



RUSTENBURG LOCAL MUNICIPALITY

RLM/DTIS/0010/2019/20: REQUEST FOR PROPOSAL FOR FUNDING, DESIGN, SUPPLY, INSTALLATION AND MAINTENANCE OF A SMART REVENUE COLLECTION SYSTEM INCLUDING ONLINE CUSTOMER PAYMENT OPTIONS FOR THE RUSTENBURG LOCAL MUNICIPALITY PERIOD OF 3 YEARS

PARTICULARS OF THE BIDDER	
NAME OF THE BIDDING OR TENDERING COMPANY	
POSTAL ADDRESS	
	POSTAL CODE
STREET ADDRESS (PHYSICAL ADDRESS)	
	POSTAL CODE
E-MAIL ADDRESS	
TELEPHONE NUMBER (TELKOM LINE)	
CIDB CRS NUMBER (IF APPLICABLE)	
CELLPHONE NUMBER	
ALTERNATE CELLPHONE NO.	
CENTRAL SUPPLIER DATABASE NUMBER OF THE BIDDING COMPANY	



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DOCUMENT COMPLETION INSTRUCTION AND RETURNABLE DOCUMENTS SCHEDULE

CENTRAL SUPPLIER DATABASE REGISTRATION (CSD)

- ✓ Bidders must be registered on CSD and provide their registration number on the tender/ quotation document

COMPLETION OF THE DOCUMENT

PLEASE READ AND FOLLOW INSTRUCTIONS BELOW ON HOW TO COMPLETE DIFFERENT FORMS IN THE DOCUMENT AND FILL THEM AS INSTRUCTED

- ✓ The tender documents must be completed in full i.e. Compulsory Questionnaire, MBD 1, Pricing Schedule, MBD 4, MBD 5, MBD 6.1, MBD 7.2, MBD 8, MBD 9, Section 38 and the Form of Offer, including all witness signatures on all the above stated forms.
- ✓ ***NB! FAILURE TO ADHERE TO THE BELOW MENTIONED POINTS WILL INVALIDATE THE TENDER AND RESULT IN DISQUALIFICATION***
- **COMPULSORY QUESTIONNAIRE** must be fully completed and signed
In a case of Joint Venture separate COMPULSORY QUESTIONNAIRE forms must be completed and submitted.
 - **MBD 1** must be fully completed and signed
 - **PRICING SCHEDULE** must be fully completed and signed
 - **MBD 4** -only tick the appropriate answer. Please be informed that whether you scratch out, tick or circle, **your answer will be where the pen ink is reflecting.**
In a case of Joint Venture or multi- directors, full details of all directors / trustees / shareholders / members must be provided on the table on MBD 4.
 - **MBD 5** -only tick the appropriate answer. Please be informed that whether you scratch out, tick or circle, **your answer will be where the pen ink is reflecting.**
 - ***In a case of Joint Venture separate MBD 5 forms must be completed and submitted.*** (complete if applicable)
 - **MBD 6.1** – must be fully completed.
 - **MBD 7.2** must be fully completed.
 - **MBD 8** - only tick the appropriate answer box, whether you scratch out, tick or circle, your answer will be where the pen ink is reflecting
 - **MBD 9** - must be fully completed and signed
 - **SECTION 38** - only tick the appropriate answer box, whether you scratch out, tick or circle, your answer will be where the pen ink is reflecting. Must be fully completed and signed, including signatures of witnesses.
 - Note that should you answer “**NO**” to any of the declaration questions on **section 38 form**, then supporting documents **MUST** be attached
 - **SIGNATORY AUTHORISATION** – complete and sign the form
 - The document must not be dismantled, page numbers must be sequential



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THE FOLLOWING MANDATORY DOCUMENTS MUST BE SUBMITTED TOGETHER WITH THE BID DOCUMENT

- ✓ Deposit slip with tender reference number.
- ✓ CSD report
- **FOR ALL DOCUMENTS THAT WILL NEED CERTIFICATION (AND AFFIDAVITS WHERE APPLICABLE) BIDDERS ARE REQUESTED NOT TO SUBMIT COPIES OF CERTIFIED COPIES.**
- ✓ A valid and certified (not older than (3) three months on the date of tender closure) BBBEE Certificate for the company (if it is a JV the BBBEE must be consolidated)

MUNICIPAL RATES AND TAXES STATEMENTS OF THE DIRECTORS

- ✓ Municipal rates and taxes statement which is no older than 3 months on the date tender closure for each directors' address must be attached; or
- ✓ Valid lease agreement of the director/s (showing lease period) or,
- ✓ An original letter from tribal authority not older than three (3) months if the director/s are residing in a tribal land, or
- ✓ If the rates and taxes account are not in the names of the director/s the attached municipal rates and taxes statement must be accompanied an original affidavit from the property owner whose names are reflecting on the municipal rates and taxes statement to confirm that the director resides in their property.

MUNICIPAL RATES AND TAXES STATEMENTS OF THE COMPANY

- ✓ Municipal rates and taxes statement which is no older than 3 months on the date tender closure for the company's' address must be attached; or
- ✓ Valid lease agreement of the company (showing all critical contractual obligations, or
- ✓ An original letter from a tribal authority not older than three (3) months if the company is operating from a tribal, or
- ✓ If the rates and taxes account are not in the names of the company, the attached municipal rates taxes statement must be accompanied by an original affidavit from the property owner whose names are reflecting on the municipal rates and taxes statement to confirm that the company operates from their property.

NB!!

- ✓ **FOR PROCUREMENT EXPECTED TO BE LESS THAN 10 MILLION, AWARDS WILL NOT BE MADE TO BIDDERS OWING MUNICIPAL RATES AND TAXES FOR OVER 90 DAYS AT THE TIME OF TENDER CLOSURE**
- ✓ **FOR PROCUREMENT EXPECTED TO BE MORE THAN 10 MILLION, AWARDS WILL NOT BE MADE TO BIDDERS OWING MUNICIPAL RATES AND TAXES FOR OVER 30 DAYS AT THE TIME OF TENDER CLOSURE**
- ✓ Required CIDB Grading Certificate where applicable
- ✓ Signatory resolution – Please attach a copy of Signatory resolution where instructed
- ✓ If the submission is from a Joint Venture, then a JV agreement must be attached



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VERIFICATION OF DOCUMENTS AND INFORMATION.

- ✓ Tax compliance status will be verified using CSD number. (For a bidder to be considered for final award, their status must reflect "tax compliance" before final award is made)
- ✓ CIDB Grading will be verified
- ✓ BBBEE certificates will be verified with relevant registration bodies.
- ✓ Sworn Affidavits will be accepted only if its originals submitted.

ALLOCATION OF BBBEE POINTS

- ✓ No points will be allocated for a BBBEE certificate that is a copy of a certified copy or not that is not certified.
- ✓ No points will be allocated if the attached sworn affidavit (BBBEE) is a copy.

INSTRUCTION ON THE SUBMISSION OF TENDER DOCUMENTS

- ✓ A tender document must be in a sealed document that has on the outside the bid number and bid description. Both the bid number and the bid description must be on the envelope for the document to be acceptable.
- ✓ If the bid number and description are not clearly marked on the envelope, the bid will be received
- ✓ The tender document must be in the tender box before the specified closing time and date.
- ✓ Bidders who arrive when the tender box is open are late.



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**PART A
INVITATION TO BID**

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE RUSTENBURG LOCAL MUNICIPALITY					
BID NUMBER:	RLM/DTIS/0010/2020/21	CLOSING DATE:	08 JULY 2021	CLOSING TIME:	11H00
DESCRIPTION	REQUEST FOR PROPOSAL FOR FUNDING, DESIGN, SUPPLY, INSTALLATION AND MAINTENANCE OF A SMART REVENUE COLLECTION SYSTEM INCLUDING ONLINE CUSTOMER PAYMENT OPTIONS FOR THE RUSTENBURG LOCAL MUNICIPALITY PERIOD OF 3 YEARS				
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:

RUSTENBURG LOCAL MUNICIPALITY					
MISSIONARY MPHENI HOUSE					
CNR BEYERS NAUDE AND NELSON MANDELA DRIVE, RUSTENBURG					
SUPPLIER INFORMATION					
NAME OF BIDDER					
POSTAL ADDRESS					
STREET ADDRESS					
TELEPHONE NUMBER	CODE		NUMBER		
CELLPHONE NUMBER					
FACSIMILE NUMBER	CODE		NUMBER		
E-MAIL ADDRESS					
VAT REGISTRATION NUMBER					
TAX COMPLIANCE STATUS	TCS PIN:		OR	CSD No:	
B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE [TICK APPLICABLE BOX]	<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]					



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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	R
SIGNATURE OF BIDDER	DATE	
CAPACITY UNDER WHICH THIS BID IS SIGNED			
BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO:		TECHNICAL INFORMATION MAY BE DIRECTED TO:	
DEPARTMENT	SCM	CONTACT PERSON	MR PIERRE BERGH
CONTACT PERSON	MR J MASINGA	TELEPHONE NUMBER	014 590 3371
TELEPHONE NUMBER	0145903123	E-MAIL ADDRESS	pbergh@rustenburg.gov.za
E-MAIL ADDRESS	jmasinga@rustenburg.gov.za &tenders@rustenburg.gov.za		



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**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, COMPLETED WITH A BLACK PEN
1.3.	THIS BID IS SUBJECT TO THE RLM SUPPLY CHAIN MANAGEMENT POLICY, 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 WILL 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:



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1. Sealed bid documents marked: **“RLM/DTIS/0010/2020/21 - REQUEST FOR PROPOSAL FOR FUNDING, DESIGN, SUPPLY, INSTALLATION AND MAINTENANCE OF A SMART REVENUE COLLECTION SYSTEM INCLUDING ONLINE CUSTOMER PAYMENT OPTIONS FOR THE RUSTENBURG LOCAL MUNICIPALITY PERIOD OF 3 YEARS”** must be placed in the bid box in the foyer of the Municipal offices, Missionary Mpheni House, Beyers Naude Drive, Rustenburg not later than **08 JULY 2021 @ 11H00**, where after the bids will be opened in public at the Municipal offices.
2. One sealed envelope containing **ADMINISTRATIVE EVALUATION (DOCUMENT COMPLETION AND ATTACHMENT OF MANDATORY DOCUMENTS), FUNCTIONALITY (MINIMUM 70), PREQUALIFICATION (Professional indemnity Insurance R 4,5 million AND Consulting Engineers South Africa (CESA) or South African Black Technical and Allied Careers Organization (SABTACO) AND PREFERENTIAL POINT SYSTEM (80 PRICE & 20 BBBEE)**
3. must be deposited in the box before the closing date and time.
4. Please note that no bid documents given to couriers will not be signed for by Rustenburg Local Municipality.
5. The Council will not be responsible for bids not received or received late by mail. Bids will remain valid for 90 days (Ninety).
6. All bids will be adjudicated based on the prescribed criterion as stipulated in the document.
7. An updated record of payment of rates, taxes and services to the relevant Municipality must be attached. Failure to do so will invalidate the bid submitted
8. No bids will be considered from any person(s) in the service of the state (as defined in Regulation 1 of Local Government: Municipal Supply Chain Management Regulations).
9. Objections or complaints must be submitted in writing to the Municipal Manager at the address stated, and must contain the following:
 - (a) reasons and/or grounds for the objection or complaint.
10.
 - (b) the way in which the objector or complainant's rights have been affected; and
 - (c) the remedy sought by the objector or complainant.
11. Any objection or complaint must reach the Municipal Manager with a 14-day period after award has been made. Late objections or complaints will not be entertained.
12. All bids must be submitted on the official forms provided and a successful bidder will be required to fill and sign a written Contract Form (MBD 7).

RUSTENBURG LOCAL MUNICIPALITY
P.O. BOX 16
MISSIONARY MPHENI HOUSE



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GENERAL CONDITIONS OF CONTRACT
(NOT TO BE ALTERED)

PROCUREMENT: GENERAL CONDITIONS OF CONTRACT

Dated July 2010 as set out by the National Treasury: Republic of South Africa

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General Conditions of Contract

1. Definitions



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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 goods 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.



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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 goods 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 "Supplier" means the successful bidder who is awarded the contract to maintain and administer the required and specified service(s) to the State.

1.26 "Tort" means in breach of contract.

1.27 "Turnkey" means a procurement process where one service provider assumes total responsibility for all aspects of the project and delivers the full end product / service required by the contract.

1.28 "Written" or "in writing" means hand-written 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 (excluding professional services related to the building and construction industry), 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 goods, services or works.

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



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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 nonrefundable fee for documents may be charged.

3.2 Invitations to bid are usually published in locally distributed news media and on the municipality/municipal entity website.

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 as 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.

6.2 When a supplier developed documentation / projects for the municipality / municipal entity, the intellectual, copy and patent rights or ownership of such documents or projects will vest in the municipality / municipal entity.

7. Performance security

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.



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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.

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 goods to be produced or services to be rendered should at any stage be subject to inspections, tests and analyses, the bidder or contractor's premises shall be open, at all reasonable hours, for inspection by a representative of the purchaser or organization acting on behalf of the purchaser.

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

8.6 Goods 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 goods may on or after delivery be inspected, tested or analysed and may be rejected if found not to comply with the requirements of the contract. Such rejected goods shall be held at the cost and risk of the supplier who shall, when called upon, remove them immediately at his own cost and forthwith substitute them with goods, which do comply with the requirements of the contract. Failing such removal the rejected goods shall be returned at the suppliers cost and risk. Should the supplier fail to provide the substitute goods forthwith, the purchaser may, without giving the supplier further opportunity to substitute the rejected goods, purchase such goods 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 22 of GCC.

9. Packing



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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 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, and in any subsequent instructions ordered by the purchaser.

10. Delivery and documents

10.1 Delivery of the goods and arrangements for shipping and clearance obligations shall be made by the supplier in accordance with the terms specified in the contract.

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.

12. Transportation

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

13. Incidental Services

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

- (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, 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, 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;



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(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.

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 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, 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.

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.

17. Prices



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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 or in the purchaser's request for bid validity extension, as the case may be.

18. Variation orders

18.1 In cases where the estimated value of the envisaged changes in purchase does not vary more than 15% of the total value of the original contract, the contractor may be instructed to deliver the goods or render the services as such. In cases of measurable quantities, the contractor may be approached to reduce the unit price, and such offers may be accepted provided that there is no escalation in price.

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 these 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 delivery and/or 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 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 goods are required, or the supplier's services are not readily available.

21.4 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 22.2 without the application of penalties.

21.5 Upon any delay beyond the delivery period in the case of a goods contract, the purchaser shall, without cancelling the contract, be entitled to purchase goods 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.



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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 envisaged restriction should not be imposed. Should the supplier fail to respond within the stipulated fourteen (14) days the purchaser may regard the supplier as having no objection and proceed with the restriction.

23.5 Any restriction imposed on any person by the purchaser will, at the discretion of the purchaser, 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 purchaser 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.



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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. Antidumping and countervailing duties and rights

24.1 When, after the date of bid, provisional payments are required, or anti-dumping 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 supplier to the purchaser or the purchaser may deduct such amounts from moneys (if any) which may otherwise be due to the supplier in regard to goods 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.

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.



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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 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 for goods delivered and / or services rendered according to the prescripts of the contract.

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 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.

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.



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32.3 No contract shall be concluded with any bidder whose tax matters are not in order. Prior to the award of a bid SARS must have certified that the tax matters of the preferred bidder are in order.

32.4 No contract shall be concluded with any bidder whose municipal rates and taxes and municipal services charges are in arrears.

33. Transfer of contracts

33.1 The contractor shall not abandon, transfer, cede assign or sublet a contract or part thereof without the written permission of the purchaser

34. Amendment of contracts

34.1 No agreement to amend or vary a contract or order or the conditions, stipulations or provisions thereof shall be valid and of any force unless such agreement to amend or vary is entered into in writing and

signed by the contracting parties. Any waiver of the requirement that the agreement to amend or vary shall be in writing, shall also be in writing.

35. Prohibition of restrictive practices

35.1 In terms of section 4 (1) (b) (iii) of the Competition Act No. 89 of **restrictive practices** 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.

35.2 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 section 59 of the Competition Act No 89 Of 1998.

35.3 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.



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Glossary

Abbreviation	Description
AMI	Advanced Metering Infrastructure
CIU	Consumer Interface Unit
COTS	Commercial Off the Shelf
CRM	Customer Relationship Management
DCU	Data Concentrator Unit
DR	Disaster Recovery
PPERP	Enterprise Resource Planning
EV	Electric Vehicle
GIS	Geographical Information System
GPRS	General Packet Radio Services
HAN	Home Area Network
HHU	Handheld Unit
IEC	International Electrotechnical Commission
IEEE	Institute for Electrical and Electronics Engineers
KPI	Key Performance Indicator
LCU	Load Control Unit
LoRa	LoRa RF interoperable platform
LPU	Large Power User
LV	Low Voltage
MDMS	Meter Data Management System
MIA	Meter Installation App for Smart Phones
MV	Medium Voltage



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Abbreviation	Description
PLC	Power Line Communications
PMO	Programme Management Office
PoS	Point of Sale
RF	Radio Frequency
RFP	Request for Proposal
SPU	Small Power User
STS	Standard Transfer Specifications
ToU	Time of Use
Municipality	Rustenburg Local Municipality
VEE	Validation, Estimation & Editing
WAN	Wide Area Network
STS	Standard Transfer Specification.
SANS	South African National Standard.
NRS	National Rationalized Standard.
BS	British Standard



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1 Purpose

The Municipality has the desire to improve its revenue through deployment of a modern distribution grid called Smart Grid “the Project”. The municipality would like to reduce non-technical losses and allow collection of arrears. The municipality desire is to deploy holistic solution which will turn the Municipality into a top tier utility distribution company, improving day by day financial and operational performance.

The technology infrastructure of the Project draws upon results and lessons of previous projects implemented elsewhere. Experience shows that it is essential for municipalities facing significant energy fraud to adopt advanced smart grid technologies incorporating an expanded suite of specialized fraud detection tools to assist in better revenue collection through proper visibility of energy losses, and reduced scope for pilferage.

Indicative Proposed Quantities

Item	Description	Quantity – Initial Stage
1.1	Single Phase Smart Meters: with PLC communication	XX
1.2	Three Phase Smart Meters: with PLC communications	XX
2	PLC Keypad: for entering prepayment tokens and energy consumption monitoring	XX
3	PLC Data Concentrator Unit (DCU): For data collection from multiple PLC meters and communication with the MDMS, as well as inbuilt CT meter	XX
4	Head-End System (HES)	1



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5	Meter Data Management System (MDMS)	1
6	Vending Management System (VMS)	1
7	Asset Management (AMS)	1
8	Outage Management System (OMS)	1
9	Demand Side Management (DSM)	1



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10	Customer Portal and Mobile Application (CMA)	1
11	Workforce Automation (WFA)	1
12	Dashboard Management System (DBMS)	1
13	Field Services Terminals: Tools for supporting automated procedures to streamline meter installation, as well as for pinpointing the location of the meter assets on a future GIS map, as well as reading and writing data with the meters and concentrators.	XX
14	Point of Sale Terminals and PC-based vending stations	XX
15	Integration – with E-banking, and ERP billing system	1
16	Servers, Backup, Archiving, Disaster Recovery and Associated Software License	1
17	Training	1



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18	Project Management	1
19	Service Level Agreement (SLA) for Maintenance, Support and Upgrades	1
20	Control room – screen and PCs	1
21	Installation and commissioning of the smart meters, keypads and DCUs.	As per RLM metering Electrical and BTO guideline and agreement
22	Ancillary Equipment: Meter enclosures, MCBs, CTs	XX
23	Provision of sim cards and data packages for duration of the contract	XX

2 Tender Data Sheet

The following information regarding the particulars of the Tender shall complement and or amend the provisions of this document.

1.	Eligible Tenderers	<i>A manufacturer shall give authorization to only one bidder. Only one bid from a Funder / Supplier / manufacturer's product shall be eligible for this tender. The bidder will submit with his tender</i>
2.	Language of Tender	<i>All documents submitted by the Tenderer relating to the tender shall be written in English language.</i>
3.	Eligibility Criteria	<i>The following eligibility criteria will be applied to tenderers. 1) Professional experience of tenderer. a. At least 100,000 AMI two-way communication Electrical smart meters of an identical or similar type to those proposed in the bid – and of the same manufacturer at the same plant – have been supplied and installed at least one municipality or electricity Utility,</i>



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		<p><i>in the course of last five years, preceding the last date for submission of the technical proposals.</i></p> <p><i>b. The manufacturer of each specific Electrical meters has continuously manufactured meters, similar to the ones proposed, during the last ten years, prior to the last date for submission of the technical proposal, and of the same manufacturer at the same plant, have been sold and installed to utilities in 2 countries.</i></p> <p><i>c. <u>MDMS installation experience:</u></i></p> <p><i>-The bidder shall provide reference/s to show that the proposed MDMS has been successfully implemented in at least one installation with 100,000 electrical meters or more.</i></p> <p><i>- The bidder shall provide reference/s to show that the proposed MDMS has successfully integrated smart meters manufactured by at least 3 vendors.</i></p> <p><i>d. At least successful implementations of prepayment, vending management system, demand side management, and loss analysis.</i></p> <p><i>e. PLC communication compatibility: The PLC meters and Data Concentrator proposed must use an open protocol. Bidder will have to submit the protocol before the award is done.</i></p> <p><i>f. <u>Vending Management System</u></i></p> <p><i>a. The Bidder have installed at least one project with supporting 100,000 households.</i></p> <p><i>b. The Bidder must have successfully integrated at least 2 third-party vendors within South Africa.</i></p>
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4.	Validity of Tenders	<i>Tenders shall remain valid for one hundred and twenty (120) days after the date of tender opening</i>
5.	Submission of Tenders “TWO ENVELOPE TENDERS TO ENSURE BEST PROPOSAL”	<p>a. Full proposals should be submitted in ENGLISH and must be received not later than Date and time on Advert in two (02) original copies (hard copy version), duly signed and dated.</p> <p>b. Bidders must submit a sealed proposal, ensuring separate envelopes for the Technical Proposal and the Price Proposal. The Proposed Cost (Price Proposal) must be submitted in a sealed envelope separate from the rest of the proposal. Prices, Implementation costs or any rates shall not appear in any other part of the proposal.</p> <p>c. Proven Funding to implement the proposal must be indicated without any reference to the costs involved in the proposal cost. Proven Funding cost will be submitted separately.</p> <p>Complete sealed Proposals are to be submitted and clearly marked BID:RLM/DTIS/0010/2019/20: REQUEST FOR PROPOSAL FOR FUNDING, DESIGN, SUPPLY, INSTALLATION AND MAINTENANCE OF A SMART REVENUE COLLECTION SYSTEM INCLUDING ONLINE CUSTOMER PAYMENT OPTIONS FOR THE RUSTENBURG LOCAL MUNICIPALITY PERIOD OF 3 YEARS The Physical Address for submission of Tender documents (RFP) is: The Tender Box Missionary Mpheni House security entrance Corner Nelson Mandela & Beyers Naude Rustenburg 0300 And to be received on or before “DATE AND TIME” as per advert. The Municipality may, at its discretion, extend this deadline for submission of RFP Tenders.</p>



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6.	Tender Prices	<p>Proposals should be submitted separate from the Proposal Costs for which there is indefinite proof of required funding. Approved funding is Compulsory.</p> <p>Prices quoted should be net inclusive of all taxes and delivery costs to the required site (where applicable) and must be in the currency of South Africa Rand (ZAR).</p>
7.	Submission Date	<p>Bidders must submit a sealed proposal, ensuring separate envelopes for the Technical Proposal and the Price Proposal. The Proposed Cost (Price Proposal) must be submitted in a sealed envelope separate from the rest of the proposal. Prices, Implementation costs or any rates shall not appear in any other part of the proposal.</p>
8.	Deadline for the submission of clarification questions	As per RLM SCM regulations
9.	Submission of Samples	Not needed - Only references of similar projects is compulsory
10.	Presentation	<ul style="list-style-type: none"> a. The proposed solution must be demonstrated by the bidder. b. Within 14 days from the submission date, the shortlisted bidder/s has to schedule a meeting and demonstrate the full solution at in the Municipality's Office located at Missionary Mpheni House security entrance Corner Nelson Mandela & Beyers Naude where-after the demonstration venue will be announced. c. Non-attendance at the presentation will be a cause for disqualification of the bidders
11.	Quality Certification	<ul style="list-style-type: none"> a. The Bidder's Manufacturer shall have established a quality assurance system based on ISO 9001 or 9002.



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		<ul style="list-style-type: none">b. The Bidder's Software provider shall have established an Environmental Management System and has been audited and registered to the requirements of ISO 14001:2015 for design of electronic and software systems.c. The Bidder's hardware and Software provider shall have established a Security Management System and has been assessed and complies to the requirements of ISO 27001:2013 for design of hardware and software solutions in the area of Smart Grids.d. STS certificate for the metering devices.e. STS certificate for the vending management system.f. DLMS certificate for the metering equipment
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3 Solution Vision

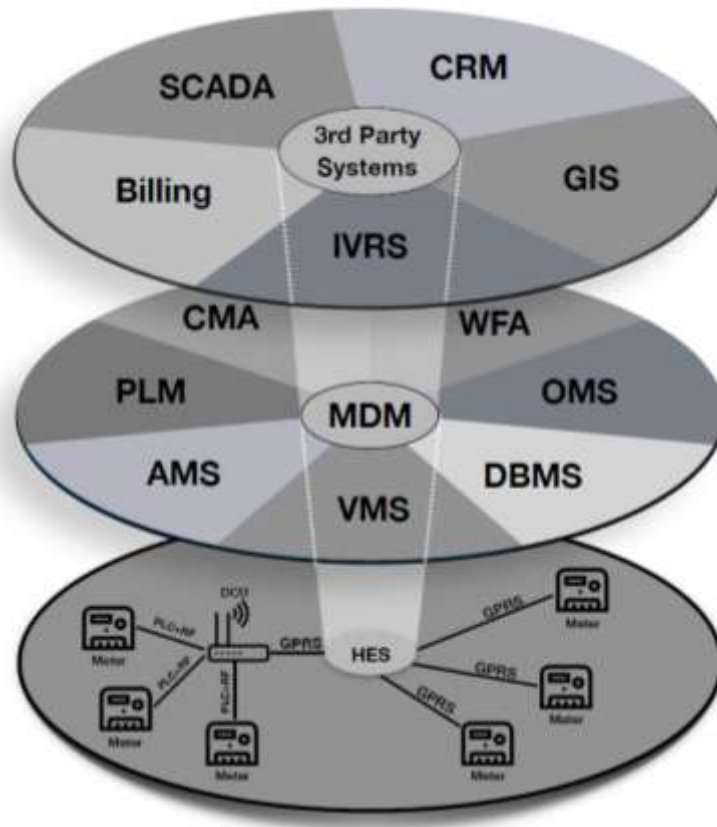
3.1 Overview

This specification was prepared to establish and promote uniform requirements for End-to-End Smart Grid/revenue enhancement Solution. The specification lays down the minimum requirements for equipment and software acceptable for evaluation.



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The solution is expected to deliver capabilities for managing, controlling, monitoring and interfacing to all assets, with a suite of smart grid applications delivering improved Municipality operational performance with reliability, and efficiency. The solution should have the option to manage both Energy and Water. Fundamental to success is the combination of high-performance database, and user-friendly system supporting an array of smart grid applications enabling loss analysis and loss reduction, increased network visibility, optimized efficiency, and substantially improving the management and control of the medium and low voltage power networks.

The solution is required to be a multi-channel, multi-protocol system with robust database centres, and state of the art telecommunication network interfaces, which enables high data rate collection for large-scale smart grid deployments. It should integrate various standard protocols and provide multi-vendor management capable of integrating smart meters manufactured by various vendors.



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The system's architecture should comply with all the current and expected future requirements of a modern grid network solution including demand response, robust security, advanced tariff structures with real time updates, smart prepayment and vending, two-way communications, real time tampering prevention and loss analysis, etc.

3.2 Smart Meters

The specification covers the design, manufacturing, testing, supply and delivery of AC whole current 1 phase 2 wires Smart Electricity Meter (1P meter) and 3 phase 4 wires Smart Electricity Direct Connected (3P-DC meter) and Transformer Connected (3P-CT meter) Meters with bidirectional redundant communication facility and prepaid functionality. The meters shall be suitable for Advanced Metering Infrastructure (AMI).

The meters shall communicate with DCU/Gateway via combination of RF and PLC communication technology or directly with HES over cellular network.

The meter must include different registers to store the data for Incoming supply and outgoing supply (accounting for separate ToU/ToD registers in case the eligible consumer is under the ambit of ToU/ToD tariff).

3.2.1. BASIC FEATURES

The Smart Meter would have the following minimum basic features:

- Measurement of electrical energy parameters
- Modular Bidirectional Communication able to support more than single communication type (as PLC, RF/RF Mesh, 3G/GPRS etc.)
- Pre-paid functionality
- Net Metering
- Integrated Load limiting switch (only for direct connected meters)
- Tamper event detection, recording and reporting
- Terminal cover open with "time stamp" registration at no power
- Power event alarms such as loss of supply, low/ high voltage, phase unbalance, low power factor.
- On demand reading
- Gesture/Emergency time on prepayment mode
- Internal battery and a supercapacitor
- IR and RS485 communication ports for local readings and configuration
- LED indication for active and reactive consumption
- Neutral measurement



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3.2.2. OPERATING CONDITIONS

Operating Temperature

The temperature zone in which the meter functions properly must be between -20 °C and +55 °C.

The storage and transport temperature zone shall be between -20 °C and +70 °C.

Humidity

The electronic meter shall operate under an average annual relative humidity of less than 75%.

For 30 days in total interspersed within the year, it shall operate under relative humidity of 75% to 95 %.

Additionally, at random moments within the day, it shall operate under relative humidity 85 % (IEC 62052).

3.2.4. REGULATIONS – SPECIFICATIONS

1. BS 7856 of 2013: Code of practice for design of alternating current watt-hour meters
2. DLMS/COSEM: IEC 62056 Device Language message Specification
3. IEC 62056-21: Electricity metering- Data exchange for meter reading tariff and load control
4. IEC 62052-11, Electricity Metering Equipment (AC) IEC 62053-21, Particular requirements static meters for active energy
5. IEC 62053-23: Electricity Metering Equipment
6. IEC 61968-9: Application integration at Electric Utilities
7. ISO 9001 Quality Management Systems.
8. NRS 049: Advanced metering infrastructure (AMI) requirements for Bi-directional smart metering system
9. NRS 071: Automated meter reading for large power users
10. NRS057-2: Code of practice for electricity metering.
11. NRS009-6-6:2002; NRS009-6-7:2002 and NRS009-6-9:1997: for STS requirements
12. NRS 049 shall apply for the purpose of meeting requirements of SANS 1521-1
13. SANS 473: Automated meter reading for large power users
14. SANS 1799:2004: Watt-hour meters-AC electronic meters for active energy SANS 1524-1: 9:
15. Electricity Metering Data Exchange SANS 1524-1: 2005:



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16. Electricity Payment System Part 1: Prepayment meters Standard Transfer Specification (STS): All prepaid meters must be STS compliant SANS 62052 part 11,
17. Electricity metering equipment (AC) –
18. General requirements, tests and test conditions SANS 62053 part 11,
19. Electricity metering equipment (AC) –Particular requirements: SANS 62053 part 21.

The electronic meters shall be industrial products manufactured according to International-European EN/IEC regulations / standards and to Rustenburg Local Municipality Technical Specifications as mentioned above, which are valid on the day of the bid's submission as well as on the day of installation and delivery.

Whenever the requirements of this Specification contradict with the above editions of International Regulations / Standards or any other relevant Standards, the corresponding Rustenburg Local Municipality specification shall prevail.

All necessary certificates for the above compliance, that should have been issued for the offered meters by a competent Notified Body, should be submitted.

The meters supplier shall submit a certificate that the meters are calibrated in facilities compliant with the ISO 9001 quality management standard as well as the ISO/IEC 17025.

3.2.5. MECHANICAL REQUIREMENTS

3.2.5.1 Cover

The electronic meter shall be designed and manufactured according to the protection class IP51 as specified in EN/IEC 60529 for indoor installation (but with the meter covers closed).

The cover window shall be made of a high purity transparent material, enabling the meter's readings to be easily read even after 15 years exposure to the sun.

The electronic meter cover shall contain an IR port which shall be accessible without breaking the seals for local reading and configuration.

The electronic meter shall have a modular communication unit (GSM/GPRS/PLC/RF, etc.). The communication unit shall be plug-in/modular on the front of the meter with the SIM card sealing provision in order to be replaced only by authorized personnel.



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The electronic meter must be delivered with its cover sealed or completely closed (glued).

In case that the meter is delivered with completely closed (glued) cover, every attempt to open it shall result in a broken box in a visible manner.

In case that the meter is delivered with sealed cover, if opened, an internal tamper alarm shall be triggered.

It shall be possible to perform the following tasks without unsealing the meter cover:

- Reading through the display and activation of functionalities using push buttons.
- Reading of the meter's characteristics (name table).
- Programming and reading of the electronic meter by a laptop computer or portable handheld unit, using the optical communication port.
- Manual reconnection of supply via a waterproof button (push button) mounted on the front cover. Note that it is intended that only authorized Rustenburg Local Municipality personnel would utilize this method, as the button is not generally accessible by the consumer.
- Check of measuring accuracy of active energy by a pulse signal from a LED located on the front meter cover.

3.2.5.2 Terminals and Terminal Cover

The terminals shall be able to connect stranded cable of:

- for single phase meter - minimum cross-section 4 mm² and maximum cross-section 25 mm²
- for three-phase meter - at least 35 mm².

The terminals shall be of front connection type and shall have lifted insulation separators in order to provide protection against accidental short-circuits between phase and neutral during the connection or disconnection of the meter.

Each terminal shall have at least two terminal screws for cable tightening in order to ensure proper electrical contact and no risk of temperature rise or conductor loosening under normal operating conditions.

The terminal's cover shall feature a tampering alarm and be sealed, so that any internal intervention to the terminals requires the breaking the cover seals with simultaneous activation of the alarm signal.



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3.2.5.3 Nameplate

The nameplate shall be designed and installed so that the following capabilities or information are provided:

- Rustenburg Local Municipality logo.
- The meter constant.
- The symbol for double insulation protection and the CE mark for conformance with EU regulations/standards.
- Meter information (including but not limited to meter type, serial number, nominal values / ratings, year of manufacture).
- The nominal values shall include nominal voltage, nominal current and maximum voltage.

3.2.5.4 Physical Requirement

The electronic meter shall be manufactured according to the requirements of DIN 43857-1 and DIN 43857-2. Alternatively, meters shall also support the BS7586 specification. This facilitates the meter installation inside meter boxes according to Rustenburg Local Municipality specifications.

3.2.6. METERING SYSTEM AND OPERATIONAL REQUIREMENTS

3.2.6.1 General

The metering system must be digital for direct connection to the network.

The meter must calculate at least the following metering quantities:

- Incoming – Outgoing active energy
- Incoming – Outgoing reactive energy
- Voltage and current
- Direction of energy flow

3.2.6.2 Accuracy

Direct connected electronic meters shall be of accuracy class 1.

CT connected electronic meters shall be of accuracy class 0.5S.

The electronic meter shall achieve the required accuracy for power measuring (W) according to SANS/EN/IEC 62053 and EN 50470.



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3.2.6.3 Operating Voltage Range

The meter shall be suitable for operation with nominal voltage 230 Volts and shall operate within a voltage range of 0.8 to 1.15 x U_n (where U_n is the nominal voltage).

3.2.6.4 Measured Voltage Range

Maximum current:

- for single phase and three phase direct connected meters shall be $I_{max} = 60A$ or 80A, 100A or 150 A for business connections limit.
- for three phase CT connected meters shall be $I_{max} = 5A$.

Basic current:

- for single phase and three phase direct connected meters value shall be $I_b = 5A$ or 10 A or 20A.
- for three phase CT connected meters shall be $I_{max} = 1A$ or 1.5A or least preferred 5A.

3.2.6.5 Load Capacity

The meter must withstand overload according to EN/IEC/SANS 62052-11, 62053-21, -22 and -23 and EN 50470.

3.2.6.6 Network Frequency

The electronic meter shall operate at a network frequency of 50 Hz and a variation zone of $\pm 2\%$.

3.2.6.7 Starting Current

The electronic meter for direct connection shall begin the energy measuring when the current reaches at least 0.5% of the nominal current I_n , according to EN 50470-3.

The electronic meter shall use the starting power instead of the starting current in order to define the starting threshold.



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3.2.6.8 Meter Power Supply

The meter shall be suitable for low voltage measuring, with nominal network voltage 230/400V ($\pm 10\%$, in accordance with SANS/EN/IEC 62053-22 and SANS/EN/IEC 62053-11).

The electronic meter shall be able to operate in each of the following cases of power failure, with the accuracy that characterizes the corresponding voltage asymmetry:

- Neutral loss
- Phase(s) loss
- Neutral/Phase inversion

Upon voltage restoration, the meter must return to normal operation in 5 seconds at maximum.

The electronic meter must be consistent with SANS/EN/IEC 62053, EN 50470 with regard to the overload and over-current requirements.

There shall be a battery and a supercapacitor in the Meter to maintain the real time clock and calendar and store the data to non-volatile memory during the period of supply failure.

The battery shall provide a total support time for not less than 15 (fifteen) years in shelf and/or in operation.

3.2.6.9 Meter self-consumption

The energy consumption shall be according to SANS/EN / IEC 62052-11, EN/IEC 62053/21-22-23 for multifunctional meters.

Without the communications unit and the display backlighting, the energy self-consumption shall not exceed the values specified in SANS/EN/IEC 62052-11 & EN/IEC 62053/21-22-23.

3.2.6.10 Auxiliary Supply (Clock autonomy)

The auxiliary supply shall provide power only to the real time clock (R.T.C).

The meter shall be capable for operation of the internal clock (R.T.C) for three years at least without the meter being connected to the network.

The billing values of the meter must be preserved in the meter memory for at least ten (10) years.



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3.2.7. REGISTERS

3.2.7.1 Energy Register

The meter shall feature at least eight (8) tariff zones with the corresponding incoming and outgoing energy registers.

3.2.7.2 Historical data register

The control of the integration period shall be performed by the internal calendar clock of the meter.

Integration period duration shall be programmable from 5 to 60 minutes (15, 30 and 60).

3.2.7.3 Instantaneous information

The registers for the measured quantities shall be updated at least every second.

This information shall be available to be shown on the display or to be registered as events.

3.2.7.4 Diagnostic functions

The electronic meter shall perform a diagnostic check of its circuits each time it is placed under voltage, after every voltage outage and at regular time intervals.

In case an error is detected, a corresponding failure message, which can be read locally and remotely, shall be also displayed on the meter display.

3.2.7.5 Definition of Tariff Zones

The definition of the meter's tariff zones shall be performed through appropriate meter programming.

The tariff zone switching shall be performed through the internal time switch.

3.2.7.6 Time Switch / Calendars

The meter must be equipped with a calendar time switch for changing tariff zones and determine the end of the billing period.

The clock mechanism shall be high precision Quartz (<5 ppm deviation $\pm 20\%$).



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3.2.7.7 Real Time Clock (RTC)

The clock shall provide all required timings for the proper operation of the meters.

The calendar shall support leap years and automatic daylight-saving time adjustment according to the European standard.

When synchronization is performed by internal crystal, the achieved accuracy shall be greater than 5 ppm (deviation $\pm 20\%$).

The meter shall be capable for synchronization with telemetering system.

3.2.8. DISPLAY

The display shall be able to show information from the energy registers and information from the historical registers, which have been defined through programming.

The information shall be read based on CENELEC methods and standards. The decimal digits, the units, the multipliers, the content and the display sequence shall be defined through programming.

Similarly, the list content and the display sequence shall be defined through programming.

The meter display must be visible from a distance of 1m below and 0.75m horizontally from the front side of the meter (observation angle 30°). All screens shall be visible under low lighting conditions.

The meter shall support the following operation modes of the display:

- Normal (automatic scrolling of displayed information)
- Technical Check (Programming - Set mode)

Display Reading:

The meter shall store in its memory and shall be programmable which of the following information shall be shown on the display:

- Units: kW, kWh, Kvarh, V, A
- Meter serial number (up to 12 digits)
- Current date and time
- Active tariff zone / calendar information



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- Status of the load switch
- Error indication
- Covers tampering indications
- Communication link status indication

3.2.9. LOAD SWITCH (only for direct connected meters)

The load switch shall not require maintenance throughout the meter's lifecycle. The load switch must have a lifecycle of at least 20,000 switching operations under nominal load with unit power factor.

The load switch shall be adjustable relative to the power of the customer's supply.

The load switching capability shall be according to SANS/IEC 62055-31 UC2 and SANS 1524. Proof of testing must be supplied

During a power outage, the load switch must be kept in the same position as before the power outage. After power restoration, the load switch must be kept in the same position as before the power outage.

The state of the disconnection switch shall be remotely readable, and any change must be registered in a special file (log file).

Load Curtailment: The meter shall permit remote setting of load limits.

The meter shall support a Monitor Supply (auto-off) function such that if the measured exported active power is above a programmable level after receiving the Monitor Supply command, the supply contactor will automatically switch to the Off state (open position).

3.2.10. COMMUNICATION

The electronic meter shall have a modular communication unit (GSM/GPRS/PLC/RF, etc.). The communication unit shall be plug-in/modular on the front of the meter with the SIM card sealing provision in order to be replaced only by authorized personnel without removing.

The electronic meter shall be capable of communicating via PLC/RF/GPRS communication module for telemetering – parameterization.



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Access to the modem (e.g. for testing, replacement, SIM card replacement, etc.) shall be secured with sealing, but without requiring the opening of the main meter cover or violation of the metrological meter sealing.

The electronic meter shall be equipped with a communication port RS485.

Following the installation of the communication unit, the meter shall have at least one free (available for connection) RS485 communication port.

The communication unit shall be powered directly from the meter, without any external power supply.

The meter shall be compatible with the communication protocol DLMS/COSEM (Application Protocol) EN / IEC 62056.

The meter manufacturer shall submit the codes of the objects used (according to DLMS/COSEM), together with the meter technical data.

All above must be documented by compliance certification according to DLMS

The electronic meter shall feature a communication port through an optical head. The communication port shall be infrared type (IR-Port).

The communication protocol of the IR-Port shall be in accordance with EN 62056-21:2002.

The optical head shall be read using a portable handheld device or PC/laptop.

It shall be possible to use the DLMS/COSEM for communication with the meter through every channel, like the optical head port, or the communication port.

The communication interface shall support communication with data transfer rate from 2.400 – 19.200bps at least.

The communication port shall be capable to support serial communication of a group of meters, when a MODEM is installed in one of these meters (named head meter) and the rest of the meters shall be in series connected with the head meter using the RS485 port, with appropriate addressing, and be capable for telemetry.

The RS485 communication port shall be in a protected point of the meter, not accessible by unauthorized personnel. Access to the communication port must be protected with a tampering event logging feature.

3.2.11. ELECTROMAGNETIC COMPATIBILITY (EMC)

The meter shall comply with the following standards:



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- Electrostatic discharge according to IEC 61000-42
- High frequency electromagnetic field according to IEC 61000-4-4
- Line transients according to IEC 61000-4-4
- Radio interference attenuation according to IEC/CISPR22 class B

3.2.12. HARMONIC DISTORTION 2-150 KHZ

The offered meter should satisfy tests regarding its tolerance to the influence of symmetric high frequency currents (range 2kHz - 150kHz), such as those produced by photovoltaic inverters.

Successful test results of the offered meter should be proved by the respective test certificate or test protocol issued by an accredited and certified by EN ISO / IEC 17025: 2005 test laboratory.

Meters must comply with the Test Procedure as defined in the technical report of CENELEC CLC / TR 50579 or in EN 50470.

3.2.13. ENERGY PROFILES RECORDING

Meters must be capable of load profiles recording for at least incoming and outgoing active energy.

For integration period of 15 min, load profile data shall be stored for at least the last sixty (60) days.

Internal memory shall be non-volatile for a minimum preservation time of 10 years.

3.2.14. TAMPERING EVENT LOGGING

The meter shall have the capability of detecting and logging at least the following events of potential attempt for tampering the meter. Each event shall be saved in the meter and be available for local and remote read.

- strong DC magnetic field influence
- terminals cover removal - shall be recorded even during outage
- tampering/ any form of removal of the meter cover
- communication module disconnection

The electronic meter shall employ access passwords to restrict the access to the meter for data reading, parameterization, etc.



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3.2.15. POWER QUALITY MONITORING

The meter shall have the capability of logging at least the following events (each event type individually), by logging the time (date and time) of appearance and disappearance of each event:

- under-voltage (phase to neutral)
- over-voltage (phase to neutral)
- over-current
- power-down
- power-up

3.2.16. METER HEALTH MONITORING

The meter shall have the capability to detect and log the following events:

- Battery low
- Meter error malfunction code
- Meter reprogrammed status/feedback
- Load control switch state change

3.2.17. TESTS

3.2.17.1. Type Tests

All tests intended to identify the type characteristics of the meter in order to prove the compliance with the requirements of the relevant standards/regulations that these characteristics are required to comply with. Applicable standards are:

- SANS 62052 part 11, Electricity metering equipment (AC) - General requirements, tests and test conditions

3.2.19. METERS PARAMETERISATION

The meters shall be delivered programmed with the parameterization that will be proposed and agreed by Rustenburg Local Municipality, during the sample approval procedure, before the starting of the series production of the meters.

The meters shall be delivered with the real-time clock (RTC) programmed at the local time in South Africa.



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3.2.20. GUARANTEE

The meters shall be accompanied by two (2) years warranty from their delivery date.

3.2.21. SPARE PARTS

The suppliers shall guarantee the availability of spare parts for a period of 5 years after the end of the warranty period.

The suppliers are required to submit, together with their bid, a price list for the necessary spare parts.

3.2.23. OPERATING INSTRUCTIONS

Bidders shall submit in their offers, the operating instructions manual of the meters.

3.2.24. PACKING

The meters shall be placed, carefully packed, inside protective cardboard boxes.

The cardboard boxes shall be placed on pallets to facilitate transport.

These boxes shall be externally and indelibly marked with the Contract number, the material Code and the Manufacturer's Data.

3.3 Data Concentrator/Gateway Units (DCU)

The Data Concentrator Unit shall have two main functions: DT metering and gateway for communication of data between the Smart Meters and the HES.

The DCU/Gateway shall collect information from the Smart Meter on a scheduled / need basis. There shall be an internal memory to store the data, which can be accessed by HES for onward transfer to MDMS. DCU shall exchange data from smart meters via RF and PLC communication and with HES via WAN.

DCU/Gateway shall use redundancy for meter communication of PLC and RF; switching between both shall be seamless.

Each DCU/Gateway shall communicate with at least of 2000 meters/nodes up to a distance of at least 1km.

DCU/Gateway shall measure the bulk supply of the of the DT for the daily loss calculation of each DT.



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DCU/Gateway shall have an internal CT meter with the following parameters:

- Reference (maximum) current = 1.5(6)A
- Reference Voltage = 3x230V/400V +-20%
- 2 LEDs for indication of Active and Reactive consumption
- Accuracy class 0.5.

3.3.1. HARDWARE & POWER SUPPLY OF DCU

Enclosure/box of DCU/Gateway shall be IP55 or better compliant. A suitable mounting arrangement required for DCU/Gateway installation shall also be provided.

A suitable and optimum power supply shall be provided keeping in view that even in case of outage in one, two phases, DCU/Gateway can be powered.

DCU/Gateway shall be capable of withstanding surges & voltage spikes of 6KV as per IEC 61000-4-5 standards. Power supply shall be terminated on suitable sized MCB to facilitate isolation during on-site maintenance.

DCU/Gateway shall have battery with backup for 5 minutes to allow “last gasp” information to be transmitted to the HES, advising on outage and load profile information allowing outage type and load analysis. DCU/Gateway shall have the suitable feature to send power outage and restoration message to the HES. The battery shall be a rechargeable device with a guaranteed life of minimum 10 years.

DCU/Gateway shall have built-in Real-Time Clock (RTC) with separate battery backup. The battery shall have a guaranteed life of minimum 10 years.

DCU/Gateway shall have self-diagnostic feature for RTC, memory, battery, communication module, etc. Alternatively, Software driven RTC may also be used as per agreement between supplier and Rustenburg Local Municipality.

3.3.2 CONFIGURATION, FUNCTIONALITY & INTERFACE OF DCU/GATEWAY

DCU/Gateway shall have following configuration functionalities:

- It shall be able to configure the communication with underlying nodes/meters.
- It shall pull data from the field devices and push the data at configured intervals to the HES.
- It shall also support the HES in pulling data from the field devices/meters. The data acquisition (Push/Pull) frequency shall be available. DCU/Gateway shall be capable to prioritize control commands.



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- DCU/Gateway shall ensure a secure communication to HES and shall have internal memory for storing interval data for at least 5 days.
- DCU/Gateway shall support on demand read and ping of individual/group of meters.
- DCU/Gateway shall support IPv4 / IPv6 network addressing.
- DCU/Gateway shall pull events like tamper, power off etc. to HES no later than 1 hour from occurrence/receipt from field devices/meters.
- DCU/Gateway shall be installed outdoor on poles in a box (minimum rating: IP-54). A suitable mounting provision shall be made.

Enclosure: Provision for security sealing shall be provided and in case the gasket of the cover is used for protection against moisture, dust and insects, the gasket shall be made of weather and aging resistant material.

The list of standards followed in all the devices/equipment used in communication network shall be furnished.

3.3.3 TESTING OF THE DCU/GATEWAY

DCU/Gateway shall be tested for the following:

- Radio interference measurement (CIS PR 22)
- Surge test (IEC 610004-5)
- Fast transient burst test (IEC 61000-4-4)
- Test of immunity to electrostatic discharges (IEC 61000-4-2)
- Test of immunity to electromagnetic HF field (IEC 61000-4-3)
- Resistance to heat and fire

3.4 Communication Infrastructure

The communication infrastructure shall either be based on combination of RF communication technology and PLC communication technology or on cellular network. The communication network shall be based on suitable standards from ITU/IEC/IEEE/CEN/ CENELEC/ ETSI for NAN and WAN network. Communication network shall provide reliable medium for two-way communication between smart meters & HES. RF based network shall use license free frequency band available in the country. The engagement of network service provider would be in the scope of the Bidder to meet the performance level as given in the document.

The Bidder shall design a reliable, interference free & robust communication network keeping in view the site conditions. It shall be flexible in terms of providing communication in variable terrain & urban density.



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The bidder shall design the network architecture keeping in view the existing and planned infrastructure of Rustenburg Local Municipality. During designing, suitable consideration shall be kept for future expansion as per requirement of the Rustenburg Local Municipality.

3.4.1 DCU/GATEWAY COMMUNICATION

The DCU/Gateway shall ensure the appropriate backhaul for secure transfer of data to HES. In case of GPRS/3G/4G backhaul, it shall support SIM card from any service provider.

The DCU/Gateway shall have Wide Area Network (WAN) connectivity to the HES through suitable means.

The DCU/Gateway shall be able to communicate with meters either on RF (license free band) or PLCC. Both communications shall be operating in parallel at the same time in all times, allowing full redundancy to meters/nodes.

DCU/Gateway shall periodically monitor meter reads/downstream commands and shall retry and reconnect in case of failed events/reads.

DCU/Gateway shall be able to acquire and send data to HES for full capacity (as per designed for no. of meters/field devices) to ensure the performance level.

After Power Interruption, on restoration of power supply, DCU/Gateway shall establish communication with underlying devices as well as upstream application automatically.

DCU/Gateway shall be able to communicate with the nearest meters depending on topographical features. For further communication among the meters, distance of the other meters with the DCU/Gateway shall not be a constraint as communication of the nearest meters shall be established with other meters through appropriate mesh formation / other formation.

Remote Firmware Upgrade: The DCU shall support remote firmware upgrades as well as remote configuration from the control centre. Configuration of programmable parameters of smart meters shall be done through HES.

When DCU/Gateway uses RF mesh type as communication network, different nodes (smart meters) shall interconnect with each other using RF mesh network and they shall communicate with nearby routers to transfer the data to access points. In such communication network, if any routers/repeaters/access points fail, then nodes connected on that device shall automatically reconfigure the mesh with available nearby nodes.



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3.5 Head End System (HES)

The main objective of HES is to acquire meter data automatically avoiding any human intervention and monitor parameters acquired from meters. The Bidder shall provide the HES suitable to support the collection and storage of data as per performance level for a defined no. of smart meters with facility of future expansion as per the requirement of Rustenburg Local Municipality.

HES shall perform all the requisite functions as per the defined functionalities of AMI and it is the responsibility of the Bidder to supply the requisite software and hardware to achieve the defined functionalities of AMI. HES shall ensure data integrity checks, for example, checksum, time check, overflow, etc. on all metered data. HES shall be developed on open platform based on distributed architecture for scalability without degradation of the performance using additional hardware. HES shall support storage of raw meter data, alarms and alerts for minimum 3 days. Adequate data base and security features for storage of data at HES need to be ensured.

The suggested functions of HES (not exhaustive) may be:

- Acquisition of meter data on demand & at user selectable periodicity
- Two-way communication with meter/ DCU (Gateway)
- Signals for connect & disconnect of switches present in end points like meter
- Audit trail and Event & Alarm Logging
- Encryption of data for secure communication
- Maintain time sync with DCU (Gateway)/ meter
- Store raw data for defined duration
- Handling of Control signals / event messages on priority
- Setting of Smart meter configurable parameters
- Communication device status and history

Configuration:

HES shall facilitate programming of following meter parameters:

- Load profile capture period
- Demand integration period
- Setting of parameters for time of day (TOD/TOU) billing
- Prepaid function with remote meter charging
- Net metering
- Billing date
- Clock setting/time synchronization
- Load curtailment limit
- Event setting for connect/disconnect
- Number of auto reconnection attempt
- Time interval between auto reconnection attempts
- Lock out period for relay



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Remote firmware upgrade
Password setting
Push schedule
Setting threshold limits for monitored parameters
Provision for adding more programming features in future
(The Bidder may suggest more parameters as per the requirement)

3.6 Meter Data Management System (MDMS)

The MDMS should connect to the Head-End system and make sure all data is received, validated and stored for analysis and reporting. The MDMS need to run permission and access authorization for different users. All activity over the MDMS should be logged and the software needs to manage tariffs, assets and setting alerts and notification. The MDMS must have the ability to send and receive real time commands and collect information from all meter devices under scheduled operation. Setting of meters, communication, Concentrators is an essential part of the day by day operation. Storage and archiving of data should be managed by the system. The MDMS need to issue reports and advice about the reading statistics.

The validation and estimation of metered data shall be based on standard estimation methods. The MDMS shall also support and maintain following data:

- Registered Read Data including register reads, daily billing cycle, as well as derived billing determinants like TOU
 - Interval Data channels with variable intervals and variable units of measure
 - Calculated Data that is derived or computed such as billing determinants and aggregated loads.
 - Event data storage of all collected event and alarm data from meters, network equipment, and MDMS itself
- MDMS shall flag, alarm and trigger an estimating process including but not limited to when the following anomalies occur in the cumulative ("CUM") register reads
- CUM Decrements within a billing cycle (except net-metering)
 - CUM reads increments more than configurable threshold
 - Future or old read dates
 - Number of digits exceeds number of meter dials

Revenue Enhancement System

RES shall be able to do the loss analysis – a comparison of consumption on different levels. Example: Bulk meter's (DT level) consumption comparison with summation of consumption of all slave meters.

A daily loss analysis will be done from feeder level to all Distribution Transformers (DTs) and from DT level to all customers. It will be possible to see the consumption of each customer for farther analysis of possible customer bypassing the meters.



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The loss analysis shall be presented as Kwh or percentage from total supply. Alert level value by percentage shall be set. Exceeding this value, will generate an alert to the designated staff in Rustenburg Local Municipality.

RES shall be able to analyse meter tampering flags, power outages, usage trends and usage profiles to identify potential energy diversion situations, and produce daily reports, monthly reports and service order requests for investigation.

The business rules for revenue protection alerts shall be configurable via a user-friendly interface. RES shall be able to filter out revenue protection alerts that may be caused by field activities if the field activity information is provided from the field via WFA.

RES shall be able to support the analytics/investigation (i.e. view current and historical usage patterns) to valid suspected revenue protection issues.

3.7 Delivering Revenue Security

Securing the revenue from the various services that the Municipality provides to its citizens in a timely and accurate manner is fundamental to keeping its strong financial position. Advanced, multi-layer, anti-fraud protection system is to provide real time tampering prevention and loss analysis on the meter level and on the grid, level delivering full transparency of losses in the grid no matter where they are generated. This project is designed to implement a technology software platform that establishes an equitable and dependable smart prepaid electricity metering data management system that is highly accessible and simple to use.

Capabilities for detecting unmetered consumption for identifying losses is the most critical element with regard to identifying electricity theft. By analysing the "CT meter" inbuilt in the DCU at the distribution transformer and measuring the consumption of branches or specific loads in the tree below, the system performs a comparison between the sum meter and the branch/load meters sum. If the sum meter measurement is greater than the sum of the downstream meter's measurements, it creates an alert of suspected illegal load.

Operationally, the functional requirements have been designed to support the following Electricity Consumer prepayment experience.

The Electricity Consumer will be able to access multiple vending channels where they can pay for their prepaid electricity. These channels will include a network of Point of Sale Mobile Vending Terminals, mobile money, PC-Based Vending Terminals. The vending management system will handle the generation of STS tokens, reconciles transactions and produces reports.



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The MDMS should know how much credit has been applied to the customer. The Municipality will set default parameters so that it will trigger a series of alarms when the available credit reaches a set of threshold levels (kilowatt hours before credit runs out). The remaining credit balance can be sent by SMS and/or email to the electricity consumer and displayed via the customer portal.

Based upon this, the Electricity Consumer should be fully aware of their consumption and level of credit, so they will be able to make an informed decision and plan:

- How to manage their remaining credit (i.e. reduce consumption if they do not have sufficient funds to reload credit immediately)
- When to reload credit onto their asset.

The Solution operating model therefore ensures that:

- The Electricity Consumer has multiple channels to select from to actuate payment
- The Electricity Consumer will have real time information available to them on how much credit they have remaining
- A system of alarms will advise Electricity Consumers if their credit has fallen below a threshold value (analogous to a 'low fuel' warning light in car)
- The Electricity Consumer can make an informed decision on when and how to make a payment ensuring an uninterrupted supply of electricity.

3.8 Protecting Grid Assets and Responding to Peak Power loads

The Solution should support several intelligent elements which gathers and analyses information in real-time in the grid in order to determine whether the grid is at risk by high demand at certain points (domestic consumer, industrial consumer, city, entire grid), if instability may affect the grid in the future (such as renewable energy and electric vehicle charging), or if there is shortage of supply.

The system should enable transformer load management, protecting the distribution transformers from overloading. The DCU with inbuilt CT metering capability shall be placed at the transformer and the CT meter allows the metering of the electricity supplied from the substation / transformer and is reconciled against the maximum capacity for this substation / transformer. This is a critical function enabling load management and warning of transformer overload.

The system should support load control devices installed in consumer premises to limit the use of auxiliary customer equipment (hot water heaters, air conditioners, swimming pool pump, etc.) during peak energy periods.



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The solution should support monitoring for rapid response to peak demand.

The Demand Side Management (DSM) should offer load management for all MV and LV consumers performing peak levelling, peak shaving and load management.

3.9 Real time Solution

Provision for reliable and efficient bidirectional communication with the smart meter assets enabling real-time monitoring and control.

3.10 Compliance with Quality Assurance Standards

The solution must be developed by a vendor certified to ISO 9001 and ISO 27001, to assure quality.

3.11 Cyber Security

The solution must be fully secure and designed with fail-safe systems to ensure the system's availability and zero loss of data.

Secure Access Controls: The system shall include mechanisms for defining and controlling user access to the operating system environment and applications. Best practices from enterprise security including password strength, password aging, password history, reuse prevention etc. must be followed for access control.

Authorization Controls: A least-privilege concept such that users are only allowed to use or access functions for which they have been given authorization shall be available.

Logging: Logs must be maintained for all attempts to log on (both successful and unsuccessful), any privilege change requests (both successful and unsuccessful), user actions affecting security (such as password changes), attempts to perform actions not authorized by the authorization controls, all configuration changes etc. Additionally, the access to such logs must be controlled in accordance to the least-privilege concept mentioned above, so that entries may not be deleted, accidentally or maliciously.

Hardening: All unnecessary packages must be removed and/or disabled from the system. Additionally, all unused operating system services and unused networking ports must be disabled or blocked. Only secure maintenance access shall be permitted, and all known insecure protocols shall be disabled.



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Malicious Software Prevention: Implementation of anti-virus software and other malicious software prevention tools shall be supported for all applications, servers, data bases etc.

Network Security: The network architecture of the HES must be secure with support for firewalls and encryption. The system shall also allow host-based firewalls to be configured, as an additional layer of security if the network firewall were to fail.

3.12 Scalable Solution

The system should support high-volume meter data to scale-up as the Municipality deploys increasing quantity of smart meters.

The solution should be expandable to support additional applications such as load limitation (demand response), outage management, transformer load management, etc. The system shall also support the possible future integration of water and gas metering.

The smart meters must provide a modular communications approach which feature a hot swappable, field replaceable, communications module enabling plug-and-play flexibility of any communications, such as PLC, RF, GPRS or LAN without dismantling the meter. It provides freedom of choice to the Municipality to incorporate new communications technologies that will be introduced and a variety of communication modules in each zone.

Usage of redundant communication assures 100% success bi-directional communication rate within 5 seconds. The communication has the option for PLC+RF (dual) or PLC +GPRS/3G/4G. Reliable bi-directional communication enables smart meters to relay critical information for network and for meters in the field. This is critical for applications such as loss analysis, tampering alarms, outage notification, peak load management, remote loading of credit, etc.

3.13 Efficient Consumer Engagement

A self-service customer portal should provide the consumer with access to consumption and cost data (in user selected intervals and a variety of forms including export) to verify usage charges as well as provide analysis to justify energy savings projects. Each Electricity consumer is assigned a password-protected account accessible via internet to view consumption related data and graphs. In addition, the system supports the functionality of users to have password resets, export data, view past bills, receive messages from the Municipality.



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3.14 Interoperable Solution

The system should feature open architecture/protocol standards allowing for integration of third-party manufactured equipment into the system and integration with ERP and billing software.

The Head-End system and Meter Data management should have been integrated to different meter providers.

The Vending Management System should be able to issue tokens to various of meter brands using STS protocol. The system should be successfully integrated into different third-party vending companies.

3.15 Integration of Renewable Generation

In the future (or during the lifecycle of this project), it is likely that Electricity Consumers will have their own forms of power generation (e.g. solar). It will therefore be necessary to measure the power supplied to the Grid as well as power consumed.

3.16 Implementation of Advanced Tariff Structures

An essential task of the system is the application of remotely modifiable tariff structures such as Time of Use (TOU), and block/step tariffs, which may be assigned on an individual or customer type basis. The Municipality should also have the ability to implement a combination of time of use (TOU) and block/step-incline tariffs.

3.17 Meter Installation

A Field Services Terminal (FST) is a hand-held unit (HHU) running an application for streamlining the meter deployment process, reading and writing data with the meters and concentrators, as well as collecting GIS locations enabling deployment of Asset Management System, OMS, DSM etc.

The FST shall be android based device with at least following technical features:

- GSM compatible for local market
- Slot for SIM-card
- Wi-Fi
- Compatible IR port
- Barcode scanner
- GPS tracker, accuracy not less than 5 meters
- Bright display to be able to clearly view under direct sunlight
- LED for flashlight
- Camera
- Internal rechargeable battery to keep alive for at least 48 hours



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The FST shall have an application for local reading and configuration via IR port.

The FST shall be able to transmit the collected data from the meter, as well as GIS data to MDMS via cellular network or when connected to Wi-Fi.

The application shall be integrated with all relevant “SG Applications” like MDMS, AMS, WFA etc.

3.18 Outage Management System (OMS)

Ensuring reliable services that the Municipality provides to its citizens in a timely manner is of fundamental importance to all stakeholders. Advanced, multi-layer, monitoring system is to provide near real time outage information delivering full transparency of outages in the grid no matter where they are generated. This project is designed to implement a technology platform that establishes an equitable and dependable OMS that is highly accessible and simple to use.

The Outage Management System (OMS) is expected to deliver capabilities for monitoring power outages by interfacing smart metering assets with remote communications to an outage management application suite delivering near-real time granular data on outages for each sub-station and feeder delivering improved Municipality operational performance with reliability, and efficiency. Fundamental to success is the combination of high-performance database, user-friendly systems and advanced smart meters, enabling increased network visibility, optimized efficiency, and substantially improving the management of the medium and low voltage power networks.

The OMS shall automatically monitor and report levels of service by outages, providing relevant information to stakeholders (Municipality personnel, consumers, media and regulators) on the state of the restoration process and automatically identifying equipment and customers affected by outages. The OMS will generate intuitive reporting, introducing reporting data visually in chart format of outage information, as well as exporting this data for further analysis.

The outage definition shall be divided by types:

Spike outage – a short time power outage. The period shall be selectable by OMS user and is usually less than 30 seconds.

“Normal” outage – any other outage that is longer than the Spike outage.

Loss of phase– a situation when one or two phases are lost.

The OMS shall have a provision to notify the customers about the planned outages.



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The OMS shall automatically identify equipment and customers affected by outages; monitor levels of service by outages and shall provide reports to relevant stakeholders on the state of the restoration process. The OMS shall also be able to calculate System Average Interruption Duration Index (SAIDI) and System Average Interruption Frequency Index (SAIFI).

The OMS together with WFA shall manage the status of crew assignments to the outages and monitor the state of the restoration activities. When the maintenance teams are on-site, the OMS shall inform the maintenance team that a specific switchgear of a particular feeder is disconnected and validate that the power is off to safely and efficiently manage emergency-related work.

3.19 Rustenburg Local Municipality Asset Data Management System (AMS)

The Bidder shall provide an Asset Data Management System (AMS) which will allow to enter all Rustenburg Local Municipality assets from the Sub-Station up to each customer. The system shall allow capturing of the geographical data with other parameters (defined for each asset). This data shall be captured from a Field Service Terminals operated by designated asset auditing team. The capture of the data shall be automatically transferred to the AMS system. A list of all assets, including parameters is described below.

Massive amounts of location data and parameters shall be available in the system which can produce meaningful knowledge by selecting configurable elements to visualize on a map.

The module shall provide the users with the tools to perform a more user-friendly visualization of all Rustenburg Local Municipality assets.

3.20 Demand Side Management (DSM)

This module shall detect overload on the feeder and on the transformer levels.

The DSM shall be able to broadcast a command to meters to activate the critical mode for specified time period.

The critical mode shall have 3 values that must be configured within the meter; and these values can be different for each meter:

Critical Threshold value (kWh) – temporary Load limit value.

Critical Threshold Exceed Time – if the meter has a load above the threshold level for this amount of time, the relay will disconnect

Relay OFF time – time for reconnection



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3.21 Vending Management (VMS)

The method of credit transfer shall be through encrypted numeric tokens complying with the 20-digit STS encryption algorithms. The meters shall include a load switch for the purpose of interruption or restoration of the electricity supply to the load in accordance with the current value of the available credit maintained in the prepayment meter.

The prepayment functionality logic shall be managed within the meter by decreasing the balance and automatic disconnection once the balance reaches "0" (zero).

The VMS shall allow remote charging, when the token is sent directly to the meter via available communication technology once the prepayment token is issued.

The Bidder shall ensure that the proposed system shall be capable of sending a notification to Electricity Consumers when their balance approaches a configurable threshold. As the account balance approaches zero, the MDMS system initiates a message to the Consumer and sends it via a configurable communications method, as a minimum text message, and email.

The system should support issue Token to any meter manufacture supporting STS smart and not smart. The Bidder should offer a Pay account option for additional Payments services as water/ taxes/ fees etc. The system should support import of Nedisys meter configuration files. The system should manage arrears and debt collection according to set of rules, such as: fixed price, percentage, step bundle, etc. The Bidder shall show that the system has been integrated with at least one mSCOA approved ERP Billing System. The VMS must comply with XMLVend 2.1 and support all possible engineering token as per the STS standard. The system should be capable of credit management of third-party vendors with real time notifications of declining credit balances at predetermined thresholds. The bidder must demonstrate that the system has been integrated with at least three major third party vendors as proof of compliance with XMLVend 2.1.

The bidder must improve experience with installing, setting-up and vending using at least the following Prism security modules: TSM250, TSM500i. The VMS should support at least one method of token cancelation and transaction reversal.

The system should track, monitor, and prevent ghost vending.

The VMS is a comprehensive point of sale prepaid token vending platform supporting a wide range of payment options such as mobile money, scratch-cards, internet, and point of sale mobile terminals. It shall include a web-based user interface (accessible from any client through browser).

The VMS shall offer integration with existing meters and vending providers, as well as with other related systems like MDMS, DBS, ERP, CSM supporting STS encryption algorithm. The bidder must submit an STS certificate for the vending platform. The VMS shall be able to issue tokens for any STS compatible prepaid meter.



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The VMS shall provide flexibility for the Rustenburg Local Municipality to send a remote command through the MDMS to switch the smart meter between post-payment and pre-payment mode.

User management

The VMS must have the provision to register user groups by function. It must be possible for the administrator to assign permissions to each user group. All user activities must be monitored on the system and an audit trail must be available on the database. Users may be allowed to belong to more than one group. It must be possible to

The architecture of the VMS shall make provision for a hierarchical approach of administering the system according to the following levels:

- Administrator Access (full system access).
- Municipality- (Access to specific, pre-defined functions).
- Class of vendor e.g. multiple internal vending office/third party vendor/
- Vending office e.g. cashiers

Tariff management

The VMS shall be able to issue a token evaluated in Kwh.

The VMS shall be able to manage different types of tariffs, such as step, single or their combinations.

The VMS shall allow fixed periodical fees that can be charged with the first vending transaction.

Third party vending (outsourcing)

The VMS shall allow outsourcing vending, when third party is buying credit from Rustenburg Local Municipality with a discount in bulk and resell it to consumers on a regular rate.

Debt collection

The VMS shall have a debt collection capability with configurable percentage paid for debt from each purchase.

Reporting

The VMS shall have standard reporting feature. Minimum reports to include:

- Sales/transactions
- Debt collection report
- Retailer credit report



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Sales report shall be presented in a graphical view with definable time period.

Sales report shall have at least the following data:

Date and time of purchase
Related meter number
Cashier's name
Amount paid
Number of units sold

It shall be able to export all reports at least to the following file formats:

CSV
XLS
PDF
RTF

Mobile Point of Sale (POS) Terminal

The bidder shall offer a standalone POS device designed for use over cellular communication networks and Wi-Fi for the selling of credit for prepayment meters.

The POS terminal shall enable Rustenburg Local Municipality to set up flexible vending points; ensure that are fully mobile, cost-effective and have automatic communications with the central Rustenburg Local Municipality Vending Database.

The POS terminal shall have at least the following functionality:

external power supply,
internal rechargeable battery,
integrated modem,
thermal printer for printing the STS token number,
large touch screen LCD
android based
be designed for use as a stationary and mobile device.

3.22 Customer Mobile Application (CMA)

This module is an Android based mobile application providing the customer an easy way to monitor his electricity related information and to access different services.

CMA minimum functionality shall be the following:

- Consumption information



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- Prepayment information
- Vending/payment of bills
- Remote meter charging
- Analytics and charts
- Energy calculator
- Rustenburg Local Municipality notifications
- Manual readings
- Customers reports and feedback (e.g. equipment malfunction)
- Rustenburg Local Municipality information (e.g. 'about', office nearby)

App shall also provide platform for implementation of peak load management functionality by providing existing tariff & incentives rates, participation options etc.

The CMA shall be integrated with all relevant modules, for example with OMS to notify about planned outages, with MDMS to collect consumption information, with VMS for prepayment information, etc.

4 List of Mandatory requirements and Bidder response

Expected Life Cycle

Prior to any submission please take note of the **Life Cycle of the Smart Grid Control Centre for Electricity Monitoring expected from Rustenburg Local Municipality (SCCEM)**

Life Cycle of the Smart Grid Control Centre for Electricity Monitoring Rustenburg Local Municipality (SCCEM)

Securing the revenue from the various services that the Municipality provides to its citizens in a timely and accurate manner is fundamental to keeping its strong financial position. Advanced, multi-layer, anti-fraud protection system is to provide real time tampering prevention and loss analysis on the meter level and on the grid level delivering full transparency of losses in the grid no matter where they are generated. This project is designed to implement a technology software platform that establishes an equitable and dependable smart prepaid electricity metering data management system that is highly accessible and simple to use.

Step 1 – Installation and commissioning of the smart meters, keypads and DCUs.

Step 2 – Commission of the Head End System (HES)

The main objective of the HES (Head End System) is to acquire meter data automatically avoiding any human intervention and monitor parameters acquired from meters. The HES (Head End System) shall ensure data integrity checks, for example, checksum, time check, overflow, etc. on all metered data.

The HES (Head End System) shall support storage of raw meter data, alarms and alerts for minimum 3 days. The suggested functions of HES (Head End System) (not exhaustive) may be:



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- Acquisition of meter data on demand & at user selectable periods
- Two-way communication with meter/ DCU (Gateway)
- Signals for connect & disconnect of switches present in end points like meter
- Audit trail and Event & Alarm Logging
- Encryption of data for secure communication
- Maintain time sync with DCU (Gateway)/ meter
- Store raw data for defined duration
- Handling of Control signals / event messages on priority
- Setting of Smart meter configurable parameters
- Communication device status and history
- The HES (Head End System) shall facilitate programming of following meter parameters:
 - Load profile capture period
 - Demand integration period
 - Setting of parameters for time of day (TOD/TOU) billing
 - Prepaid function with remote meter charging
 - Net metering
 - Billing date
 - Clock setting/time synchronization
 - Load curtailment limit
 - Event setting for connect/disconnect
 - Number of auto reconnection attempt
 - Time interval between auto reconnection attempts
 - Lock out period for relay
 - Remote firmware upgrade
 - Password setting
 - Push schedule

Step 3 – Commissioning of the Meter Data Management System (MDMS)

The MDMS (Meter Data Management System) is the primary tool of the SCCEM (Smart Grid Control Centre for Electricity Monitoring) and works with the Head-End system to make sure all data is received, validated and stored for analysis and reporting.

The MDMS needs to run permission and access authorization for different users in the SCCEM.

All activity over the MDMS will be logged and the software needs to manage tariffs, assets and setting alerts and notification.

The MDMS has the ability to send and receive real time commands and collect information from all meter devices under scheduled operation.



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Setting of meters, communication, Data Concentrators is an essential part of the day to day operation. Storage and archiving of data should be managed by the system.

The MDMS will provide the SCCEM with the following abilities:

- Analyse meter tampering flags, power outages, usage trends and usage profiles to identify potential energy diversion situations, and produce daily reports, monthly reports and service order requests for investigation.
- Display decrements within a billing cycle
- Reads increments more than configurable threshold
- Display a loss analysis – a comparison of consumption on different levels.
- **Example:** Bulk meter's (DT level) consumption comparison with summation of consumption of all slave meters.
- Display a daily loss analysis which will be done from feeder level to all Distribution Transformers (DTs) and from DT level to all customers. It will be possible to see the consumption of each customer for farther analysis of possible customer bypassing the meters. The loss analysis shall be presented as kWh or percentage from total supply. Alert level value by percentage shall be set. Exceeding this value, will generate an alert to the designated staff in the SCCEM
- The business rules for revenue protection alerts shall be configurable via a user friendly interface.
- Ability to filter out revenue protection alerts that may be caused by field activities if the field activity information is provided from the field.
- Support the analytics/investigation (i.e. view current and historical usage patterns) to valid suspected revenue protection issues.
- Capabilities for detecting unmetered consumption for identifying losses is the most critical element with regard to identifying electricity theft. By analysing the "CT meter" inbuilt in the DCU at the distribution transformer and measuring the consumption of branches or specific loads in the tree below, the system performs a comparison between the sum meter and the branch/load meters sum. If the sum meter measurement is greater than the sum of the downstream meter measurements, it creates an alert of suspected illegal load. The Solution should support several intelligent elements which gathers and analyses information in real time in the grid in order to determine whether the grid is at risk by high demand at certain points (domestic consumer, industrial consumer, city, entire grid), if instability may affect the grid in the future (such as renewable energy and electric vehicle charging), or if there is shortage of supply.
- o Protecting Grid Assets The system should enable transformer load management, protecting the distribution transformers from overloading. The DCU with inbuilt CT metering capability shall be placed at the transformer and the CT meter allows the metering of the electricity supplied from the substation / transformer and is reconciled against the maximum capacity for this substation / transformer. This is a critical function enabling load management and warning of transformer overload. The system should support load control devices installed in consumer premises to limit



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the use of auxiliary customer equipment (hot water heaters, air conditioners, swimming pool pump, etc.) during peak energy periods.

- Outage Management System (OMS) Ensuring reliable services that the Municipality provides to its citizens in a timely manner is of fundamental importance to all stakeholders. Advanced, multi-layer, monitoring system is to provide near real time outage information delivering full transparency of outages in the grid no matter where they are generated. This project is designed to implement a technology platform that establishes an equitable and dependable OMS that is highly accessible and simple to use.
- The Outage Management System (OMS) is expected to deliver capabilities for monitoring power outages by interfacing smart metering assets with remote communications to an outage management application suite delivering near-real time granular data on outages for each sub-station and feeder delivering improved Municipality operational performance with reliability, and efficiency.
- Fundamental to success is the combination of high-performance database, user friendly systems and advanced smart meters, enabling increased network visibility, optimized efficiency, and substantially improving the management of the medium and low voltage power networks.
- The OMS shall automatically monitor and report levels of service by outages, providing relevant information to stakeholders (Municipality personnel, consumers, media and regulators) on the state of the restoration process and automatically identifying equipment and customers affected by outages.
- The OMS will generate intuitive reporting, introducing reporting data visually in chart format of outage information, as well as exporting this data for further analysis.
- The OMS shall automatically identify equipment and customers affected by outages; monitor levels of service by outages and shall provide reports to relevant stakeholders on the state of the restoration process.
- The OMS shall also be able to calculate System Average Interruption Duration Index (SAIDI) and System Average Interruption Frequency Index (SAIFI).
- The OMS together with Field Management shall manage the status of crew assignments to the outages and monitor the state of the restoration activities. When the maintenance teams are onsite, the OMS shall inform the maintenance team that a specific switchgear of a particular feeder is disconnected and validate that the power is off to safely and efficiently manage emergency-related work.
- The Asset Data Management System (AMS).
- The AMS will allow you to enter all your assets from the Sub-Station up to each customer. The system shall allow capturing of the geographical data with other parameters (defined for each asset). This data shall be captured from a Field Service Terminals operated by designated asset auditing team. The capture of the data shall be automatically transferred to the AMS system. A list of all assets, including parameters is described below. Massive amounts of location data and parameters



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shall be available in the system which can produce meaningful knowledge by selecting configurable elements to visualize on a map.

- Demand Side Management (DSM) This module shall detect overload on the feeder and on the transformer levels. The DSM shall be able to broadcast a command to meters to activate the critical mode for a specified time period. The critical mode shall have 3 values that must be configured within the meter; and these values can be different for each meter:
- Critical Threshold value (kWh) – temporary Load limit value;
- Critical Threshold Exceed Time – if the meter has a load above the threshold level for this amount of time, the relay will disconnect
- Relay OFF time – time for reconnection
- Final Step – Provision of Training on the Full Solution

EVALUATION CRITERIA - FUNCTIONALITY

Proposals Shall be evaluated based on the 90/10 Point system and using the evaluation criteria:

- Experience (citing all similar projects undertaken with proof to be attached) – 30 points
- Methodology (clearly demonstrate the capability to undertake the project until completion with all necessary resources including a funding model) -50 points
- Timeframes (clear milestones and clear project implementation plan until completion) -20 points

All proposals with a minimum threshold of 50 points shall proceed to the next stage of evaluation on point system. Furthermore, presentation will be arranged for the qualifying proposals on dates to be communicated by the municipality and possible site demonstration on Service Provider's cost.

Life Cycle of the Smart Grid Control Centre for Electricity Monitoring febr 2020

5 List of Mandatory requirements and Bidder response

These requirements relate to the operational processes associated with the Meter Data Management Solution.

5.2 Smart Meters Requirements

5.2.5 Standards



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Error! Reference source not found.-2 Mandatory Requirement	A copy of all test certificates and details of tests performed and the approval certificates should be submitted with the tender response.
Bidder Response	
Error! Reference source not found.-4 Mandatory Requirement	The bidder shall prove conformance to IEC 14001:2005 and IEC27001.
Bidder Response	
Error! Reference source not found.-5 Mandatory Requirement	The Smart Meter producer shall be a member of the STSA and comply with the following STS prepayment standards: <ul style="list-style-type: none"> • IEC 62055-41, • IEC 62055-51
Bidder Response	



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5.2.6 Revenue Protection

These requirements relate to the hardware, the software and the operational processes associated with the Smart Meter Solution.

4.1.2-2 Mandatory Requirement	Alert notifications should be programmed into the system to send an automatic SMS or email to the designated Municipality personnel for each alarm type. The status of each alert should be managed within the MDMS.
Bidder Response	
4.1.2-3 Mandatory Requirement	<p>The Smart Meters should create and transfer an automatic alarm to the MDMS for the following suspected tamper attempts:</p> <ul style="list-style-type: none"> • Bypassing meter • Bypassing neutral • Inter-changing incoming and outgoing leads • Reversing the connections in one or two phases of 3 phase meters • Inter-changing phase and neutral and providing a local earth to act as neutral • Breaking of CT lead wires in one or two phases • Breaking seals and tampering with the recording mechanism, resetting the reading, etc. • Tapping off from the incoming lead wire • Any cover open (even when no power is applied to the meter) should be detected and stored. • Any terminal cover open (even when no power is applied to the meter) should be detected and stored. • Neutral tamper validation function comparing between the phase line and the neutral line. • Magnetic influence
Bidder Response	



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4.1.2-7 Mandatory Requirement	The Smart Meters should offer an option configurable in the MDMS to immediately disconnect the power to the Electricity Consumer upon an illegal Smart Meter terminal cover open being detected.
Bidder Response	
4.1.2-9 Mandatory Requirement	When the smart meter has no power and terminal cover is opened, the smart meter will detect and record the event and disconnect immediately power resumes.
Bidder Response	



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4.1.2-10 Mandatory Requirement	In the event that the communication module was removed, and the customer shorted the power pins, the meter will stay operational (short protection).
Bidder Response	
4.1.2-13 Mandatory Requirement	The calibration pins must not be accessible in the terminal block.
Bidder Response	



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5.2.7 Security

5.2.7-1 Mandatory Requirement	The Bidder shall ensure that access to the configurable elements of the Smart Meter software is restricted through a secure username and password system.
Bidder Response	
5.2.7-2 Mandatory Requirement	The Bidder is required to ensure that it is possible for administrators to restrict user permissions to match the jobs that individuals are required to do, and to create groups of users having the same set of user permissions. These permissions shall only allow users to access data and configurable items associated with their permission level. It shall be possible to create at least three permission levels (administrator plus two other levels).
Bidder Response	
5.2.7-3 Mandatory Requirement	The Bidder shall ensure that the system shall capture logs of user activities and user logins. The log shall specify the time the time of each activity.
Bidder Response	



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5.2.8 Prepayment and Vending

<p>5.2.8-1 Mandatory Requirement</p>	<p>When the Smart Meter accepts the prepayment token, the Smart Meter Back End System shall receive a confirmation from the Smart Meter via the two-way communication that the prepayment token has been successfully loaded.</p> <p>The MDMS shall then read the credit balance in that Smart Meter. With every increase in the kilowatt hour balance reported by each Smart Meter, the MDMS shall automatically verify with the billing system and vending management system (VMS) that this increase in credit balance is supported by a legal transaction.</p> <p>There should be an option to automatically send an SMS or email to the Electricity Consumer confirming that this process is complete.</p>



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<p>4.1.4-2 Mandatory Requirement</p>	<p>The Smart Meter shall be able to store credit payment information within the local Smart Meter memory and continue to measure consumption and deduct the associated credit balance in real time, even in the event that communications to the MDMS is lost. Once communications to the MDMS is restored, the Smart Meter shall have the capability to update the MDMS with the latest consumption information and credit balance.</p>
<p>Bidder Response</p>	
<p>4.1.4-3 Mandatory Requirement</p>	<p>The Smart Meters type specified within this RFP are split meter configurations. The Smart Meters communicate with the CIU (customer interface Unit) via PLC</p>
<p>Bidder Response</p>	
<p>4.1.4-4 Mandatory Requirement</p>	<p>The Bidder shall ensure that the Smart Meters accept payment tokens on the basis of currency and/or kWh.</p>
<p>Bidder Response</p>	
<p>4.1.4-5 Mandatory Requirement</p>	<p>All prepayment commands must be encrypted according to the STS standard.</p>
<p>Bidder Response</p>	



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4.1.4-9 Mandatory Requirement	The MDMS shall provide flexibility for Rustenburg Local Municipality to send a remote command through the MDMS to switch the smart meter between post-payment and pre-payment mode.
Bidder Response	
4.1.4-10 Mandatory Requirement	The MDMS Shall allow configuring multiple TOU/TOD options (e.g. the number and duration of TOU rate periods) by customer type, tariffs and day type (weekend, weekdays, and holidays) and by season.
Bidder Response	



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<p>4.1.4-11 Mandatory Requirement</p>	<p>The MDMS shall support the processing of interval data into billing determinants to include the following at a minimum:</p> <ul style="list-style-type: none">• Total Consumption• Consumption in different time blocks for ToU billing• Maximum Demand (in kW and kVA)• Number of tamper counts• Average power factor
<p>Bidder Response</p>	



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5.2.9 Demand Response

<p>5.2.9-1 Mandatory Requirement</p>	<p>For peak load management, the Smart Meter shall provide a facility to limit the Electricity Consumer's total load to a configurable current. Above this limit, supply to the Electricity Consumer shall be interrupted after a pre-configurable delay period.</p> <p>This load limit should be able to be defined for each individual Smart Meter or group of consumers.</p>
<p>4.1.5-3 Mandatory Requirement</p>	<p>Each Smart Meter shall have a remotely programmable normal load threshold limit, which can be set remotely from the MDMS. These settings in the Smart Meters, protect the circuit breakers belonging to the Municipality. If demand exceeds a certain level (i.e. 100 amps) automatic disconnection occurs with automatic reconnection.</p>
<p>Bidder Response</p>	
<p>4.1.5-4 Mandatory Requirement</p>	<p>Controlled load management shall be remotely settable for each Smart Meter individually, or for groups of Smart Meters.</p>



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5.2.10 Architecture

5.2.10-1 Respond	The Bidder is requested to provide a schematic drawing of their proposed solution architecture.
Bidder Response	



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5.2.11 Smart Meters – Functional Requirements

<p>5.2.11-1 Mandatory Requirement</p>	<p>The Bidder shall ensure that the proposed Smart Meters shall support a full range of time-of-use (TOU) tariff options. At a minimum: 4 tariffs, 2 sets of tariff and table structures. Each table includes at least 2 time zones per year, 8 possible tier switches per day, with holiday, weekend, Saturday and Sunday schedules.</p>
<p>Bidder Response</p>	
<p>4.1.15-2 Mandatory Requirement</p>	<p>The Bidder shall ensure that the proposed Smart Meters supports a combination of TOU and Step Inclined Tariff.</p>
<p>Bidder Response</p>	
<p>4.1.15-3 Mandatory Requirement</p>	<p>Smart Meters shall be capable of being remotely configured for maximum load, tariff tables, time and date synchronization, LCD view.</p>
<p>Bidder Response</p>	
<p>4.1.15-4 Mandatory Requirement</p>	<p>The Bidder shall ensure that the proposed Smart Meters shall send load profile data including positive and reverse active energy, current, voltage, frequency, and power factor to MDMS on a regular basis according to pre-defined configurable schedule.</p>
<p>Bidder Response</p>	
<p>4.1.15-5 Mandatory Requirement</p>	<p>The Bidder shall ensure that the proposed Smart Meters shall support on-demand ad hoc requests from the MDMS for Smart Meter data.</p>
<p>Bidder Response</p>	
<p>4.1.15-6 Mandatory Requirement</p>	<p>The Bidder shall ensure that their proposed Smart Meters shall provide an accurate time stamp for each Smart Meter reading.</p>



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Bidder Response	
4.1.15-7 Mandatory Requirement	Both single phase and three phase Smart Meters shall record active and reactive energy in all four quadrants.
Bidder Response	
4.1.15-8 Mandatory Requirement	The Bidder shall ensure that manual Smart Meter reading shall be possible if communication is lost with the Smart Meter.
Bidder Response	
4.1.15-9 Mandatory Requirement	The Bidder shall ensure that their proposed Smart Meters shall detect and record Smart Meter alarms and events (including tampering, power quality, power outages, and phase failures, etc.) and shall provide near real time reporting of those alarms and events to the MDMS.
Bidder Response	
4.1.15-10 Mandatory Requirement	The Bidder shall ensure that their proposed Smart Meters shall collect and report basic power quality information, at a minimum: over-current, power outages, per phase voltage and current, average power factor, line frequency etc.
Bidder Response	
4.1.15-11 Mandatory Requirement	The meter shall have the capability to detect and log the following events: <ul style="list-style-type: none"> • Battery low • Meter error malfunction code • Meter reprogrammed status/feedback • Load control switch state change
Bidder Response	



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5.2.12 Data storage and memory

4.1.16-2 Mandatory Requirement	The Smart Meter shall be capable of storing the event and alarm data that would be generated in a typical period of 120 days.
Bidder Response	
4.1.16-3 Mandatory Requirement	All data and events shall be date and time stamped at the Smart Meter with a resolution of 1 minute or better.
Bidder Response	
4.1.16-4 Mandatory Requirement	During loss of power, the Smart Meter memory shall have a minimum retention time equal to the operational design life of the Smart Meter over the specified temperature range.
Bidder Response	
4.1.16-6 Mandatory Requirement	All data held in Smart Meter memory shall be accessible, both locally and remotely, by authorised personnel.
Bidder Response	



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5.2.13 Communication with Smart Meters

Bi-directional communication is required between the MDMS and the installed base of Smart Meters. Furthermore, communications technologies tend to have a shorter working life than Smart Meters, so provision must be made for upgrading the communication technology during the life of the Smart Meters.

5.2.13-1 Mandatory Requirement	All Smart Meters shall support bi-directional communication with the MDMS.
Bidder Response	
4.1.18-2 Mandatory Requirement	Smart Meters shall respond to commands from the MDMS in near real time (less than 10 seconds).
Bidder Response	
4.1.18-3 Mandatory Requirement	Smart Meters shall support a range of different communication options including, but not limited to: Power Line Communication, serial RS485, mobile data (dual standard GPRS/3G), and Ethernet. The Bidder shall detail which communications options are available for each type of Smart Meters proposed.
Bidder Response	
4.1.18-4 Mandatory Requirement	The RS485 communication interface should include at least 4 digital outputs, isolated from all other meter circuits with fail-safe circuitry able to withstand AC 230V for 2 minutes without damage.
Bidder Response	



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<p>4.1.18-5 Mandatory Requirement</p>	<p>The Smart Meters should feature a hot swappable, field replaceable, plug-in communications module inside the Smart Meter casing enabling plug-and-play flexibility with the options of PLC, RF, GPRS and LAN communications, without dismantling the meter and without the need to upgrade the Smart Meter firmware. It should be possible for authorised personnel to remove and replace communications modules contained within the Smart Meter without de-energising the Smart Meter.</p>
<p>Bidder Response</p>	
<p>4.1.18-7 Mandatory Requirement</p>	<p>The Bidder shall guarantee PLC and communication achieves two-way communications between the Smart Meter and the concentrator over a distance of at least 1.5 kilometres through the electricity wires (aluminium / copper).</p>
<p>Bidder Response</p>	
<p>4.1.18-8 Mandatory Requirement</p>	<p>The Bidder shall guarantee PLC/RF communication reliability of at least 99% first time correct data reception over any Municipality power line (<1% data packets requiring retransmission due to data corruption). In addition, the Bidder shall guarantee PLC/RF communication reliability of hourly readings with greater than 95% success and daily readings of at least 99% success. Response time to manual reading request should not take longer than 5 seconds.</p>
<p>Bidder Response</p>	
<p>4.1.18-9 Mandatory Requirement</p>	<p>If GPRS/3G is being used for Smart Meter communication, the SIM card shall be installed inside the Smart Meter or communications module casing so that it is difficult to steal. The Bidder should explain how they propose to meet this requirement.</p>



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Bidder Response	
4.1.18-10 Mandatory Requirement	All Smart Meters should have the capability to communicate with devices such as Consumer Interface Units and Load Control Units via PLC, with a range of at least 200 meters.
Bidder Response	
4.1.18-11 Desirable Requirement	The Smart Meter Solution should make provision for the future incorporation of smart water and gas meters into the architecture.
Bidder Response	
4.1.18-13 Mandatory Requirement	The Smart Meters and DCU should communicate via PLC using SFSK modulation.
Bidder Response	
4.1.18-14 Desirable Requirement	The Bidder shall ensure that the Smart Meter data using RS485 communications shall be uploaded in an open standard protocol that will enable easy integration between each type of Smart Meter and the MDMS.



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Bidder Response	
4.1.18-15 Mandatory Requirement	The Bidder shall ensure that GPRS/LAN Smart Meter is capable of sending a “last gasp” notification in case of outage.
Bidder Response	
4.1.18-16 Mandatory Requirement	The bidder shall ensure that the smart meters have a modular communication, enabling the modem to be replaced without opening the meter case. It is mandatory to have the option to replace the modem module without breaking the seals of the meter cover, nor the terminal cover. The replacement should be done while power is applied to the meter. The smart meters shall offer the options such as PLC, GPRS, and LAN.
Bidder Response	
4.1.18-17 Mandatory Requirement	The DCU shall gather and translate alarm/event messages from the Smart Meters and shall transmit them to the MDMS. These messages shall include power outage alarms. The Bidder shall explain how they propose to meet this requirement.
Bidder Response	
4.1.18-18 Desirable Requirement	It is desirable for the DCU to be able to broadcast to a pre-defined subset of Smart Meters, so that (for example) demand management could be implemented differently for business and residential Electricity Consumers. Bidders shall explain how they will meet this requirement.
Bidder Response	



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<p>4.1.18-19 Mandatory Requirement</p>	<p>Each DCU shall be provided with GPRS/3G and Ethernet for communications with the MDMS, and PLC/RF communications for managing the Smart Meters. In addition, each DCU shall include as a minimum: Serial Interface, USB, and Infrared ports.</p>
<p>Bidder Response</p>	
<p>4.1.18-20 Mandatory Requirement</p>	<p>Each DCU shall support 1,500 Smart Meters.</p>
<p>Bidder Response</p>	
<p>4.1.18-21 Mandatory Requirement</p>	<p>Each DCU shall also include in-built CT metering capability (class 1), allowing loss analysis and transformer load management.</p>
<p>Bidder Response</p>	
<p>4.1.18-22 Mandatory Requirement</p>	<p>In case of a phase loss, the DCU shall still function.</p>
<p>Bidder Response</p>	
<p>4.1.18-23 Mandatory Requirement</p>	<p>The DCU should provide information on GPRS signal quality to the MDMS.</p>
<p>Bidder Response</p>	



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<p>4.1.18-24 Mandatory Requirement</p>	<p>The Bidder shall provide a technical specification of the DCU and detailed narrative on the operation of the PLC platform proposed (from the Smart Meter to the DCU). This narrative should include any prerequisites on the quality of the LV network to ensure reliable communications that meet the reliability and availability parameters detailed earlier in this RFP.</p>
<p>Bidder Response</p>	
<p>4.1.18-25 Mandatory Requirement</p>	<p>DCU/Gateway shall pull data from the field devices and push the data at configured intervals to the HES. It shall also support the HES in pulling data from the field devices/meters. The data acquisition (Push/Pull) frequency shall be available. DCU/Gateway shall be capable to prioritize control commands.</p>
<p>Bidder Response</p>	
<p>4.1.18-26 Mandatory Requirement</p>	<p>DCU/Gateway shall ensure a secure communication to HES and shall have internal memory for storing interval data for at least 5 days.</p>
<p>Bidder Response</p>	
<p>4.1.18-27 Mandatory Requirement</p>	<p>DCU/Gateway shall support on demand read and ping of individual/group of meters.</p>
<p>Bidder Response</p>	
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5.2.14 General Functionality

<p>5.2.14-1 Mandatory Requirement</p>	<p>The Bidder shall ensure that the proposed MDMS shall support a full range of time-of-use (TOU) and step inclined tariff tables. At a minimum: 4 tariffs, 2 sets of tariff and table structures. Each table includes at least 2 time zones per year, 8 possible tier switches per day, with holiday, weekend, Saturday and Sunday schedules.</p>
<p>Bidder Response</p>	
<p>4.2.8-2 Mandatory Requirement</p>	<p>The MDMS shall be capable of storing tariff pricing information for exported energy.</p>
<p>Bidder Response</p>	
<p>4.2.8-3 Mandatory Requirement</p>	<p>The MDMS should have the option to remotely update different tariff plans, within each-and-every smart meter.</p>
<p>Bidder Response</p>	
<p>4.2.8-4 Mandatory Requirement</p>	<p>It is a requirement that the MDMS shall support charges and tariffs for each metering site and customer type. As a minimum:</p> <ul style="list-style-type: none"> • Flat Rate; Time of Use, Step Tariff • Ability to use relevant consumption metrics (Active energy, Reactive energy, apparent energy, Max Apparent Power) tariffs. • Seasonal price changes relating to each rate structure employed in a particular tariff. • Surcharges • Fixed Charges (i.e. service charge per day/billing period).



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Bidder Response	
4.2.8-5 Mandatory Requirement	The Bidder must ensure that the proposed MDMS can collect and report sizable channels of load profile data including: maximum demand, positive and reverse active energy, current, per-phase voltage, frequency, power factor, active and reactive energy in all four quadrants on a regular basis according to pre-defined configurable schedule.
Bidder Response	
4.2.8-6 Mandatory Requirement	<p>The solution shall include a list of the standard reports that are provided with the MDMS including but not limited to following:</p> <ul style="list-style-type: none"> • Daily data collection report Usage exceptions • VEE validation failures • Missing interval Read date and times (on hourly, daily, weekly & monthly basis) • Physical meter events (install, remove, connect, disconnect) & meter reset report • Meter flags • Meter inventory • defective meters • AMI performance measurements • Threshold Exception
Bidder Response	



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<p>4.2.8-7 Mandatory Requirement</p>	<p>In case more than one technology of AMI (example PLCC and RF between Smart Meter & DCU) deployed in the field The MDMS shall generate report on the performance and availability of data being delivered per AMI technology.</p>
<p>Bidder Response</p>	
<p>4.2.8-8 Mandatory Requirement</p>	<p>The MDMS shall plot load curve graphs using different colours for the various tariff zones. The graphs shall be able to provide details for the energy or power, and it shall be possible to perform different types of analyses per different time periods.</p>
<p>Bidder Response</p>	



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<p>4.2.8-11 Mandatory Requirement</p>	<p>The MDMS shall detect any problems in the Smart Meters and DCUs. The MDMS shall constantly monitors and detect at a minimum the following problems:</p> <ul style="list-style-type: none"> • Loss of Phase • Over Voltage • Current Unbalanced • Current Severely Unbalanced • Low Power Factor • Loss of Voltage • Loss of Current • Power Overload • Over Current • Under Voltage • Power Reverse • Reverse Power Overload • Low Voltage Battery • Power Outages • Meter Cover and terminal Cover open (Tampering) • Phase and Neutral unbalance
<p>Bidder Response</p>	
<p>4.2.8-12 Mandatory Requirement</p>	<p>The Bidder shall ensure that their proposed MDMS shall detect and record alarms and event messages from the DCUs. These messages shall include power outage alarms. The Bidder shall explain how they propose to meet this requirement.</p>
<p>Bidder Response</p>	



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4.2.8-15 Mandatory Requirement	The MDMS shall support a range of different open communication protocols including, but not limited to: DLMS, IDIS, Modbus etc. The meter shall be compatible with the communication protocol DLMS/COSEM (Application Protocol) EN / IEC 62056. Attach DLMS certificate thereto
Bidder Response	
Bidder Response	
4.2.8-18 Mandatory Requirement	The communication port shall be capable to support serial communication of a group of meters, when a MODEM is installed in one of these meters (named head meter) and the rest of the meters shall be in series connected with the head meter using the RS485 port, with appropriate addressing, and be capable for telemetering. The RS485 communication port shall be in a protected point of the meter, not accessible by unauthorized personnel. Access to the communication port must be protected with a tampering event logging feature.



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Bidder Response	
4.2.8-20 Mandatory Requirement	The MDMS should be capable to receive information on GPRS signal quality from the DCUs and Smart Meters.
Bidder Response	
4.2.8-21 Mandatory Requirement	The MDMS shall continuously monitor the data transfer value for GSM/GPRS connected Smart Meters and DCUs. The MDMS shall support a report aggregating the volume of cellular bandwidth consumption in order to audit cellular data charges.
Bidder Response	
4.2.8-22 Mandatory Requirement	The MDMS shall retry automatically to acquire the Smart Metering data again due to previous failed transmissions.
Bidder Response	



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<p>4.2.8-23 Mandatory Requirement</p>	<p>The MDMS shall be able to group the Smart Meters according to various parameters, including but not limited to:</p> <ul style="list-style-type: none"> • Communication type • Communications status - failures • Meter type • Phase type • Tariff type • Geographical area • Tamper status • Alarms • Power fail • Meter status
<p>Bidder Response</p>	
<p>4.2.8-24 Mandatory Requirement</p>	<p>The MDMS shall keep data in order to produce performance statistics in relation to the level of Smart Meter communication services.</p>
<p>Bidder Response</p>	
<p>4.2.8-25 Mandatory Requirement</p>	<p>It shall be possible to automatically upload data acquired from the Smart Meters using portable devices (e.g. laptops, Handheld Units).</p>
<p>Bidder Response</p>	



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4.2.8-28 Mandatory Requirement	The Bidder shall ensure that the proposed MDMS will use the English language.
Bidder Response	
4.2.8-29 Mandatory Requirement	It shall be possible to extract the metering point data to other systems in ASCII, XML, EXCEL file, CSV, etc. format or via APIs.
Bidder Response	



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4.2.8-32 Mandatory Requirement	Search keys and filter functionality shall be provided for all report categories.
Bidder Response	
4.2.8-33 Mandatory Requirement	All DCUs and GPRS meters should use a dial in method, registering in the Network front end of the MDMS. The DCU or GPRS meters shall stay connected to the server and communication maintained by the MDMS system.
Bidder Response	



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<p>4.2.8-35 Mandatory Requirement</p>	<p>The MDMS shall have the ability to capture and store the following minimum data set for all metering point:</p> <ul style="list-style-type: none"> • Meter point unique identifier (Supply Point) • Customer information • Property information • Meter number and meter configuration data • Telecommunication connection details (e.g. telephone number, IP address, GSM/GPRS signal power) • Installation date • Transformation ratios • Tariff details • Meter seal data • Metering point status and history • Post payment or prepayment mode • LCD settings • Hardware and Software Version • GIS coordinates
<p>Bidder Response</p>	
<p>4.2.8-36 Mandatory Requirement</p>	<p>The MDMS shall manage the meter and concentrator assets. The MDMS records all the relevant information about the asset, such as the maximum supply capability, connection type, GIS location, etc; and links each meter to a property and tenant.</p>
<p>Bidder Response</p>	



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4.2.8-40 Desirable Requirement	The MDMS system shall support interfacing / integration with 3 rd party software systems of the Municipality using secure web services.
Bidder Response	
4.2.8-41 Respond	The Bidder is required to ensure that all software where relevant should execute in a virtual server environment.
Bidder Response	



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5.3 Outage Management Systems (OMS)

<p>4.3-1 Mandatory Requirement</p>	<p>The OMS shall automatically monitor and report levels of service by outages, providing relevant information to stakeholders (Municipality personnel, consumers, media and regulators) on the state of the restoration process and automatically identifying equipment and customers affected by outages.</p>
<p>Bidder Response</p>	
<p>4.3-2 Mandatory Requirement</p>	<p>The OMS will generate intuitive reporting, introducing reporting data visually in chart format of outage information, as well as exporting this data for further analysis.</p>
<p>Bidder Response</p>	
<p>4.3-3 Mandatory Requirement</p>	<p>The OMS shall have a provision to notify the customers about the planned outages.</p>
<p>Bidder Response</p>	
<p>4.3-4 Mandatory Requirement</p>	<p>The OMS shall automatically identify equipment and customers affected by outages</p>
<p>Bidder Response</p>	



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5.4 Demand Side Management (DSM)

<p>Error! Reference source not found.-1 Mandatory Requirement</p>	<p>For peak load management, the DSM shall provide a facility to limit the Electricity Consumer's total load to a configurable current. Above this limit, supply to the Electricity Consumer shall be interrupted after a pre-configurable delay period.</p> <p>This load limit and time duration of restricted current/ disconnection should be definable at varying levels for individual Smart Meters or groups of Electricity Consumers.</p> <p>The peak load limiting configuration shall be sent to the Smart Meters via remote communications.</p>
<p>Bidder Response</p>	
<p>4.4-2 Mandatory Requirement</p>	<p>Under-frequency measurement should be recorded from the Smart Meters for rapid demand response. The DSM should continuously monitor frequencies and react to frequency variations and execute demand response processes.</p> <p>In demand response events, automatic reconnection should occur after a configurable period if frequency is within limits defined. It shall be possible to configure power limitations at varying levels for individual Smart Meters or groups of Smart Meters.</p>
<p>Bidder Response</p>	
<p>4.4-3 Mandatory Requirement</p>	<p>Remotely programmable normal load threshold limits can be set remotely to the Smart Meters from the DSM. These settings in the Smart Meters, protect the circuit breakers belonging to the Municipality. If demand exceeds a certain level; automatic disconnection occurs with automatic reconnection.</p>
<p>Bidder Response</p>	



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5.5 Vending Management Systems (VMS)

5.3-1 Mandatory Requirement	Fully certified STS Token Generator
Bidder Response	
5.3-2 Mandatory Requirement	Centralized point of sale management system. The VMS must have a validation for the POS Mac address and username login and password.
Bidder Response	
5.3-3 Mandatory Requirement	Remote management of merchants dispensing electricity tokens with 24-hour reconciliation. Managing vending retailers with a credit line management.
Bidder Response	
4.5-4 Mandatory Requirement	Management, and maintenance tools - flexible and automated reporting structures.
Bidder Response	



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4.4-6 Mandatory Requirement	The Bidder must have successfully integrated at least 2 third-party vendors within South Africa.
Bidder Response	
4.5-7 Mandatory Requirement	The system must comply with XMLVend 2.1
Bidder Response	
4.5-8 Mandatory Requirement	The system should support all possible engineering token as per the STS standard
Bidder Response	
4.5-10 Mandatory Requirement	The system should support at least one method of token cancelation and transaction reversal
Bidder Response	
4.5-11 Mandatory Requirement	The system should track, monitor, and prevent ghost vending



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Bidder Response	
4.5-12 Mandatory Requirement	The system should support issue Token to any meter manufacture supporting STS smart and not smart
Bidder Response	
4.5-14 Mandatory Requirement	The system should support arrears and debt collection according to a set of rules, such as: fixed price, percentage, step bundle, etc.
Bidder Response	
Bidder Response	



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5.6 Mobile Point of Sale (POS) Terminal

4.6-1 Mandatory Requirement	Hand-held portable, standalone STS token point of sale device.
Bidder Response	
4.6-2 Mandatory Requirement	Communications to the VMS via integrated 3G/GPRS modem.
Bidder Response	
4.6-3 Mandatory Requirement	External power supply, and internal rechargeable battery. Minimum of 1200mAh Ni-MH battery.
Bidder Response	
Bidder Response	



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4.6-7 Mandatory Requirement	Remotely updatable tariffs from the MDMS.
Bidder Response	

5.7 Field Services Terminal (FST)

5.7-1 Mandatory Requirement	Mobile terminal using 3G/LAN communication. It should collect information about the existing meter to be replaced (if any) as well as new Smart Meter and transfers this information to the MDMS. The unit must include an IR device to communicate with the meter through the optical port. The unit should include GPS and Camera.
Bidder Response	
4.7-2 Mandatory Requirement	The FST system shall: <ul style="list-style-type: none"> • Scan the Smart Meter bar code. • Record the Smart Meter readings. • Capture an image of the existing meter to be replaced and the Smart Meter. • Capture an image of the current readings of the existing meter to be replaced and the Smart Meter. • Record the GIS coordinates using the smart phone's GPS receivers of the location of the Smart Meters in the field. • Identify the installer and the time stamp each action; and transfer this information to the MDMS.
Bidder Response	
4.7-3 Mandatory Requirement	FST shall provide the data for the MDMS to monitor and report on the time expended for Smart Meter installation in order to analyse and troubleshoot, if necessary, installer efficiency.
Bidder Response	



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5.8 Consumer Interface Units (CIU)

The Consumer Interface Unit provides the ability for consumers to enter prepayment tokens. It can also provide the Electricity Consumer with a range of useful information relating to their current energy usage. More detailed Electricity Consumer information (e.g. usage variation by month, historical trends) shall be available via the Customer Portal web-based self-service facility.

<p>5.8-1 Mandatory Requirement</p>	<p>CIUs shall incorporate a clear and unambiguous display, as least 255 characters long that indicates as a minimum:</p> <ul style="list-style-type: none"> • The current level of consumption in kilowatts per hour. • Remaining Credit (in kilowatt hours) • Total energy • Each tariff (start time, end time and price) • Current kVA • Last credit token input date and time • Current consumption cost per hour in the local currency • Total monthly energy expressed as kW from the beginning of the calendar month. • Accumulated electricity cost from the beginning of the monthly billing period as set in the meter, expressed in the local currency. • Normal power limit to the maximum allowed kilowatt consumption from the beginning of the month. • Critical power limit, when electricity shortage is in effect, and is the limit to the maximum allowed kilowatt consumption from the beginning of the month. • Meter number. • Software version number.
<p>Bidder Response</p>	
<p>5.8-2 Mandatory Requirement</p>	<p>CIUs shall incorporate numeric keys for entering prepayment token numbers, and a backspace button.</p>
<p>Bidder Response</p>	



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5.8-4 Mandatory Requirement	Entering the 20-digit prepayment token shall be possible from the main screen without the need to enter a different screen.
Bidder Response	
5.8-5 Mandatory Requirement	All CIU displays shall default to the English language.
Bidder Response	
5.8-6 Mandatory Requirement	A password protected technician screen should be available providing authorized Municipality personnel as a minimum to: <ul style="list-style-type: none"> • Enable/disable auto polling of credit data available every 1/2/3/4/ times a day. • Set alarm credit threshold. Below this threshold alarm process occurs. • Display current MAC Address and enter new MAC address. • Enter new password. • Enter emergency credit alarm. • Enter Read Interval Time
Bidder Response	
5.8-7 Mandatory Requirement	CIUs shall be mains powered. The display shall support a power-saving mode to minimise power usage when the Electricity Consumer is not viewing the display. It must be able to communicate via PLC with the meter even in absence of power.
Bidder Response	



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5.8-8 Mandatory Requirement	CIUs shall incorporate short keys providing immediate action, including as a minimum: read credit balance, read meter energy, read Meter ID, Technician key.
Bidder Response	
5.8-9 Mandatory Requirement	The CIU should communicate with the Smart Meter via PLC
Bidder Response	
5.8-10 Mandatory Requirement	Any connection between a CIU and a Smart Meter shall be secured against logical attacks from neighbouring properties or public areas.
Bidder Response	
5.8-11 Mandatory Requirement	CIUs shall remain fully operational if the Electricity Consumer's power has been disconnected as a result of lack of credit to ensure that communication with the Electricity Consumer can be maintained.
Bidder Response	



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<p>5.8-14 Mandatory Requirement</p>	<p>In the event that the CIU credit is exhausted and the Smart Meter is disconnected, the Smart Meter can continue to be able to communication with the CIU in order for the Electricity Consumers to enter token number and replenish credit.</p> <p>The CIU shall communicate with the meter even in case of relay OFF state (meter has to have an option to disconnect only phase keeping neutral connected).</p> <p>The CIU shall communicate with the meter even in case of relay OFF state (meter has to have an option to disconnect only phase).</p>
<p>Bidder Response</p>	

5.9 Customer Portal and Mobile Application (CMA)

<p>4.9-2 Mandatory Requirement</p>	<p>The customer portal should support automatic messages be sent by the Municipality to groups of Electricity Consumers.</p>
<p>Bidder Response</p>	
<p>4.9-3 Mandatory Requirement</p>	<p>Each Electricity Consumer is issued with a security protected username and password with a high level of security protection.</p>
<p>Bidder Response</p>	



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No	Criteria (include a rating scale)	Weight	Value	Score
	<p>and the management and reporting thereon. They should have submitted comprehensive financial reports to Budget and Treasury offices on the revenue collecting system performance. Contact details for reference checks in line with the projects should be provided.</p> <hr/> <ul style="list-style-type: none"> Team member 2 should have experience in the technical support management as well as technical reports monthly on the maintenance of revenue collecting system projects. (10) <hr/> <p>NB: Copies of brief CVs of the above-mentioned personnel describing their relevant skills and experience, and roles in the proposed projects must be included in the Tender document submission and failure to attach, bidders will forfeit points. Each CV must not exceed 4 pages. CV's should state that the current employer is the bidding company.</p>	10	<p>4-5 years = 3 6 and more years = 5</p> <p>1-3 years = 1 4-5 years = 3 6 and more years = 5</p>	
3.	<p>Qualifications:</p> <p>Project Manager</p> <ul style="list-style-type: none"> ECSA Registered Professional in Electrical Engineering. (Certified copies of Qualification should be attached). (15) <hr/>	(35) 15	<p>Pr. Eng/ Pr. Tech</p> <p>Yes = 5 No = 1</p>	



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MBD 4: DECLARATION OF INTEREST

No bid will be accepted from persons in the service of the state.

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.

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?

(Tick applicable box)

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

3.8.1 If yes, furnish particulars.
.....

¹MSCM Regulations: “in the service of the state” means to be –
(a) a member of –



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- (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.

3.9 Have you been in the service of the state for the past twelve months?
(Tick applicable box)

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

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?

(Tick applicable box)

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

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?

(Tick applicable box)



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

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?

(Tick applicable box)

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

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?

(Tick applicable box)

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

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.

(Tick applicable box)

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

3.14.1 If yes, furnish particulars.....



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MBD 5

DECLARATION FOR PROCUREMENT ABOVE R10 MILLION (ALL APPLICABLE TAXES INCLUDED)

For all procurement expected to exceed R10 million (all applicable taxes included), bidders must complete the following questionnaire:

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

*YES	NO
------	----

1.1 If yes, submit audited annual financial statements for the past three years or since the date of establishment if established during the past three years.

.....
.....

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

*YES	NO
------	----

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

2.2 If yes, provide particulars.

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

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

*YES	NO
------	----

3.1 If yes, furnish particulars



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.....
.....

4. Will any portion of goods or services be sourced from outside the Republic, and, if so, what portion of payment from the municipality / municipal entity is expected to be transferred out of the Republic?

*YES	NO
------	----

4.1 If yes, furnish particulars

.....
.....

CERTIFICATION

I, THE UNDERSIGNED (FULL NAME)

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

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

.....
Name/s and Surname of Bidder

.....
Signature

.....
Position in the Firm/Company

..... 2021
Date



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MBD 6.1 PREFERENCE CLAIMED IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS, 2011

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 REGULATIONS, 2017.

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; and
- (b) B-BBEE Status Level of Contributor.

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

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



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

Where

P_s = Points scored for price of bid under consideration

P_t = Price of bid under consideration

P_{min} = Price of lowest acceptable bid

4. POINTS AWARDED FOR B-BBEE STATUS LEVEL OF CONTRIBUTOR

4.1 In terms of Regulation 6 (2) and 7 (2) of the Preferential Procurement Regulations, 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 (90/10 system)	Number of points (80/20 system)
1	10	20
2	9	18
3	6	14
4	5	12
5	4	8
6	3	6
7	2	4
8	1	2
Non-compliant contributor	0	0

5. BID DECLARATION

5.1 Bidders who claim points in respect of B-BBEE Status Level of Contribution must complete the following:

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

6.1 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 must be substantiated by relevant proof of B-BBEE status level of contributor.



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7. SUB-CONTRACTING

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

(Tick applicable box)

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

7.1.1 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 Regulations,2017:

Designated Group: An EME or QSE which is at last 51% owned by:	EME √	QSE √
Black people		
Black people who are youth		
Black people who are women		
Black people with disabilities		
Black people living in rural or underdeveloped areas or townships		
Cooperative owned by black people		
Black people who are military veterans		
OR		
Any EME		
Any QSE		

8. DECLARATION WITH REGARD TO COMPANY/FIRM

8.1 Name of company/firm:.....

8.2 VAT registration number:.....

8.3 Company registration number:.....



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8.4 TYPE OF COMPANY/ FIRM

- Partnership/Joint Venture / Consortium
 - One-person business/sole propriety
 - Close corporation
 - Company
 - (Pty) Limited
- [TICK APPLICABLE BOX]

8.5 DESCRIBE PRINCIPAL BUSINESS ACTIVITIES

.....

.....

.....

.....

8.6 COMPANY CLASSIFICATION

- Manufacturer
 - Supplier
 - Professional service provider
 - Other service providers, e.g. transporter, etc.
- [TICK APPLICABLE BOX]

8.7 MUNICIPAL INFORMATION

Municipality where business is situated:

Registered Account Number:

Stand Number:.....

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

8.9 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;



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- 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

.....



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LOCAL MUNICIPALITY PERIOD OF 3 YEARS**

CONTRACT FORM - RENDERING OF SERVICES

MDB 7.2

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

PART 1 (TO BE FILLED IN BY THE SERVICE PROVIDER)

1. I hereby undertake to render services described in the attached bidding documents to (name of the institution)
in accordance with the requirements and task directives / proposals 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 date of the bid.
2. The following documents shall be deemed to form and be read and construed as part of this agreement:
 - (i) Bidding documents,
 - Invitation to bid;
 - Tax compliance status (CSD report);
 - Pricing schedule(s);
 - Filled in task directive/proposal;
 - Preference claims for Broad Based Black Economic Empowerment Status Level of Contribution in terms of the Preferential Procurement Regulations 2011;
 - Declaration of interest;
 - Declaration of bidder's past SCM practices;
 - Certificate of Independent Bid Determination;
 - 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 services 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.



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NAME (PRINT)

CAPACITY

SIGNATURE

NAME OF FIRM

DATE

WITNESSES

1

2



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MBD 7.2

CONTRACT FORM - RENDERING OF SERVICES

PART 2 (TO BE FILLED IN BY THE PURCHASER [RLM])

- I..... in my capacity as..... accept your bid under reference numberdated.....for the rendering of services indicated hereunder and/or further specified in the annexure(s).
- An official order indicating service delivery instructions is forthcoming.
- I undertake to make payment for the services rendered in accordance with the terms and conditions of the contract, within 30 (thirty) days after receipt of an invoice.

DESCRIPTION OF SERVICE	PRICE (ALL APPLICABLE TAXES INCLUDED)	COMPLETION DATE	B-BBEE STATUS LEVEL OF CONTRIBUTION	MINIMUM THRESHOLD FOR LOCAL PRODUCTION AND CONTENT (if applicable)

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

SIGNED ATON.....

NAME (PRINT)

SIGNATURE

OFFICIAL STAMP

WITNESSES

1

2

DATE:



RUSTENBURG LOCAL MUNICIPALITY

RLM/DTIS/0010/2020/21 - REQUEST FOR PROPOSAL FOR FUNDING, DESIGN, SUPPLY, INSTALLATION AND MAINTENANCE OF A SMART REVENUE COLLECTION SYSTEM INCLUDING ONLINE CUSTOMER PAYMENT OPTIONS FOR THE RUSTENBURG LOCAL MUNICIPALITY PERIOD OF 3 YEARS

MBD 8: DECLARATION OF ABUSE OF SUPPLY CHAIN MANAGEMENT SYSTEM

- 1 This Standard Bidding Document must form part of all bids invited.
- 2 It serves as a declaration to be used by institutions 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 disregarded if that bidder, or any of its directors have-
 - a. abused the institution's supply chain management system;
 - b. committed fraud or any other improper conduct in relation to such system; or
 - c. failed to perform on any previous contract.
- 4 In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.



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Item	Question	Yes	No
4.1	Is the bidder or any of its directors listed on the National Treasury's Database of Restricted Suppliers as companies or persons prohibited from doing business with the public sector? Companies or persons who are listed on this Database were informed in writing of this restriction by the Accounting Officer/Authority of the institution that imposed the restriction after the <i>audi alteram partem</i> rule was applied).The Database of Restricted Suppliers now resides on the National Treasury's website (www.treasury.gov.za) and can be accessed by clicking on its link at the bottom of the home page.	Yes <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)? The Register for Tender Defaulters can be accessed on the National Treasury's website (www.treasury.gov.za) by clicking on its link at the bottom of the home page.	Yes <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 outside of 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	Was any contract between the bidder and any 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"/>
4.4.1	If so, furnish particulars: _____		



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CERTIFICATION

I, THE UNDERSIGNED (FULL NAME).....CERTIFY THAT THE INFORMATION FURNISHED ON THIS DECLARATION FORM IS TRUE AND CORRECT. I ACCEPT THAT, IN ADDITION TO CANCELLATION OF A CONTRACT, ACTION MAY BE TAKEN AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
Name/s and surname of Bidder

.....
Signature

.....
Position in the Firm/Company

.....
Date



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MBD 9: CERTIFICATE OF INDEPENDENT BID DETERMINATION

- 1 This Municipal Bidding Document (MBD) must form part of all bids¹ invited.
- 2 Section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by, firms, or a decision by an association of firms, if it is between parties in a horizontal relationship and if it involves collusive bidding (or bid rigging).² Collusive bidding is a *pe se* prohibition meaning that it cannot be justified under any grounds.
- 3 Municipal Supply Regulation 38 (1) prescribes that a supply chain management policy must provide measures for the combating of abuse of the supply chain management system, and must enable the accounting officer, among others, to:
 - 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



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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
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:



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- (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.
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.

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.

.....

Signature

.....

Date

.....

Position

.....

Name of Bidder



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SECTION 38: DECLARATION FORM

Having examined the BID and the general conditions thereto, I/we hereby certify that the bid price in the bid schedules and the preference points claimed are correct.

I/We furthermore certify that I/we/the Company comply/complies with the issues around Section 38 of the Supply Chain Management Policy inter alia:

IF ALL IS IN PLACE IN RESPECT OF THE CONTRACTUAL ISSUES LISTED IN THE TABLE BELOW; THE ANSWER SHOULD BE YES. ATTACH SUPPORTING INFORMATION IF ANY OF THE ANSWERS IS NO.

Note that the Municipality's Procurement Section will verify the statements.

I/we certify the following:

No.	CONTRACTUAL ISSUES	YES	NO
1.	In terms of Section 38 (1) (c) that the Bidder or any of the Directors is not listed as a person prohibited from doing business with the Public Sector		
2.	In terms of Section 38 (1)(d) (i) that the Bidder or any of the Directors does not owe rates and taxes or Municipal service charges to any Municipality that is in any arrears for more than three (3) months. Copies of the latest Municipal service charges statement of the Bidder and the Directors must be attached to the tender/bid document		
3.	In terms of Section 38 (1) (d) (ii) that the Bidder or any of the Directors has not failed to perform satisfactorily on a previous/previous contract/s with the Municipality or any organ of state		
4.	In terms of Section 38 (i) (9) that the Bidder or any of the Directors has not been convicted for fraud or corruption during the past five (5) years		
5.	In terms of Section 38 (i) (9) (iv) that the Bidder or any of the Directors has not been listed in the Register Of Tender Defaulters in terms of Section 29 of the Prevention and Combating of Corrupt Activities Act, (Act No. 12 of 2004)		

.....
SIGNATURE OF BIDDER

.....2021.
DATE

.....
FULL NAME AND SURNAME OF BIDDER IN BLOCK LETTERS

COMPANY NAME:

PHYSICAL ADDRESS:

TELEPHONE NUMBER:

EMAIL ADDRESS:

WITNESS 1:

WITNESS 2:



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SIGNATORY AUTHORISATION

(TO BE COMPLETED BY THE BIDDER)

I/We the undersigned, am/are authorized to enter into this contract on behalf of

.....
(Name of Firm)

By resolution taken at a meeting held on the day of (month).....2021 resolved to authorise holder of ID number to sign all the documents on behalf of the company.

Print name of authorised representative:

Signature:

