consequence, certain table structures, such as those holding interval data, for example, are comparatively large.

The prospective bidder shall provide detailed information on their proposed hardware and application database solution to handle the volume of data required along with benchmark tests indicating that the system will be able to cope with the required volume of data should the installed base of AMR meters be increased to 1 000 metering points over the contract period.

The metering database is the most important single element in the AMR/ MDMS system and it should be implemented in such a way that a single point of failure of hardware or software will not cause the database to fail. The service provider shall provide details of what clustering or distributed data storage mechanism is used to ensure this.

The database shall have provision for automatically archiving raw demand data more than five years old, and this archived data shall be accessible if required.

The database should also maintain a time-series repository that stores the data collected and processed from meters, including interval usage data, event logs and outage history, as well as derived data such as aggregations and asset performance indicators like load factor and load duration curves.

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5 Disaster recovery backups and security

The importance of data security cannot be over-emphasised. The metering data acquired and stored by the service provider is the property of the Municipality and the service provider shall accept full responsibility for the safekeeping, and integrity of this data and the uninterrupted provision of these services.

It is absolutely mandatory that daily backups are maintained at a location off-site from the service provider’s premises. The backups shall contain the full database, along with all commissioning and other records pertinent to the contract.

The bidder shall provide a detailed procedure of how the disaster recovery and backups will be operated and maintained. This must be to the satisfaction of the Municipality.

6 Meter data acquisition service

6.1 Multi-vendor operation

Meters are purchased on contractual agreements entered into between the Municipality and meter suppliers from time to time and it is possible that meters may in future be purchased from suppliers that are not included in the table provided earlier.

The Municipality stipulates in meter purchasing agreements that meter suppliers shall provide all protocol and communication information to its AMR service provider. It shall nevertheless be the responsibility of the bidder to obtain software keys, protocols and any other documentation required to communicate with new meters directly from the supplier.

The Municipality shall notify the bidder when a supplier of meters is appointed. The bidder shall ensure that the meter data acquisition system is fully compatible with and is able to communicate with new meter types within three months of this notification.

6.2 Metering data to be acquired

6.2.1 Interval data

The Municipality uses complex tariffs for large power users that require the calculation of Advanced Billing Determinants (ABD). All billing is based on 30-minute demand interval data (*also known as load profile data*) and consequently, this is the most important data to be acquired from the meters.

The following demand interval data shall be read from meters for each half-hour demand period:

- Interval time stamp (*indicating the end of the demand period*)
- Active energy import
- Active energy export
- Reactive energy import with active energy import (Q1)
- Reactive energy import with active energy export (Q2)
- Reactive energy export with active energy export (Q3)
- Reactive energy export with active energy import (Q4)
- Status (Good / Suspect incomplete)

6.2.2 Billing registers

Meters are never programmed with time-of-use rates in the Municipality. All billing is derived directly from interval data as detailed in this specification.

Billing registers are required to validate interval data and meters shall be programmed to perform an automatic billing reset at midnight on the last day of every month.

- Billing reset date and time
- Active energy import total

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- Active energy export total
- Reactive energy import total
- Reactive energy export total

6.2.3 Instantaneous values

- Voltage amplitude per phase
- Voltage phase angles referenced to the red phase voltage
- Current amplitude per phase
- Current phase angles referenced to the red phase voltage
- Active power per phase and three phase total
- Reactive power per phase and three phase total
- Apparent power per phase and three phase total
- Power factor per phase and three phase total

6.3 Meter time management

The meter data acquisition head-end server shall be synchronised to South African National Time by means of a suitable connection to a primary South African NTP server.

The meter data acquisition system shall check the time on meters at each data acquisition event, but at least once per day.

If the meter internal clock has drifted by more than 60 seconds with respect to South African National time, the system shall adjust the clock.

The bidder shall describe what methods are used to overcome latency problems caused by non-determinant propagation delays in the GPRS network to enable setting a meter's time to an accuracy of $\pm 1s$.

To prevent large adjustments being made to a meter, the amount that the meter real-time clock may be moved forward or backwards in any single synchronisation operation is limited to a maximum value of 60s.

If a meter requires a greater adjustment than this period, the time will be adjusted incrementally by this maximum value each time the acquisition server communicates with the meter until the meter time is within limits.

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If the time on a meter is outside a maximum limit of 3 minutes, the data acquisition server shall not attempt to synchronise the meter time, but shall rather raise an exception, which will require manual intervention. All time adjustments shall be logged.

6.4 Periodicity of data collection

Data from remote meters shall be acquired automatically.

The meter data acquisition system shall allow reading cycles to be configured for either individual meters or groups of meters.

Data shall be read from each meter as outlined at the stipulated minimum frequency according to the nominal capacity of the customer provided.

The application shall support both inbound and outbound communication, i.e. data transfer could be initiated by either the remote meter in general or the central application in case of special requirements. At minimum, inbound communication will include event notification calls for a power outage and restoration events. The event-driven polling of meters shall enable pinpointing of faults during outages, defective or stopped meter.

In outbound communication, the number of retries made by the application for failed meter readings will be configurable. If the meter cannot be read even after the specified number of retries, the system will raise an alarm and generate meter reading exceptions to enable tagging of cases for site verification.

Item	Description	Minimum acquisition frequency
1	Interval data	<ul style="list-style-type: none"> • >= 5MVA: 30 minutes • >= 1 MVA < 5MVA: 4 hours • < 1 MVA: 24 hours
2	Billing registers	Should be read at least once per day. Spurious or manual resets that fall outside of the prescribed billing period shall be flagged and reported.
3	Events and alarms	Non-critical events: As per interval data Critical events: Real-time
4	Instantaneous values	A snapshot of instantaneous values shall be taken every time meter is read for any reason.

Table 2: Minimum Periods of meter reading.

6.5 Head-end application configuration

The meter data acquisition system shall have a configuration module to enable configuration of key operational and functional parameters. This module shall be made accessible to designated Municipality personnel by means of a web portal.

6.6 Communication faults

The meter data acquisition system shall have provision for assigning a communication priority ID to each customer linked to a specific customer size (MVA capacity) as described lower in the document.

If communication for a given customer meter has not been achieved within this (as described lower in the document) definition, a fault report shall automatically be generated and sent to the MDMS fault management system as described in this specification.

The appointed service provider shall investigate communication faults by means of a site visit. Uncleared faults shall be assigned to the responsible party, e.g. Municipality, EMMC or service provider.

The meter data acquisition system shall generate a daily report on all communication faults to be distributed to key personnel and individuals designated by the Municipality.

6.7 GPRS Modems and Battery replacement

6.7.1 GPRS Modem

The bidder shall supply GPRS modems with SIM cards for meter communication where required or on request.

Each modem shall be identified by a unique terminal identification number.

The modems shall be fitted with a hardware watchdog mechanism to ensure that they do not freeze or “hang” and will automatically reset if problems are detected with the GPRS communication network.

On existing modems, it may be required to install an external watchdog timer if the device often “hangs”. Note the modems may be used in environments that have very high temperature and humidity swings, are dusty and the electrical environment is noisy with a high prevalence of voltage surges or spikes. For this reason, a modem designed primarily as an indoor "office use" type of device is not acceptable. If the modem is connected to the meter voltage circuit, the design of the power supply is critical and should basically be able to pass similar “type tests” to that of the meter itself in that it should be able to handle long periods of over-voltage, have sufficient surge immunity and be isolated to at least 6kV.

It shall be possible to change the firmware on the modem "over the air" without actually requiring a technician to physically have access to the device. This is important as the bidder may need to manage thousands of modems with different firmware revisions, etc.

The modem must be fitted with a diagnostic display mechanism (such as multi-coloured LEDs) to assist a technician to facilitate diagnostics and installation. The following indications shall be available as a minimum:

- Power on/off
- Active connection to cellular network
- Connected to APN with a valid IP address (*not the same as above*)
- Connection to head-end server
- Transmitting/Receiving data on GPRS

6.7.2 Connection to meter

If the modem is connected to a single meter, the connection shall be by means of an RS232 or RS485 cable. If more than one meter is connected to a single modem, the physical connection shall be by means of an RS485 cable. It shall be possible to connect up to at least eight meters to a single modem in a multi-drop configuration.

6.7.3 Modem power supply

Most modern meters have an auxiliary DC supply suitable for powering an external GPRS modem. This power supply shall be used by preference to power the modems. In the event that the meter does not support an auxiliary power supply for a modem, the modem shall be powered from the AC supply to the meter input itself. The operating voltage range for the AC supply shall be 90V to 240V.

6.7.4 Antenna

The modem shall be fitted with a dipole (not a monopole) antenna with a verified gain of at least 3dB over both the 900MHz and 1800MHz bands. The bidder shall optionally provide higher gain antennas for installations where the signal strength is poor.

The bidder shall be required to measure and record the GPRS signal strength for both service providers as discussed in this specification and select the appropriate gain antenna for each installation. The antenna shall have a flexible cable to enable placement of the antenna at the location of the strongest signal inside the metering cubicle.

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6.7.5 Battery replacement

Where practically possible, and the meter has a sliding battery compartment to replace the battery (typical CR 2032 3Volt) type, for battery replacement without the use of tools, the bidder shall supply and replace the meter battery.

6.7.6 Data transfer modes

The modems shall automatically and autonomously initiate and manage its connection to the bidder’s private APN to ensure always being online.

APN credentials shall be stored on the modem in non-volatile memory.

The modems shall implement TCP/IP to serial conversion onboard.

The modems shall support both inbound and outbound communication.

Under normal operation, data transfer shall be initiated by the modem to the head-end application at pre-determined intervals (push mode of data transfer) in accordance with the requirements of this specification.

It shall be possible to configure the communication interval for each modem by means of the head-end application configuration system.

The modems shall support data transfer in the pull mode of data transfer where the head end application initiates the data transfer session to obtain on-the-fly readings.

6.8 Sim cards

Removable plastic SIM cards shall not be used. Modems shall be fitted with standard industrial M2M SIM chips, which are compliant to ETSI TS102-671 and are physically soldered onto the board.

6.9 Communication medium

6.9.1 Hosting

The bidder shall ensure that all critical servers and other related IT equipment required for the AMR/MDMS solution are hosted at a secure data centre. The bidder’s ISP shall operate an MPLS to control the routing of all data to and from the AMR/MDMS servers. The AMR LAN technology, overall architecture, and system design shall be sufficiently distributed so that no single point of failure causes system degradation so severe that the system no longer serves its intended purpose.

6.9.2 Private Cellular APN

The currently preferred method for communication between meters and the data acquisition head-end application is by means of cellular technology and in particular, GPRS.

7 Meter Data Management

7.1 User roles

It shall be possible to:

- Dynamically assign roles to various users
- Assign a role to one or more users
- Assign one or more users to a role
- Authorise access to functionality through roles
- To create a new role based on an existing role

7.2 Passwords and system security

It shall be possible to configure the MDMS to restrict passwords to a specific length and complexity.

Password changes shall be periodically enforced and may be forced by the administrator at any time (by default also after first login).

The MDMS shall use extensive security features at all levels to protect and monitor against internal or external attacks. The prospective service provider shall describe the security measures used in their solution.

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The MDMS customer web portal shall not allow direct access to the system database. Users may only be allowed to view load profile graphs, billing and tariff data for their own account, depending on how access is configured by the administrator.

Full audit trails and logs shall be maintained for virtually all actions in the MDMS. It must be possible to use a messaging system to send notifications to designated recipients for high-priority alarms.

7.3 Customer account management

All customer data such as account details, address, contact details and GIS information for the Municipality customers with meters read and managed by the proposed MIS/MDMS system shall be stored on the MDMS database.

This data shall be captured and managed by the service provider, but the MDMS shall provide a web portal access for viewing and editing data to designated Municipality personnel should this be required.

The following customer information shall be captured and stored as a minimum:

- Unique customer identification number (Municipality billing system)
- Customer account number
- Additional Utility site identification number
- Depot area
- Customer name and trading name (if different)
- Customer street and postal address (may be different to the location of the meter point itself)
- GPS coordinates of metering point
- Customer contact names, telephone numbers and email addresses (technical and financial)

7.4 Network topology management

The MDMS shall be able to capture and maintain associations between various metering nodes (both system and consumer meters) in hierarchical relationships

It shall be possible to define any arbitrary hierarchical relationship as required by the Municipality, but as a minimum the following relationships shall be maintained:

- Geographic
- Administrative or regional
- Network topology
- Voltage level
- Tariff

The MDMS shall allow the creation of virtual metering nodes that can be associated to a hierarchical structure. These virtual meters shall be updated at least every 30 minutes and it shall be possible to link these meters to all reports and graphs supported by the MDMS.

Navigation to any level of a hierarchy shall be simple and intuitive via a drill-down tree mechanism.

7.5 Totalisation and aggregation

The MDMS shall have the capability to aggregate half-hour meter interval data in near real-time of large groups of metering points within a network hierarchy as described in this specification, from a single metering point up to and including the entire Municipality customer base.

The MDMS shall additionally allow for near real-time computation of net half-hourly interval data where, for example, the aggregate load consumed by the Municipality customers at a point in the hierarchy can be subtracted from the aggregate consumption supplied by Eskom for that point.

In terms of the points above, near real-time means that the aggregate data shall be no more than one hour behind the last integration period.

Unless otherwise instructed by the Municipality, these virtual customers shall be assigned to the prevailing tariff used by Eskom to calculate the Municipality's electricity bill.

These aggregate metering points shall be treated as “virtual customers” in that all of the functionality that would be applicable in the MDMS to an actual metering point for an electricity customer shall apply. Specifically, it shall be possible to perform the following functions on these points:

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- Generate profile graphs showing detailed half-hour interval data for an arbitrary period over the previous three years for a maximum length of one year. The profile graphs shall not take longer to generate than for normal customers.
- Run a provisional bill for any arbitrary period over the previous three years.

7.6 Support for complex metering systems

It is possible that a single customer may enter into a commercial arrangement with the Municipality whereby a unified bill is presented over more than one site, and each site may be supplied by one or more feeders as shown in Figure 1. The prospective service provider shall outline how their MDMS can be configured to deal with these situations and accurately bill the customer ensuring that maximum demand, in particular, is correctly diversified.

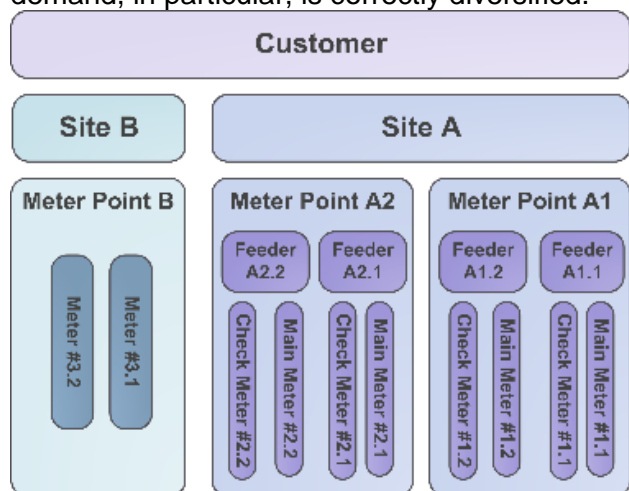


Figure 1: Complex metering relationship.

7.7 Metering asset management

Meters shall be configured in a hierarchical tree structure within the MDMS that represents the actual network topology as described in this specification.

A metering point in the MDMS shall represent a physical point in the distribution network where one or more physical meters are installed.

The MDMS shall make provision for the ability to automatically summate and correctly calculate diversified maximum demand for any number of meters associated with a metering point. For example, an installation supplied by two distribution transformers shall have a metering point defined that will automatically summate the consumption of active and reactive energy from both transformers and correctly calculate the diversified maximum demand for the summated supply vectorially.

The service provider shall maintain and update all meter records in the MDMS.

The MDMS shall provide a web portal access for viewing and editing meter data to designated Municipality personnel should this be required.

The following meter data shall be stored as a minimum:

- Unique meter identification number
- Serial number
- Make and model
- Utility (electricity, water, gas etc.)
- Year of manufacture
- Nominal voltage
- Basic current
- Maximum current
- Nominal frequency
- Accuracy class
- Type of connection (whole-current or CT connected)

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- Network connection (three-phase four-wire, three-wire etc.)
- Installation date
- Decommissioning date
- Voltage transformer ratio
- Current transformer ratio
- Multiplication constant (if applicable)
- Meter status (active, disabled, disconnected etc.)
- Functionality and ability of the meter to read the following:
- Energy modes (import/export active and reactive)
 - Integration period
 - Phasor data (voltage, current, power etc.)
 - Events and alarms

7.8 Data Validation, Editing and Estimation (VEE)

The MDMS shall support automated rule-based validation and estimation (VEE) of raw metered data. The MDMS system shall trigger the validation process automatically, once it was physically confirmed that the applicable rule can be applied (rule-based codes as required by the municipal billing system), as and when the data is received from the Meter Data Acquisition System using pre-defined validation rules. The limits and trigger points of the pre-defined validation rules shall be configurable and the MDMS shall have the ability to define new rules.

Validation rules shall be approved by the Municipality.

The MDMS shall allow configurable validation rules that may be selectively applied to an individual metering node or groups of metering nodes or to channels common to different metering nodes.

Validation failures shall be logged for audit purposes.

Raw data shall not be changed by the validation process for audit purposes.

The MDMS shall have a meter data estimation routine that may optionally be triggered on the occurrence of validation failures.

The system shall also have the facility to define, add and revise estimation methods.

It shall be possible to selectively enable or disable data estimation for any given metering point or group of metering points.

The MDMS shall support manual editing of metering data with an audit trail.

The MDMS shall support multiple data states for metered data through its transition from acquisition to analysis e.g. invalid, estimated, edited, verified, validated etc.

All data state transitions shall be logged for the audit trail.

7.9 Energy-balance auditing

The MDMS shall have provision for periodically summing the energy entering and being consumed from a busbar, feeder or another node in the electrical network. This data shall be used to perform an energy balance and to assist in determining technical and non-technical losses at designated points in the Municipalities network.

7.10 Fault management system

The MDMS shall have an integrated fault management system that is able to diagnose, store and report on communication and other metering problems.

The fault log shall have a web-based user interface as part of the MDMS application suite that will allow faults to be viewed and managed both by the service provider and by designated Municipality personnel or their appointed contractors.

7.10.1 Registering new faults

Faults shall be automatically generated by the MDMS system or manually entered.

If faults are manually entered, the credentials of the user shall be stored with the entry.

In each case the following parameters shall be captured as a minimum:

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- Date and time
- Customer name and unique identification number
- Meter serial number
- Last known kVA value, or estimation
- Fault symptom (e.g. drop in consumption, communication error, phase failure etc.)
- Urgency level as specified per priority
- Additional notes that may apply.

7.10.2 Reacting to new faults

The service provider shall react to new faults within 48 hours, during normal working days. If it is found that the fault is with the primary plant and cannot be repaired by the service provider, the designated Municipality personnel as well as the EMMC shall be notified within 24 hours.

It is the responsibility of the service provider to be the first respondent to all metering faults as discussed in this specification, and the service provider shall, at their own cost, perform an initial site investigation to determine the cause of the problem within the timeframe stipulated in this specification.

The fault management system shall be used by the service provider to generate work orders used by the service provider to schedule technical personnel to attend to faults. These work orders shall be made visible to designated Municipality staff.

If possible, the service provider shall repair the fault, check that the system is working correctly and make the necessary entries to the fault management system describing the exact nature of the problem, corrective action taken and where applicable recommendations to prevent similar issues from occurring.

If an immediate repair is not possible for any reason, the service provider shall note the root cause of the problem in the fault management system, and if applicable, hand the fault over to another party for attention. The fault management system shall automatically alert this party by SMS and/or email that an open fault requires their attention.

7.10.3 Fault reporting

The fault management system shall support a comprehensive range of reports enabling the evaluation and reporting on fault statistics to assist in the identification of problem areas. It shall be possible to generate detailed reports on various fault types with ageing analysis and frequency of occurrence. It shall be possible to group or aggregate all reports geographically, regionally, device manufacturer, etc.

7.11 Billing system integration

The MDMS system proposed by the service provider shall interface with the Municipality billing system through plain text files.

Metering and billing determinant data from the MDMS shall be provided to the Municipality or their appointed representatives in electronic format within the time frames stipulated in this specification.

The data comprises a flat ASCII file with multiple records. Each record contains 20 fixed-length fields.

A single billing entry for a consumer may consist of between one and four billing system records, depending on the consumer tariff.

Provision shall be made for virtual meters in cases where a consumer supply is metered by more than one meter.

Provision shall be made for distinguishing between time-of-use rate consumption.

All metering points shall be reported on in the billing system, regardless of if there is valid data or not.

Metering points that contain partial data after the cut-off period shall be reported in the billing system and clearly marked as containing incomplete data in the format to be provided.

Provision shall be made for various error codes. Note that a single record may contain several typical error codes at the same time, depending on the circumstances.

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E. WARRANTIES

The supplier must provide warranty details, which, on acceptance by the authorities, shall govern failure control.

F. STAFF QUALIFICATIONS:

The service provider shall ensure that all personnel assigned to the project possess the necessary qualifications, experience, and certifications to carry out their respective roles effectively. This includes **Supervisor (Supervisory Certificate), Red Seal Plumbers (Trade Certificate), Administrative staff (N6 Certificate), and general workers.**

G. TRAINING

The Supplier shall provide a sample user leaflet in English, Afrikaans, Sesotho which, on request, shall be translated into two other specified local languages. The Supplier shall provide all training as required to install and maintain the metering system. A write up is to be supplied during training period. A schedule of training shall be provided by a qualified facilitator accredited by SETA by the appointed service provider.

Training shall be supplied to the Municipal personnel on Adhoc basis for a period of 3 years on the operations and data management aspects of the meters.

The service provider should provide the list of costed Training as an annexure that they recommend for plumbers and administrators. All training must be accredited by SAQA.

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H. TRANSPORTATION:

The service provider is responsible for organizing and providing transportation services for the installation teams if required.

I. PATENT RIGHTS

The supplier confirms that his/her product or part thereof, all carry the South African patents which does not contravene existing patent rights. Should such a contravention occur the supplier indemnifies the purchaser against all resultant claims.

Name of Bidder

Signed

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