



Ga-Segonyana Local Municipality

Invitation To Bid

Bid No: 09/2024-25

Supply of Electricity and Water Vending System, AMR System and Water and Electricity Meters – Smart Meters, Conventional Meters and Bulk Meters

Bidder (Company Name)	
Bidder Representative	
Business Address (Physical)	
Tel No	
e-mail Address	

Issued by:

Ga-Segonyana Local Municipality
Private Bag X1522
Cnr Voortrekker & School Street
KURUMAN
8460
053 712 9300 (Tel)

Closing Date : 18 November 2024
Time : 12H00

Ga-Segonyana Local Municipality**Bid No: 09/2024-25****Supply of Electricity and Water and Water Vending System, AMR System and Water and Electricity
Meters – Smart Meters, Conventional Meters and Bulk Meters****Invitation/ Supplier Checklist**

No.	Document Type	Tick ✓
01	Cover page	
02	Advert	
03	MBD 1 Form	
04	MBD 3 Form	
05	MBD 4 Form	
06	MBD 6 Form	
07	MBD 7 Form	
08	MBD 8 Form	
09	MBD 9 Form	
10	General and Special Condition of a Contract	
11	Functionality Criterions' Compliance (Documents Attached)	
12	B-BBEE Status Level Certificate – Targeted Goal (Points 10)	
13	Proof of Locality - Targeted Goal (10 Points)	
13	Business Profile	
14	Tax Compliance Status (TCS – with a pin)	
15	Company Registration Document	
16	CSD Registration Report	
17	Proof of Registration with Licenses relevant to the industry	
18	Certified Copy of Identity Documents (Directors)	
19	Joint Venture Agreement (If Bidder is a Joint Venture)	



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**Supply of Electricity and Water Vending System, AMR
System And Water and Electricity Meters – Smart
Meters, Conventional Meters and Bulk Meters**

ERRATUM

Invitation To Bid – Erratum
Bid No: 09/2024-25
Bid Description: Supply of Electricity and Water Vending System, AMR System and Water and Electricity Meters – Smart Meters, Conventional Meters and Bulk Meters

Initial Bid Document availability	17/10/2024
New Bid Document availability	29/10/2024
Initial Closing Date	18/11/2024
New Closing Date	29/11/2024
Preference Points	80/20
New Preference Points	80/20 or 90/10

M. M. TSATSIMPE (MUNICIPAL MANAGER)



Ga-Segonyana Local Municipality

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ADVERT

INVITATION TO BID

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Supply of Electricity and Water and Water Vending System, AMR System and Water and Electricity Meters – Smart Meters, Conventional Meters and Bulk Meters

Bids (**in a form of Proposals**) are hereby invited from **professional** service providers with requisite capacity to provide the aforementioned services and/or goods to the municipality.

The following should form part of the proposals (submission):

1. Specifications:

Request For Proposals

1.1. Vending System

1.1.1. Primary Objective

- *The primary objective of the system and services is to ensure that holistic tools, capabilities and expertise are made available to the Municipality to reduce expenditure and improve income by typically*
- *Accurately and timeously determine losses (technical and non-technical) in the system.*
- *Provide the necessary guidance and tools to rectify Electricity and water losses and/or accurately measure and bill Electricity and Water so provided.*
- *Provide a complete prepaid metering system to ensure accurate and transparent tariff and metering application and collections.*
- *Provide at least two points of sale for vending in each area. This will be done in consultation with the Municipality.*
- *Enable accurate records keeping of all network assets so installed and on an on-going basis to the satisfaction of the Regulator and provide the Municipality with all relevant financial and service reporting both standard and custom.*
- *Provide a system and technical support for the Municipality to better liaise and report on issues to its customers and its staff internally.*
- *Provide a work order tracking and costing solution for service staff.*
- *The responsive bidder will be expected to present a live demonstration of the proposed system as currently being utilized at a comparable institution in South Africa.*
- *A detailed implementation plan will be required.*
- *A comprehensive skills transfer and training plan will be required.*
- *Supply, Install and manage Web Based Portal System link between STS, existing and all new AMR System.*

1.1.2. Metering Management

The prepaid metering management system must not be locked into any proprietary protocols or metering equipment. Interfacing to all commonly available intelligent and non-intelligent meters and metering equipment must be possible. The responsive bidder will be expected to provide proof of this with suitable live demonstrations.

The following sources for consumption for electricity and water meters must be accommodated for in the system:

- *Pre-paid Meter Sales [STS/Token System].*
- *Manual meters.*
- *Uploading and linking of supporting documentation to specific devices for efficient record keeping.*
- *A comprehensive asset register functionality must be available and be integrated into the management system for tracking and reporting on all so installed Electricity and Water network assets.*
- *Efficient methods of initial and ongoing auditing of network assets must be available and expertise must be passed onto the municipal staff during the training/handover.*
- *Integration with a current financial system and GIS System.*

1.1.3. Financial

- *A comprehensive Tariff-engine catering for all Electricity and Water rates must be integrated or available in all software modules.*
- *Billing information as determined from metered data must be exported to existing financial systems.*
- *Bill verification and tariff analyses must be possible for use in regulatory compliance and budget setting.*
- *Arrears management tool Customer details management*
- *Financial Reporting and export functionality to import data in current financial system*

1.1.4. Customer Services

The System must have the ability to manage internal and external tasks that can be used for Reporting purpose on service delivery.

A customer portal must be available for large/ bulk users, where a customer can log in and have access to the following features to reduce interaction with municipal staff:

- Ability to change password and personal details.
- Transaction history.
- Any other relevant information the Municipality want to publish.
- Log query to Municipality.

1.1.5. System must be able to create work order automatically if the customer logs it by the following means:

- SMS to a short SMS number.
- Log the query via the Customer Portal.
- Operator at the Municipality can create a work order on the customer's behalf if they phone the Call Centre. Customer must receive a sms with reference number. A detail log of all activity on the task must be recorded and notifications sent to the customer if necessary.
- Notification must be sent to the customer via email and/or sms if a work order has been resolved.
- All software modules will be browser based and be able to work on a standard computer and mobile devices (with internet access).
- A sophisticated user access authorization system must be implemented, and user system access must be defined according to the job scope.

1.2. AMR System

SYSTEM SOLUTION CAPABILITY

The bidder will be evaluated based on the proposal submitted which must clearly display compliance with the requirements in the specifications as summarized in this report.

Proof of relevant accreditations must be submitted for each criterion as requested, if such proof is not submitted, the tender will not be evaluated further. Specifications

Checklist to confirm compliance or non-compliance to the system requirements:

No.	Question	Yes	No	Comments
1	Offered solution provides for a fully functional hosted vending system and AMR system for the entire vending domain of the municipal area.			
2	Vending solution includes Retail Shops, Internet, ATM, Cellular Phone and Mobile Devices as points of sales with additional direct vendor management of vendors by the municipality			

3	<i>Vending system is fully STS6 Edition 2 for both units and currency for electricity, gas and water. (documentary proof must be included).</i>			
4	<i>Vending system is fully IEC62055-41 Ed3, IEC62055-51 compliant (documentary proof must be included)</i>			
5	<i>The vending system must be able to comply with the municipal MSCOA requirements</i>			
6	<i>Vending system provide for all types of payments i.e. cash, credit card, debit card, bank transfer (system implementation plan must be included).</i>			
7	<i>Vending system can generate Electricity Base Support Token (EBSST) (must be demonstrated during practical evaluation).</i>			
8	<i>Vending system is real time and on-line (must be demonstrated during practical evaluation).</i>			
9	<i>Vending system support is provided on a 24x7x365 basis (system implementation plan must be included).</i>			
10	<i>Vending System is operational on a 24x7x365 basis (system implementation plan must be included).</i>			
11	<i>In the event support is needed onsite, tenderers should demonstrate ability to have personnel available within reasonable time to provide the required support.</i>			
12	<i>Guarantee of the vending systems' functional performance during the tender period (documentary proof must be included).</i>			
13	<i>Active Vending System Hardware shall be hosted in the specified Tier level 4 (four) high security environment (documentary proof must be included).</i>			
14	<i>Back-up Vending System shall be hosted, and a disaster recovery plan must be submitted</i>			
15	<i>Advanced online vendor management module with supporting applications to facilitate vending in real time. (must be demonstrated during practical evaluation).</i>			

16	<i>Existing 3rd party vendors which are managed by aggregators of the current supplier, shall remain operational during the installation and commissioning of the vending system (system implementation plan must be included).</i>			
17	<i>Vending system must be able to vend to all active STS meters installed in the municipal distribution Jurisdiction (documentary proof must be included).</i>			
18	<i>The Vending System shall accommodate 13 (thirteen) digit STS meter serial numbers with advanced secure module management (must be demonstrated during practical evaluation).</i>			
19	<i>The transfer from existing system to new system shall be executed without any hindrance to the normal vending operations (system implementation plan must be included).</i>			
20	<i>The vending system should be able to support multiple meter technologies i.e. Smart Metering. Automatic Meter Reading system is required and must be considered (must be demonstrated during practical evaluation).</i>			
21	<i>The proposed Vending System should be able to interface with the existing municipal financial billing system (system implementation plan must be included, and an integrated example must be demonstrated during practical evaluation).</i>			
22	<i>The system shall be fully STS compliant and capable of vending STS prepayment credit and engineering tokens with additional generation via an application in real time. (must be demonstrated during practical evaluation).</i>			
23	<i>The Vending System shall have an Application Programme Interface (API) to allow third parties to access the system securely for integration purposes (must be demonstrated during practical evaluation).</i>			

24	<i>The Vending System must have the capability to integrate and display meter detail on a GIS platform. The solution will cater for GIS integration. (system implementation plan must be included and must be demonstrated during practical evaluation).</i>			
25	<i>The tenderer must be able to have all hardware operational for the hosted environment 2 (two) weeks before start date of the tender period) system implementation plan must be included).</i>			
26	<i>The tenderer must be able to make all hardware available for the municipal 2 (two) months after the start date of the tender period (system implementation plan must be included).</i>			
27	<i>The database must allow concurrent users to access data on a central database from various online terminals (must be demonstrated during practical evaluation)</i>			
28	<i>Generate Reports as required with further support of data analytical reports (must be demonstrated during practical evaluation).</i>			
29	<i>The Vending System shall operate on a standard readily available, PC-based machine Windows with no special modification required to any parts (must be demonstrated during practical evaluation).</i>			
30	<i>The functionality of the security module must be compliant with STS 600-4-X (documentary proof and system implementation plan must be included).</i>			
31	<i>The data model of the system must allow for multiple meters to be linked to a single consumer account (must be demonstrated during the practical evaluation).</i>			
32	<i>The software and database shall be able to accommodate, with no special changes other than hardware scaling, more than 1 million consumer records and 120 million transaction records from the</i>			

	<i>main server (must be demonstrated during practical evaluation).</i>			
33	<i>The business logic must include, often used functionality that will allow end-users to view, update and query the system on-line without placing an excessive burden on Bandwidth (system implementation plan must be included).</i>			
34	<i>A full system description and technical details of the solutions offered must be include (system implementation plan must be included).</i>			
35	<i>Guarantee the systems' functional performance and any upgrade required to correct any system mal operation will be for the Tenderer's account (system implementation plan must be included).</i>			
36	<i>The system shall support the latest version of the XML Vend specification (must be demonstrated during the practical evaluation).</i>			
1	<i>Payment of collected revenue into Municipal bank account must be completed within 72 hours (working days) of transaction date (system implementation plan must be included)</i>			
2	<i>Revenue protection proposals to ensure revenue enhancement is required (proof needs to be included).</i>			
3	<i>Payment revenue received (Prepaid & Auxiliary separately) directly in the municipalities account at predetermined times together with a reconciliation of said revenue.</i>			
4	<i>All payments and units sold must be updated daily through the portal into the Municipality ERP system, including arrears updated between the two systems. (Attached letters from clients regarding the integration). Ga-Segonyana Local Municipality reserve the right to contact and visit these Municipalities to ensure the implementation is according to our requirements</i>			

1.3. **Water and Electricity Meters**

1.3.1. Domestic / Commercial Prepaid Water Meters Specifications

This Tender Specification includes all the requirements for the supply of a Prepaid Water Metering System for residential and light commercial water reticulation systems. The System includes the Meter Box functional as a Prepaid Water Meter using an electronic Prepaid Water Controller (PWC), a remote Consumer Interface Unit (CIU) for installation inside the house and at least a Meter Maintenance Unit (MMU) to assist in Installation, Diagnosis and Fault Finding.

The Prepaid System shall conform to the Standard Transfer Specification (STS) standards for the transfer of credit through third party STS compliant Vending Systems. No other system that is not STS compliant will be considered. All other specifications and standards shall apply where applicable.

1.3.1.1. Meter Box

- 1.3.1.1.1. *To consist of a robust UV-resistant plastic 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 Consumer Stopcock.*
- 1.3.1.1.2. *The PWC display shall be positioned +- 400mm (1.2 for wall mount) above ground.*
- 1.3.1.1.3. *Above Ground meter box to be complete with push fit type inlet and outlet fittings for rapid connection and use. All joints to be fusion welded.*
- 1.3.1.1.4. *Meter Box lid must be secured with security screws, only removable with special security spanner.*
- 1.3.1.1.5. *All fittings inside the meter box be pressure tested to 15Bar pressure.*
- 1.3.1.1.6. *The System shall be constructed from materials with very limited or no scrap value.*

1.3.1.2. Water Meter

- 1.3.1.2.1. *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 for residential consumers and a 20mm for light commercial consumers such as schools, clinics, kiosks, etc.*
- 1.3.1.2.2. *The meter should be accurately measuring flow rates from 15 to 3500Litres/hour.*
- 1.3.1.2.3. *The Meter shall be fitted with a mechanical register measuring in cubic meters, to 4 decimal places (0.0005m³).*
- 1.3.1.2.4. *The meter should be approved for both horizontal and vertical mounting.*

1.3.1.3. Prepaid Water Controller (PWC)

1.3.1.3.1. *The PWC shall be fitted with an Liquid Crystal Display (LCD) showing the following minimum information:*

- *Totalizer, measured 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*
- *Valve open or closed status*
- *Possible water leak indication*
- *RF communication with CIU status*
- *Water flow activity*

1.3.1.3.2. *The following markings should be visible on the PWC:*

- *Measurement units indicator in Cubic Meters(m³)*
- *Unique 11 digit numeric meter number, which includes a check digit.*
- *The meter number shall also be available in QR barcoded format.*
- *NRCS and STS Certificate Nr's.*
- *STS Logo*

1.3.1.3.3. *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 the remote CIU, with a transmission range of 150meters line of sight.*

1.3.1.3.4. *The Radio Antenna should be of the internal type, with no loose wires protruding.*

1.3.1.3.5. *An Infra-Red (IR) port located on the face of the PWC to facilitate direct communications to a mobile in-the-field Meter Maintenance Unit (MMU).*

1.3.1.3.6. *All Radio and IR communication shall be securely encrypted.*

1.3.1.3.7. *The PWC must be fitted with an in-the-field replaceable battery pack, without the need to remove the meter from the installation. Battery life should be up to 10 years.*

1.3.1.3.8. *The PWC must be water and dust proof to IP68, with an operating temperature between -10°C to 55°C.*

3.3.1.3.9. *Automated Meter Configuration (AMC) to facilitate mass meter re-configuration*

for Walk-by or Drive-by, without the need to re-configure each meter individually.

For example, change all the installed meters from providing 6kL per month, to 8kL per month, without physically having to re-configure each meter.

- 3.3.1.3.10. *The PWC must be able to function in either Prepaid -, Debit - or Conventional Mode, interchangeable at any time without the need for firmware changes.*
- 3.3.1.3.11. *Must be able to automatically deliver Free Basic Water (FBW), at zero cost, with the following capabilities:*
- *Delivery daily at specified time or monthly on the 1st day of each month.*
 - *Delivery based on volume up to 65m³ or for a specified duration.*
 - *Delivery volumes re-configurable in the field, without the need to visit each meter.*
 - *Options of "Use it or lose it", "Daily accumulation of unused credit" or "Daily and Monthly accumulation"*
 - *Manual FBW credit tokens on a collection basis from Vending points.*
- 3.3.1.3.12. *Allow for Lifeline Credit. Lifeline credit allows consumers access to water, until they are able purchase more credit. The PWC is allowed to run into negative credit, until such time the consumer purchases more credit. Purchased credit is first used to offset the negative credit, before the Paid Credit register is brought into a positive value. Three limiting options should be available:*
- *Limited volume per day for limited number of days (Default)*
 - *Limited volume per day, for unlimited number of days.*
 - *Unlimited volume per day, for limited number of day.*
- 3.3.1.3.13. *Emergency Credit should be delivered, based on a limited annual allocation of water at zero cost. This credit 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 specific date annually.*
- 3.3.1.3.14. *The PWC shall only except Credit Tokens conforming to the IEC 62055-41 & 51 Standards, being a 20 digit encrypted numeric credit token.*
- 3.3.1.3.15. *The PWC should store a 36 monthly consumption history, individually recorded for each credit type, be it Purchased Credit, FBW, Emergency, Lifeline or Grant.*
- 3.3.1.3.16. *Record the monthly paid credit usage over the last 36 months.*
- 3.3.1.3.17. *A Token History of the last 30 credit tokens entered shall be recorded and made visible to the consumer on the CIU indicating the token entered, the token type, the volume and the date the token was entered.*
- 3.3.1.3.18. *Support a data logging system recording the hourly totalizer reading for the last 90 days.*

3.3.1.3.19. *An optional Water Conservation limit shall be available to limit the daily consumption never to exceed a predefined limit.*

3.3.1.4. Consumer Interface Unit (CIU)

- 3.3.1.4.1. *The CIU shall be a wall-mount device installed inside the consumer house, linked to the PWC via RF communication link.*
- 3.3.1.4.2. *The CIU shall be battery powered with a life span of 5 years. Replacement batteries shall be obtainable at any retail shop easily changeable by the consumer.*
- 3.3.1.4.3. *The CIU shall have a Liquid Crystal Display (LCD) displaying the following:*
- *Credit Type being delivered, i.e. Paid Credit, FBW, Emergency, Lifeline, etc.*
 - *Credit available in Cubic Meters (m³) to a minimum resolution of 0.001 m³*
 - *Additional messages such as Error Code, locked, leak, etc.*
 - *Credit and FBW low indication*
 - *Battery status off the CIU*
 - *Valve open or closed status*
 - *Possible water leak indication*
 - *RF communication with PWC status*
- 3.3.1.4.4. *The LCD information shall continuously interchange between Credit Type, Credit available and additional message every 10 seconds. Credit available reading shall never be older than 1 hour, with the option to manually refresh the credit available from the PWC.*
- 3.3.1.4.5. *The CIU shall include a 12 button keypad, with buttons 0 - 9, Backspace and #. The button layout shall be according to the generally accepted layout for STS prepaid meters.*
- 3.3.1.4.6. *In addition to entering of credit tokens, the CIU must be able to display or activate the following:*
- *Display the unique Meter Nr. of the PWC*
 - *Credit available in any of the credit registers*
 - *Consumption for the current day*
 - *Consumption for the current month*
 - *Average consumption over the previous 6 months.*
 - *PWC totalizer reading*
 - *Total consumption to date*
 - *Total Credit loaded to date*
 - *Credit used for the month*
 - *Token history of the last 10 tokens entered*
 - *Display the Supply Group Code of the PWC*
 - *Activate or de-active a Consumer Lock, to close the meter when not at home*

- *Activate or de-activate Emergency Credit*
 - *Display or Reset a User Totalizer.*
- 3.3.1.4.7. *A resettable User Totalizer shall be available for the consumer to record water consumption from a given period or event, i.e. 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.*
- 3.3.1.4.8. *All volume indications should be in Cubic meters (m³), to a resolution of 0.001 m³.*
- 3.3.1.4.9. *Pairing between the CIU and the PWC, shall be password controlled to prevent un-authorized tampering.*
- 3.3.1.4.10. *A Keypad Lock function shall be available to prevent accidental pressing of buttons.*
- 3.3.1.5. Meter Maintenance Unit (MMU)**
- 3.3.1.5.1. *The MMU shall be a rugged, portable, splash and drop proof battery powered device, Operating on a Windows C.E. platform. The MMU shall be used for AMR as well as meter interrogation for diagnostic purposes and configuration.*
- 3.3.1.5.2. *The MMU communicates with the PWC via the IR port.*
- 3.3.1.5.3. *The MMU shall be equipped with a USB port using Microsoft Active Sync to download files to a PC or Laptop. No proprietary download protocols, or download software packages accepted.*
- 3.3.1.5.4. *The MMU shall further be equipped with an 868mHz RF Radio to facilitate AMR as well as remote interrogation of the PWC.*
- 3.3.1.5.5. *All communications between the MMU and PWC shall be securely encrypted.*
- 3.3.1.5.6. *The MMU shall be password controlled, with various levels of security.*
- 3.3.1.5.7. *The MMU shall be coded such to prevent any unauthorized configuration changes in any other similar installations, other than the one intended for.*
- 3.3.1.5.8. *The MMU shall include various diagnostics functions to fully assess the functionality of the system, as well as provide meter, credit and valve information.*
- 3.3.1.5.9. *Meter Commissioning and Configuration shall be fully configurable, and easy to use. Meter Configuration shall either be done manually using the IR port, or automated without the need to visit each meter individually.*
- 3.3.1.5.10. *Historical information such as the last 30 credit tokens entered, 36 month consumption history for each credit type, monthly totalizer history, credit usage, and hourly consumption patterns shall be available.*
- 3.3.1.5.11. *The MMU shall also be used to collect AMR readings either remotely via radio or manually via IR port.*
- 3.3.1.5.12. *AMR data fields requested from the PWC shall be fully user definable, to prevent uploading of unwanted data. No record duplication shall be accepted.*

- 3.3.1.5.13. *AMR records should be available in CSV format, for easy import to Microsoft Excel, and other third party information systems.*
- 3.3.1.5.14. *A Route Tracking log shall be stored to record the route the MMU operator followed, graphically displayed on a Google Maps or similar system.*
- 3.3.1.5.15. *The MMU shall be equipped with a GPS module, in order to set the GPS co-ordinates of the PWC during meter commissioning.*

3.3.1.6. Approvals

- 3.3.1.6.1. *The PWC shall be approved by STSA (Standard Transfer Specification Association) For compliance to IEC62055-41 & IEC62055-51.*
- 3.3.1.6.2. *The complete systems shall be approved by NRCS(National Regulator for Compulsory Specifications) to SANS1529-1 and SANS1529-9.*
- 3.3.1.6.3. *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.*

3.3.2. Prepaid Bulk Water Meters Specifications SYSTEM KEY FEATURES

Automatic Meter Reading (AMR)

2.4" Screen – Large font, user friendly Graphical Interface LoRa enabled:

- *Long Range Wireless communication, 868 MHz Magnetic Anti-Tamper*
- *Battery powered, Factory replaceable*
- *Battery life: 10 years, dependent on communication schedule*

Conventional Precision Bulk water meter with mechanical display as backup

- *Meter Accuracy: Class B*
- *Dual State Valve: Open / Closed*
- *Operating Pressure: 0.5 – 10 bar (0.05 – 1MPa)*
- *Working Temperature: 0.1°C - 50°C*

BULK METER TECHNICAL DATA

Working Temperature: 0.1°C - 50°C

Water Pressure: \leq 1MPa Maximum Permissible Errors:

- In the lower zone from Q_{min} inclusive up to but excluding Q_t is $\pm 5\%$
- In the upper zone from Q_t inclusive up to and including Q_s is $\pm 2\%$ ($\pm 3\%$ for hot water meter)

Selected high quality materials for steady & reliable characteristics

BULK VALVE FEATURES AND BENEFITS

For use with Potable Water

High quality construction materials ensure reliable, long-lasting operation

Full bore valve port area and hydrodynamic body ensure unobstructed flow path; minimal pressure loss with low cavitation damage

Fully supported and balanced rolling diaphragm – low actuation pressure and excellent low flow regulation performance

Ensured operation after long standby periods Straightforward design of three major components – easy and simple on-site inline maintenance with minimal down time

Advanced design – easily connected to building command and control system

Electrical operation; low voltage and low current NO and NC solenoids

3-way control provides powered closing under low pressure conditions

BULK VALVE TECHNICAL DATA

Working Temperature: Water up to 50°C (122°F)

Pressure Rating: PN16 (16bar/230psi)

Operating Pressure: 0.5 – 16bar

End Connections Flanged: ISO 7005-2 (PN10 & 16) ;

ANSI B16.42 (#150) Main Construction Materials:

- *Main Valve Body, Cover and Actuator: Ductile Iron*

- Internals: Stainless Steel & Elastomer -
- Control Trim System: Brass control components / accessories
- Copper & Brass tubing & fittings
- Optional: Stainless Steel 316
- Elastomers: Nylon fabric Reinforced NR with rugged insert
- Coating: Electrostatic Polyester Powder Blue
- Optional: Epoxy Fusion-Bonded Blue

3.3.3. Polymer-Bodied Water Meters Specifications

Legal Requirements

15mm, 20mm and 25mm Water meters used in this application must be approved for trade use by The National Regulator for compulsory specifications (N.R.C.S) In Terms of S.A.N.S 1529-1:2006 and section 18 of the Trade Metrology Act No. 77 of 1973 and regulation 80 of Part II of The Trade Metrology Regulations.

All water meter must be tested/verified and sealed within the borders of South Africa and by an authorised official (VO) in a South African National Accreditation System (S.A.N.A.S) Accredited laboratory in terms of SANS 10378. The Verification Officers (VO) seal must include the Trade Metrology authorisation number plus the year of Verification.

Performance Specification

The Water Meter must be of the semi-positive rotary piston volumetric type with the following capabilities:-

METER SIZE	15mm*	20mm*	25mm*
Maximum Flowrate qs ± 2% (m ³ /h)	3	5	7

Nominal Flowrate $q_p \pm 2\%$ (m ³ /h)	1,5	2,5	3,5
Transitional Flowrate $q_t \pm 2\%$ (ℓ/h)	22,5	37,5	52,5
Minimum Flowrate $q_{min} \pm 5\%$ (ℓ/h)	15	25	35
Starting Flow (ℓ/h)	5,7	5,7	10
Maximum Working Pressure (Kpa)	1000	1600	1600
Body Length (mm)	114	165	198
Pulse Output (ℓ)	0.5	0.5	5

*Class 'C' Accuracy Specification.

In addition, the meters offered must comply with the following:-

- Fine Mesh Strainer of the following minimum dimensions to be internally fitted.

METER SIZE	APERTURE SIZE	MESH AREA
15mm	0,75mm	2 844mm ²
20mm	0,75mm	2 844mm ²
25mm	0,90mm	4 178mm ²

- Counter must be of the sealed, wet dial type to prevent dirt from obscuring the reading and also preventing condensation from forming under the lens
- Mechanical drive to be direct type to prevent magnetic interference.
- The counter of the meter must be orientated to allow reading from the inlet side of the meter.
- Counter window to be minimum 7mm thickness that cannot be penetrated, by means of a needle or similar sharp instrument in order to stop the counter from operating, without destroying the unit and allowing an uncontrollable discharge of water.

- *The water meter must be approved by NRCS department of Trade Metrology for Vertical and Horizontal Installation. (Previously SABS)*
- *The water meter must be suitable for rhythmic pulsating flows.*
- *Accuracy performance to be Class 'C' Specification. To reduce the volume of water escaping measurement (low flows) and promote a longer service life.*
- *Body to be manufactured from specially blended UV stabilised engineering plastic.*
- *Suitable for water temperatures up to 50°C and a maximum working pressure of 1 600 Kpa*

- *The piston must be of such a size that it rotates at 17 revolutions or less per litre measured so as to generate enough torque and assist with improved performance and reliability in the presence of suspended solids in the water.*
- *Maximum rate of flow (Qs) must be achieved at a pressure drop not in excess of 100 Kpa across the inlet/outlet of the meter.*

- *Shaped, vertical grooves must be incorporated in the piston to create a turbulence seal in operation, to improve the meter performance and reliability in the presence of suspended solids.*
- *All internal plastic components to be constructed of virgin materials.*
- *Each meter must be backed with a 3 year guarantee against faulty workmanship and/or materials.*
- *Built-in non-return valve to prevent meter reversal.*

3.3.4. Conventional Bulk Water Meter Specifications

LEGAL REQUIREMENTS

Water meters used in this application in nominal bore sizes 40mm, 50mm 80mm and 100mm must comply with S.A.N.S 1529-1 : 2006 and with the requirements of the N.R.C.S. and section 18 of the Trade Metrology Act No.77 of 1973 and regulation 80 of Part II of the Trade Metrology Regulations.

All meters sizes 40mm, 50mm, 80mm and 100mm must be tested and sealed within the borders of South Africa by an authorised official (V.O) in a South African National Accreditation System (S.A.N.A.S) Accredited Laboratory in Terms of S.A.N.S. 10378.

PERFORMANCE SPECIATION

The Water Meter must be of the Woltmann WP helical vane inferential velocity type with the following capabilities:-

METER SIZE (mm)	40	50	80	100	150	200	250	300
Max. Flowrate $q_s \pm 2\%$ (m ³ /h)	90	90	200	250	600	1000	1600	2000
Permanent Flowrate $q_p \pm 2\%$ (m ³ /h)	50	50	120	180	450	700	1000	1500
Transitional Flowrate $q_t \pm 2\%$ (m ³ /h)	1.0	10	2.0	2.0	4.0	6.0	11.0	15.0
Minimum Flowrate $q_{min} \pm 5\%$ (m ³ /h)	.35	0.35	0.5	0.6	2.0	4.0	6.0	12.0
Starting Flow (m ³ /h)	0.15	0.16	0.22	0.25	0.90	1.2	1.8	1.8
Maximum Working Pressure (Kpa)	1 600	1600	1600	1600	1600	1600	1600	1600
Body Length (mm)	311	200	200	250	300	350	450	500

SPECIFICATION - In addition, the meters offered must comply with the following:-

- Epoxy coated cast iron body.
- Counter to be encased in a Copper can with mineral glass lens sealed to IP 68 standards to prevent condensation from forming under the lens, thus providing clear reading in any environment.
- Scratch resistant mineral glass counter window able to withstand the impact of a 25mm steel ball dropped onto the centre from a height of one meter.
- Counter unit must be pre-equipped for the fitment of an optional inductive Bi-Directional pulse generator suitable for generating pulses for logging, AMR etc.
- Meter must have the following features to facilitate convenience of on-site replacement :
 - A). Fully shrouded, pre-calibrated replaceable mechanism.
 - B). Helical vane fitted in a shrouded cartridge designed to direct the entire volume of water through the measuring element ensuring body impact is negligible on the accuracy.
 - Must be suitable for Vertical, Horizontal or Inclined Installation.
 - Meters sizes 40mm to 150mm must be capable of measuring reverse flows within the same Class B accuracy envelope as per the S.A.N.S.1529-1:2006 for forward flow, i.e. $\pm 2\%$ q_t to q_s .
 - Thrust pads and stub spindles to be manufactured from Tungsten Carbide for maximum longevity.
 - The meter must have jewelled rotor bearings for maximum wear life.

- *Meter must be provided with a pressure tapping (1/4 BSP), into which a pressure gauge or pressure transducer can be fitted to measure the downstream pressure of the meter.*
- *Meter should be suitable for use with water temperatures up to 50°C and maximum working pressure of 1 600 Kpa.*
- *All internal plastic components to be constructed of virgin materials.*
- *The meter must perform within the legal accuracy specification, with a length of pipe, the same diameter as the meter, three diameters long, free from fittings and valves, fitted at the inlet to the meter body and one diameter long fitted to the outlet of the meter body.*
- *Each Meter must be backed with a two year warranty against faulty workmanship and/or materials.*

3.3.5. Electricity Meters Specifications

Single phase split/ smart meter

Voltage ratings Nominal voltage (-20% +15%) 220 - 240 V AC 110 – 127 V AC

Supply frequency (±5%) 50 Hz / 60 Hz 60 Hz

Current ratings

Base current (Ib) 5 A

Maximum current (I_{max}) 100 A

Minimum starting current

Class 1 20A mA

Class 2 25 mA

Utilisation category UC2

Minimum start up (230V) 130 V

Minimum operating (230V) 120 V AC

Nominal power consumption

1.2 W / 9 VA

Accuracy Class 1 or 2 (maintained throughout life of product)

Over voltage rating 1.8 times the nominal voltage for 48 hours

Short circuit rating Short-circuit withstand 3.0 kA

Protection Power

Power overload Thermal overload

Current overload Line / load reversal

Over / under voltage Extreme over current

Delayed reconnection

Environmental

Operating temperature -10°C to +55°C

Storage temperature -25°C to +70°C

Humidity 95% non-condensing

IP rating IP 54 (meter and user interface unit)

RF immunity 30 V/m

Status indicators

Power / load status LED

MCU / UIU communication status LED

Rate LED (1 000 pulses / kWh)

Installation

Footprint DIN rail mounted (35mm) asymmetrical

Insulation class Double insulation

Terminals

	Live	Neutral	Common
Type	Cage clamps	Cage clamps	Spring clamp
Size	25mm ²	16mm ²	0.7mm ²

Single phase

Voltage ratings

Nominal voltage (-20% +15%) 220 - 240 V AC

Supply frequency (±5%) 50 Hz

Current ratings

Base current (I_b) 5 A

Maximum current (I_{max}) 80 A PL/T

Maximum current 20 A PE Minimum starting current

Class 1 20mA

Class 2 20 mA 25 mA

Utilisation category UC2

Minimum start up (230V) 130 V

Minimum operating (230V) 120 V AC

Nominal power consumption

1.31 W / 9 VA

Accuracy Class 1 or 2

(maintained throughout life of product)

Over voltage rating 1.8 times the nominal voltage for 48 hours

Short circuit rating

Short-circuit withstand 3.0 kA

Protection

Power overload Extreme over current

Current overload Line / load reversal

Over / under voltage

Delayed reconnection

Environmental

Operating temperature -10°C to +55°C

Storage temperature -25°C to +70°C

Humidity 95% non-condensing

Status indicators

Rate LED (1,000 pulses / kWh)

Installation

Footprint Wall base

Insulation class Double insulation

Terminals

Type	Live	Neutral
------	------	---------

Size	Size 25mm ²	25mm ²
------	------------------------	-------------------

Interrogation

Type	MC171 Direct probe
------	--------------------

Security

Security seals

Tamper detection

Three Phase Prepaid Meter

Voltage ratings (per phase)

Nominal voltage (-20% +15%)	110 - 127 V AC	220 - 240 V AC
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Supply frequency (±5%)	60Hz	50Hz	
Current ratings			
Base current (Ib)	10A	10A	
Maximum current (Imax)	100 A	100A	
Minimum starting current			
Class 1	40mA	40mA	
Class 2	50mA	50mA	
Utilisation category	UC2	UC2	
Nominal power consumption	1.6 W / 9 VA	1.6 W / 9 VA	
Accuracy	Class 1 or 2 (maintained throughout life of product)		
Over voltage rating	1.8 times the nominal voltage for 48 hours		
Short circuit rating	Short-circuit withstand 3.0 kA		
Protection	Power overload	Thermal overload	
	Current overload	Galvanic isolation	
	Over/under voltage	Tamper protection	
	Phase imbalance		
Environmental			
Operating temperature	-10°C to +55°C		
Storage temperature	-25°C to +70°C		
Humidity	95% non-condensing		
IP rating	IP 54		
RF immunity	30 V/m		
Status indicators	Power / load status LED Rate LED (1,000 pulses / kWh) Communication status LED		
Installation			
Footprint	BS 7856 - Asymmetrical		
Insulation class	Double insulation		
Terminals*			
Type	Live	Neutral	Common
	Cage clamps	cage clamps	Spring
Size	25mm ²	25mm ²	0.7mm ²

Bids clearly marked “**Bid No: 09/2024-25, Supply of Electricity and Water Vending System, AMR System and Water and Electricity Meters – Smart Meters, Conventional Meters and Bulk Meters**” must be placed in the bid box of the Municipality on or before the **18 November 2024 at 12H00**. The lowest or any bidder will not necessarily be accepted and Council reserves the right to consider any other Bid not suitably endorsed or comprehensively completed, as well as the right to accept a bid in whole or in part.

Bids will be evaluated on functionality with the following scoring criteria:

Technical Requirements	65
Experience and track record	30
1 – 3 completed contracts (3 years per contract)	10 points
4 – 7 completed contract (3 years per contract)	20 points

Above 7 completed contracts (3 years per contract) **30 points**

NB: Contracts must be supported by the actual signed contracts between the client and service provider. Contract must amongst other information have the following:

- ⊕ Contact Person
- ⊕ Contact numbers
- ⊕ Contract Number
- ⊕ Contract value
- ⊕ Signed by all parties

FOR EACH CONTRACT THERE MUST BE A COMPLETION LETTER CORRESPONDING TO THAT CONTRACT.

Human Resources	35
------------------------	-----------

Project Manager **15 points**

- B-Tech/ Degree in Project Management with a minimum of 3 years' experience in vending and metering.

Vending and AMR System Developer **10 points**

- B-Tech/ equivalent or higher in Information Technology and Communication with minimum 3 years' experience.

Metering Manager – Water **05 points**

- National diploma or higher in Civil Engineering with a minimum of 3 years' experience.

Metering Manager – Electricity **05 points**

- National diploma or higher in Civil Engineering with a minimum of 3 years' experience.

FOR QUALIFICATION OF THE ABOVE POINTS CV'S WITH CERTIFIED QUALIFICATIONS AND ID'S MUST BE SUBMITTED.

The bidder must score a minimum of 70 points to be considered for further evaluation.

Thereafter bids will be evaluated on the **80/20** or **90/10** points principle. **Points for price** will be weighted at **80/90**, while the **preference points** will be weighted at **20/10**.

Pricing Requirements

- The bidder shall be required to provide price in a form of a **percentage**.
- This price shall be charged only on the monies recovered by the bidder.
- The price shall be inclusive of all costs.

The formula to be applied for the price points calculations will be as follows:

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

Where

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

The targeted goals points will be based on the following tables:

For B-BBEE points the below table shall apply:

10

B-BBEE Status Level of Contributor	Number of points (80/20 system)	Number of points (90/10 system)
1	10	05
2	09	4.5
3	07	3.5
4	06	03
5	04	02
6	03	1.5
7	02	02
8	01	0.5
Non-compliant contributor	00	00

Note: Bidder failing to provide the proof of locality, shall claim zero points for locality

1.1. B-BBEE Status Level Contributor

10 Points

- 1.1.1. Bidder must submit proof of B-BBEE status level contributor certificate.
- 1.1.2. B-BBEE status level contributor certificate must be issued by SANAS or authorised person(s) or authorised body.
- 1.1.3. B-BBEE status level contributor certificate must be **original** or **certified**.
- 1.1.4. Other than the B-BBEE Status Level of Contributor certificate, the bidder must submit the **original** B-BBEE sworn affidavit.
- 1.1.5. Bidder failing to submit proof of B-BBEE status level of contributor or original sworn B-BBEE affidavit shall claim zero points for B-BBEE points.

B-BBEE Status Level of Contributor	Number of points
1	10
2	09
3	07
4	06
5	04
6	03

7	02
8	01
Non-compliant contributor	00

Bids MUST be submitted in a bid document as provided for by the municipality. The document is downloadable from the municipal website www.ga-segonyana.gov.za. Only bids submitted in the bid document will be considered.

NOTE: MBD Forms (which forms part of the bid document) must be completed in full and be duly signed, failure to do this will result in the bidder being considered non-responsive.

Technical enquiries please contact **Mrs. T. Jarvis** on **053 712 9345** and **Bonolo Kgosieng** on **053 712 9369**, and **SCM** enquiries may be directed to **Mr. B. Sechogela** on **053 712 9345** during office hours.

M. M. TSATSIMPE
MUNICIPAL MANAGER

Cnr Voortrekker and School Street
Ga-Segonyana Local Municipality Building
KURUMAN
8460



Ga-Segonyana Local Municipality

Invitation To Bid

Bid No: 09/2024-25

**Supply of Electricity and Water Vending System, AMR
System And Water and Electricity Meters – Smart
Meters, Conventional Meters and Bulk Meters**

MBD1

Ga-Segonyana Local Municipality

MBD 1

PART A - INVITATION TO BID

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE (GA-SEGONYANA LOCAL MUNICIPALITY)					
BID NUMBER:	Bid No: 09/2024-25	CLOSING DATE:	18 November 2024	CLOSING TIME:	12H00
DESCRIPTION	Supply of Electricity and Water Vending System, AMR System and Water and Electricity Meters – Smart Meters, Conventional Meters and Bulk Meters				
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)

Ga-Segonyana Local Municipality Main Building					
Cnr Voortrekker and School Street					
Kuruman					
8460					
SUPPLIER INFORMATION					
NAME OF BIDDER					
POSTAL ADDRESS					
STREET ADDRESS					
TELEPHONE NUMBER	CODE		NUMBER		
CONTACT NAME			CELLPHONE NUMBER		
FACSIMILE NUMBER	CODE		NUMBER		
E-MAIL ADDRESS					
VAT REGISTRATION NUMBER					
TAX COMPLIANCE STATUS	TCS PIN:		OR	CSD No:	
B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE [TICK APPLICABLE BOX]	<input type="checkbox"/> Yes <input type="checkbox"/> No		B-BBEE STATUS LEVEL SWORN AFFIDAVIT	<input type="checkbox"/> Yes <input type="checkbox"/> No	
[A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE/ SWORN AFFIDAVIT (FOR EMES & QSEs) MUST BE SUBMITTED IN ORDER TO QUALIFY FOR PREFERENCE POINTS FOR B-BBEE]					

ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES ENCLOSE PROOF]	ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES, ANSWER PART B:3]
TOTAL NUMBER OF ITEMS OFFERED		TOTAL BID PRICE	SEE MBD 3.1
SIGNATURE OF BIDDER		DATE	
CAPACITY UNDER WHICH THIS BID IS SIGNED			
BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO:		TECHNICAL INFORMATION MAY BE DIRECTED TO:	
DEPARTMENT	Finance Services	DEPARTMENT	Financial Services
CONTACT PERSON	Boitumelo Sechogela	CONTACT PERSON	Tshegofatso Jarvis
TELEPHONE NUMBER	053 712 9344	TELEPHONE NUMBER	053 712 9345
E-MAIL ADDRESS	tumis@ga-segonyana.gov.za	E-MAIL ADDRESS	tshego@segonyana.gov.za bkgosieng@ga-segonyana.gov.za

PART B - TERMS AND CONDITIONS FOR BIDDING

1. BID SUBMISSION:	
1.1.	BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
1.2.	ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL 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, 2017, 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)? <input type="checkbox"/> YES <input type="checkbox"/> NO
3.2.	DOES THE ENTITY HAVE A BRANCH IN THE RSA? <input type="checkbox"/> YES <input type="checkbox"/> NO
3.3.	DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA? <input type="checkbox"/> YES <input type="checkbox"/> NO
3.4.	DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA? <input type="checkbox"/> YES <input type="checkbox"/> NO
3.5.	IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION? <input type="checkbox"/> YES <input type="checkbox"/> NO
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.	

**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.**

SIGNATURE OF BIDDER:

CAPACITY UNDER WHICH THIS BID IS SIGNED:

DATE:



Ga-Segonyana Local Municipality

Invitation To Bid

Bid No: 09/2024-25

**Supply of Electricity and Water Vending System, AMR
System And Water and Electricity Meters – Smart
Meters, Conventional Meters and Bulk Meters**

MBD 3.1

MBD 3.1

PRICING SCHEDULE – FIRM PRICES (PURCHASES)

NOTE:

ONLY FIRM PRICES WILL BE ACCEPTED. NON-FIRM PRICES (INCLUDING PRICES SUBJECT TO RATES OF EXCHANGE VARIATIONS) WILL NOT BE CONSIDERED

IN CASES WHERE DIFFERENT DELIVERY POINTS INFLUENCE THE PRICING, A SEPARATE PRICING SCHEDULE MUST BE SUBMITTED FOR EACH DELIVERY POINT

Name of Bidder.....	Bid No: 09/2024-25
Closing Time: 12H00	Closing Date: 18/11/2024

OFFER TO BE VALID FOR **90 DAYS** FROM THE CLOSING DATE OF BID

The service provider in his submission must amongst others includes the following costs to the municipality:

Electrical Meters

Water Meters

Vending Costs (percentage of monthly sales)

Larger Power User - AMR (percentage of LPU sales)



Ga-Segonyana Local Municipality

Invitation To Bid

Bid No: 09/2024-25

**Supply of Electricity and Water Vending System, AMR
System And Water and Electricity Meters – Smart
Meters, Conventional Meters and Bulk Meters**

MBD 4

**GA-SEGONYANA MUNICIPALITY
DECLARATION OF INTEREST**

MBD 4

- 1. No bid will be accepted from persons in the service of the state¹.
- 2. Any person, having a kinship with persons in the service of the state, including a blood relationship, may make an offer or offers in terms of this invitation to bid. In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons connected with or related to persons in service of the state, it is required that the bidder or their authorised representative declare their position in relation to the evaluating/adjudicating authority.

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

3.1 Full Name of bidder or his or her representative:.....

3.2 Identity Number:

3.3 Position occupied in the Company (director, trustee, hareholder²):.....

3.4 Company Registration Number:

3.5 Tax Reference Number:.....

3.6 VAT Registration Number:

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

3.8 Are you presently in the service of the state? **YES / NO**

3.8.1 If yes, furnish particulars

.....

.....

3.9 Have you been in the service of the state for the past twelve months? **YES / NO**

3.9.1 If yes, furnish particulars

.....

.....

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

YES / NO

3.10.1 If yes, furnish particulars.

.....
.....

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

YES / NO

3.11.1 If yes, furnish particulars

.....
.....

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

YES / NO

3.12.1. If yes, furnish particulars.

.....
.....

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

YES / NO

3.13.1 If yes, furnish particulars.

.....
.....

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

YES / NO

3.14.1 If yes, furnish particulars (**List all other companies of directors of this company**):

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

¹MSCM Regulations: “in the service of the state” means to be –
(a) a member of –
(i) any municipal council;

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

² Shareholder” means a person who owns shares in the company and is actively involved in the management of the company or business and exercises control over the company.

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

Full Name	Identity Number	State Employee Number

.....
Signature

.....
Date

.....
Capacity

.....
Name of Company



Ga-Segonyana Local Municipality

Invitation To Bid

Bid No: 09/2024-25

**Supply of Electricity and Water Vending System, AMR
System And Water and Electricity Meters – Smart
Meters, Conventional Meters and Bulk Meters**

MBD6

MBD 6.1

PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT POLICY OF GA-SEGONYANA LOCAL MUNICIPALITY

This preference form must form part of all bids invited. It contains general information and serves as a claim form for preference points for Broad-Based Black Economic Empowerment (B-BBEE) Status Level of Contribution

NB: BEFORE COMPLETING THIS FORM, BIDDERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF B-BBEE, AS PRESCRIBED IN THE PREFERENTIAL PROCUREMENT POLICY OF THE MUNICIPALITY.

1. GENERAL CONDITIONS

1.1. The following preference point systems are applicable to all bids:

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

1.2

a) The value of this bid is estimated to **exceed/not exceed** R50 000 000 (all applicable taxes included) and therefore the **.....** preference point system shall be applicable; or

b) Either the 80/20 or 90/10 preference point system will be applicable to this tender (*delete whichever is not applicable for this tender*).

1.3 Points for this bid shall be awarded for:

- (a) Price;
- (b) Locality; and
- (c) B-BBEE Status Level of Contributor.

1.4 The maximum points for this bid are allocated as follows:

	POINTS
PRICE	
LOCALITY	
B-BBEE STATUS LEVEL OF CONTRIBUTOR	
Total points for Price and Preference must not exceed	100

- 1.5. Failure on the part of a bidder to submit proof of **LOCALITY** together with the bid, will be interpreted to mean that preference points for **LOCALITY** are not claimed.
- 1.6. Failure on the part of a bidder to submit proof of **B-BBEE Status level of contributor** together with the bid, will be interpreted to mean that preference points for **B-BBEE status level of contributor** are not claimed.
- 1.7. The purchaser reserves the right to require of a bidder, either before a bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the purchaser.

2. DEFINITIONS

- (a) **“B-BBEE”** means broad-based black economic empowerment as defined in section 1 of the Broad-Based Black Economic Empowerment Act;
- (b) **“B-BBEE status level of contributor”** means the B-BBEE status of an entity in terms of a code of good practice on black economic empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;
- (c) **“bid”** means a written offer in a prescribed or stipulated form in response to an invitation by an organ of state for the provision of goods or services, through price quotations, advertised competitive bidding processes or proposals;
- (d) **“Broad-Based Black Economic Empowerment Act”** means the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- (e) **“EME”** means an Exempted Micro Enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;
- (f) **“functionality”** means the ability of a tenderer to provide goods or services in accordance with specifications as set out in the tender documents.
- (g) **“prices”** includes all applicable taxes less all unconditional discounts;
- (h) **“proof of B-BBEE status level of contributor”** means:
 - 1) B-BBEE Status level certificate issued by an authorized body or person;
 - 2) A sworn affidavit as prescribed by the B-BBEE Codes of Good Practice;
 - 3) Any other requirement prescribed in terms of the B-BBEE Act;
- (i) **“QSE”** means a qualifying small business enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;
- (j) **“rand value”** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;
- (k) **“proof of locality”** - means a
 - Municipal account in the name of the tenderer not older than 90 days,
 - Lease agreement where the tenderer is the lessee, or,
 - An official letter from the bank confirming the registered business address of the tenderer

3. POINTS AWARDED FOR PRICE

3.1. THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

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

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

Where

- Ps = Points scored for price of bid under consideration
- Pt = Price of bid under consideration
- Pmin = Price of lowest acceptable bid

4. POINTS AWARDED FOR LOCALITY

4.1. In terms of Regulation 12.10 of the Preferential Procurement Policy, preference points must be awarded to a bidder for attaining the Locality in accordance with the table below:

Locality	Number of Points for Locality 80/20	Number of Points for Locality 90/10
Within boundaries of John Taolo Gaetsewe District	10	05
Outside boundaries of John Taolo Gaetsewe District, but within the boundaries of Northern Cape Province	05	2.5
Outside boundaries of the Northern Cape	0.00	0.00

5. POINTS AWARDED FOR LOCALITY B-BBEE STATUS LEVEL OF CONTRIBUTOR

5.1 In terms of Regulation 12.4 of the Preferential Procurement Policy, preference points must be awarded to a bidder for attaining the B-BBEE status level of contribution in accordance with the table below:

B-BBEE Status Level of Contributor	Number of points (80/20 system)	Number of points (90/10 system)
1	10	05
2	09	4.5
3	07	3.5
4	06	03

5	04	02
6	03	1.5
7	02	01
8	01	0.5
Non-compliant contributor	00	0.0

6. BID DECLARATION

6.1. Bidders who claim points in respect of Locality and B-BBEE Status Level of Contribution must complete the following:

7. B-BBEE STATUS LEVEL OF CONTRIBUTOR CLAIMED IN TERMS OF PARAGRAPHS 1.4 AND 4.1

7.1 B-BBEE Status Level of Contributor: . =(maximum of 10 or 20 points)

(Points claimed in respect of paragraph 7.1 must be in accordance with the table reflected in paragraph 4.1 and 4.2 and must be substantiated by relevant proof of Locality and B-BBEE status level of contributor.

8. SUB-CONTRACTING

8.1 Will any portion of the contract be sub-contracted?

(Tick applicable box)

YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
-----	--------------------------	----	--------------------------

8.1.1. If yes, indicate:

- i) What percentage of the contract will be subcontracted.....%
- ii) The name of the sub-contractor.....
- iii) The B-BBEE status level of the sub-contractor.....
- iv) Whether the sub-contractor is an EME or QSE

(Tick applicable box)

YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
-----	--------------------------	----	--------------------------

v) Specify, by ticking the appropriate box, if subcontracting with an enterprise in terms of Preferential Procurement Policy of Ga-Segonyana Local Municipality:

9. DECLARATION WITH REGARD TO COMPANY/FIRM

9.1. Name of company/firm :.....

9.2. VAT registration number :.....

9.3. Company registration number:.....

9.4. TYPE OF COMPANY/ FIRM

- Partnership/Joint Venture / Consortium
- One person business/sole propriety
- Close corporation
- Company
- (Pty) Limited

[TICK APPLICABLE BOX]

9.5. DESCRIBE PRINCIPAL BUSINESS ACTIVITIES

.....

.....

.....

9.6. COMPANY CLASSIFICATION

- Manufacturer
- Supplier
- Professional service provider
- Other service providers, e.g., transporter, etc.

[TICK APPLICABLE BOX]

9.7. MUNICIPAL INFORMATION

Municipality where business is situated :

Registered Account Number:

Stand Number :.....

9.8. Total number of years the company/firm has been in business:.....

9.9 I/we, the undersigned, who is / are duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the B-BBE status level of contributor indicated in paragraphs 1.4 and 6.1 of the foregoing certificate, qualifies the company/ firm for the preference(s) shown and I / we 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 6.1, the contractor may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct;
- iv) If the B-BBEE status level of contributor has been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the purchaser may, in addition to any other remedy it may have –
 - (a) disqualify the person from the bidding process;
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person’s conduct;
 - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
 - (d) recommend that the bidder or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted by the National Treasury 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.

WITNESSES

1.

2.

.....
SIGNATURE(S) OF BIDDERS(S)

DATE:

ADDRESS

.....



Ga-Segonyana Local Municipality

Invitation To Bid

Bid No: 09/2024-25

**Supply of Electricity and Water Vending System, AMR
System And Water and Electricity Meters – Smart
Meters, Conventional Meters and Bulk Meters**

MBD7

CONTRACT FORM - PURCHASE OF GOODS/WORKS

MBD 7.1

THIS FORM MUST BE FILLED IN DUPLICATE BY BOTH THE SUCCESSFUL BIDDER (PART 1) AND THE PURCHASER (PART 2). BOTH FORMS MUST BE SIGNED IN THE ORIGINAL SO THAT THE SUCCESSFUL BIDDER AND THE PURCHASER WOULD BE IN POSSESSION OF ORIGINALLY SIGNED CONTRACTS FOR THEIR RESPECTIVE RECORDS.

PART 1 (TO BE FILLED IN BY THE BIDDER)

1. I hereby undertake to supply all or any of the goods and/or works described in the attached bidding documents to (name of institution)..... in accordance with the requirements and specifications stipulated in bid number..... at the price/s quoted. My offer/s remain binding upon me and open for acceptance by the purchaser during the validity period indicated and calculated from the closing time of bid.

2. The following documents shall be deemed to form and be read and construed as part of this agreement:
 - (i) Bidding documents, viz
 - Invitation to bid
 - Tax clearance certificate
 - Pricing schedule(s)
 - Technical Specification(s)
 - Preference claims in terms of the Preferential Procurement Regulations 2001
 - Declaration of interest
 - Special Conditions of Contract;
 - (ii) General Conditions of Contract; and
 - (iii) Other (specify)

3. I confirm that I have satisfied myself as to the correctness and validity of my bid; that the price(s) and rate(s) quoted cover all the goods and/or works specified in the bidding documents; that the price(s) and rate(s) cover all my obligations and I accept that any mistakes regarding price(s) and rate(s) and calculations will be at my own risk.

4. I accept full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on me under this agreement as the principal liable for the due fulfillment of this contract.

5. I declare that I have no participation in any collusive practices with any bidder or any other person regarding this or any other bid.

6. I confirm that I am duly authorised to sign this contract.

NAME (PRINT)

CAPACITY

SIGNATURE

NAME OF FIRM

DATE

WITNESSES	
1
2.
DATE

CONTRACT FORM - PURCHASE OF GOODS/WORKS

PART 2 (TO BE FILLED IN BY THE PURCHASER)

1. I..... in my capacity as.....
accept your bid under reference numberdated.....for the supply of
goods/works indicated hereunder and/or further specified in the annexure(s).

2. An official order indicating delivery instructions is forthcoming.

3. I undertake to make payment for the goods/works delivered in accordance with the terms and conditions of the contract, within 30 (thirty) days after receipt of an invoice accompanied by the delivery note.

ITEM NO.	PRICE (VAT INCL)	BRAND	DELIVERY PERIOD	POINTS CLAIMED FOR TARGETED GOALS	POINTS CLAIMED FOR PRICE

4. I confirm that I am duly authorized to sign this contract.

SIGNED ATON.....

NAME (PRINT)

SIGNATURE

OFFICIAL STAMP

WITNESSES

1.

2.

DATE



Ga-Segonyana Local Municipality

Invitation To Bid

Bid No: 09/2024-25

**Supply of Electricity and Water Vending System, AMR
System And Water and Electricity Meters – Smart
Meters, Conventional Meters and Bulk Meters**

MBD8

DECLARATION OF BIDDER’S PAST SUPPLY CHAIN MANAGEMENT PRACTICES

MBD8

- 1 This Municipal Bidding Document must form part of all bids invited.

- 2 It serves as a declaration to be used by municipalities and municipal entities in ensuring that when goods and services are being procured, all reasonable steps are taken to combat the abuse of the supply chain management system.

- 3 The bid of any bidder may be rejected if that bidder, or any of its directors have:
 - a. abused the municipality’s / municipal entity’s supply chain management system or committed any improper conduct in relation to such system;
 - b. been convicted for fraud or corruption during the past five years;
 - c. willfully neglected, reneged on or failed to comply with any government, municipal or other public sector contract during the past five years; or
 - d. been listed in the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004).

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

Item	Question	Yes	No
4.1	Is the bidder or any of its directors listed on the National Treasury’s database as a company or person prohibited from doing business with the public sector? (Companies or persons who are listed on this database were informed in writing of this restriction by the National Treasury after the <i>audi alteram partem</i> rule was applied).	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.1.1	If so, furnish particulars:		
4.2	Is the bidder or any of its directors listed on the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004)? Register enter the National Treasury’s website, www.treasury.gov.za , click on the icon “Register for Tender Defaulters” or submit your written request for a hard copy of the Register to facsimile number (012) 3265445.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
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 <input type="checkbox"/>	No <input type="checkbox"/>
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 <input type="checkbox"/>	No <input type="checkbox"/>
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 <input type="checkbox"/>	No <input type="checkbox"/>
4.7.1	If so, furnish particulars:		

CERTIFICATION

I, THE UNDERSIGNED (FULL NAME):

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

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

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder



Ga-Segonyana Local Municipality

Invitation To Bid

Bid No: 09/2024-25

**Supply of Electricity and Water Vending System, AMR
System And Water and Electricity Meters – Smart
Meters, Conventional Meters and Bulk Meters**

MBD9

CERTIFICATE OF INDEPENDENT BID DETERMINATION**MBD 9**

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:
 - a. take all reasonable steps to prevent such abuse;

 - b. reject the bid of any bidder if that bidder or any of its directors has abused the supply chain management system of the municipality or municipal entity or has committed any improper conduct in relation to such system; and

 - c. cancel a contract awarded to a person if the person committed any corrupt or fraudulent act during the bidding process or the execution of the contract.

4. This MBD serves as a certificate of declaration that would be used by institutions to ensure that, when bids are considered, reasonable steps are taken to prevent any form of bid-rigging.

5. In order to give effect to the above, the attached Certificate of Bid Determination (MBD 9) must be completed and submitted with the bid:

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.

CERTIFICATE OF INDEPENDENT BID DETERMINATION

MBD 9

I, the undersigned, in submitting the accompanying bid:

(Bid Number and Description)

in response to the invitation for the bid made by:

(Name of Municipality / Municipal Entity)

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

I certify, on behalf of: _____ 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 3 MBD 9
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.

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.

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

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder



Ga-Segonyana Local Municipality

Invitation To Bid

Bid No: 09/2024-25

**Supply of Electricity and Water Vending System, AMR
System And Water and Electricity Meters – Smart
Meters, Conventional Meters and Bulk Meters**

SPECIAL CONDITIONS OF A CONTRACT

SPECIAL CONDITIONS OF BID

1. The Municipality's document must be kept as supplied and submitted with all schedules / forms fully completed.
2. Any other documents, certificates etc. must be attached as an annexure to the official Municipal document.
3. Where the Municipality's official document is taken apart and not submitted as supplied, the bid might be rejected.
4. Schedules / forms not duly completed and signed by the bidder will result in a bid not being considered.
5. All Forms of Special Conditions in Specifications should be included.
6. The bid document must be completed in black ink, and prices must be VAT inclusive, unless otherwise specified.
7. The lowest or any Bid will not be necessarily be accepted, and the **Ga-Segonyana Local Municipality** reserves the right to accept the whole or any portion of a Bid.
8. All prices and details must be legible to ensure the bid will be considered for adjudication.
9. Corrections may not be made by means of correction fluid such as Tip – Ex, or any other similar product. In the event of a mistake being made, it should be crossed out in ink and be accompanied by a full signature at each and every alteration. The Municipality reserves the right to reject the bid if corrections are not made in accordance with the above.
10. All bid documents must include the following documents:
 - Copies of Company registration certificate,
 - Company profile -Certified ID copy(s) of Director(s)/Shareholder(s) not older than three months,
 - Tax compliance status pin of the company,
 - Proof of VAT registration **if applicable**,
 - CSD registration report and/or CSD Registration Number (**MAAA**),
 - A letter confirming bank details of the company not older than 3 months,
 - Proof of Municipal rates/letter from Tribal Authority / Copy of a valid lease agreement for the company,
 - In case of a joint venture a joint venture agreement should be attached (sworn affidavit is not acceptable),
 - Authority of signatories.
 - Safety requirements documentation relevant to the industry (if applicable)
11. The bidder may submit a comprehensive company profile, for example the founding company statements, as well as a **detailed exposition of previous and current work done**.
12. Bidders will be required to be registered on the Ga-Segonyana Local Municipality's Supplier Database.
13. No bid forwarded by e – mail, telegram, telex, facsimile or similar apparatus will be considered.

14. **No late bids** will be considered.

15. Bids must be properly received and deposited in the bid box of the Ga-Segonyana Local Municipality on or before **18 November 2024 @ 12H00**. Bid offers must be submitted in a sealed envelope properly marked in terms of the bid number and bid description, at the offices of the Municipality situated at:

Foyer

Ga-Segonyana Local Municipality
Cnr Voortrekker and School Street
Kuruman
8460

16. Copyright / Patent Rights – Copyright in any document produced, and the patent rights or ownership in any plant, machinery, thing, system or process designed or devised, by a consultant in the course of the consultancy service is vested in the Ga-Segonyana Local Municipality.

17. Specifications

Request For Proposals

1.4. Vending System

1.4.1. Primary Objective

- *The primary objective of the system and services is to ensure that holistic tools, capabilities and expertise are made available to the Municipality to reduce expenditure and improve income by typically*
- *Accurately and timeously determine losses (technical and non-technical) in the system.*
- *Provide the necessary guidance and tools to rectify Electricity and water losses and/or accurately measure and bill Electricity and Water so provided.*
- *Provide a complete prepaid metering system to ensure accurate and transparent tariff and metering application and collections.*
- *Provide at least two points of sale for vending in each area. This will be done in consultation with the Municipality.*
- *Enable accurate records keeping of all network assets so installed and on an on-going basis to the satisfaction of the Regulator and provide the Municipality with all relevant financial and service reporting both standard and custom.*
- *Provide a system and technical support for the Municipality to better liaise and report on issues to its customers and its staff internally.*
- *Provide a work order tracking and costing solution for service staff.*
- *The responsive bidder will be expected to present a live demonstration of the proposed system as currently being utilized at a comparable institution in South Africa.*
- *A detailed implementation plan will be required.*
- *A comprehensive skills transfer and training plan will be required.*

- *Supply, Install and manage Web Based Portal System link between STS, existing and all new AMR System.*

1.4.2. Metering Management

The prepaid metering management system must not be locked into any proprietary protocols or metering equipment. Interfacing to all commonly available intelligent and non-intelligent meters and metering equipment must be possible. The responsive bidder will be expected to provide proof of this with suitable live demonstrations.

The following sources for consumption for electricity and water meters must be accommodated for in the system:

- *Pre-paid Meter Sales [STS/Token System].*
- *Manual meters.*
- *Uploading and linking of supporting documentation to specific devices for efficient record keeping.*
- *A comprehensive asset register functionality must be available and be integrated into the management system for tracking and reporting on all so installed Electricity and Water network assets.*
- *Efficient methods of initial and ongoing auditing of network assets must be available and expertise must be passed onto the municipal staff during the training/handover.*
- *Integration with a current financial system and GIS System.*

1.4.3. Financial

- *A comprehensive Tariff-engine catering for all Electricity and Water rates must be integrated or available in all software modules.*
- *Billing information as determined from metered data must be exported to existing financial systems.*
- *Bill verification and tariff analyses must be possible for use in regulatory compliance and budget setting.*
- *Arrears management tool Customer details management*
- *Financial Reporting and export functionality to import data in current financial system*

1.4.4. Customer Services

The System must have the ability to manage internal and external tasks that can be used for Reporting purpose on service delivery.

A customer portal must be available for large/ bulk users, where a customer can log in and have access to the following features to reduce interaction with municipal staff:

- Ability to change password and personal details.
- Transaction history.
- Any other relevant information the Municipality want to publish.
- Log query to Municipality.

1.4.5. System must be able to create work order automatically if the customer logs it by the following means:

- SMS to a short SMS number.
- Log the query via the Customer Portal.
- Operator at the Municipality can create a work order on the customer's behalf if they phone the Call Centre. Customer must receive a sms with reference number. A detail log of all activity on the task must be recorded and notifications sent to the customer if necessary.
- Notification must be sent to the customer via email and/or sms if a work order has been resolved.
- All software modules will be browser based and be able to work on a standard computer and mobile devices (with internet access).
- A sophisticated user access authorization system must be implemented, and user system access must be defined according to the job scope.

1.5. AMR System

SYSTEM SOLUTION CAPABILITY

The bidder will be evaluated based on the proposal submitted which must clearly display compliance with the requirements in the specifications as summarized in this report.

Proof of relevant accreditations must be submitted for each criterion as requested, if such proof is not submitted, the tender will not be evaluated further. Specifications

Checklist to confirm compliance or non-compliance to the system requirements:

No.	Question	Yes	No	Comments
37	Offered solution provides for a fully functional hosted vending system and AMR system for the entire vending domain of the municipal area.			
38	Vending solution includes Retail Shops, Internet, ATM, Cellular Phone and Mobile Devices as points of sales with additional direct vendor management of vendors by the municipality			

39	Vending system is fully STS6 Edition 2 for both units and currency for electricity, gas and water. (documentary proof must be included).			
40	Vending system is fully IEC62055-41 Ed3, IEC62055-51 compliant (documentary proof must be included)			
41	The vending system must be able to comply with the municipal MSCOA requirements			
42	Vending system provide for all types of payments i.e. cash, credit card, debit card, bank transfer (system implementation plan must be included).			
43	Vending system can generate Electricity Base Support Token (EBSST) (must be demonstrated during practical evaluation).			
44	Vending system is real time and on-line (must be demonstrated during practical evaluation).			
45	Vending system support is provided on a 24x7x365 basis (system implementation plan must be included).			
46	Vending System is operational on a 24x7x365 basis (system implementation plan must be included).			
47	In the event support is needed onsite, tenderers should demonstrate ability to have personnel available within reasonable time to provide the required support.			
48	Guarantee of the vending systems' functional performance during the tender period (documentary proof must be included).			
49	Active Vending System Hardware shall be hosted in the specified Tier level 4 (four) high security environment (documentary proof must be included).			
50	Back-up Vending System shall be hosted, and a disaster recovery plan must be submitted			
51	Advanced online vendor management module with supporting applications to facilitate vending in real time. (must be demonstrated during practical evaluation).			
52	Existing 3rd party vendors which are managed by aggregators of the current supplier, shall remain operational during the installation and commissioning			

	of the vending system (system implementation plan must be included).			
53	Vending system must be able to vend to all active STS meters installed in the municipal distribution Jurisdiction (documentary proof must be included).			
54	The Vending System shall accommodate 13 (thirteen) digit STS meter serial numbers with advanced secure module management (must be demonstrated during practical evaluation).			
55	The transfer from existing system to new system shall be executed without any hindrance to the normal vending operations (system implementation plan must be included).			
56	The vending system should be able to support multiple meter technologies i.e. Smart Metering. Automatic Meter Reading system is required and must be considered (must be demonstrated during practical evaluation).			
57	The proposed Vending System should be able to interface with the existing municipal financial billing system (system implementation plan must be included, and an integrated example must be demonstrated during practical evaluation).			
58	The system shall be fully STS compliant and capable of vending STS prepayment credit and engineering tokens with additional generation via an application in real time. (must be demonstrated during practical evaluation).			
59	The Vending System shall have an Application Programme Interface (API) to allow third parties to access the system securely for integration purposes (must be demonstrated during practical evaluation).			
60	The Vending System must have the capability to integrate and display meter detail on a GIS platform. The solution will cater for GIS integration. (system implementation plan must be included and must be demonstrated during practical evaluation).			
61	The tenderer must be able to have all hardware operational for the hosted environment 2 (two) weeks			

	before start date of the tender period) system implementation plan must be included).			
62	The tenderer must be able to make all hardware available for the municipal 2 (two) months after the start date of the tender period (system implementation plan must be included).			
63	The database must allow concurrent users to access data on a central database from various online terminals (must be demonstrated during practical evaluation)			
64	Generate Reports as required with further support of data analytical reports (must be demonstrated during practical evaluation).			
65	The Vending System shall operate on a standard readily available, PC-based machine Windows with no special modification required to any parts (must be demonstrated during practical evaluation).			
66	The functionality of the security module must be compliant with STS 600-4-X (documentary proof and system implementation plan must be included).			
67	The data model of the system must allow for multiple meters to be linked to a single consumer account (must be demonstrated during the practical evaluation).			
68	The software and database shall be able to accommodate, with no special changes other than hardware scaling, more than 1 million consumer records and 120 million transaction records from the main server (must be demonstrated during practical evaluation).			
69	The business logic must include, often used functionality that will allow end-users to view, update and query the system on-line without placing an excessive burden on Bandwidth (system implementation plan must be included).			
70	A full system description and technical details of the solutions offered must be include (system implementation plan must be included).			

71	Guarantee the systems' functional performance and any upgrade required to correct any system mal operation will be for the Tenderer's account (system implementation plan must be included).			
72	The system shall support the latest version of the XML Vend specification (must be demonstrated during the practical evaluation).			
5	Payment of collected revenue into Municipal bank account must be completed within 72 hours (working days) of transaction date (system implementation plan must be included)			
6	Revenue protection proposals to ensure revenue enhancement is required (proof needs to be included).			
7	Payment revenue received (Prepaid & Auxiliary separately) directly in the municipalities account at predetermined times together with a reconciliation of said revenue.			
8	All payments and units sold must be updated daily through the portal into the Municipality ERP system, including arrears updated between the two systems. (Attached letters from clients regarding the integration). Ga-Segonyana Local Municipality reserve the right to contact and visit these Municipalities to ensure the implementation is according to our requirements			

1.6. **Water and Electricity Meters**

1.6.1. Domestic / Commercial Prepaid Water Meters Specifications

This Tender Specification includes all the requirements for the supply of a Prepaid Water Metering System for residential and light commercial water reticulation systems. The System includes the Meter Box functional as a Prepaid Water Meter using an electronic Prepaid Water Controller (PWC), a remote Consumer Interface Unit (CIU) for installation inside the house and at least a Meter Maintenance Unit (MMU) to assist in Installation, Diagnosis and Fault Finding.

The Prepaid System shall confirm to the Standard Transfer Specification (STS) standards for the transfer of credit through third party STS compliant Vending Systems. No other system that is not STS compliant will be considered. All other specifications and standards shall apply where applicable.

1.6.1.1. Meter Box

- 1.6.1.1.1. *To consist of a robust UV-resistant plastic 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.*
- 1.6.1.1.2. *The PWC display shall be positioned +/- 400mm (1.2 for wall mount) above ground.*
- 1.6.1.1.3. *Above Ground meter box to be complete with push fit type inlet and outlet fittings for rapid connection and use. All joints to be fusion welded.*
- 1.6.1.1.4. *Meter Box lid must be secured with security screws, only removable with special security spanner.*
- 1.6.1.1.5. *All fittings inside the meter box be pressure tested to 15Bar pressure.*
- 1.6.1.1.6. *The System shall be constructed from materials with very limited or no scrap value.*

1.6.1.2. Water Meter

- 1.6.1.2.1. *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 for residential consumers and a 20mm for light commercial consumers such as schools, clinics, kiosks, etc.*
- 1.6.1.2.2. *The meter should be accurately measuring flow rates from 15 to 3500Litres/hour.*
- 1.6.1.2.3. *The Meter shall be fitted with a mechanical register measuring in cubic meters, to 4 decimal places (0.0005m³).*
- 1.6.1.2.4. *The meter should be approved for both horizontal and vertical mounting.*

1.6.1.3. Prepaid Water Controller (PWC)

- 1.6.1.3.1. *The PWC shall be fitted with an Liquid Crystal Display (LCD) showing the following minimum information:*
 - *Totalizer, measured 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*
 - *Valve open or closed status*

- Possible water leak indication
- RF communication with CIU status
- Water flow activity

1.6.1.3.2. The following markings should be visible on the PWC:

- Measurement units indicator in Cubic Meters(m^3)
- Unique 11 digit numeric meter number, which includes a check digit.
- The meter number shall also be available in QR barcoded format.
- NRCS and STS Certificate Nr's.
- STS Logo

1.6.1.3.3. 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 the remote CIU, with a transmission range of 150meters line of sight.

1.6.1.3.4. The Radio Antenna should be of the internal type, with no loose wires protruding.

1.6.1.3.5. An Infra-Red (IR) port located on the face of the PWC to facilitate direct communications to a mobile in-the-field Meter Maintenance Unit (MMU).

1.6.1.3.6. All Radio and IR communication shall be securely encrypted.

1.6.1.3.7. The PWC must be fitted with an in-the-field replaceable battery pack, without the need to remove the meter from the installation. Battery life should be up to 10 years.

1.6.1.3.8. The PWC must be water and dust proof to IP68, with an operating temperature between -10°C to 55°C .

3.3.1.3.9. Automated Meter Configuration (AMC) to facilitate mass meter re-configuration

for Walk-by or Drive-by, without the need to re-configure each meter individually.

For example, change all the installed meters from providing 6kL per month, to 8kL per month, without physically having to re-configure each meter.

3.3.1.3.10. The PWC must be able to function in either Prepaid -, Debit - or Conventional

Mode, interchangeable at any time without the need for firmware changes.

3.3.1.3.11. Must be able to automatically deliver Free Basic Water (FBW), at zero cost, with

the following capabilities:

- *Delivery daily at specified time or monthly on the 1st day of each month.*
- *Delivery based on volume up to 65m³ or for a specified duration.*
- *Delivery volumes re-configurable in the field, without the need to visit each meter.*
- *Options of "Use it or lose it", "Daily accumulation of unused credit" or "Daily and Monthly accumulation"*
- *Manual FBW credit tokens on a collection basis from Vending points.*

3.3.1.4.12. *Allow for Lifeline Credit. Lifeline credit allows consumers access to water, until they are able purchase more credit. The PWC is allowed to run into negative credit, until such time the consumer purchases more credit. Purchased credit is first used to offset the negative credit, before the Paid Credit register is brought into a positive value. Three limiting options should be available:*

- *Limited volume per day for limited number of days (Default)*
- *Limited volume per day, for unlimited number of days.*
- *Unlimited volume per day, for limited number of day.*

3.3.1.4.13. *Emergency Credit should be delivered, based on a limited annual allocation of water at zero cost. This credit 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 specific date annually.*

3.3.1.4.14. *The PWC shall only except Credit Tokens conforming to the IEC 62055-41 & 51 Standards, being a 20 digit encrypted numeric credit token.*

3.3.1.4.15. *The PWC should store a 36 monthly consumption history, individually recorded for each credit type, be it Purchased Credit, FBW, Emergency, Lifeline or Grant.*

3.3.1.4.16. *Record the monthly paid credit usage over the last 36 months.*

3.3.1.4.17. *A Token History of the last 30 credit tokens entered shall be recorded and made visible to the consumer on the CIU indicating the token entered, the token type, the volume and the date the token was entered.*

3.3.1.4.18. *Support a data logging system recording the hourly totalizer reading for the last 90 days.*

3.3.1.4.19. *An optional Water Conservation limit shall be available to limit the daily consumption never to exceed a predefined limit.*

3.3.1.5. Consumer Interface Unit (CIU)

- 3.3.5.4.1. *The CIU shall be a wall-mount device installed inside the consumer house, linked to the PWC via RF communication link.*
- 3.3.5.4.2. *The CIU shall be battery powered with a life span of 5 years. Replacement batteries shall be obtainable at any retail shop easily changeable by the consumer.*
- 3.3.5.4.3. *The CIU shall have a Liquid Crystal Display (LCD) displaying the following:*
- *Credit Type being delivered, i.e. Paid Credit, FBW, Emergency, Lifeline, etc.*
 - *Credit available in Cubic Meters (m³) to a minimum resolution of 0.001 m³*
 - *Additional messages such as Error Code, locked, leak, etc.*
 - *Credit and FBW low indication*
 - *Battery status off the CIU*
 - *Valve open or closed status*
 - *Possible water leak indication*
 - *RF communication with PWC status*
- 3.3.5.4.4. *The LCD information shall continuously interchange between Credit Type, Credit available and additional message every 10 seconds. Credit available reading shall never be older than 1 hour, with the option to manually refresh the credit available from the PWC.*
- 3.3.5.4.5. *The CIU shall include a 12 button keypad, with buttons 0 - 9, Backspace and #. The button layout shall be according to the generally accepted layout for STS prepaid meters.*
- 3.3.5.4.6. *In addition to entering of credit tokens, the CIU must be able to display or activate the following:*
- *Display the unique Meter Nr. of the PWC*
 - *Credit available in any of the credit registers*
 - *Consumption for the current day*
 - *Consumption for the current month*
 - *Average consumption over the previous 6 months.*
 - *PWC totalizer reading*
 - *Total consumption to date*
 - *Total Credit loaded to date*
 - *Credit used for the month*
 - *Token history of the last 10 tokens entered*
 - *Display the Supply Group Code of the PWC*
 - *Activate or de-active a Consumer Lock, to close the meter when not at home*
 - *Activate or de-activate Emergency Credit*
 - *Display or Reset a User Totalizer.*

- 3.3.5.4.7. *A resettable User Totalizer shall be available for the consumer to record water consumption from a given period or event, i.e. 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.*
- 3.3.5.4.8. *All volume indications should be in Cubic meters (m³), to a resolution of 0.001 m³.*
- 3.3.5.4.9. *Pairing between the CIU and the PWC, shall be password controlled to prevent un-authorized tampering.*
- 3.3.5.4.10. *A Keypad Lock function shall be available to prevent accidental pressing of buttons.*

3.3.5.5. Meter Maintenance Unit (MMU)

- 3.3.5.5.1. *The MMU shall be a rugged, portable, splash and drop proof battery powered device, Operating on a Windows C.E. platform. The MMU shall be used for AMR as well as meter interrogation for diagnostic purposes and configuration.*
- 3.3.5.5.2. *The MMU communicates with the PWC via the IR port.*
- 3.3.5.5.3. *The MMU shall be equipped with a USB port using Microsoft Active Sync to download files to a PC or Laptop. No proprietary download protocols, or download software packages accepted.*
- 3.3.5.5.4. *The MMU shall further be equipped with an 868MHz RF Radio to facilitate AMR as well as remote interrogation of the PWC.*
- 3.3.5.5.5. *All communications between the MMU and PWC shall be securely encrypted.*
- 3.3.5.5.6. *The MMU shall be password controlled, with various levels of security.*
- 3.3.5.5.7. *The MMU shall be coded such to prevent any unauthorized configuration changes in any other similar installations, other than the one intended for.*
- 3.3.5.5.8. *The MMU shall include various diagnostics functions to fully assess the functionality of the system, as well as provide meter, credit and valve information.*
- 3.3.5.5.9. *Meter Commissioning and Configuration shall be fully configurable, and easy to use. Meter Configuration shall either be done manually using the IR port, or automated without the need to visit each meter individually.*
- 3.3.5.5.10. *Historical information such as the last 30 credit tokens entered, 36 month consumption history for each credit type, monthly totalizer history, credit usage, and hourly consumption patterns shall be available.*
- 3.3.5.5.11. *The MMU shall also be used to collect AMR readings either remotely via radio or manually via IR port.*
- 3.3.5.5.12. *AMR data fields requested from the PWC shall be fully user definable, to prevent uploading of unwanted data. No record duplication shall be accepted.*
- 3.3.5.5.13. *AMR records should be available in CSV format, for easy import to Microsoft Excel, and other third party information systems.*

3.3.5.5.14. *A Route Tracking log shall be stored to record the route the MMU operator followed, graphically displayed on a Google Maps or similar system.*

3.3.5.5.15. *The MMU shall be equipped with a GPS module, in order to set the GPS co-ordinates of the PWC during meter commissioning.*

3.3.5.6. Approvals

3.3.5.6.1. *The PWC shall be approved by STSA (Standard Transfer Specification Association) For compliance to IEC62055-41 & IEC62055-51.*

3.3.5.6.2. *The complete systems shall be approved by NRCS(National Regulator for Compulsory Specifications) to SANS1529-1 and SANS1529-9.*

3.3.5.6.3. *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.*

3.3.6. Prepaid Bulk Water Meters Specifications SYSTEM KEY FEATURES

Automatic Meter Reading (AMR)

2.4" Screen – Large font, user friendly Graphical Interface LoRa enabled:

- *Long Range Wireless communication, 868 MHz Magnetic Anti-Tamper*
- *Battery powered, Factory replaceable*
- *Battery life: 10 years, dependent on communication schedule*

Conventional Precision Bulk water meter with mechanical display as backup

- *Meter Accuracy: Class B*
- *Dual State Valve: Open / Closed*
- *Operating Pressure: 0.5 – 10 bar (0.05 – 1MPa)*
- *Working Temperature: 0.1°C - 50°C*

BULK METER TECHNICAL DATA

Working Temperature: 0.1°C - 50°C

Water Pressure: \leq 1MPa Maximum Permissible Errors:

- *In the lower zone from Qmin inclusive up to but excluding Qt is $\pm 5\%$*
- *In the upper zone from Qt inclusive up to and including Qs is $\pm 2\%$ ($\pm 3\%$ for hot water meter)*

Selected high quality materials for steady & reliable characteristics

BULK VALVE FEATURES AND BENEFITS

For use with Potable Water

High quality construction materials ensure reliable, long-lasting operation

Full bore valve port area and hydrodynamic body ensure unobstructed flow path; minimal pressure loss with low cavitation damage

Fully supported and balanced rolling diaphragm – low actuation pressure and excellent low flow regulation performance

Ensured operation after long standby periods Straightforward design of three major components – easy and simple on-site inline maintenance with minimal down time

Advanced design – easily connected to building command and control system

Electrical operation; low voltage and low current NO and NC solenoids

3-way control provides powered closing under low pressure conditions

BULK VALVE TECHNICAL DATA

Working Temperature: Water up to 50°C (122°F)

Pressure Rating: PN16 (16bar/230psi)

Operating Pressure: 0.5 – 16bar

End Connections Flanged: ISO 7005-2 (PN10 & 16) ;

ANSI B16.42 (#150) Main Construction Materials:

- Main Valve Body, Cover and Actuator: Ductile Iron*
- Internals: Stainless Steel & Elastomer -*
- Control Trim System: Brass control components / accessories*
- Copper & Brass tubing & fittings*

- *Optional: Stainless Steel 316*
- *Elastomers: Nylon fabric Reinforced NR with rugged insert*
- *Coating: Electrostatic Polyester Powder Blue*
- *Optional: Epoxy Fusion-Bonded Blue*

3.3.7. Polymer-Bodied Water Meters Specifications

Legal Requirements

15mm, 20mm and 25mm Water meters used in this application must be approved for trade use by The National Regulator for compulsory specifications (N.R.C.S) In Terms of S.A.N.S 1529-1:2006 and section 18 of the Trade Metrology Act No. 77 of 1973 and regulation 80 of Part II of The Trade Metrology Regulations.

All water meter must be tested/verified and sealed within the borders of South Africa and by an authorised official (VO) in a South African National Accreditation System (S.A.N.A.S) Accredited laboratory in terms of SANS 10378. The Verification Officers (VO) seal must include the Trade Metrology authorisation number plus the year of Verification.

Performance Specification

The Water Meter must be of the semi-positive rotary piston volumetric type with the following capabilities:-

METER SIZE	15mm*	20mm*	25mm*
Maximum Flowrate $q_s \pm 2\%$ (m ³ /h)	3	5	7
Nominal Flowrate $q_p \pm 2\%$ (m ³ /h)	1,5	2,5	3,5
Transitional Flowrate $q_t \pm 2\%$ (ℓ/h)	22,5	37,5	52,5
Minimum Flowrate $q_{min} \pm 5\%$ (ℓ/h)	15	25	35
Starting Flow (ℓ/h)	5,7	5,7	10

Maximum Working Pressure (Kpa)	1000	1600	1600
Body Length (mm)	114	165	198
Pulse Output (ℓ)	0.5	0.5	5

*Class 'C' Accuracy Specification.

In addition, the meters offered must comply with the following:-

- Fine Mesh Strainer of the following minimum dimensions to be internally fitted.

METER SIZE	APERTURE SIZE	MESH AREA
15mm	0,75mm	2 844mm ²
20mm	0,75mm	2 844mm ²
25mm	0,90mm	4 178mm ²

- Counter must be of the sealed, wet dial type to prevent dirt from obscuring the reading and also preventing condensation from forming under the lens
- Mechanical drive to be direct type to prevent magnetic interference.
- The counter of the meter must be orientated to allow reading from the inlet side of the meter.
- Counter window to be minimum 7mm thickness that cannot be penetrated, by means of a needle or similar sharp instrument in order to stop the counter from operating, without destroying the unit and allowing an uncontrollable discharge of water.
- The water meter must be approved by NRCS department of Trade Metrology for Vertical and Horizontal Installation. (Previously SABS)
- The water meter must be suitable for rhythmic pulsating flows.
- Accuracy performance to be Class 'C' Specification. To reduce the volume of water escaping measurement (low flows) and promote a longer service life.
- Body to be manufactured from specially blended UV stabilised engineering plastic.
- Suitable for water temperatures up to 50°C and a maximum working pressure of

1 600 Kpa

- *The piston must be of such a size that it rotates at 17 revolutions or less per litre measured so as to generate enough torque and assist with improved performance and reliability in the presence of suspended solids in the water.*
- *Maximum rate of flow (Qs) must be achieved at a pressure drop not in excess of 100 Kpa across the inlet/outlet of the meter.*
- *Shaped, vertical grooves must be incorporated in the piston to create a turbulence seal in operation, to improve the meter performance and reliability in the presence of suspended solids.*
- *All internal plastic components to be constructed of virgin materials.*
- *Each meter must be backed with a 3 year guarantee against faulty workmanship and/or materials.*
- *Built-in non-return valve to prevent meter reversal.*

3.3.8. Conventional Bulk Water Meter Specifications

LEGAL REQUIREMENTS

Water meters used in this application in nominal bore sizes 40mm, 50mm 80mm and 100mm must comply with S.A.N.S 1529-1 : 2006 and with the requirements of the N.R.C.S. and section 18 of the Trade Metrology Act No.77 of 1973 and regulation 80 of Part II of the Trade Metrology Regulations.

All meters sizes 40mm, 50mm, 80mm and 100mm must be tested and sealed within the borders of South Africa by an authorised official (V.O) in a South African National Accreditation System (S.A.N.A.S) Accredited Laboratory in Terms of S.A.N.S. 10378.

PERFORMANCE SPECIATION

The Water Meter must be of the Woltmann WP helical vane inferential velocity type with the following capabilities:-

METER SIZE (mm)	40	50	80	100	150	200	250	300
Max. Flowrate $qs \pm 2\%$ (m ³ /h)	90	90	200	250	600	1000	1600	2000
Permanent Flowrate $qp \pm 2\%$ (m ³ /h)	50	50	120	180	450	700	1000	1500
Transitional Flowrate $qt \pm 2\%$ (m ³ /h)	1.0	10	2.0	2.0	4.0	6.0	11.0	15.0

Minimum Flowrate $q_{min} \pm 5\%$ (m ³ /h)	.35	0.35	0.5	0.6	2.0	4.0	6.0	12.0
Starting Flow (m ³ /h)	0.15	0.16	0.22	0.25	0.90	1.2	1.8	1.8
Maximum Working Pressure (Kpa)	1 600	1600	1600	1600	1600	1600	1600	1600
Body Length (mm)	311	200	200	250	300	350	450	500

SPECIFICATION - In addition, the meters offered must comply with the following:-

- Epoxy coated cast iron body.
- Counter to be encased in a Copper can with mineral glass lens sealed to IP 68 standards to prevent condensation from forming under the lens, thus providing clear reading in any environment.
- Scratch resistant mineral glass counter window able to withstand the impact of a 25mm steel ball dropped onto the centre from a height of one meter.
- Counter unit must be pre-equipped for the fitment of an optional inductive Bi-Directional pulse generator suitable for generating pulses for logging, AMR etc.
- Meter must have the following features to facilitate convenience of on-site replacement :
 - A). Fully shrouded, pre-calibrated replaceable mechanism.
 - B). Helical vane fitted in a shrouded cartridge designed to direct the entire volume of water through the measuring element ensuring body impact is negligible on the accuracy.
 - Must be suitable for Vertical, Horizontal or Inclined Installation.
 - Meters sizes 40mm to 150mm must be capable of measuring reverse flows within the same Class B accuracy envelope as per the S.A.N.S.1529-1:2006 for forward flow, i.e. $\pm 2\%$ q_t to q_s .
 - Thrust pads and stub spindles to be manufactured from Tungsten Carbide for maximum longevity.
 - The meter must have jewelled rotor bearings for maximum wear life.
 - Meter must be provided with a pressure tapping (1/4 BSP), into which a pressure gauge or pressure transducer can be fitted to measure the downstream pressure of the meter.
 - Meter should be suitable for use with water temperatures up to 50°C and maximum working pressure of 1 600 Kpa.
 - All internal plastic components to be constructed of virgin materials.
 - The meter must perform within the legal accuracy specification, with a length of pipe, the same diameter as the meter, three diameters long, free from fittings and valves, fitted at the inlet to the meter body and one diameter long fitted to the outlet of the meter body.
 - Each Meter must be backed with a two year warranty against faulty workmanship and/or materials.

3.3.9. Electricity Meters Specifications

Single phase Split/ Smart meter

Voltage ratings Nominal voltage (-20% +15%) 220 - 240 V AC 110 – 127 V AC

Supply frequency ($\pm 5\%$) 50 Hz / 60 Hz 60 Hz

Current ratings

Base current (Ib) 5 A

Maximum current (I_{max}) 100 A

Minimum starting current

Class 1 20A mA

Class 2 25 mA

Utilisation category UC2

Minimum start up (230V) 130 V

Minimum operating (230V) 120 V AC

Nominal power consumption

1.2 W / 9 VA

Accuracy Class 1 or 2 (maintained throughout life of product)

Over voltage rating 1.8 times the nominal voltage for 48 hours

Short circuit rating Short-circuit withstand 3.0 kA

Protection Power

Power overload Thermal overload

Current overload Line / load reversal

Over / under voltage Extreme over current

Delayed reconnection

Environmental

Operating temperature -10°C to +55°C

Storage temperature -25°C to +70°C

Humidity 95% non-condensing

IP rating IP 54 (meter and user interface unit)

RF immunity 30 V/m

Status indicators

Power / load status LED

MCU / UIU communication status LED

Rate LED (1 000 pulses / kWh)

Installation

Footprint DIN rail mounted (35mm) asymmetrical

Insulation class Double insulation

Terminals

	Live	Neutral	Common
Type	Cage clamps	Cage clamps	Spring clamp
Size	25mm ²	16mm ²	0.7mm ²

Single phase

Voltage ratings

Nominal voltage (-20% +15%) 220 - 240 V AC

Supply frequency (±5%) 50 Hz

Current ratings

Base current (I_b) 5 A

Maximum current (I_{max}) 80 A PL/T

Maximum current 20 A PE Minimum starting current

Class 1 20mA

Class 2 20 mA 25 mA

Utilisation category UC2

Minimum start up (230V) 130 V

Minimum operating (230V) 120 V AC

Nominal power consumption

1.31 W / 9 VA

Accuracy Class 1 or 2

(maintained throughout life of product)

Over voltage rating 1.8 times the nominal voltage for 48 hours

Short circuit rating
Short-circuit withstand 3.0 kA

Protection

Power overload Extreme over current

Current overload Line / load reversal

Over / under voltage

Delayed reconnection

Environmental

Operating temperature -10°C to +55°C
Storage temperature -25°C to +70°C
Humidity 95% non-condensing

Status indicators

Rate LED (1,000 pulses / kWh)

Installation

Footprint Wall base

Insulation class Double insulation

Terminals

Type	Live	Neutral
Size	Size 25mm ²	25mm ²

Interrogation

Type MC171 Direct probe

Security

Security seals

Tamper detection

Three Phase Prepaid Meter

Voltage ratings (per phase)

Nominal voltage (-20% +15%)	110 - 127 V AC	220 - 240 V AC
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Supply frequency (±5%)	60Hz	50Hz
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Current ratings

Base current (Ib)	10A	10A
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Maximum current (Imax)	100 A	100A
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Minimum starting current

Class 1	40mA	40mA
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Class 2	50mA	50mA
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Utilisation category	UC2	UC2
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Nominal power consumption	1.6 W / 9 VA	1.6 W / 9 VA
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Accuracy Class 1 or 2

(maintained throughout life of product)

Over voltage rating 1.8 times the nominal voltage for 48 hours

Short circuit rating Short-circuit withstand 3.0 kA

Protection	Power overload	Thermal overload	
	Current overload	Galvanic isolation	
	Over/under voltage	Tamper protection	
	Phase imbalance		
Environmental			
Operating temperature	-10°C to +55°C		
Storage temperature	-25°C to +70°C		
Humidity	95% non-condensing		
IP rating	IP 54		
RF immunity	30 V/m		
Status indicators	Power / load status LED		
	Rate LED (1,000 pulses / kWh)		
	Communication status LED		
Installation			
Footprint	BS 7856 - Asymmetrical		
Insulation class	Double insulation		
Terminals*			
Type	Live	Neutral	Common
	Cage clamps	cage clamps	Spring
Size	25mm ²	25mm ²	0.7mm ²

BID DECLARATION

1. I/we Mr/Mrs/Messrs _____ duly assigned to represent the bidder for the purpose of this bid, hereby bid to supply the goods and/or render services described in the attached documents to the Ga-Segonyana Local Municipality on terms and conditions stipulated in this bid and in accordance with the specifications stipulated in the bid documents (which shall be taken as part of, and incorporated into this bid) at the prices reflected in the Pricing Schedule.
2. I/we agree that this offer shall remain valid for a period of **90 days** commencing from the closing date and time of this bid.
3. I/We further agree that:
 - 3.1 This bid and its acceptance shall be subject to the terms and conditions contained in the in the Ga-Segonyana Local Municipality Supply Chain Management Policy;
 - 3.2 if I/we withdraw my/our bid within the period for which I/we have agreed that the bid shall remain open for acceptance, or fail to fulfil the contract when called upon to do so, the Ga-Segonyana Local Municipality may, without prejudice to its other rights, agree to the withdrawal of my/our bid or cancel the contract that may have been entered into between me/us and the Ga-Segonyana Local Municipality and I/we will then pay to the Ga-Segonyana Local Municipality any additional expense incurred by the Ga-Segonyana Local Municipality having either to accept any less favorable bid or, if fresh bids have to be invited, the additional expenditure incurred by the invitation of fresh bids and by the subsequent acceptance of any less favourable bid; the Ga-Segonyana Local Municipality shall also have the right to recover such additional expenditure by set-off against moneys which may be due or become due to me/us under this or any other bid or contract or against any guarantee or deposit that may have been furnished by me/us or on my/our behalf for the due fulfilment of this or any other bid or contract and pending the ascertainment of the amount of such additional expenditure to retain such moneys, guarantee or deposit as security for any loss the Ga-Segonyana Local Municipality may sustain by reason of my/our default;
 - 3.3 If my/our bid is accepted the acceptance may be communicated to me/us by letter or order through the provided e-mail address. Such communication shall be deemed to be proper service of such notice with effect from the date of sending the e-mail of such notice;
 - 3.4 The law of the Republic of South Africa shall govern the contract created by the acceptance of my/our bid and that I/we choose domicilium citandi et executandi in the Republic of South Africa, where any and all legal notices may be served at (full street address of this place):

4. I/we furthermore confirm that I/we have satisfied myself/ourselves as to the correctness and validity of my/our bid; that the price(s) and rate(s) quoted cover all the work/item(s) specified in the bid documents and that the price(s) and rate(s) cover all my/our obligations under a resulting contract and that I/we accept that any mistakes regarding price(s) and calculations will be at my/our risk.
5. I/we hereby accept full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on me/us under this agreement as the principal(s) liable for the due fulfilment of this contract.

- 6. I/we agree that any action arising from this contract may in all respects be instituted against me/us and I/we hereby undertake to satisfy fully any sentence or judgment which may be pronounced against me/us as a result of such action.

- 7. I/we declare that I/we have participation/no participation* in the submission of any other offer for the supplies/services described in the attached documents. *If in the affirmative, state name(s) of bid(s) involved.

Name of Bidder: _____

Signature _____



Ga-Segonyana Local Municipality

Invitation To Bid

Bid No: 09/2024-25

**Supply of Electricity and Water Vending System, AMR
System And Water and Electricity Meters – Smart
Meters, Conventional Meters and Bulk Meters**

Resolution By Board Of Directors

RESOLUTION TAKEN BY THE BOARD OF DIRECTORS / MEMBERS / PARTNERS

RESOLUTION of a meeting of the Board of Directors / Members / Partners of

(Name of Bidder)

Held at _____ On _____
(Place) (Date)

RESOLVED THAT:

1. The enterprise submits a Bid to the Ga-Segonyana Local Municipality in respect of the following project:

Bid No: 09/2024-25
Supply of Electricity and Water Vending System, AMR System and Water and Electricity Meters – Smart Meters, Conventional Meters and Bulk Meters

2. Mr/Mrs/Ms _____

In his/her capacity as _____ and who will sign as follows:

(Specimen Signature)

be, and is hereby, authorised to sign the Bid and/or all other documents and/or correspondence in connection with and relating to the Bid, as well as to sign any contract, and/or all documentation resulting from the award of the bid to the enterprise mentioned above.

Note: The resolution must be signed by all the directors or members/partners of the bidding enterprise.
Should the space provided below not be sufficient for all directors to sign, please provide a separate sheet
in the same format as below.

No	Name	Capacity	Signature
1			
2			
3			
4			
5			

Enterprise Stamp

RESOLUTION TAKEN BY THE BOARD OF DIRECTORS OF A CONSORTIUM OR JOINT VENTURE.

RESOLUTION of a meeting of the Consortium / Joint Venture Partners of

_____ **(Name of Bidder)**

Held at _____ On _____
(Place) (Date)

RESOLVED THAT:

1. The enterprise submits a Bid to the Ga-Segonyana Local Municipality in respect of the following project:

Bid No: 09/2024-25
Supply of Electricity and Water Vending System, AMR System and Water and Electricity Meters – Smart Meters, Conventional Meters and Bulk Meters

As a Consortium/Joint Venture comprising (list all the legally correct full names and registration numbers, if applicable, of the Enterprises forming the Consortium/Joint Venture)

(Enterprise full Name and Registration Number)

(Enterprise full Name and Registration Number)

(Enterprise full Name and Registration Number)

(Enterprise full Name and Registration Number)

2. Mr/Mrs/Ms _____

In his/her capacity as _____ and who
will sign as follows:

(Specimen Signature)

be, and is hereby, authorised to sign the Bid and/or all other documents and/or correspondence in connection with and relating to the Bid, as well as to sign any contract, and/or all documentation resulting from the award of the bid to the *Consortium/ Joint Venture mentioned above.*

3. The enterprise in the form of a **consortium or joint venture** accept jointly and several liability with parties under item 1 above for the fulfilment of the obligations of the consortium and/or joint venture deriving from, and in any way connected with the contract to be entered into with the Ga-Segonyana Local Municipality in respect of the project described above under item 1.

(Physical Address)

Note: The resolution must be signed by all the directors or members/partners of the bidding enterprise. Should the space provided below not be sufficient for all directors to sign, please provide a separate sheet in the same format as below.

No	Name	Capacity	Signature
1			
2			
3			
4			
5			

Enterprise Stamp



Ga-Segonyana Local Municipality

Invitation To Bid

Bid No: 09/2024-25

**Supply of Electricity and Water Vending System, AMR
System And Water and Electricity Meters – Smart
Meters, Conventional Meters and Bulk Meters**

General Conditions of A Contract

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General Conditions of Contract**1. Definitions**

1. The following terms shall be interpreted as indicated:

1.1 "**Closing time**" means the date and hour specified in the bidding documents for the receipt of bids.

1.2 "**Contract**" means the written agreement entered into between the purchaser and the supplier, as recorded in the contract form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.

1.3 "**Contract price**" means the price payable to the supplier under the contract for the full and proper performance of his contractual obligations.

1.4 “**Corrupt practice**” means the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.

1.5 “**Countervailing duties**” are imposed in cases where an enterprise abroad is subsidized by its government and encouraged to market its products internationally.

1.6 “**Country of origin**” means the place where the goods were mined, grown or produced or from which the services are supplied. Goods are produced when, through manufacturing, processing or substantial and major assembly of components, a commercially recognized new product results that is substantially different in basic characteristics or in purpose or utility from its components.

1.7 “**Day**” means calendar day.

1.8 “**Delivery**” means delivery in compliance of the conditions of the contract or order.

1.9 “**Delivery ex stock**” means immediate delivery directly from stock actually on hand.

1.10 “**Delivery into consignees store or to his site**” means delivered and unloaded in the specified store or depot or on the specified site in compliance with the conditions of the contract or order, the supplier bearing all risks and charges involved until the supplies are so delivered and a valid receipt is obtained.

1.11 “**Dumping**” occurs when a private enterprise abroad market its goods on own initiative in the RSA at lower prices than that of the country of origin and which have the potential to harm the local industries in the RSA.

1.12 “**Force majeure**” means an event beyond the control of the supplier and not involving the supplier’s fault or negligence and not foreseeable. Such events may include, but is not restricted to, acts of the purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.

1.13 “**Fraudulent practice**” means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any bidder, and includes collusive practice among bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the bidder of the benefits of free and open competition.

1.14 “**GCC**” means the General Conditions of Contract.

1.15 “**Goods**” means all of the equipment, machinery, and/or other materials that the supplier is required to supply to the purchaser under the contract.

1.16 “**Imported content**” means that portion of the bidding price represented by the cost of components, parts or materials which have been or are still to be imported (whether by the supplier or his subcontractors) and which costs are inclusive of the costs abroad, plus freight and other direct importation costs such as landing costs, dock dues, import duty, sales duty or other similar tax or duty at the South African

place of entry as well as transportation and handling charges to the factory in the Republic where the supplies covered by the bid will be manufactured.

1.17 “**Local content**” means that portion of the bidding price which is not included in the imported content provided that local manufacture does take place.

1.18 “**Manufacture**” means the production of products in a factory using labour, materials, components and machinery and includes other related value-adding activities.

1.19 “**Order**” means an official written order issued for the supply of goods or works or the rendering of a service.

1.20 “**Project site,**” where applicable, means the place indicated in bidding documents.

1.21 “**Purchaser**” means the organization purchasing the goods.

1.22 “**Republic**” means the Republic of South Africa.

1.23 “**SCC**” means the Special Conditions of Contract.

1.24 “**Services**” means those functional services ancillary to the supply of the goods, such as transportation and any other incidental services, such as installation, commissioning, provision of technical assistance, training, catering, gardening, security, maintenance and other such obligations of the supplier covered under the contract.

1.25 “**Written**” or “**in writing**” means handwritten in ink or any form of electronic or mechanical writing.

2. Application

2.1 These general conditions are applicable to all bids, contracts and orders including bids for functional and professional services, sales, hiring, letting and the granting or acquiring of rights, but excluding immovable property, unless otherwise indicated in the bidding documents.

2.2 Where applicable, special conditions of contract are also laid down to cover specific supplies, services or works.

2.3 Where such special conditions of contract are in conflict with these general conditions, the special conditions shall apply.

3. General

3.1 Unless otherwise indicated in the bidding documents, the purchaser shall not be liable for any expense incurred in the preparation and submission of a bid. Where applicable a non-refundable fee for documents may be charged.

3.2 With certain exceptions, invitations to bid are only published in the Government Tender Bulletin. The Government Tender Bulletin may be obtained directly from the

Government Printer, Private Bag X85, Pretoria 0001, or accessed electronically from www.treasury.gov.za

4. Standards

4.1 The goods supplied shall conform to the standards mentioned in the bidding documents and specifications.

5. Use of contract documents and information; inspection.

5.1 The supplier shall not, without the purchaser's prior written consent, disclose the contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the purchaser in connection therewith, to any person other than a person employed by the supplier in the performance of the contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.

5.2 The supplier shall not, without the purchaser's prior written consent, make use of any document or information mentioned in GCC clause 5.1 except for purposes of performing the contract.

5.3 Any document, other than the contract itself mentioned in GCC clause 5.1 shall remain the property of the purchaser and shall be returned (all copies) to the purchaser on completion of the supplier's performance under the contract if so required by the purchaser.

5.4 The supplier shall permit the purchaser to inspect the supplier's records relating to the performance of the supplier and to have them audited by auditors appointed by the purchaser, if so required by the purchaser.

6. Patent rights

6.1 The supplier shall indemnify the purchaser against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the goods or any part thereof by the purchaser.

7. Performance

7.1 Within thirty (30) days of receipt of the notification of contract award, the successful bidder shall furnish to the purchaser the performance security of the amount specified in SCC.

7.2 The proceeds of the performance security shall be payable to the purchaser as compensation for any loss resulting from the supplier's failure to complete his obligations under the contract.

7.3 The performance security shall be denominated in the currency of the contract, or in a freely convertible currency acceptable to the purchaser and shall be in one of the following forms: (a) a bank guarantee or an irrevocable letter of credit issued by a reputable bank located in the purchaser's country or abroad, acceptable to the purchaser, in the form provided in the bidding documents or another form acceptable to the purchaser; or (b) a cashier's or certified cheque

7.4 The performance security will be discharged by the purchaser and returned to the supplier not later than thirty (30) days following the date of completion of the

supplier's performance obligations under the contract, including any warranty obligations, unless otherwise specified in SCC.

8. Inspections, tests and analyses

8.1 All pre-bidding testing will be for the account of the bidder.

8.2 If it is a bid condition that supplies to be produced or services to be rendered should at any stage during production or execution or on completion be subject to inspection, the premises of the bidder or contractor shall be open, at all reasonable hours, for inspection by a representative of the Department or an organization acting on behalf of the Department.

8.3 If there are no inspection requirements indicated in the bidding documents and no mention is made in the contract, but during the contract period it is decided that inspections shall be carried out, the purchaser shall itself make the necessary arrangements, including payment arrangements with the testing authority concerned.

8.4 If the inspections, tests and analyses referred to in clauses 8.2 and 8.3 show the supplies to be in accordance with the contract requirements, the cost of the inspections, tests and analyses shall be defrayed by the purchaser.

8.5 Where the supplies or services referred to in clauses 8.2 and 8.3 do not comply with the contract requirements, irrespective of whether such supplies or services are accepted or not, the cost in connection with these inspections, tests or analyses shall be defrayed by the supplier.

8.6 Supplies and services which are referred to in clauses 8.2 and 8.3 and which do not comply with the contract requirements may be rejected.

8.7 Any contract supplies may on or after delivery be inspected, tested or analyzed and may be rejected if found not to comply with the requirements of the contract. Such rejected supplies shall be held at the 7 cost and risk of the supplier who shall, when called upon, remove them immediately at his own cost and forthwith substitute them with supplies which do comply with the requirements of the contract. Failing such removal the rejected supplies shall be returned at the suppliers cost and risk. Should the supplier fail to provide the substitute supplies forthwith, the purchaser may, without giving the supplier further opportunity to substitute the rejected supplies, purchase such supplies as may be necessary at the expense of the supplier.

8.8 The provisions of clauses 8.4 to 8.7 shall not prejudice the right of the purchaser to cancel the contract on account of a breach of the conditions thereof, or to act in terms of Clause 23 of GCC.

9. Packing

9.1 The supplier shall provide such packing of the goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packing, case size and weights shall take into consideration, where appropriate, the remoteness of the goods' final destination and the absence of heavy handling facilities at all points in transit.

9.2 The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the contract, including additional requirements, if any, specified in SCC, and in any subsequent instructions ordered by the purchaser.

10. Delivery and documents

10.1 Delivery of the goods shall be made by the supplier in accordance with the terms specified in the contract. The details of shipping and/or other documents to be furnished by the supplier are specified in SCC.

10.2 Documents to be submitted by the supplier are specified in SCC.

11. Insurance

11.1 The goods supplied under the contract shall be fully insured in a freely convertible currency against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the manner specified in the SCC.

12. Transportation

12.1 Should a price other than an all-inclusive delivered price be required, this shall be specified in the SCC.

13. Incidental services

13.1 The supplier may be required to provide any or all of the following services, including additional services, if any, specified in SCC:

- (a) performance or supervision of on-site assembly and/or commissioning of the supplied goods;
- (b) furnishing of tools required for assembly and/or maintenance of the supplied goods;
- (c) furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied goods;
- (d) performance or supervision or maintenance and/or repair of the supplied goods, for a period of time agreed by the parties, 8 provided that this service shall not relieve the supplier of any warranty obligations under this contract; and
- (e) training of the purchaser's personnel, at the supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied goods.

13.2 Prices charged by the supplier for incidental services, if not included in the contract price for the goods, shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the supplier for similar services.

14. Spare parts

14.1 As specified in SCC, the supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the supplier:

- (a) such spare parts as the purchaser may elect to purchase from the supplier, provided that this election shall not relieve the supplier of any warranty obligations under the contract; and
- (b) in the event of termination of production of the spare parts:
 - (i) Advance notification to the purchaser of the pending termination, in sufficient time to permit the purchaser to procure needed requirements; and
 - (ii) following such termination, furnishing at no cost to the purchaser, the blueprints, drawings, and specifications of the spare parts, if requested.

15. Warranty

15.1 The supplier warrants that the goods supplied under the contract are new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials unless provided otherwise in the contract. The supplier further warrants that all goods supplied under this contract shall have no defect, arising from design, materials, or workmanship (except when the design and/or material is required by the purchaser's specifications) or from any act or omission of the supplier, that may develop under normal use of the supplied goods in the conditions prevailing in the country of final destination.

15.2 This warranty shall remain valid for twelve (12) months after the goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the contract, or for eighteen (18) months after the date of shipment from the port or place of loading in the source country, whichever period concludes earlier, unless specified otherwise in SCC.

15.3 The purchaser shall promptly notify the supplier in writing of any claims arising under this warranty.

15.4 Upon receipt of such notice, the supplier shall, within the period specified in SCC and with all reasonable speed, repair or replace the defective goods or parts thereof, without costs to the purchaser.

15.5 If the supplier, having been notified, fails to remedy the defect(s) within the period specified in SCC, the purchaser may proceed to take such remedial action as may be necessary, at the supplier's risk and expense and without prejudice to any other rights which the purchaser may have against the supplier under the contract.

16. Payment

16.1 The method and conditions of payment to be made to the supplier under this contract shall be specified in SCC.

16.2 The supplier shall furnish the purchaser with an invoice accompanied by a copy of the delivery note and upon fulfillment of other obligations stipulated in the contract.

16.3 Payments shall be made promptly by the purchaser, but in no case later than thirty (30) days after submission of an invoice or claim by the supplier.

16.4 Payment will be made in Rand unless otherwise stipulated in SCC.

17. Prices

17.1 Prices charged by the supplier for goods delivered and services performed under the contract shall not vary from the prices quoted by the supplier in his bid, with the exception of any price adjustments authorized in SCC or in the purchaser's request for bid validity extension, as the case may be.

18. Contract amendments

18.1 No variation in or modification of the terms of the contract shall be made except by written amendment signed by the parties concerned.

19. Assignment

19.1 The supplier shall not assign, in whole or in part, its obligations to perform under the contract, except with the purchaser's prior written consent.

- 20. Subcontracts**
- 20.1 The supplier shall notify the purchaser in writing of all subcontracts awarded under this contracts if not already specified in the bid. Such notification, in the original bid or later, shall not relieve the supplier from any liability or obligation under the contract.
- 21. Delays in the supplier's performance**
- 21.1 Delivery of the goods and performance of services shall be made by the supplier in accordance with the time schedule prescribed by the purchaser in the contract.
- 21.2 If at any time during performance of the contract, the supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the goods and performance of services, the supplier shall promptly notify the purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the supplier's notice, the purchaser shall evaluate the situation and may at his discretion extend the supplier's time for performance, with or without the imposition of penalties, in which case the extension shall be ratified by the parties by amendment of contract.
- 21.3 No provision in a contract shall be deemed to prohibit the obtaining of supplies or services from a national department, provincial department, or a local authority.
- 21.4 The right is reserved to procure outside of the contract small quantities or to have minor essential services executed if an emergency arises, the supplier's point of supply is not situated at or near the place where the supplies are required, or the supplier's services are not readily 10 available.
- 21.5 Except as provided under GCC Clause 25, a delay by the supplier in the performance of its delivery obligations shall render the supplier liable to the imposition of penalties, pursuant to GCC Clause 22, unless an extension of time is agreed upon pursuant to GCC Clause 21.2 without the application of penalties.
- 21.6 Upon any delay beyond the delivery period in the case of a supplies contract, the purchaser shall, without canceling the contract, be entitled to purchase supplies of a similar quality and up to the same quantity in substitution of the goods not supplied in conformity with the contract and to return any goods delivered later at the supplier's expense and risk, or to cancel the contract and buy such goods as may be required to complete the contract and without prejudice to his other rights, be entitled to claim damages from the supplier.
- 22. Penalties**
- 22.1 Subject to GCC Clause 25, if the supplier fails to deliver any or all of the goods or to perform the services within the period(s) specified in the contract, the purchaser shall, without prejudice to its other remedies under the contract, deduct from the contract price, as a penalty, a sum calculated on the delivered price of the delayed goods or unperformed services using the current prime interest rate calculated for each day of the delay until actual delivery or performance. The purchaser may also consider termination of the contract pursuant to GCC Clause 23.
- 23. Termination for**

default

23.1 The purchaser, without prejudice to any other remedy for breach of contract, by written notice of default sent to the supplier, may terminate this contract in whole or in part:

- (a) if the supplier fails to deliver any or all of the goods within the period(s) specified in the contract, or within any extension thereof granted by the purchaser pursuant to GCC Clause 21.2;
- (b) if the Supplier fails to perform any other obligation(s) under the contract; or
- (c) if the supplier, in the judgment of the purchaser, has engaged in corrupt or fraudulent practices in competing for or in executing the contract. 23.2 In the event the purchaser terminates the contract in whole or in part, the purchaser may procure, upon such terms and in such manner as it deems appropriate, goods, works or services similar to those undelivered, and the supplier shall be liable to the purchaser for any excess costs for such similar goods, works or services. However, the supplier shall continue performance of the contract to the extent not terminated.

23.3 Where the purchaser terminates the contract in whole or in part, the purchaser may decide to impose a restriction penalty on the supplier by prohibiting such supplier from doing business with the public sector for a period not exceeding 10 years.

23.4 If a purchaser intends imposing a restriction on a supplier or any person associated with the supplier, the supplier will be allowed a time period of not more than fourteen (14) days to provide reasons why the 11 envisaged restriction should not be imposed. Should the supplier fail to respond within the stipulated fourteen (14) days the purchaser may regard the intended penalty as not objected against and may impose it on the supplier.

23.5 Any restriction imposed on any person by the Accounting Officer / Authority will, at the discretion of the Accounting Officer / Authority, also be applicable to any other enterprise or any partner, manager, director or other person who wholly or partly exercises or exercised or may exercise control over the enterprise of the first-mentioned person, and with which enterprise or person the first-mentioned person, is or was in the opinion of the Accounting Officer / Authority actively associated.

23.6 If a restriction is imposed, the purchaser must, within five (5) working days of such imposition, furnish the National Treasury, with the following information:
(i) the name and address of the supplier and / or person restricted by the purchaser;
(ii) the date of commencement of the restriction
(iii) the period of restriction; and
(iv) the reasons for the restriction. These details will be loaded in the National Treasury's central database of suppliers or persons prohibited from doing business with the public sector.

23.7 If a court of law convicts a person of an offence as contemplated in sections 12 or 13 of the Prevention and Combating of Corrupt Activities Act, No. 12 of 2004, the court may also rule that such person's name be endorsed on the Register for Tender Defaulters. When a person's name has been endorsed on the Register, the person will be prohibited from doing business with the public sector for a period not less than five years and not more than 10 years. The National Treasury is empowered to determine the period of restriction and each case will be dealt with on its own merits.

According to section 32 of the Act the Register must be open to the public. The Register can be perused on the National Treasury website.

24. Anti-dumping and countervailing duties and rights

24.1 When, after the date of bid, provisional payments are required, or antidumping or countervailing duties are imposed, or the amount of a provisional payment or anti-dumping or countervailing right is increased in respect of any dumped or subsidized import, the State is not liable for any amount so required or imposed, or for the amount of any such increase. When, after the said date, such a provisional payment is no longer required or any such anti-dumping or countervailing right is abolished, or where the amount of such provisional payment or any such right is reduced, any such favourable difference shall on demand be paid forthwith by the contractor to the State or the State may deduct such amounts from moneys (if any) which may otherwise be due to the contractor in regard to supplies or services which he delivered or rendered, or is to deliver or render in terms of the contract or any other contract or any other amount which may be due to him 12

25. Force Majeure

25.1 Notwithstanding the provisions of GCC Clauses 22 and 23, the supplier shall not be liable for forfeiture of its performance security, damages, or termination for default if and to the extent that his delay in performance or other failure to perform his obligations under the contract is the result of an event of force majeure.

25.2 If a force majeure situation arises, the supplier shall promptly notify the purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the purchaser in writing, the supplier shall continue to perform its obligations under the contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the force majeure event.

26. Termination for insolvency

26.1 The purchaser may at any time terminate the contract by giving written notice to the supplier if the supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the purchaser.

27. Settlement of Disputes

27.1 If any dispute or difference of any kind whatsoever arises between the purchaser and the supplier in connection with or arising out of the contract, the parties shall make every effort to resolve amicably such dispute or difference by mutual consultation.

27.2 If, after thirty (30) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the purchaser or the supplier may give notice to the other party of his intention to commence with mediation. No mediation in respect of this matter may be commenced unless such notice is given to the other party.

27.3 Should it not be possible to settle a dispute by means of mediation, it may be settled in a South African court of law.

27.4 Mediation proceedings shall be conducted in accordance with the rules of procedure specified in the SCC.

27.5 Notwithstanding any reference to mediation and/or court proceedings herein, (a) the parties shall continue to perform their respective obligations under the contract unless they otherwise agree; and (b) the purchaser shall pay the supplier any monies due the supplier.

28. Limitation of Liability

28.1 Except in cases of criminal negligence or willful misconduct, and in the case of infringement pursuant to Clause 6;

(a) the supplier shall not be liable to the purchaser, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the supplier to pay penalties and/or damages to the purchaser; and

(b) the aggregate liability of the supplier to the purchaser, whether under the contract, in tort or otherwise, shall not exceed the total contract price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment.

29. Governing language

29.1 The contract shall be written in English. All correspondence and other documents pertaining to the contract that is exchanged by the parties shall also be written in English.

30. Applicable law

30.1 The contract shall be interpreted in accordance with South African laws, unless otherwise specified in SCC.

31. Notices

31.1 Every written acceptance of a bid shall be posted to the supplier concerned by registered or certified mail and any other notice to him shall be posted by ordinary mail to the address furnished in his bid or to the address notified later by him in writing and such posting shall be deemed to be proper service of such notice

31.2 The time mentioned in the contract documents for performing any act after such aforesaid notice has been given, shall be reckoned from the date of posting of such notice.

32. Taxes and duties

32.1 A foreign supplier shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside the purchaser's country.

32.2 A local supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted goods to the purchaser.

32.3 No contract shall be concluded with any bidder whose tax matters are not in order. Prior to the award of a bid the Department must be in possession of a tax clearance certificate, submitted by the bidder. This certificate must be an original issued by the South African Revenue Services.

33. National Industrial

**Participation (NIP)
Programme**

33.1 The NIP Programme administered by the Department of Trade and Industry shall be applicable to all contracts that are subject to the NIP obligation

**34. Prohibition of
Restrictive practices**

34.1 In terms of section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, an agreement between, or concerted practice by, firms, or a decision by an association of firms, is prohibited if it is between parties in a horizontal relationship and if a bidder (s) is / are or a contractor(s) was / were involved in collusive bidding (or bid rigging).

34.2 If a bidder(s) or contractor(s), based on reasonable grounds or evidence obtained by the purchaser, has / have engaged in the restrictive practice referred to above, the purchaser may refer the matter to the Competition Commission for investigation and possible imposition of administrative penalties as contemplated in the Competition Act No. 89 of 1998. 14

34.3 If a bidder(s) or contractor(s), has / have been found guilty by the Competition Commission of the restrictive practice referred to above, the purchaser may, in addition and without prejudice to any other remedy provided for, invalidate the bid(s) for such item(s) offered, and / or terminate the contract in whole or part, and / or restrict the bidder(s) or contractor(s) from conducting business with the public sector for a period not exceeding ten (10) years and / or claim damages from the bidder(s) or contractor(s) concerned.

Js General Conditions of Contract (revised July 2010)