

THE MSUNDUZI MUNICIPALITY



**HEAD: SUPPLY CHAIN MANAGEMENT
MRS D. N. GAMBU**

333 Church Street, Private Bag X205, Pietermaritzburg, 3200
Telephone No. 033 – 392 2597

SUPPLIES & SERVICES CONTRACT No. 71 OF 2024: SECTIONS A AND B

SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE WATER AND SANITATION TELEMETRY AND SCADA INFRASTRUCTURE

SECTION A: TELEMETRY AND INSTRUMENTATION
SECTION B: SCADA ENGINEERING AND SUPPORT

Tenderer's Name:		
Postal Address:		
		Code
Contact Person:		
Telephone No:		
Cellular No:		
E-Mail Address:		
CSD Supplier No:	MAAA	

Tenders contained in sealed envelopes and marked with "**Supplies and Services Contract No. 71 of 2024 : Sections A and B**" and the **Contract Description** must be placed in the Tender Box located in the Foyer, Ground Floor, City Hall, 169 Chief Albert Luthuli Street, Pietermaritzburg, 3201, not later than **12h00 on Tuesday, 7 May 2024**, when they will be opened in public. **Only Tenders placed in the Tender Box before the closing time above will be accepted.**

THE MSUNDUZI MUNICIPALITY
TENDER SUBMISSION CHECKLIST

The Checklist below is attached hereto to assist Tenderers with the completion of the tender document. Tenderers are required to **TICK** the relevant boxes for verification purposes. Where information is not applicable to the tender, the symbols **N/A** must be inserted in the space provided.

It must be noted that the Council shall not be held liable for any loss or damage incurred to the Tenderer should the Tenderer fail to fulfil the requirements of the Tender.

No.	Description	<u>Tenderer to Tick (✓)</u>	<u>For Official Use Only</u>	
1	Has the Tender Document been completed in INK and all corrections counter-signed? (No correction fluid used)		<i>D</i>	
2	Has all tendered rates been priced in INK and corrections counter-signed? (No correction fluid used)		<i>D</i>	
3	Has all tendered amounts been arithmetically checked and the correct total amounts carried forward to the Summary Page and Tender Form?			
4	Has all information as required in terms of the Tender Document been submitted with the tender?		<i>D</i>	
5	Has the non-compulsory "Site Inspection/Tender Briefing" meeting been attended and has the "Site Inspection/Tender Briefing" Certificate been completed and signed at the meeting?	Non-Compulsory		
6	Have all Declarations contained in the Tender Document been completed and signed by the Tenderer, and before a Commissioner of Oaths (if applicable)?		<i>D</i>	
7	Has the "Tender Form" been completed and signed?		<i>D</i>	
8	Has the "Preference Points Claim Form in terms of the Preferential Procurement Regulations 2022" been completed in its entirety and signed?			
9	Is a valid Original Tax Clearance Certificate attached to the Tender Document or has a Tax Clearance Status Verification Pin been provided?		<i>D</i>	
10	Has the CSD Supplier Number and Unique Registration Reference Number been submitted with the Tender Document?		<i>D</i>	

***** D: Failure to comply with these Sections will prejudice the tender.**

Name of Tenderer : _____

Signature : _____

Date : _____

THE MSUNDUZI MUNICIPALITY

SUPPLIES & SERVICES CONTRACT No. 71 OF 2024: SECTIONS A AND B

**SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE
WATER AND SANITATION TELEMETRY AND SCADA INFRASTRUCTURE**

SECTION A: TELEMETRY AND INSTRUMENTATION

SECTION B: SCADA ENGINEERING AND SUPPORT

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PLEASE NOTE:

- 23.1** Tenderers are advised to check the number of pages and should any be missing or duplicated, or the reproduction thereof indistinct, or any descriptions ambiguous, or if this document contains any obvious errors they shall inform the Head: Supply Chain Management or the Engineer at once and have same rectified. No liability whatsoever will be incurred by the Council in respect of errors in any tender due to the Tenderer's failure to observe this requirement.
- 24.2** The Tender Notice appeared in The Ilanga newspaper, Msunduzi Municipality website and eTender Publication Portal on 4 April 2024.

THE MSUNDUZI MUNICIPALITY

TENDER NOTICE

SUPPLIES & SERVICES CONTRACT No. 71 OF 2024: SECTIONS A AND B

SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE WATER AND SANITATION TELEMTRY AND SCADA INFRASTRUCTURE

SECTION A: TELEMTRY AND INSTRUMENTATION
SECTION B: SCADA ENGINEERING AND SUPPORT

The Msunduzi Municipality hereby invites tenders from suitably experienced Tenderers for the above works.

Tender documents will be made available to tenderers from 12h00 on 5 April 2024. Tender documents can be downloaded and printed at the Tenderer's cost from the National Treasury e-Tender Publication Portal on www.etenders.gov.za.

Printed copies of the tender documents shall also be available from the Supply Chain Management Unit Offices, 5th Floor, A S Chetty Centre, 333 Church Street, Pietermaritzburg, as from the abovementioned date and time, at a non-refundable tender deposit fee of R719.22 (including VAT) for each document drawn. Only cash or EFT payments will be accepted.

For any technical related enquiries regarding the Specifications, Tenderers are to contact Dinesh Ramkishwar (Project Champion) on either 033-342 25 40 or e-mail address dinesh.ramkishwar@msunduzi.gov.za

For any procurement related enquiries, Tenderers are to Vinesh Govender (Supply Chain Management Sub-Unit) on Telephone No. 033-392 202 7 or e-mail address vinesh.govender@msunduzi.gov.za.

A non-compulsory Tender Briefing Meeting will be held at 10h00 prompt on Thursday, 18 April 2024, in the Water & Sanitation Boardroom, 3rd Floor, Professor Nyembezi Building, 341 Church Street, Pietermaritzburg, 3201. Only one Tender Briefing Meeting will be held. An official will chair the meeting and answer queries raised by prospective Tenderers. Any amendment to the tender documentation arising from such answers will be circulated in terms of the meeting's attendance register.

Sealed tenders containing the original hand written priced tender document and a digital copy of the same on a CD/USB Flash Drive and endorsed on the envelope with the "**CONTRACT No.**" and "**CONTRACT DESCRIPTION**", must be placed in the Tender Box located in the Foyer, Ground Floor, City Hall, 169 Chief Albert Luthuli Street (Commercial Road), Pietermaritzburg, not later than 12h00, on Tuesday, 7 May 2024, when they will be publicly opened. Only tenders placed in the Tender Box shall be accepted. Under no circumstances whatsoever will any extension of time be allowed for submission of tenders.

Tender Validity Period: Four (4) months commencing from the closing date of tender.

Tender Evaluation & Adjudication Criteria: The tender shall be evaluated on a Two Stage Evaluation System for Section "A" only with Stage One being Functionality and Stage Two the 80/20 Preferential Point System. Adjudication criteria will be as per the tender document, the allocation of points will be in line with specific goals as prescribed in terms of the Preferential Procurement Regulations, 2022 pertaining to the Preferential Procurement Policy Framework Act, Act No. 5 of 2000.

The Functionality for Stage One shall be evaluated on the following criteria:

SECTION A: TELEMETRY AND INSTRUMENTATION

Item	Functionality Criteria	Max Points Awarded
1	Company Experience: Company in Existence for over five (5) years.	5
2	Company Experience: No. of projects undertaken in the last five (5) years: The Supply, Installation, Configuration and Commissioning of Measuring Instrumentation, Telemetry and Database Systems.	10
3	Company Experience: No. of projects undertaken in the last five (5) years: The Supply, Installation, Configuration & Commissioning of Telemetry Systems using GPRS/3G/LTE.	10
Total No. of Points Awarded		25
Minimum Threshold To Qualify For Stage 2		72% or 18 Points

SECTION B: SCADA ENGINEERING AND SUPPORT (MANDATORY REQUIREMENT)

Criteria	Description
Tenderer's Accreditation	<p>The Tenderer must be accredited as an Adroit Technologies Authorized System Integrator (ASI) for a minimum period of two (2) years with the ASI Accreditation still being valid.</p> <p style="text-align: center;">OR</p> <p>If the tenderer is the Software Developer, provide a letter confirming they are the Software Developer of the Adroit Technologies SCADA Products.</p>

The allocation of Preference Points will be according to the following Specific Goals:

No.	Ownership Specific Goals	Max. Points Awarded
1	Race: Enterprise with at least 51% Black ownership	10
2	Locality:	
2(a)	Within Msunduzi	10
2(b)	Within KZN	5
2(c)	Within RSA	5
Total Preference Points (Specific Goals)		20

The Msunduzi Municipality does not bind itself to accept the lowest or any tender and reserves the right to accept the whole or any part of a tender. Each tenderer will be informed of the tender result.

The Msunduzi Municipality expects businesses within the Pietermaritzburg and Midlands Region to support its contract and BEE/SMME initiatives.

MR N HLELA (ACTING CITY MANAGER)

THE MSUNDUZI MUNICIPALITY

STANDARD CONDITIONS OF TENDER

1. DOCUMENTS

This document comprises of the Standard Conditions of Tender, Standard Conditions of Contract, Special Conditions of Contract (if any), Legislation, Definitions, Specifications, Pricing Schedule, Tender Form, Drawings (if any), Data Sheets and Annexures thereto.

2. ATTENDANCE OF THE NON-COMPULSORY SITE INSPECTION/TENDER BRIEFING MEETING

Attendance of the Site Inspection/Tender Briefing meeting is non-compulsory, however, Tenderers are advised to attend the meeting to clarify any issues regarding the document and the specifications. Tenderers who do not attend this meeting will not be disqualified but will be tendering at their own risk.

3. SUBMISSION OF TENDERS

Tenders must be made out on the Tender Form annexed hereto. Tenderers are advised that this document must be completed in ink and submitted in its entirety. Failure to comply with this condition shall result in the tender being disqualified.

Only original hand written priced tender documents will be considered. Tenders submitted by electronic mail, telex or facsimile shall not be considered. ***The use of correction fluid is strictly prohibited***. All corrections are to be countersigned.

Service Providers using Courier Companies or any other mode of transport to deliver their tender documents must ensure that the tender documents are delivered to the City Hall, 169 Chief Albert Luthuli Street (Commercial Road), Pietermaritzburg, 3201, and placed in the Tender Box situated in the Foyer, Ground Floor by the close of tenders. The Council shall not be held liable for any tender document which is not timeously delivered, mislaid or incorrectly delivered due to the negligence of the Courier Company or any other party involved in the delivery of the tender documents, including any employee of the Council.

Sealed tenders endorsed with the appropriate Contract No. and Contract Title must reach the City Hall, Pietermaritzburg not later than the closing date and time stated in the public advertisement inviting tenders, when they will be opened in public. Under no circumstances will any extension of time be allowed for the submission of tenders. Tenders shall remain valid for four (4) calendar months from the date of opening, except for the initial five (5) working days grace period after the close of tenders within which period a Service Provider may be permitted to withdraw its tender subject to an application with good and sufficient reasons being submitted in writing to obtain approval of such withdrawal, at the sole discretion of the Head: Supply Chain Management.

All literature submitted must be securely attached to the tender. The Council shall not be held liable for any loss or damages sustained due to the Service Provider's failure to comply with this condition. In the case of a Service Provider withdrawing its tender after the expiry of the grace period, the Council may refuse to receive or consider, for such period as it may think fit, any further tenders from that Service Provider.

4. COMMUNICATION WITH MEMBERS OF THE COUNCIL OR COUNCIL EMPLOYEES

Without detracting from any prevailing law, no Tenderer shall offer, promise or give any person or persons connected with the adjudication, or awarding of the tender, any gratuity, bonus, discount or consideration of any kind in connection with the obtaining of a contract.

Nor shall any Tenderer communicate with any member of the Council or a Council employee on a question affecting the awarding of a contract which is the subject of a tender, during the period between the closing date of tenders and the date of notification of the successful Tenderer; provided always that the Head: Supply Chain Management may, in exceptional circumstances, obtain additional information from a Tenderer to enable her to formulate her recommendation to Council.

Any attempt to contravene this condition which is brought to the notice of the Head: Supply Chain Management shall result in the disqualification of the Service Provider.

Prospective Tenderers are further advised that s118 of the Municipal Finance Management Act prohibits the interference, by any person, with the supply chain management system of the Municipality and the amendment of or tampering with any tender, quotation, contract or bid after its submission.

5. IMPORT PERMITS

The Council will not undertake to secure any import permits or currency for the import of any goods or materials required for the execution of this contract. The Tenderer must apply directly for any import permits or currency needed. However, the Council will furnish the successful Tenderer with a supporting statement, if required.

6. REGISTRATION WITH THE CENTRAL SUPPLIER DATABASE (CSD)

The National Treasury's Central Supplier Database (CSD) has been open for registration from 01 September 2015. The CSD serves as one single source of supplier information to all spheres of government.

Within this system, suppliers are required to register once when they do business with the state. This will significantly reduce the administrative burden for businesses, especially small and medium sized enterprises. The database interfaces with the South African Revenue Service (SARS), the Companies and Intellectual Property Commission (CIPC) and the payroll system. It will electronically verify a supplier's tax status and enable public sector officials doing business with the state to be identified.

All prospective suppliers can register any time on the CSD website www.csd.gov.za Prospective suppliers may also visit the Provincial Treasury Database office situated at Treasury House, Ground Floor, 145 Chief Albert Luthuli Road, Pietermaritzburg from 08h00 to 15h00, Mondays to Fridays, for any assistance with on-line registration on CSD.

For further information or enquiries, please contact 033 – 897 4516 / 033 – 897 4212 / 033 – 897 4624 / 033 – 897 4535 / 033 – 897 4676 / 033 – 897 4509 or Toll-Free at 0800 201 049 during office hours or via e-mail at database@kzntreasury.gov.za.

With effect from 01 July 2016, the Msunduzi Municipality will not award any tender to a supplier not registered as a prospective supplier on the CSD. Negotiations for the tender award will only be concluded with the qualify Service Provider(s) who is/are registered on the CSD on or after 01 April 2016.

In order for Council to verify your Company's registration with CSD, Service Providers are required to furnish the following information for verification purposes:

CSD Supplier Number	
Unique Registration Reference Number	

Failure to provide the above information shall render the tender to be disqualified.

7. TAX CLEARANCE CERTIFICATE REQUIREMENTS

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

Service Providers shall be required to submit, together with the tender document, a valid Tax Clearance Certificate and a Tax Compliance Status Verification Pin issued by SARS. Failure to submit a valid Tax Clearance Certificate and a Tax Compliance Status Verification Pin, the Council reserves the right to verify the same on National Treasury's Central Supplier's Database.

Further to the above, Service Providers are to note that the Tax Clearance Certificate must be valid for the full duration of the tender validity period i.e. four (4) months commencing from the closing date of the tender.

Should the validity of the Tax Clearance Certificate expire prior to the final award of the contract being made, the Council reserves the right to request the Service Provider to submit a further valid Tax Clearance Certificate. In this instance, the Service Provider shall be given seven (7) working days written notice in which to comply. Should the Service Provider fail to comply with this request, the Council further reserves the right to make no award to the Service Provider and the Council shall not be held liable for any loss or damages sustained by the Service Provider.

If a Service Provider has already submitted an original Tax Clearance Certificate when registering on the Central Supplier Database (CSD), then there is no need to submit a hardcopy of another Tax Clearance Certificate provided that the Tax Clearance Certificate is still valid for the full duration of the validity period for this tender. In this instance, the Service Provider will be required to indicate below the CSD Supplier Number and Unique Registration Reference Number for verification purposes: -

CSD Supplier Number	
Unique Registration Reference Number	

8. RATES

The prices, rates or percentages quoted in the proposal shall be deemed to include all costs, including but not limited to materials, plant, labour, patent rights and royalties, freight, insurance, customs, railage, delivery, etc., unless the Service Provider states otherwise in the proposal.

9. INCOMPLETE TENDERING

Tenders may be rejected if they show any additional, conditional or incomplete offers or irregularities of any kind in either the Tender Form or the Pricing Schedule, or if the prices tendered in the Schedule are not market related i.e. the tendered rates does not conform to current day prices.

Partial awards *may* be made where this is perceived by the Head: Supply Chain Management or the Engineer to be in the best interests of the Council. Council reserves the right to take into account the principle of the distribution of works in order to empower SMME's and BEE's.

Should there be any difference or discrepancy between the prices and particulars contained in the Tender Form and those contained in any covering letter submitted by the Tenderer, the prices and particulars contained in the Tender Form shall prevail.

10. ACCEPTANCE OF ANY TENDER

- 10.1 The Council does not bind itself to accept the lowest or any tender and reserves the right to accept the whole or any part of a tender.
- 10.2 Where less than three (3) tenders are received, the Head: Supply Chain Management reserves the right to purchase such items on the open market notwithstanding the acceptance of an offer.
- 10.3 The procedure/s which shall be followed with the acceptance of a tender are as follows:
 - 10.3.1 Where in the tender document, Service Providers are required to submit Works Insurance, Sureties, Public Liability Insurance or any other provisional criteria, a letter of Provisional Acceptance will be sent to the successful Service Provider/s stipulating which amount or rate/s have been accepted and the requirements for the final award.
 - 10.3.2 In this instance, the Service Provider/s shall be required to satisfy the requirements of the Provisional Letter of Acceptance within fourteen (14) days from date of issue of the Provisional Letter of Acceptance.
 - 10.3.3 Should the Service Provider/s, fails to comply with the requirements of such provisional acceptance within the period specified in same or any variation thereto, and the Council elects not to confirm the provisional acceptance of the tender on that ground, the Council may refuse to receive or consider for such period as it may think fit, any further tenders from that/those Service Providers.
 - 10.3.4 Once the requirements of the Provisional Letter of Acceptance have been satisfied, a Final Letter of Acceptance will be sent by the Head: Supply Chain Management to the successful Service Provider/s notifying the Service Provider/s of Council's intent to make an award of the contract.
 - 10.3.5 Prior to the undertaking of any works, the successful Service Provider/s shall be required to enter into a Service Level Agreement (SLA) with the Council to address any post award qualification requirements as per the tender document.
 - 10.3.6 Once the SLA has been concluded, the Tender, Provisional Letter of Acceptance, the Final Letter of Acceptance and the SLA, shall constitute a binding agreement between the Service Provider/s and the Council.
 - 10.3.7 Should the Service Provider/s fail to enter into a contract when called upon to do so, then the Council may refuse to receive or consider for such period as it may think fit, any further tenders from that/those Service Provider/s.
- 10.4 Where no Insurances, Sureties or any other provisional criteria are required, a Final Letter of Acceptance stipulating which rate/s has been accepted will be sent by the Head: Supply Chain Management to the successful Service Provider/s notifying the Service Provider/s of Council's intent to make an award of the contract.

- 10.4.1 Prior to the undertaking of any works, the successful Service Provider/s shall be required to enter into a Service Level Agreement (SLA) with the Council to address any post award qualification requirements as per the tender document.
- 10.4.2 Once the SLA has been concluded, the Tender, the Final Letter of Acceptance and the SLA, shall constitute a binding agreement between the Service Provider/s and the Council.
- 10.4.3 Should the Service Provider/s fail to enter into a contract when called upon to do so, then the Council may refuse to receive or consider for such period as it may think fit, any further tenders from that/those Service Provider/s.

Unless otherwise stipulated in the covering letter submitted with the tender, the Service Provider shall have waived, renounced and abandoned any conditions printed or written upon any stationery used for the purpose of, or in connection with, the submission of the tender which are in conflict with the Council's Conditions of Tender and the Standard Conditions of Contract. The Service Provider is warned that any material divergence from the official conditions or specification may render the tender liable to disqualification.

11. DOMICILIUM CITANDI ET EXECUTANDI

For the purpose of the service of all documents and the giving of notice as may be required in terms of this contract, or as a result of any action arising in conjunction with it, the Council chooses City Hall, 169 Chief Albert Luthuli Street (formerly Commercial Road), Pietermaritzburg as its *domicilium citandi et executandi*.

The Service Provider's *domicilium citandi et executandi* shall be whatever street address is given in the Tender Form attached hereto.

Either party may, at any time, give one (1) month notice, in writing, of a change of its *domicilium citandi et executandi* provided that such address shall be within the Republic of South Africa..

12. DATA SHEETS

Service Providers shall be required to complete all Data Sheets and the Tender Form attached hereto in their entirety for adjudication purposes. Where Data Sheets and/or any other documentation as contained herein are required to be commissioned, such Data Sheets and/or documentation must be stamped and signed by a Commissioner of Oaths (where applicable).

Failure to comply with these provisions will render the offer unresponsive (invalid).

13. PROHIBITION ON AWARDS TO PERSONS IN THE SERVICE OF THE STATE

The Supply Chain Management Regulations states that the Council may not make any award to a person:

- (a) Who is in the service of the state;
- (b) If that person is not a natural person, of which and director, manager, principal shareholder or stakeholder is a person in the service of the state; or
- (c) Who is an advisor or consultant contracted with the municipality or municipal entity.

14. MUNICIPAL FEES

All Service Providers are to sign the Declaration herein declaring that their Municipal Fees are in order, or that proper arrangements have been made with the Council. Service Providers must include the relevant account numbers in the declaration.

15. APPEALS AND/OR OBJECTIONS

Any Service Provider aggrieved by decisions or actions taken by the Municipality may lodge within fourteen (14) calendar days of the date of the decision or action, a written objection or complaint to the Municipal Manager / Head: Supply Chain Management. In the event that an appeal and/or objection is lodged, the following procedure shall apply:

The Service Provider shall be required to pay an appeal/objection fee in the amount of zero point five percent (0.5%) of the total contract sum, including VAT or R2 000.00, whichever is the greater to a maximum value of R20 000.00.

The fee is to be paid in cash or electronic fund transfer on or before the expiration of the above period and proof of such payment is to be submitted together with the letter of appeal/objection to the Municipal Manager/Head: Supply Chain Management. No appeal/objection will be entertained should the afore-mentioned condition not be adhered to and the Municipality shall not be held liable for any loss or damages sustained by the Service Provider due to the Service Provider's failure to adhere to the above condition.

16. PREFERENCE POINTS CLAIMED IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022

Service Providers claiming preference points shall be required to complete Annexure "C" hereto in its entirety and to fully comply with the General Conditions, Definitions and Directives stated therein.

In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, 2022, Preference points must be awarded for specific goals stated in the tender.

Service Providers are required to submit proof or documentation required in terms of this tender to claim points for specific goals. Failure to do so shall result in no preference points being awarded to the Service Provider and the Council shall not be held liable for any loss or damages in this regard.

17. JOINT VENTURE AGREEMENTS AND CONSORTIUMS

Service Providers intending to tender in the form of Joint Ventures/Consortiums **must submit** the following documentation together with the tender:

- 1) Valid Tax Clearance Certificates or a Tax Compliance Status Verification Pins issued by SARS of all parties of the Joint Venture/Consortium;
- 2) CSD Reports of all parties of the Joint Venture/Consortium;
- 3) All parties of the Joint Venture/Consortium must submit individually signed copies of:
 - a) The Declaration of Interest Form;
 - b) The Declaration of Bidder's Past Supply Chain Management Practices Form, and
 - c) The Certificate of Independent Bid Determination Form.
- 4) An undertaking duly signed by all parties of the Joint Venture/Consortium indicating their intention to enter into an agreement for the purposes of this contract.

Further to the above, the full name of the Joint Venture/Consortium must appear as the 'Tenderer' on the relevant pages of the document. Failure to comply with these requirements shall lead to disqualification

18. ADJUDICATION CRITERIA

The tender shall be evaluated in accordance with the Evaluation Criteria as outlined in the Specifications contained herein.

19. COMBATIVE TENDERING

The Supply Chain Management Regulations states that Combative tendering practices are unethical and illegal. These include but are not limited to: -

- (i) Suggestions to fictitious lower quotations;
- (ii) Reference to non-existent competition;
- (iii) Exploiting errors in bids;
- (iv) Soliciting bids from Tenderers whose names appear on the list of restricted bidders/suppliers/persons, and,
- (v) Submission of two bids by a Tenderer.

Any attempt by a Tenderer to contravene this condition which is brought to the notice of the Municipal Manager or the Head: Supply Chain Management shall result in the disqualification of the tender. The Council further reserves the right to take any other action as it may deem necessary.

20. ALTERATIONS BY TENDERER

If a tenderer wishes to submit alternative proposals for consideration or wishes to change the Conditions of Contract, Specifications, Quantities or Drawings, or to qualify the tender in any way, such changes and/or proposals are to be listed in 'Annexure A' hereto, failing which the tender will be deemed to be unqualified. It must be clearly understood that the Council will be under no obligation to accept any such qualification.

21.0 OCCUPATIONAL HEALTH AND SAFETY ACT

The attached Annexure "B" hereto must be completed thereby indemnifying the Msunduzi Municipality of any claims which may arise in terms of the Occupational Health and Safety Act (Act 85 of 1993), as amended.

THE MSUNDUZI MUNICIPALITY

STANDARD CONDITIONS OF CONTRACT

1. DEFINITIONS AND INTERPRETATIONS

The following definitions shall apply:-

"Council" means the Msunduzi Municipality.

"Engineer" means the Deputy Municipal Manager: Infrastructure Services of the day of the Msunduzi Municipality or the said Manager's duly appointed Representative.

"Head: Supply Chain Management" means the Head: Supply Chain Management of the day of the Msunduzi Municipality or the Head: Supply Chain Management's duly appointed Representative.

"Contractor" means the person, firm or company whose tender has been accepted by the Msunduzi Municipality and includes the supplier's heirs, executors, administrators, trustees, judicial managers or liquidators, as the case may be, but not, except with the written consent of the Council, any assignee of the Supplier.

"Contract Document" means the Standard Conditions of Tender, Standard Conditions of Contract, Special Conditions (if any), Specifications, Schedule of Quantities/Equipment, Priced Schedule of Rates and Prices, Drawings (if any), Tender Form and Annexures thereto and the final Letter of Acceptance.

"Contract Price" means the sum named in the tender, subject to such additions thereto or deductions therefrom as may be made from time to time under the provisions hereinafter contained.

"Special Conditions" means any addition to or departure from or amendment of these Standard Conditions as set out in Annexure "A": Alterations by Tenderer hereof.

"Drawings" means the drawings referred to in the Specification and any modification of such drawings approved in writing by the Engineer and such other drawings as may from time to time be furnished or approved in writing by the Engineer.

"Goods" means the equipment, plant, vehicles or materials to be supplied in accordance with the Contract.

"Preferential Procurement Policy" means the Preferential Procurement Policy Framework Act, 2000 (Act No 5 of 2000).

"SARS" means the South African Revenue Services.

2. QUALITY OF MATERIALS AND WORKMANSHIP AND TESTS

All materials and workmanship shall be of the respective kinds described in the contract and in accordance with the specification and shall be subjected to such tests, carried out by such persons, as the Engineer may direct at the place of manufacture or fabrication or at the delivery site or at all or any of such places. The Contractor shall provide such assistance, instruments, machines, labour and materials as are normally required for examining, measuring and testing any work and the quality, mass or quantity of any materials for testing as may be required by the Engineer. The Contractor may be present at any tests which the Engineer decides to carry out.

3. SAMPLES FOR QUALITY CONTROL

If samples are required in terms of the specification, such samples shall be supplied by the Contractor at his/her own cost.

All samples approved by the Engineer will be retained by him/her as standards for the duration of the contract.

The Council reserves the right to purchase any sample submitted at the tender price. Samples not so purchased will be recoverable by the Contractor at his/her expense.

4. REMOVAL OF IMPROPER MATERIALS

All materials delivered to the delivery site will be inspected by the Engineer and should any be delivered which, in the opinion of the Engineer, are inferior in quality or workmanship to the deposited sample or to the standard required in the Specification or be found to be damaged on delivery, such goods shall be immediately removed by the Contractor.

No payment will be made for any materials nor for any loss incurred by the Contractor as a consequence of such rejection.

5. QUANTITY

The Council does not guarantee to purchase any specific quantity and orders will be placed for materials as and when they are required. The tendered price shall apply to all purchases regardless of the quantity ordered. Should the Contractor wish to place any limit on the maximum quantity to be supplied, this must be clearly stated in the tender.

6. DELIVERY

Prices shall include for the delivery of the materials as detailed in the specifications. The Contractor shall be responsible for all damages or breakages in transit until the materials have been accepted by the Engineer at the delivery site.

Immediately after forwarding any materials, an advice note shall be sent in duplicate to the Engineer, Private Bag X205, Pietermaritzburg, giving the size and mass of each article, where applicable, and the date of despatch.

All ordered materials shall be delivered within the period stated in the tender. If a Tenderer is unable to comply with this clause, the delivery period offered must be stated.

7. PENALTY FOR LATE DELIVERY

Upon any delay in delivery beyond the tendered delivery period, the Council shall be entitled forthwith to purchase services of the same description as and in lieu of those specified to be supplied, or forthwith to cancel the contract and to purchase elsewhere such materials as may be required during the contract period and the Contractor shall bear any difference in price between any materials so purchased and the tendered price.

The amount of such difference shall be paid by the Contractor to the Council immediately on demand, or the Council may deduct such difference from moneys (if any) otherwise payable to the Contractor in respect of materials or services already delivered under this or any other contract.

8. TERMINATION OF THE CONTRACT

Should the Contractor (for whatever reason) fail to execute the works in accordance with the terms and conditions stated herein, the Council reserves the right to cancel the contract forthwith without prejudice to Council and the Council shall not be held liable for any loss or damages resulting from such cancellation.

Further to the above, the Council reserves the right to enforce Clause 7 above including any other remedies it may deem necessary.

9. TERMS OF PAYMENT

Payment will be made by the Chief Financial Officer (CFO) within thirty (30) days on receipt of a certificate of payment issued by the Engineer and will be made by means of a cheque drawn upon the Council's bankers in Pietermaritzburg. No cash payments shall be made.

Where the value of the works exceed R3 000.00 excluding VAT, the Contractor must quote the Council's VAT Registration No. 4600107835 on all Tax Invoices for payment purposes.

Where offers of discounts eg for payment within thirty (30) days of rendering accounts, are made by Contractor, these will be taken into account in the adjudication of tenders. Contractors shall be required to have a bank account in the legal name of the Contractor as indicated on the Tax Clearance Certificate. No payment whatsoever will be made should the Contractor fail to comply with this requirement and the Council shall not be held liable for any loss or damages sustained by the Contractor in this regard.

10. PRICE ADJUSTMENT/ESCALATION

(a) In all cases where a tendered price is offered subject to adjustment, such adjustment shall be calculated in accordance with the following formula:-

$$E = \frac{V \times (I_e - 1)}{I_o}$$

Where:

- E = the amount of adjustment
- V = tendered price/value
- I_e = index applicable at the invoice date, and
- I_o = the base index

unless the Contractor expressly stipulates and sets out in detail an alternative formula in terms of which prices will escalate.

Where Contractors have linked their prices to manufacturers/suppliers price increase, full disclosure of the rates/prices must be submitted together with the tender.

(b) Notwithstanding the provisions of paragraph (a), the Council shall not be liable for adjustment unless the Contractor specifies a price index (or indices) in respect of the materials to be supplied.

(c) For the purpose of calculating the amount of adjustment in terms of any formula, the base index shall be the index for **March 2024** regardless of the actual due tender date.

- (d) The index for the previous month shall apply up to and including the 15th day of a month, thereafter the current month's index shall apply.
- (e) The applicable index (indexes) is: _____

In any case where a Contractor has complied with the conditions set out above, the Council shall nonetheless not be liable to pay for adjustment unless the Contractor, in submitting an account, submits, on each occasion the Contractor does so, a separate account reflecting the adjustment amount claimed together with all calculations and documents necessary to verify the claim.

Upon receipt of the claim account referred to above, the Council shall not however be obliged to settle the account until the amount claimed is verified by the Council's Auditors in terms of the preceding paragraphs.

The Contractor must please submit claims before 31 July for the previous financial year ending 30 June. No claims submitted after this date will be entertained.

11. GOVERNMENT CONTROLLED PRICES

Where the tendered price of any item placed on contract is controlled by the various Control Boards constituted under the Marketing Act or by the Price Controller, such price shall, in the event of any amendment to the price ruling at the time the tender was submitted being sanctioned by the Price Controller, be subject to a like increase or decrease as the case may be. Contractors must state clearly which items are subject to such control; unless this is done no payments will be made in the excess of the tendered prices. In the event of price control over any item on contract being withdrawn during the currency of the contract, the contract price applicable to such item thereafter shall not be higher than the price in operation immediately prior to the withdrawal of price control.

If the Contractor claims escalation, Clause 10 does not apply.

12. FORWARD COVER

The Contractor will be deemed by submission of a tender to hold or to have arranged forward foreign exchange cover on all imported goods or materials, with the cost thereof included in the price schedule. In any case which a Contractor tenders a price subject to exchange rate fluctuations, the exchange rate/s and the date/s thereof at which the goods or materials are offered are based must be clearly indicated on Annexure "A": Alterations by Tenderer. If no exchange rate/s is indicated, the tender prices shall be considered not subject to any exchange rate fluctuations.

13. INSURANCE AND RAILAGE RATES ETC

Should there be any increase in the statutory rates of freight, insurance and railage, a pro rata increase or decrease shall be made in the price of the material delivered. The contractor shall notify the Municipal Manager, or the Chief Financial Officer, or the Head: Supply Chain Management as the case may be of any variation in rates as soon as the Contractor is aware of them.

A claim for increased freight, insurance and railage will be admitted on production of the original papers showing clearly that the amount has been paid by the contractor.

14. ASSIGNMENT AND SUBLETTING

Neither the Supplier nor the Council shall assign the contract or any part thereof or any benefit or interest therein or thereunder without the written consent of the other.

The Supplier shall not sub-let the whole or any part of this contract without the written consent of the Engineer and such consent, if given, shall not relieve the Supplier from any liability or obligation under the contract.

15. SECURITY OF INFORMATION

Subject to the provisions of the Promotion of Access to Information Act, the information revealed in this tender document is to be classified as confidential. Accordingly, the Engineer reserves the right to request references and generally examine bona fides and available facilities of any company of firm wanting to participate in this contract.

16. LAW TO APPLY

The contract shall in all respects be construed in accordance with the law of the Republic of South Africa, and any difference that may arise between the Council and the Contractor in regard to the contract shall be settled in the Republic of South Africa.

17. PATENT RIGHTS

The Contractor shall pay all royalties and expenses and be liable for all claims in respect of the use of patent rights, trade marks or other protected rights, and shall hold the Council indemnified and harmless against any claims for loss or damage to (including legal expenses) arising therefrom.

18. SEQUESTRATION OR SURRENDER OF CONTRACTOR'S ESTATE

In the event of an order being made for sequestration of the Contractors estate, whether provisional or final, or in the event of an application being made for such order, or in the event of the Contractor making application for the surrender of the Contractors estate, or if the Contractor shall enter into, make or execute any deed of assignment or other composition or arrangement with, or assignment for the benefit of the Contractors creditors, or purport to do so, or if the Contractor, being a company, shall pass a resolution, or if the Court shall make an order for the liquidation of such company, the Council shall have the right, summarily and without recourse to law, to terminate the contract without payment of any compensation to the Contractor, and without prejudice to the right of the Council to sue the Contractor for any damages sustained by it in consequence of one or the other of the afore-mentioned events.

19. CONTRACT TO BE IN CONFORMITY WITH BY-LAWS AND ANY OTHER APPLICABLE LAWS

The contract shall be carried out subject to and in conformity with any law, regulation or By-law which is of application thereto and shall be conditional upon any necessary consent required by law being obtained.

THE MSUNDUZI MUNICIPALITY

LEGISLATION

1.0 GENERAL

1.1 Contractors will be deemed by virtue of submitting a tender to have undertaken to be aware of and comply fully for all purposes under this contract with all current legislation and related regulations. The following Acts, as amended from time to time, are listed for the attention of the Contractor, without prejudice and without in any way relieving the Contractor of the obligation to continuously comply with all the laws of South Africa for the entire duration of this contract, the cost of so doing being expressly included in the contract sum. It is the sole duty of the Contractor to ensure that it acquaints itself and complies with all applicable legislation. **The Council shall not be liable in any way whatsoever for any errors or omissions in the legislation listed herein.**

2.0 THE OCCUPATIONAL HEALTH AND SAFETY ACT (ACT 85 OF 1993) (OHS ACT)

2.1 The OHS Act covers *inter alia* "any work in connection with –

- a) the erection, maintenance, alteration, renovation, repair, demolition or dismantling of an addition to a building;
- b) the installation, erection or dismantling of machinery;
- c) the construction, maintenance, demolition or dismantling of any bridge, dam, canal, railway, street, runway, sewer or water reticulation system or work on any similar project;
- d) the moving of earth, clearing of land or making of an excavation or work on any similar project." (General Administrative Regulations Clause 1).

It is recorded that the subject of this contract falls within the scope of the foregoing work definition, and that the Employer in terms of this contract is the Mandator and that the Contractor is the Mandatory in terms of the OHS Act.

2.2 The OHS Act covers *inter alia* "any work in connection with -

- a) the erection, maintenance, alteration, renovation, repair, demolition or dismantling of an addition to a building;
- b) the installation, erection or dismantling of machinery;
- c) the construction, maintenance, demolition or dismantling of any bridge, dam, canal, railway, street, runway, sewer or water reticulation system or work on any similar project; and
- d) the moving of earth, clearing of land or making of an excavation or work on any similar project." (General Administrative Regulations Clause 1).

It is recorded that the subject of this contract falls within the scope of the foregoing work definition, and that the Employer in terms of this contract is the Mandator and that the Contractor is the Mandatory in terms of the OHS Act.

2.3 The arrangements and procedures to ensure compliance by the Mandatory with the provisions of the OHS Act referred to in the Agreement, in Annexure "B", between the Employer and the Contractor in this contract are:

- 2.3.1 The Mandatory shall keep a record of all incidents in terms of Clause 10 (1) of the General Administration Regulations (GAR).
- 2.3.2 The Mandatory shall cause every incident to be investigated in terms of Clause 10 (2) of the GAR.

- 2.3.3 The Mandatory shall cause all such records to be examined by a Safety Committee in terms of Clause 10 (3) of the GAR.
- 2.3.4 The Mandatory shall on demand furnish the divisional inspector with such returns as may be required in terms of Clause 14 of the GAR.
- 2.3.5 The Mandatory shall charge a full-time employee designated in writing by the Mandatory with the duty of supervising the performance of the work (or the Mandatory may personally undertake this duty) in terms of Clause 11 of the General Safety Regulations.
- 2.3.6 The Mandatory shall, before commencing or carrying out the work, inform the divisional inspector in writing of:-
- a) the address of the premises on which such work will be carried out;
 - b) the nature of such work;
 - c) the date on which it is expected that such work will be commenced; and
 - d) the date on which it is expected that such work will be completed.

all in terms of Clause 15c of the GAR

- 2.3.7 The Mandatory shall comply with all other aspects of the OHS Act relative to the nature of the works and shall scrupulously observe and execute any instruction given by an official inspector with reference thereto.

3.0 THE COMPENSATION FOR OCCUPATIONAL INJURIES AND DISEASES ACT (ACT 130 of 1993) (COID ACT)

- 3.1 Contractors are required to register as employers in terms of the COID Act.
- 3.2 Contractors must pay the assessments due in terms of the COID Act relative to their employee records including all sub-contractors and community based labour.
- 3.3 In this specific contract the Contractor further acknowledges that the Employer shall have the right, without prejudice, to deduct any shortfall in compensation due to any employee of the Contractor (or sub-contractor) from monies due or which may become due to the Contractor, and so effect settlement of the matter.

4.0 THE LABOUR RELATIONS ACT (ACT 66 of 1995) (LR ACT)

- 4.1 Contractors are required to register as employers in terms of the LR Act.
- 4.2 Contractors are required to pay all employee and employer contributions to the Unemployment Benefits Fund, other than in respect of casual employees defined as persons who work for less than eight hours in any one week, or in respect of persons who by virtue of lawful reasons are exempt therefrom.

5.0 THE BASIC CONDITIONS OF EMPLOYMENT ACT (ACT 3 of 1983) (BCE ACT)

- 5.1 Contractors in their capacity as employers are required to comply with the provisions of the BCE Act with special reference to their employees' terms and conditions of employment.

6.0 THE INCOME TAX ACT (ACT 58 of 1962)

- 6.1 Contractors in their capacity both as business enterprises and employers are obliged to register and comply with the requirements of the Receiver of Revenue.

7.0 THE VALUE ADDED TAX ACT (ACT 89 of 1991)

- 7.1 Contractors in their capacity as business enterprises are required, if their annual turnover exceeds or is expected to exceed R150 000 by the end of February each year, to register as VAT vendors with the Receiver of Revenue for the purpose of paying, recovering, charging and returning VAT to the State via the Receiver of Revenue.
- 7.2 It is recorded that the Employer in this contract is registered as a VAT vendor.

8.0 THE ENGINEERING PROFESSION ACT OF SOUTH AFRICA (ACT 114 of 1990)

- 8.1 Where work undertaken in connection with this contract falls within the meaning of "*kinds of work reserved for professional engineers*" as fully set out in the Engineering Profession Act of South Africa 1990, or any amendments thereof, only persons registered in terms of the above Act, may assume full responsibility, according to competency under the Act, for the respective sections and phases of such work, as described in the Act, particularly in regard to design, supervision of construction and installation, and commission where applicable.
- 8.2 The Service Providers shall submit a certificate with the tender certifying compliance with all these requirements in connection with the preparation and submission of the tender and shall give an undertaking to comply in full during the contract period. Where applicable the Service Providers shall submit at the time of tendering the name(s), qualifications and address(es) of the Professional Engineer(s) responsible for the various disciplines and portions of the work comprising this contract.

9.0 NON-COMPLIANCE

- 9.1 The Employer in this contract will not under any circumstances be, or become party to, any act or omission by the Contractor and/or the Contractor's Sub-contractors and/or employees, which contravenes South African law.
- 9.2 Notwithstanding anything to the contrary in this tender document, and in addition to any other remedies the Council may have, if at any time during this contract, the Council discovers any contravention of the laws expressly mentioned herein or any other applicable law, then the Council shall have the right to cancel this contract forthwith. In such event, the Council shall not be liable for any loss or damages caused by such cancellation.

MSUNDUZI MUNICIPALITY

SUPPLIES & SERVICES CONTRACT No. 71 OF 2024: SECTIONS A AND B

**SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE
WATER AND SANITATION TELEMETRY AND SCADA INFRASTRUCTURE**

**STANDARD SPECIFICATION FOR THE PURCHASE OF EQUIPMENT, PLANT,
VEHICLES AND MATERIALS**

1. SCOPE

This specification covers the general responsibilities applicable to the contract.

2. DEFINITIONS

Approved/Approval: Approved/approval by the Engineer.

Satisfactory: Capable of fulfilling or having fulfilled the intended function to the satisfaction of the Engineer.

3. ABBREVIATIONS

Wherever the following abbreviations and terms are used, they shall be deemed to refer to the latest edition, including all amendments, published before the day which is 90 days before the closing date for receipt of tenders, and shall be interpreted as follows:

ASTM	:	American Society for Testing Materials
BS	:	British Standard
BSCP	:	British Standard Code of Practice
SABS	:	South African Bureau of Standards
SMTM	:	Standard Methods of Testing Materials of the Department of Transport of the Republic of South Africa
SIS	:	Swedish Institute of Standards
AASHTO	:	American Association of State Highway and Traffic Officials
CSIR	:	Council for Scientific & Industrial Research
BRTA	:	British Road Tar Association
CBR	:	California Bearing Ratio
DDL	:	Draw Down Level
FSL	:	Full Supply Level
USBR	:	United States Bureau of Reclamation
RL	:	Reduced Level

4. NO LIMITATION BY DESCRIPTION

Nothing appearing in the Specification or Schedule of Quantities/Equipment shall limit the obligations and liabilities of the Supplier, the Engineer or the Council under the Standard Conditions of Contract.

5. APPROVAL

Any approval by the Engineer of any materials or plant and its operation, will not imply any relaxation of the Clauses of the Specifications governing the quality of the materials or of the finished work, nor relieve the Supplier of his responsibilities under the Contract.

THE MSUNDUZI MUNICIPALITY

SUPPLIES & SERVICES CONTRACT No. 71 OF 2024: SECTIONS A AND B

SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE WATER AND SANITATION TELEMTRY AND SCADA INFRASTRUCTURE

SECTION A: TELEMTRY AND INSTRUMENTATION

SECTION B: SCADA ENGINEERING AND SUPPORT

SPECIFICATIONS

1.0 SCOPE OF WORKS

1.1 The scope of contract calls for the appointment of suitably experienced, qualified and skilled Service Provider/s for the **Supply, Delivery, Installation, Commissioning, Repairs and Maintenance to the Water and Sanitation Telemetry and SCADA Infrastructure** for a period of three (3) years commencing from date of award.

1.2 The supply and services work to be undertaken in this contract will comprise of the following two Sections:

1.2.1 **SECTION A: TELEMTRY AND INSTRUMENTATION:** Supply, delivery, installation, commissioning and repairs of various telemetry, instrumentation and associated equipment (Schedule 1: Technical Requirements and Specifications: Item A: Telemetry and Instrumentation). Labour rates for the installation, repairs and maintenance for the telemetry, instrumentation and associated equipment have been included, should it be required.

1.2.2 **SECTION B: SCADA ENGINEERING AND SUPPORT:** Provision of support services associated to the Water Adroit SCADA software upgrades, maintenance, upgrades and configurations. (Schedule 2: Technical Requirements and Specifications: Item B: SCADA Engineering and Support). The contract shall serve to provide the annual software maintenance (ADROIT Group Wide Licence), site engineering projects and maintenance visits by the Service Provider as required by Msunduzi Municipality Water and Sanitation to facilitate the maintenance, review and approval of new SCADA projects and the on-going need to ensure correct and proper operation of the installed Adroit SCADA software.

The services for the SCADA system shall comprise of:

1.2.2.1 General System Support

1.2.2.2 Adroit Software, and General System Maintenance

1.2.2.3 Ad Hoc Support and Ad Hoc Site-specific Enhancement Engineering

1.2.2.4 Adroit product licensing, Hardware Procurement and Training

1.2.3 Prospective Service Providers may submit proposals in respect of one (1) or both Sections, provided that where they submit proposals in respect of both Sections A and B, they shall, in their tender submission, fully substantiate their claims for points separately in respect of each Section.

Prospective Service Providers must ensure that they clearly identify, in their submissions, the Sections in respect of which they are submitting proposals.

- 1.2.4 Any associated equipment, that is part of the respective installation or repair that are not listed in the detailed specification, be accepted as “Buy Out Items” with a maximum of 10% handling fee on addition to the purchase invoice amount, for both Sections A and B.

2.0 PROJECT CHAMPION

For any technical related enquiries regarding these specifications, Service Providers must contact the following Project Champion:

Name:	Dinesh Ramkishwar
Contact No.:	033-392 254 0
E-mail	dinesh.ramkishwar@msunduzi.gov.za.

3.0 NON-COMPULSORY TENDER BRIEFING MEETING

A non-compulsory Tender Briefing Meeting will be held at 10h00 prompt on Thursday, 18 April 2024, In the Water & Sanitation Boardroom, 3rd Floor, Professor Nyembezi Building, 341 Church Street, Pietermaritzburg, 3201. Only one Tender Briefing Meeting will be held. An official will chair the meeting and answer queries raised by prospective Tenderers. Any amendment to the tender documentation arising from such answers will be circulated in terms of the meeting's attendance register.

4.0 MINIMUM THRESHOLD FOR LOCAL PRODUCTION AND CONTENT

The 2022 PPPFA and the SCM Policy are silent with local production and content.

5.0 MANDATORY REQUIREMENTS

5.1 SECTION A: TELEMETRY AND INSTRUMENTATION

5.1.1 Key Personnel: Academic Qualification & Experience

The Tenderer shall ensure that the proposed key personnel to be appointed on the contract, should their tender be accepted, shall meet the following *minimum* qualifications and experience:

a) Project Manager/Engineer:

A minimum NQF 7 Qualification in Electrical Engineering or Computer Science or Information Systems & Technology with 5 years or more relevant and related experience.

b) Technician:

A minimum NQF 6 Qualification In Light Current Electrical Engineering & Instrumentation or Information Systems & Technology with 5 years or more relevant and related experience.

c) **Artisan:**

A minimum NQF 5 Qualification In Light Current Electrical Engineering with 5 years or more relevant and related experience

5.1.2 ***Failure to comply with the minimum qualification requirements of key personnel mentioned in 5.1.1 above, shall result in the tenderer being disqualified.***

5.1.3 The Tenderer shall supply the Curriculum Vitae (CV's) of the proposed key personnel (as evidence of qualifications and experience). The CV should follow the normal Professional Format. ***Failure to provide CV's of the proposed key personnel shall result in the tenderer being disqualified.***

5.2 SECTION B: SCADA ENGINEERING AND SUPPORT:

5.2.1 It is mandatory for the Service Provider to be either:

5.2.1.1 Accredited as an Adroit Technologies Authorized System Integrator (ASI) for a minimum period of two (2) years with the ASI Accreditation still being valid. The Service Provider must also have a minimum of two (2) years' recent working experience with Adroit SCADA Products. The Service Provider ***must*** submit a copy of the Authorized System Integrator (SI) accreditation as well as documentation (copies of appointment letters or completion certificate or reference letters) to demonstrate the successful completion of projects related to Adroit Products, for a minimum period of two (2) years.

OR

5.2.1.2 The Software Developer, in which case, the Service Provider must provide a letter of confirmation that states that they are the Software Developer of the Adroit Technologies SCADA Products.

5.2.2 Only Tenderers who are compliant with criteria 5.2.1.1 or 5.2.1.2-above, will be considered for Stage Two Evaluation Criteria: 80/20 Point System.

5.2.3 ***Failure to provide the ASI accreditation and supporting experience evidence shall result in the tenderer being disqualified.***

6.0 DETAIL SPECIFICATION

6.1 Section A: Telemetry and Instrumentation:

6.1.1 The Telemetry Infrastructure includes all RTU's, I/O modules, communication devices, level and flow instrumentation, PLCs and other electronic devices.

6.1.2 The supply, delivery, repairs and maintenance of Telemetry and Instrumentation Equipment shall be on an ***ad-hoc basis***.

6.1.3 Annexure A: Schedule 1, lists the required Telemetry Infrastructure components with their respective specifications, standards and/or compliances

- 6.1.4 All the equipment and installations shall comply with the following standards and any subsequent additions or amendments as a minimum;-**
- **South African National Standards (SANS 10142-1)**
 - **ISO Standards on equipment manufacture quality assurance and instruments calibration**
 - **Restriction of Hazardous Substances**
 - **Equipment Ingress Protection Standards**
- 6.1.5 The Service Provider shall submit, when required, a Functional Design Specification (FDS) document for approval by the Employer and Engineer. The document shall specify in detail how the Contractor's equipment setup and configuration conforms to the required Specification and shall include the following:**
- **Technical specifications for all equipment (hardware and software) supplied;**
 - **manufacturer's agreement on equipment's usage**
 - **manufacturer's model numbers**
 - **performance specifications**
 - **instrumentation devices' calibration certificates**
 - **environmental specifications**
 - **power consumption dimensions**
- 6.1.6 The Service Provider shall, when required, provide the following documentation on projects:**
- **Project Charter Documents that define the overview, scope and roles and responsibilities.**
 - **Factory Acceptance Test (FAT) that define the procedures for testing the system, fully configured and connected, at the Contractor's premises before shipment to site.**
 - **Site Acceptance Test (SAT) which define procedures for acceptance testing of the system after installation and commissioning at site.**
 - **Drawings of the installed system/s and includes the operational manual, user manuals, configurations, troubleshooting procedures, wiring diagrams (hard and soft copy) etc.**
- 6.1.7 The successful Tenderer will be required to enter into a Service Level Agreement (SLA) with the Msunduzi Municipality. The SLA will address the following service levels:**
- **Problem Management**
 - **System Availability**
 - **Support Services**
 - **Problem Severity Classifications**
 - **Support Response Times**
 - **Problem Escalation**
- 6.1.8 The successful Service Provider shall ensure compliance of Msunduzi's ICT policies and requirements as listed in Item 9.0 below.**

6.2 Section B: SCADA Engineering and Support:

6.2.1 General System Support

6.2.1.1 Normal Telephonic Support

All remote support including telephonic, e-mail, and Virtual network tools (eg. Team Viewer and VPN) must be included 24/7/365. Telephonic support during business hours and, should support be required out of the normal working hours an Emergency contact must be available. A 24hr remote support must be included.

6.2.1.2 Emergency Support

A fifteen (15) minute response via telephonic and remote support must be available after normal working hours.

Should Msunduzi Municipality Water have a catastrophic failure at any of its SCADA sites (defined as both Agent Servers fail and cannot be restarted by the site personnel), the Service Provider shall undertake to have a member of their suitably qualified support team on-site, or an authorized System Integrator on site within two (2) hours of the receipt of a phone call. Emergency contact numbers must be provided.

6.2.2 Adroit Software, OS, Security, Network and General System Maintenance

Msunduzi Municipality shall be responsible to maintain all hardware, operating systems, networks and peripherals, and firewalls however, the Service Provider shall provide support and guidance in line with the software developer's (Adroit Technologies) recommendations. The Service Provider's suitably qualified engineer or system integrator will maintain the Water SCADA upon prior approval and agreement from both the Service Provider and Msunduzi Municipality's Water and ICT Departments.

NO changes shall be made to the operating environment without prior approval of Msunduzi Municipality Water, ICT and the successful Service Provider. Furthermore, all changes shall be done in line with Msunduzi Municipality's ICT policies.

The successful Service Provider shall notify Msunduzi Municipality Water SCADA representative/s of any changes or software updates recommended for installation during the duration of the contract.

The successful Service Provider shall ensure compliance of Msunduzi's ICT policies and requirements as listed in Item 9.0 below.

6.2.3 Ad Hoc Support, Ad Hoc Site-specific Enhancement Engineering hours and Standard Operating Procedures

a) The Service Provider shall provide a suitably qualified support engineer or a suitably qualified System Integrator to carry out any remote support. The support shall take place during the week and the duration is based on the specific requirement/s defined beforehand.

b) Ad-hoc Engineering Enhancement hours (for current sites and future sites) shall be 48 in-house Hours per year.

These hours are to be used at the discretion of Msunduzi Municipality Water for SCADA enhancement on current sites.

c) Responsibilities and Deliverables of the Service Provider:

A detailed check list will form the basis of the site work. As items are completed it will be necessary for the person responsible for the systems at the relevant Msunduzi Municipality Water sites to sign-off on each aspect. This shall assist in Quality Assurance management. The following shall form the basis of the list (upon prior approval) but the list may change from time-to-time as agreed by both Msunduzi Water and the Service Provider.

- i.) Make a back-up of the current Adroit installed program files and record the general status of the system
- ii.) Make a backup of the configuration files
- iii.) Run physical hardware check software utility, to provide a history and an indication of a number of physical system parameters. Provide comments in the site report to minimize the risk, for example, of the site running out of memory, recommendations on the site/s that they need to be upgraded and look at other items that pose a significant risk to the SCADA installation.
- iv.) Run utilities including WGP Inspector that analyses the database file. Based on the results, maintenance must be done on the system, including clean-ups of tags not used etc.; any work done must be included in the site report.
- v.) Perform Adroit and other applicable software upgrades
- vi.) Include a record of what application/s or other processes are running on the machine, and any abnormalities should be recorded and investigated in conjunction with the site. This would show if sundry programs are being loaded and run, minimizing the risk to the Adroit Agent Server machines.
- vii.) Address any issues, technical queries etc. raised by Msunduzi Water personnel, including any configuration issues or requirements.
- viii.) Perform a final system checks and make final backups

d) Operation specific skills development

At least once a year the Service Provider shall allocate time to present to Msunduzi Water SCADA the latest features, any utilities and any other useful items pertaining to the Adroit software.

- e) A draft technical report shall be submitted to the responsible site representative on the last day of any services rendered (on-site or Remote login). The Final report shall be submitted within 7 days to the Msunduzi Water SCADA representative/s.

f) The Responsibilities and Deliverables of Msunduzi Municipality Water.

- i) Suitably qualified staff shall be available to assist the Service Provider's personnel.
- ii) Should any downtime occur due to the SCADA system failure, the Msunduzi Water SCADA representative shall inform the Service Provider by way of an incident report.
- iii) Incidents that require attention of the Service Provider's expertise shall be submitted by email on an official incident report document (to be designed by Msunduzi Municipality Water)

g) Modus Operandi And Responses To Incidents

- i.) Formal incidents shall be investigated and a written or telephonic response shall be given within 24 hours during the normal course of business, Monday to Friday or the next working day and shall be dealt with in the normal support system which captures and monitors such standard incidents.
- ii.) Should anomalies be noticed that are detrimental to the Msunduzi Municipality Water system, following an upgrade, the Msunduzi Municipality Water Site must have the capability of returning the system to its previous state that existed prior to the visit as per the documented Disaster Recovery Plan.
- iii.) Such incidents shall be reported in the usual manner and the Service Provider shall undertake to respond in writing (by e-mail) to Msunduzi Municipality Water within 24 hours as described above.
- iv.) Any changes of the software or installing of patches shall done in line with Msunduzi Municipality's ICT policies and shall be done in conjunction and consultation with the Service Provider's software and support engineers.
- v.) In the event that a reported problem cannot be resolved remotely, a suitably qualified representative shall be made available by the service provider to resolve the problem on site, at no cost to Msunduzi Municipality Water.

h) On-Site Group Wide Support

Five (5) Days (Group Wide) Engineering shall be included. (40 Ad-Hoc Group Wide on-site Hours) per annum.

i) Support

The availability and supply of support services during Core Business Hours by telephone or email. Remote support shall be via Secure VPN.

j) Support Call-Outs

Rates for Ad-hoc Call-Outs are listed in Schedule 2, Item B, Item Ref 2.4. The on-site rate is based on an 8hr normal working day and shall include any travel and accommodation.

6.2.4 Adroit product licensing, Hardware Procurement and Training

6.2.4.1 Period of Group Wide Licence

The GROUP WIDE Licence Agreement for MSUNDUZI MUNICIPALITY WATER shall apply for a period of twelve (12) calendar months following placement of order. The GROUP WIDE Licence Agreement shall roll over for a period of 24 months following the initial 12-month period. The full period shall be thirty-six months.

6.2.4.2 Hardware Procurement

The service provider shall supply related IT hardware for current and future SCADA servers and client machines, as and when required, and as specified by Msunduzi Municipality WATER as "Buy Out Items" with a maximum of 10% handling fee on addition to the purchase invoice amount.

6.2.4.3 Training

Training on the application software shall be offered on an ad-hoc basis.

6.2.5 The successful Tenderer will be required to enter into a Service Level Agreement (SLA) with the Msunduzi Municipality. The SLA will address the following service levels:

- Problem Management
- System Availability
- Support Services
- Problem Severity Definitions
- Support Response Times
- Problem Escalation hierarchy
- Adroit SCADA Ad Hoc Enhancement Engineering Hours
- Engineering Enhancement or SCADA Intelligence Engineering Response

7.0 CONTRACT PERIOD

The Contract Period is 36 months, starting from the date of the Letter of Appointment.

8.0 PLACE OF DELIVERY AND DELIVERY PERIOD

8.1 Section A: Telemetry and Instrumentation

The goods are to be delivered to the Telemetry Workshop, No. 2 Alexandra Road, Pietermaritzburg, unless otherwise required. The Msunduzi Municipality has several telemetry sites throughout the city and equipment and/or services may need to be delivered at the respective telemetry site located within the boundaries of the Msunduzi Municipality. The cost of the delivery must be included in the tendered unit costs.

The delivery period of the tendered items must be entered into the column "Delivery Period (Days)" in the TECHNICAL REQUIREMENTS AND SPECIFICATIONS: SECTION A: TELEMETRY AND INSTRUMENTATION schedule.

8.2 Section B: SCADA Engineering and Support

The goods and services shall be delivered to the Water and Sanitation Department's Monitoring Control at Professor Nyembezi Building, 3rd Floor, 341 Church Street, Pietermaritzburg, unless otherwise agreed upon.

9.0 COMPLIANCE WITH MSUNDUZI ICT POLICIES AND REQUIREMENTS

The successful Tenderer shall comply with Msunduzi Municipality's Information and Communication Technology (ICT) policies and the following requirements:

9.1 Compatibility with Existing ICT Infrastructure:

- The proposed telemetry and SCADA infrastructure shall seamlessly integrate with the existing ICT systems, including network infrastructure and data centre resources.
- The Service Provider shall ensure that the telemetry and SCADA solutions comply with the current ICT hardware and software standards.
- The system shall be SAP and MSCOA compliant.

9.2 Security and Data Protection:

- The Service Provider shall adhere to the highest standards of cybersecurity to protect the telemetry and SCADA systems from potential threats.
- The Service Provider shall implement data encryption and access controls to safeguard sensitive information collected by the systems.

9.3 System Availability and Redundancy:

- The telemetry and SCADA systems should have mechanisms for high availability and redundancy to minimize downtime and ensure continuous operation.
- Consider backup and disaster recovery solutions to mitigate the risk of data loss or system failures.

9.4 Network and Communication Protocols:

- The telemetry and SCADA systems shall use communication protocols compatible with Msunduzi's ICT network infrastructure.
- Evaluate the impact of telemetry data traffic on the network and consider any necessary network upgrades or optimizations.

9.5 Compliance with Regulatory Standards:

- The Service Provider shall ensure that the telemetry and SCADA systems adhere to industry standards and regulatory requirements, particularly in the context of data privacy and security.
- The SCADA System shall adhere to all AG Regulations.

9.6 Reporting and Documentation:

- The Service Provider shall provide comprehensive documentation including system configurations, maintenance procedures, and technical specifications.

10.0 INSURANCES REQUIRED

Third Party Public Liability in the amount of R2 million. (Unlimited claims per occurrence, renewed annually)

The Insurance must be kept in force for the full duration of the contract period. Tenderers attention is drawn to Clause 10, page 9 of the Standard Conditions of Tender. The cost of the Insurance is to be included in the tendered rates.

11.0 CONDITIONS OF CONTRACT GOVERNING THE CONTRACT

The General Conditions of Contract for Construction Works (GCC) 2015. (As amended)

12.0 RETENTION AND SURETIES

Not applicable

13.0 PENALTIES

In order to ensure that the appointed Service Provider adheres to the timeframes in terms of the contract, it is proposed that a penalty of 0.1% of the contract value (or min R1 000.00) per day be levied for late delivery of the Works.

14.0 COMPLIANCE WITH ANY LEGISLATION, BYLAWS, ETC.

The contract shall be carried out subject to and in conformity with any law, regulation or By-law which is of application thereto, and shall be conditional upon any necessary consent required by law being obtained.

The following standards shall apply:

- (1) The Occupational Health and Safety (OHS) Act (Act No. 85 of 1993)
- (2) The Compensation for Occupational Injuries and Diseases (COID) Act (Act No. 130 of 1993)
- (3) The Labour Relations Act (Act No. 66 of 1995)
- (4) The Basic Conditions of Employment (BCE) Act (Act No. 3 of 1983)
- (5) The Income Tax Act (Act No. 58 of 1962)
- (6) The Value Added Tax (VAT) Act (Act No. 89 of 1991)
- (7) The Municipal Finance Management Act (MFMA) (Act No. 56 of 2003)
- (8) The Municipal Systems Act (Act No. 32 of 2000)
- (9) The Municipal Supply Chain Management Regulations, 2005
- (10) The Preferential Procurement Policy Framework Act (PPPFA), 2005
- (11) The Preferential Procurement Regulations, 2017
- (12) The Msunduzi Municipality's Supply Chain Management (SCM) Policy
- (13) The Msunduzi Municipality's By-laws
- (14) The South African Bureau/National of Standards (SABS/SANS) and IEC Standards
- (15) General Conditions of Contract 2015
- (16) National Treasury Instruction Circular on Local Content
- (17) Independent Communications Authority of South Africa Act, Act No 13 of 2000 (ICASA Act)
- (18) The Electronic Communications Act, Act No 35 of 2005, as amended

Any other relevant Legislation pertaining to this contract.

15.0 GUARANTEE/WARRANTY

Q

- 16.1 All equipment offered shall carry a minimum of one (1) year guarantee/warranty from date of delivery.

16.2 The guarantee/warranty shall include for *any* shipping costs (including to and from the manufacturer, if required) associated with the repair/replacement of any equipment

16.0 INSPECTION OF CONTRACTOR'S PREMESIS

The Municipality reserves the right to inspect the Tenderer's premises to verify capacity and other tender aspects for adjudication purposes. Should it be deemed that the Tenderer's premises does not meet the satisfaction of the Engineer, then the Council reserves the right to deem the Tenderer's tender void.

17.0 PRESENTATION

The Municipality reserves the right to call for presentations if it deems necessary. The cost of such presentations shall be borne entirely by the Tenderer and at no extra cost to the Municipality. When called upon to do so and should the Tenderer fail to demonstrate their equipment, the tender shall be declared void.

18.0 ESCALATION

18.1 The Tendered prices will remain fixed for the first twelve months of the Contract. Thereafter, the Contract will be subject to:

18.1.1 Annual CPI escalation.

18.1.2 Rate of Exchange for imported items only.

19.2 The Tenderer shall provide a list of all imported items that are subjected to the exchange rate. The Rate of Change Escalation shall only apply to the listed items. Should the Tenderer fail to provide such list, it shall be deemed that the items are not imported and the Council shall not make any payment in this regard.

19.0 MAINTENANCE PERIOD

The maintenance period shall be twelve (12) months from date of project completion.

20.0 MATERIALS

All materials designated for use under the Contract shall carry the relevant SABS/SANS, ISO or other internationally recognized management standard marks and/or as specified. Only new materials are to be used. No sub-standard materials will be accepted.

21.0 EVALUATION CRITERIA

Tenders shall be evaluated on a Two Stage Evaluation System for Section A:

Stage One: Functionality and

Stage Two: 80/20 Point System in accordance with the Msunduzi Municipality's Supply Chain Management Policy (incorporating Preferential Procurement) as prescribed in terms of the Preferential Procurement Regulations 2022, pertaining to the Preferential Procurement Policy Framework Act, Act No. 5 of 2000.

21.1 STAGE ONE FUNCTIONALITY: SECTION A: TELEMETRY AND INSTRUMENTATION

The evaluation criteria to be used to evaluate tenders in Stage One: Functionality shall be as below:

21.1.1 Track Record of Service Provider

This section refers to the Service Provider's existence and experience, applicable to relevant & completed experience obtained, relevant to the Tender Scope of Works, and is based on the number of projects undertaken in the last five (5) years.

The Tenderer must provide evidence of successfully completed projects as per the project specification. All projects submitted as evidence shall be relevant to the discipline in terms of the specification.

This section takes into consideration that the Service Provider, as an entity, has gained relevant experience in the past and showcase that the Service Provider is in the business of the said Scope of Works.

21.1.2 Only Service Providers scoring a minimum of **72% or 18 points** and above shall be considered for further evaluation. Furthermore, each Service Provider must score a minimum of three (3) points in each of the three Evaluation Criteria.

21.1.3 SECTION A: TELEMETRY AND INSTRUMENTATION (MAX 25 POINTS)

STAGE ONE FUNCTIONALITY: SECTION A: TELEMETRY AND INSTRUMENTATION			
Criteria No.	Evaluation Criteria	Max. Points Allocation	Verification Method
1	Company Experience: Company in Existence	5	Copy of Company Registration Certificate
1.1	Less than 2 Year = 1 Point		
1.2	Between 2 and 3 Years = 2 Points		
1.3	Between 3 and 4 Years = 3 Points		
1.4	Between 4 and 5 Years = 4 Points		
1.5	Above 5 Years = 5 Points		
2	Company Experience: No of projects undertaken In the last five (5) years: The Supply, Installation, Configuration & Commissioning of Measuring Instrumentation, Telemetry and Database Systems	10	Copy of Appointment Letter/ Completion Certificate/
2.1	Number of projects: 1 to 3 = 3 Points		
2.2	Number of projects: 4 to 7 = 5 Points		
2.3	Number of projects: 8 to 10 = 8 Points		
2.4	Number of projects: Above 10 = 10 Points		

3	Company Experience: No. of projects undertaken in the last five (5) years: The Supply, Installation, Configuration & Commissioning of Telemetry Systems using GPRS / 3G / LTE	10	Copy of Appointment Letter/ Completion Certificate/ Reference Letter
3.1	Number of projects: 1 to 3 = 3 Points		
3.2	Number of projects: 4 to 7 = 5 Points		
3.3	Number of projects: 8 to 10 = 8 Points		
3.4	Number of projects: Above 10 = 10 Points		
Total Functionality Points		25 Points	
Threshold to Qualify for Stage Two		72% (18 Points)	

21.1.4 It must be noted that:

- a) Only Tenderers who achieve the minimum required score (of 18 points) and above, will be declared responsive and progress to Stage 2.
- b) In order to claim points, bidders must submit sufficient information as well as documentary proof of relevant experience relating to the Installation, Commissioning and Maintenance of Telemetry Systems, by means of copies of appointment letters or completion certificates or reference letters.
- c) If proof of testimonials and appointment letters, in reference to the attached Datasheets, are *not* provided, then the bidder shall obtain zero points on the respective evaluation criteria.

21.2 Price and Preference

Tenderers meeting the mandatory requirements and the minimum threshold for Section A: Telemetry and Instrumentation; and/or mandatory requirements for Section B: SCADA Engineering and Support shall be evaluated in terms of the 80/20 Preference Point System, as follows:

Price	:	80 Points
Preference Points (Ownership Specific Goals)	:	20 Points
TOTAL	:	100 Points

The allocation of Preference Points will be according to the following Ownership Specific Goals:

No.	Ownership Specific Goals	Points	Requirements/Verification
1	Race:	10	
1(a)	Enterprise with at least 51% Black ownership	10	Company and Intellectual Property Commission (CIPC) Certificate and CSD report
2	Locality:	10	
2(a)	Within Msunduzi	10	Proof of Business Address: Lease Agreement/Utility Bill in the name of the Business/one of its Directors. Alternatively, the address on the registration document will be used to allocate points.
2(b)	Within KZN	5	
2(c)	Within RSA	5	
Total Preference Points (Specific Goals)		20 Points	

22.0 PRICE SCHEDULE

The tendered rates must include the costs for all labour, plant, materials, fuel, insurances, etc. as no claims for extras shall be entertained during the execution of the contract.

23.0 SAMPLES

The Municipality reserves the right to call for samples during the tender evaluation stage. The cost of such samples shall be borne entirely by the tenderer, at no cost to the Municipality.

24.0 AWARD OF THE CONTRACT

This contract shall be awarded in whole to one (1) Tenderer scoring the highest No. of preference points in terms of the 80/20 Preference Point System for both Sections A and B or alternatively, the tender may be divided and awarded to one (1) Tenderer scoring the highest No. of preference points for Section A only and to another Tenderer scoring the highest No. of preference points for Section B only.

THE MSUNDUZI MUNICIPALITY

SUPPLIES & SERVICES CONTRACT No. 71 OF 2024 : SECTIONS A AND B

**SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE
WATER AND SANITATION TELEMETRY AND SCADA INFRASTRUCTURE**

SECTION A: TELEMETRY AND INSTRUMENTATION

SECTION B: SCADA ENGINEERING AND SUPPORT

**SCHEDULE 1: TECHNICAL REQUIREMENTS AND SPECIFICATIONS: SECTION A: TELEMETRY
AND INSTRUMENTATION**

No. OF PAGES - 20

SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE WATER AND SANITATION TELEMETRY AND SCADA INFRASTRUCTURE
SCHEDULE 1: TECHNICAL REQUIREMENTS AND SPECIFICATIONS: SECTION A: TELEMETRY AND INSTRUMENTATION

ITEM	ITEM DESCRIPTION	ITEM REF	DESCRIPTION	DELIVERY PERIOD (DAYS)	SPECIFICATIONS
A	TELEMETRY AND INSTRUMENTATION	1.0	Telemetry RTU Module (ELPRO DS-EL-415U-2-C4 or similar)		Compatible protocols supported (Integrated into the RTU module) Modbus RTU, Modbus TCP, DNP3 I/O, MQTT Client Wireless Radio Communication Integrated/Built-in LAN 1 x 10/100Base-T auto-MDIX RJ-45 Serial 1 x RS-232, 1 x RS-485, 1200-230400 bps Analogue Inputs 4 min (4 -20), and expandable Digital Inputs 4 minimum, and expandable Digital Output 4 minimum, and expandable Voltage Input 10 - 30VDC Security WPA2-PSK, AES 256 bit, multilevel password protected configuration Operation Internal Battery, Solar and External power IP Rating IP68 Communication 4G LTE and Wifi
		1.1	Telemetry RTU Module (ELPRO DS-EL-415U-2-C4 or similar)		GPS, Accelerometer, Amb Temp & Pressure, Supply Voltage Monitoring, Tamper detection Serial, Modbus RTU Master, CAN Bus
		1.2	Low Power Telemetry IOT Device (Senquip ORB-C1 or similar)		Supported Protocol Inputs/Outputs Endpoint 3rd party compatibility Compatibility and Intergratability
		1.3	Low Power Telemetry IOT Device (Senquip QUAD- C2 or similar)		Adroit SCADA Internal Battery, Solar and External power Operation IP Rating IP67 Communication 4G LTE and Wifi
		1.0	Low Power Telemetry IOT Device (Senquip QUAD- C2 or similar)		Internal Sensors Supported Protocol Inputs/Outputs Endpoint 3rd party compatibility Compatibility and Intergratability
		1.1	Low Power Telemetry IOT Device (Senquip QUAD- C2 or similar)		Operation IP Rating IP67 Communication 4G LTE and Wifi
		1.2	Low Power Telemetry IOT Device (Senquip QUAD- C2 or similar)		Internal Sensors Supported Protocol Inputs/Outputs Endpoint 3rd party compatibility Compatibility and Intergratability
		1.3	Low Power Telemetry IOT Device (Senquip QUAD- C2 or similar)		Adroit SCADA Internal Battery, Solar and External power Operation IP Rating IP67 Communication 4G LTE and Wifi
		1.0	Low Power Telemetry IOT Device (Senquip QUAD- C2 or similar)		Internal Sensors Supported Protocol Inputs/Outputs Endpoint 3rd party compatibility Compatibility and Intergratability
		1.1	Low Power Telemetry IOT Device (Senquip QUAD- C2 or similar)		Operation IP Rating IP67 Communication 4G LTE and Wifi

SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE WATER AND SANITATION TELEMETRY AND SCADA INFRASTRUCTURE
SCHEDULE 1: TECHNICAL REQUIREMENTS AND SPECIFICATIONS: SECTION A: TELEMETRY AND INSTRUMENTATION

ITEM DESCRIPTION	ITEM REF	DESCRIPTION	DELIVERY PERIOD (DAYS)	SPECIFICATIONS
TELEMETRY AND INSTRUMENTATION	1.0	Telemetry RTU Module (Microdev 320 or similar)		12-50VDC Integrated 16 x DIN (PNP), 8 x DOT (with optical isolation, 4 x AIN (16 bit min) Must have capability for expanding I/Os Ethernet x 1, RS 485 x 1, RS232 x 1 DNP3, Modbus RTU/ TCP, MQTT LTE Modem (integrated/on-board) External, 3 dbi, 3 meter DIN Rail 12-36VDC Integrated 4 x DIN (PNP), 4 x DOT (with optical isolation, 2 x AIN (12 bit min) Must have capability for expanding I/Os Ethernet x 1, RS 485 x 2, RS232 x 1 DNP3, Modbus RTU/ TCP and MQTT LTE Modem (integrated/on-board) External, 3 dbi, 3 meter DIN Rail
	1.0	Telemetry PLC Module (Microdev MP110 or similar)		Power Supply Real Time Clock Inputs/Outputs I/O Expansion Communication Ports Wireless Communication Antenna Mounting Power Supply Real Time Clock Inputs/Outputs I/O Expansion Communication Ports Communication Ports Wireless Communication Antenna Mounting Compatibility and Intergratability On-board I/O Voltage Input Ports
	1.0	SSE Maestro 3000/RTU12 CPU Module		SSE Range of Telemetry Devices 8 x DIN, 8 x DOT and 8 x AIN 9 - 17Vdc 4 x RS232 ports (1200 to 115200 bps) RJ45(EIA-561 Compatible) UHF Telemetry band (438-470 MHz) 12.5 kHz 2 minimum 10VDC to 30VDC 9600 and 19200 bps @ 12.5kHz Programmable between 1 and 5 W. +/- 1.5dB Continuous 50 Ohms -112 dBm typical @ 1x 10(-6) BER 40 dB nominal > 70 dB SSE Telemetry Infrastructure
	1.0	UHF Digital Radio for Telemetry (MDS SD4 or similar)		General: Frequency range Channel spacing No. of channels Power supply RF Data rate Transmitter: Carrier Power Output Carrier Power Accuracy Duty Cycle Output Impedance Receiver: Sensitivity Adjacent Channel Rejection Selectivity Compatibility and Intergratability

SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE WATER AND SANITATION TELEMETRY AND SCADA INFRASTRUCTURE
SCHEDULE 1: TECHNICAL REQUIREMENTS AND SPECIFICATIONS: SECTION A: TELEMETRY AND INSTRUMENTATION

ITEM	ITEM DESCRIPTION	ITEM REF	DESCRIPTION	DELIVERY PERIOD (DAYS)	SPECIFICATIONS
A	TELEMETRY AND INSTRUMENTATION	1,0	1,8	Motorola ACE RTU Housing Option 1	Housing/Mounting Type No I/O slot frame Basic (default) model Can be installed on a wall Power supply and CPU Capacity Options Can be ordered with metal chassis or housing options
		1,0	1,9	Motorola ACE RTU Housing Option 2	Housing/Mounting Type 3 x I/O slot frame Can be installed on a wall Power supply and CPU, up to 3 x I/Os Capacity Options Can be ordered with metal chassis or housing options
		1,0	1.10	Motorola ACE RTU Housing Option 3	Housing/Mounting Type Can be installed on a wall or in 19" rack/enclosure. Capacity Options Power supply and CPU, up to 8 I/Os Can be ordered with metal chassis option for accessories: 6.5 or 10 Ah Lead-Acid backup battery up to 2 radios; up to four plastic boxes.
		1,0	1.11	Motorola ACE RTU Housing Option 4	Housing/Mounting Type Large Metal NEMA 4X/IP65 Housing Enables installation of radio, backup battery and other accessories Capacity Options Can be installed on a wall Power supply and CPU, up to 7 x I/Os, 1 plastic interface box, up to 2 radios, 6.5 or 10Shr Lead-Acid backup battery
		1,0	1.12	Motorola ACE 12V DC Power Supply Module	Input Voltage Outputs 10.8-16 VDC Motherboard connector (to CPU and I/O modules): equal to input voltage, max. 4A AUX1A/AUX1B: equal to input voltage, max. 8 A AUX2A/AUX2B (configurable) Compatibility Motorola ACE Product line

SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE WATER AND SANITATION TELEMETRY AND SCADA INFRASTRUCTURE
SCHEDULE 1: TECHNICAL REQUIREMENTS AND SPECIFICATIONS: SECTION A: TELEMETRY AND INSTRUMENTATION

ITEM	ITEM DESCRIPTION	ITEM REF	DESCRIPTION	DELIVERY PERIOD (DAYS)	SPECIFICATIONS
A	TELEMETRY AND INSTRUMENTATION	1.0	1.13 Motorola ACE CPU 3610 Module		<p>On Board ports Serial 1 (S11)—RS232/RS485 serial port (config) Serial 2 (S12) — RS232 serial port Freescale Power PC II MPC8720, 32-bit 200 MHz Flash: 16 MB/3 MB free for user DRAM: 32 MB/10 MB free for user Real-Time Clock Full calendar with leap year support (year, month, day, hours, min, sec) 3 V Rechargeable lithium backup battery 4 CPU diagnostic LEDs, Port status LEDs and user application LEDs Typical: 4W (280 mA @ 13.8VDC); LEDs on: 4.4W (320mA @ 13.8VDC) Operating Voltage 10.8-16 V DC (from the motherboard connector)</p>
		1.0	1.14 Motorola ACE CPU 3640 Module		<p>On Board ports Serial 1 (S11)—RS232/RS485 serial port (config) Serial 2 (S12) — RS232 serial port Ethernet Port: 10/100 Mb/s Freescale — Power PC II MPC8720, 32-bit 200 MHz Flash: 16 MB/3 MB free for user DRAM: 32 MB/10 MB free for user Real-Time Clock Full calendar with leap year support (year, month, day, hours, min, sec) 3 V Rechargeable lithium backup battery 4 CPU diagnostic LEDs, Port status LEDs and user application LEDs Typical: 4W (280 mA @ 13.8VDC); LEDs on: 4.4W (320mA @ 13.8VDC) Operating Voltage 10.8-16 V DC (from the motherboard connector)</p>

SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE WATER AND SANITATION TELEMETRY AND SCADA INFRASTRUCTURE
SCHEDULE 1: TECHNICAL REQUIREMENTS AND SPECIFICATIONS: SECTION A: TELEMETRY AND INSTRUMENTATION

ITEM	ITEM DESCRIPTION	ITEM REF	DESCRIPTION	DELIVERY PERIOD (DAYS)	SPECIFICATIONS
A		1.0	1.15	Motorola ACE 16 Digital Input Module (ACE3600 or similar)	<p>16 DI</p> <p>Isolated groups of 16 inputs with shared common inputs that can be used as fast counters: All inputs in 16 DI module</p> <p>45-65 Hz</p> <p>Maximum 0.2 mS</p> <p>0 - 12.5 KHz, minimum pulse width 40 μS</p> <p>Max. +/-40 V DC (relative to input common)</p> <p>+9 to +30 VDC, -30 to -9 VDC</p> <p>3 to +3 VDC</p> <p>10 to 27 V AC (RMS)</p> <p>0 to 5 VAC (RMS)</p> <p>Max. 2.5 mA</p> <p>Status LED per each input, module error LED, 24V plug-in status LED</p> <p>Hot swap replacement</p> <p>10.8-16 V DC and 3.3 V DC (from the motherboard connector)</p> <p>16 DI: 0.32 W typical with all LEDs on (23 mA @ 13.8 VDC)</p>
		1.0	1.16	Motorola ACE 32 Digital Input Module (ACE3600 or similar)	<p>32 DI</p> <p>Isolated groups of 16 inputs and shared common</p> <p>Fast counter inputs: First 20 inputs in 32 DI module</p> <p>45-65 Hz</p> <p>Maximum 0.2 mS</p> <p>0 - 12.5 KHz, minimum pulse width 40 μS</p> <p>Max. +/-40 V DC (relative to input common)</p> <p>+9 to +30 VDC, -30 to -9 VDC</p> <p>3 to +3 VDC</p> <p>10 to 27 V AC (RMS)</p> <p>0 to 5 VAC (RMS)</p> <p>Max. 2.5 mA</p> <p>Status LED per each input, module error LED, 24V plug-in status LED</p> <p>Hot swap replacement</p> <p>10.8-16 V DC and 3.3 V DC (from the motherboard connector)</p> <p>16 DI: 0.55 W typical with all LEDs on (40 mA @ 13.8 VDC)</p>

SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE WATER AND SANITATION TELEMETRY AND SCADA INFRASTRUCTURE
SCHEDULE 1: TECHNICAL REQUIREMENTS AND SPECIFICATIONS: SECTION A: TELEMETRY AND INSTRUMENTATION

ITEM	ITEM DESCRIPTION	ITEM REF	DESCRIPTION	DELIVERY PERIOD (DAYS)	SPECIFICATIONS
A		1,0	1.17 Motorola ACE 16 Digital Output/Digital Input FET Module (ACE3600 or similar)		<p>16</p> <p>Total Number of I/Os</p> <p>I/O Arrangement</p> <p>Two groups of 8 I/Os with shared common Group configurable as FET DO or dry contact DI. Selectable combinations (16 DO/DI): 16 DO/8 DI+8 DO/16 DI+16 DI</p> <p>Counterinputs</p> <p>20 first inputs can be used as counter inputs</p> <p>Counter Input Frequency</p> <p>0 - 1 KHz, minimum pulse width 500 μs</p> <p>Max. DC Input Voltage</p> <p>Max. 30 V DC (relative to input common)</p> <p>Fast Capture Resolution</p> <p>1 mS (Interrupt upon change of state)</p> <p>Input Current Max.</p> <p>0.3 mA (when the inputs shorted)</p> <p>Output Type</p> <p>MOSFET</p> <p>Output Voltage Range</p> <p>5-30 V DC (user supplied voltage)</p> <p>DO Frequency</p> <p>Max. 1 KHz (resistive load)</p> <p>DO Output Current</p> <p>Max. 500 mA sink current (resistive load)</p> <p>Output Fail State</p> <p>Configurable output state on CPU fail: YES</p> <p>Diagnostic LEDs</p> <p>LED per each input / output status, module error LED</p> <p>Module Replacement</p> <p>Hot swap replacement</p> <p>Operating Voltage</p> <p>10.8-16 VDC and 3.3 VDC</p> <p>Power Consumption(measured at pwr supply in)</p> <p>16 DO/DI: 0.55 W typical with all LEDs/all outputs on (40 mA @ 13.8VDC)</p>
		1,0	1.18 Motorola ACE 32 Digital Output/Digital Input FET Module (ACE3600 or similar)		<p>32</p> <p>Total Number of I/Os</p> <p>I/O Arrangement</p> <p>Four groups of 8 I/Os with shared common Group configurable as FET DO or dry contact DI. Selectable combinations (32 DO/DI): 32 DO/8 DI+24 DO/16 DI+16 DO/24 DI+8 DO/32 DI</p> <p>Counterinputs</p> <p>20 first inputs can be used as counter inputs</p> <p>Counter Input Frequency</p> <p>0 - 1 KHz, minimum pulse width 500 μs</p> <p>Max. DC Input Voltage</p> <p>Max. 30 V DC (relative to input common)</p> <p>Fast Capture Resolution</p> <p>1 mS (Interrupt upon change of state)</p> <p>Input Current Max.</p> <p>0.3 mA (when the inputs shorted)</p> <p>Output Type</p> <p>MOSFET</p> <p>Output Voltage Range</p> <p>5-30 V DC (user supplied voltage)</p> <p>DO Frequency</p> <p>Max. 1 KHz (resistive load)</p> <p>DO Output Current</p> <p>Max. 500 mA sink current (resistive load)</p> <p>Output Fail State</p> <p>Configurable output state on CPU fail: YES</p> <p>Diagnostic LEDs</p> <p>LED per input / output status, module error LED</p> <p>Module Replacement</p> <p>Hot swap replacement</p> <p>Operating Voltage</p> <p>10.8-16 VDC and 3.3 VDC</p> <p>Power Consumption(measured at pwr supply in)</p> <p>1 W typical (72 mA @ 13.8 VDC)</p>

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ITEM	ITEM DESCRIPTION	ITEM REF	DESCRIPTION	DELIVERY PERIOD (DAYS)	SPECIFICATIONS
A	TELEMETRY AND INSTRUMENTATION	1,0	1.19 Motorola ACE 8 Analogue Input Module (ACE3600 or similar)		Total Number of Inputs Input Configuration A to D Resolution Input Accuracy Input Sampling Time Smoothing Permitted Potential Between Inputs Interference Suppression Diagnostic LEDs Module Replacement Operating Voltage Power Consumption (measured at pwr supply in) Total Number of Inputs Input Configuration A to D Resolution Input Accuracy Input Sampling Time Smoothing Permitted Potential Between Inputs Interference Suppression Diagnostic LEDs Module Replacement Operating Voltage Power Consumption (measured at pwr supply in)
		1,0	1.20 Motorola ACE 16 Analogue Input Module (ACE3600 or similar)		8 AI +/- 20 mA (4-20 mA) or 8 AI +/-5V (0-5 V, 1-5 V) Isolated (floating) analog inputs 16 bit (including sign) +/- 0.1% of full scale @ -40°C to +70°C 10 mSec @ 50 Hz filtering; 8.33 mSec @ 60 Hz filtering Selectable input averaging: 1,2,4,8,16,32,64,128 samples (x10 mS) 75 V DC, 60 V AC (RMS) Selectable 50 or 60 Hz filtering. Common mode rejection > 80 dB, Differential mode rejection > 50 dB Overflow and Underflow LED per each input status, Module error LED, 24V Plug-in status LED Hot swap replacement 10.8-16 V DC and 3.3 V DC 0.9 W typical with all LEDs on (65 mA @ 13.8 VDC) 16 AI +/- 20 mA (4-20 mA) or 16 AI +/-5V (0-5 V, 1-5 V) Isolated (floating) analog inputs 16 bit (including sign) +/- 0.1% of full scale @ -40°C to +70°C 10 mSec @ 50 Hz filtering; 8.33 mSec @ 60 Hz filtering Selectable input averaging: 1,2,4,8,16,32,64,128 samples (x10 mS) 75 V DC, 60 V AC (RMS) Selectable 50 or 60 Hz filtering. Common mode rejection > 80 dB, Differential mode rejection > 50 dB Overflow and Underflow LED per each input status, Module error LED, 24V Plug-in status LED Hot swap replacement 10.8-16 V DC and 3.3 V DC 1.3 W typical with all LEDs on (65 mA @ 13.8 VDC)

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ITEM	ITEM DESCRIPTION	ITEM REF	DESCRIPTION	DELIVERY PERIOD (DAYS)	SPECIFICATIONS		
A	TELEMETRY AND INSTRUMENTATION	1.0	1.0		Total Number of Inputs/Outputs I/O Arrangement 16 Digital Inputs + 4 Relay Outputs + 4 Analog Inputs 1 Group of 16 Dis with shared common 4 relay outputs - Form C 4 isolated analog inputs All Inputs can be configured as fast counters 0-1KHz 0 - 5 KHz, minimum pulse width 100 pS Max. 40 V DC +11to +30 VDC, -30to-11 V DC -5to+5V DC 6-10 mA 1 ms (interrupt upon change ofstate) 1 ms (interrupt upon change ofstate) Max. 60VDC or 30VAC RMS Configurable relay state on CPU fail 16 Bit (including sign) +/- 0.1% offull scale @ -40°C to +70°C 10 mSec @ 50 Hz filtering, 8.33 mSec @ 60 Hz filtering Selectable Input averaging: 1, 2, 4, 8, 16, 32, 64 or 128 samples (x10 mS) 350 - 500Mhz Unity <1.5:1 Vertical 180 Degrees 66 Degrees 150 Watts N-Type Female DC Grounded Standard T Bracket (3mm Flat Bar) for internal kiosk installation 2 X N-Type Male, 2 x BNC RGO58, Crimp Type 6m Aluminum 2mm Steel Hot dipped galvanized 3mm		
		1.0	1.21	Motorola ACE Mixed O/O Module (ACE3600 or similar)			
		1.0	1.22	UHF Dipole Antenna (HD400 or similar) with T-Bracket			
		1.0	1.23	Antenna Mast			
		1.0	1.24	Antenna Bracket			
							Frequency Range
							Average Gain
							VSWR
							Polarization
							H Plane 3dB Beam Width
							E Plane 3dB Beam Width
							Power Handling
							Termination
							Grounding
					Bracket		
					Connector Accessories		
					Length		
					Material		
					Thickness		
					Material		
					Protection		
					Thickness		

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ITEM	ITEM DESCRIPTION	ITEM REF	DESCRIPTION	DELIVERY PERIOD (DAYS)	SPECIFICATIONS		
A	TELEMETRY AND INSTRUMENTATION	1.0	1.25	Telemetry RTU Station Mild Steel Enclosure Option 1		Material, Protection and Size	Mild Steel, IP55 (approx. 550 x 400 x 220)
		1.0	1.26	Telemetry RTU Station Mild Steel Enclosure Option 2		Material, Protection and Size	Mild Steel, IP55 (approx. 650 x 450 x 270)
		1.0	1.27	Telemetry RTU Station Mild Steel Enclosure Option 3		Material, Protection and Size	Mild Steel, IP55 (approx. 750 x 550 x 270)
		1.0	1.28	Telemetry RTU Station Mild Steel Enclosure Option 4		Material, Protection and Size	Mild Steel, IP55 (approx. 950 x 700 x 270)
		1.0	1.29	Telemetry RTU Station Mild Steel Enclosure Option 5		Material, Protection and Size	Mild Steel, IP55 (approx. 1150 x 850 x 270)
		1.0	1.30	Telemetry RTU Station Vandal Proof Enclosure Option 1		Solar Panel Enclosure Accessories and Fittings	40W Interlock Systems Vandal Proof FTCS Included
		1.0	1.31	Telemetry RTU Station Vandal Proof Enclosure Option 2		Solar Panel Enclosure Accessories and Fittings	80W Interlock Systems Vandal Proof FTCS Included
		1.0	1.32	Telemetry RTU Station Vandal Proof Enclosure Option 3		Enclosure Support Accessories and Fittings	500mm Base support for Vandal Proof enclosure Included
		1.0	1.33	Telemetry Data Subscription		Data Contract Period	1 Year Static
						DATA Cost	Data Cost for a 1 Year Period
						SIM Card Cost	Once Off: Included
						APN Registration	Once Off: Included
		1.0	1.34	Sealed Lithium Ion Battery		Voltage Type Capacity	12VDC Lithium Ion 100Ahr
		1.0	1.35	Sealed Lithium Ion Battery		Voltage Type Capacity	12VDC Lithium Ion 50Ahr
1.0	1.36	Sealed Lithium Ion Battery		Voltage Type Capacity	12VDC Lithium Ion 7Ahr		
1.0	1.37	Sealed Gel Battery		Voltage Type Capacity	12VDC Gel 100Ahr		
1.0	1.38	Sealed Gel Battery		Voltage Type Capacity	12VDC Gel 50Ahr		

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ITEM	ITEM DESCRIPTION	ITEM REF	DESCRIPTION	DELIVERY PERIOD (DAYS)	SPECIFICATIONS
A	TELEMETRY AND INSTRUMENTATION	1.0	1.39	Sealed Gel Battery	Voltage Type Capacity Voltage Type Capacity For 50Ahr Battery For 100Ahr Battery
		1.0	1.40	Sealed Lead Acid Battery	12VDC Gel 20Ahr 12VDC Lead Acid 7Ahr PVC PVC
		1.0	1.41	50 Ahr Battery Box	System Voltage
		1.0	1.42	100Ahr Battery Box	12/24/48 VDC Auto Select
		1.0	1.43	Solar Regulator (Victron Bluesolar MPPT 100/20 or similar)	Short Circuit Current Rated Charge Current Self Consumption Charge Type Charge Algorithm Temp Sensor Bluetooth Warranty
					SIM Interface Standard
					Number of SIMs
					Serial Interface
					Serial Signals Baudrate
					RS-232
					Digital Input RS-485
					Digital Output Type
					Ethernet Type
					WLAN
			Number of Ports		
			Standards		
			Input Voltage		
			Input		
			Output		
			Power		
			Protection		
			Input		
			Output		
			Power		
			Protection		
			Short Circuit, Overload and overvoltage		
			Input		
			Output		
			Power		
			Protection		
			Short Circuit, Overload and overvoltage		
			Input		
			Output		
			Power		
			Protection		
			Short Circuit, Overload and overvoltage		
			Input		
			Output		
			Power		
			Protection		
			Short Circuit, Overload and overvoltage		
			Input		
			Output		
			Power		
			Protection		
			Short Circuit, Overload and overvoltage		

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ITEM	ITEM DESCRIPTION	ITEM REF	DESCRIPTION	DELIVERY PERIOD (DAYS)	SPECIFICATIONS			
A	TELEMETRY AND INSTRUMENTATION	1.0	1.47	Single Output Industrial Power Supply 24V (Meanwell SDR-120-24 or similar)		Input	220VAC	
						Output	24VDC	
		1.0	1.48	Single Output Industrial Power Supply 12V (Meanwell SDR-120-12 or similar)			Power	120W
							Current	0 - 5A
		1.0	1.49	OPTO Sensor for Sensus WPD Meter (OPTO OD01)			Protection	Short circuit / Overload / Over voltage / Over temperature
							Installation Type	DIN Rail
		1.0	1.50	OPTO Sensor for Logging Sensus WPD Meter (OPTO OD 07-24)			Function	DC OK Relay
							Input	220VAC
		1.0	1.47	Single Output Industrial Power Supply 24V (Meanwell SDR-120-24 or similar)			Output	12VDC
							Power	120W
		1.0	1.48	Single Output Industrial Power Supply 12V (Meanwell SDR-120-12 or similar)			Current	0 - 5A
							Protection	Short circuit / Overload / Over voltage / Over temperature
1.0	1.49	OPTO Sensor for Sensus WPD Meter (OPTO OD01)			Installation Type	DIN Rail		
					Function	DC OK Relay		
1.0	1.50	OPTO Sensor for Logging Sensus WPD Meter (OPTO OD 07-24)			Sensor principle	IR reflection light barrier, bi-directional		
					Protection	IP68		
1.0	1.47	Single Output Industrial Power Supply 24V (Meanwell SDR-120-24 or similar)			supply voltage	8.2 V DC		
					current with reflection	< 1.2 mA		
1.0	1.48	Single Output Industrial Power Supply 12V (Meanwell SDR-120-12 or similar)			current without reflection	> 2.1 mA		
					ambient temperature	≤ 70 °C		
1.0	1.49	OPTO Sensor for Sensus WPD Meter (OPTO OD01)			medium temperature	≤ 50 °C		
					Sensor principle	IR reflection light barrier, bi-directional		
1.0	1.50	OPTO Sensor for Logging Sensus WPD Meter (OPTO OD 07-24)			Supply voltage (+):	+5 V ... +30 V DC		
					Supply current:	typ. 230 µA, max. 250 µA		
1.0	1.47	Single Output Industrial Power Supply 24V (Meanwell SDR-120-24 or similar)			Output signal:	open collector (noV) Darlington, with 150 Ohm series resistance and polarity protection		
					Output voltage:	SIG relative to ground (-): 0 V ... Supply Voltage		
1.0	1.48	Single Output Industrial Power Supply 12V (Meanwell SDR-120-12 or similar)			Output current:	0 ... +40 mA		
					Protection	IP 68		
1.0	1.49	OPTO Sensor for Sensus WPD Meter (OPTO OD01)			ambient temperature	0 - 70 °C		
					medium temperature	0 - 50 °C		

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ITEM	ITEM DESCRIPTION	ITEM REF	DESCRIPTION	DELIVERY PERIOD (DAYS)	SPECIFICATIONS
1.0	1.0	1.51	Sensus HR-Mei Data Capture Device (HRI-Mei/B5/D10/T6/S0 - MEI1EDD2XX)		<p>Compatibility switching voltage: 48 V AC/DC (max) switching current: 200mA (max) IP 68 5 Programmed as required 24VDC 33VDC 10kA 2.5kA 12VDC 15VDC 9kA 2.5kA onto 35mm DIN Rail IP20 By DIN Rail 10-30Volts dc 1.10mA max at 12V and 48mA max at 24V Operating Range 2-23mA V_{Loop} = 21.4V minimum (23mA on load, 10VDC) V_{Loop} = 28.0V maximum (2mA on load, 30VDC) Matches input current < 0.1% of full scale 10-30Volts dc 55mA max at 12V and 24mA max at 24V Range 2-23mA Accuracy specified over 4-20mA V_{Loop} = 21.4V min(23mA on load, 10V supply) V_{Loop} = 28.0V maximum (2mA on load, 30VDC) Matches input current < 0.1% of full scale at 20°C (< 20uA) 50mm Electromechanical (CLIQ) Fully compatible with the Musunduzi's existing MultiLock CLIQ Programmer Extreme weather plastic cover protection</p>
1.0	1.0	1.52	Lightning Protection 24VDC (Dehn Blitzductor BXT ML2 BE S 24: 920224)		<p>Nominal voltage Max. continuous operating Total Lightning Impulse Current Lightning Impulse Current per Line</p>
1.0	1.0	1.53	Lightning Protection 12VDC (Dehn Blitzductor BXT ML2 BE S 12: 920222)		<p>Nominal voltage Max. continuous operating Total Lightning Impulse Current Lightning Impulse Current per Line</p>
1.0	1.0	1.54	Lightning Protection Base for 1.52/1.53 above (Dehn BXT BAS or similar)		<p>Mounting Protection Earthing</p>
1.0	1.0	1.55	Current Loop Interface (Dual Input) with Surge Suppression (Omniflex C2475A LZD (Dual) with Surge Suppression or similar)		<p>Operating Range Supply Current (with outputs at 20mA) Input Current Range Minimum loop voltage Maximum loop voltage Output current Accuracy</p>
1.0	1.0	1.56	Current Loop Interface (Single Input) with Surge Suppression (Omniflex C2474A LZI (Single) with Surge Suppression or similar)		<p>Operating Range Supply Current (with outputs at 20mA) Input Current Range Minimum loop voltage Maximum loop voltage Output current Accuracy</p>
1.0	1.0	1.57	Digital Locking Padlock (MultiLock CLIQ G55 or similar)		<p>Size Type Compatibility Protection</p>

TELEMETRY AND INSTRUMENTATION

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ITEM	ITEM DESCRIPTION	ITEM REF	DESCRIPTION	DELIVERY PERIOD (DAYS)	SPECIFICATIONS	
A	TELEMETRY AND INSTRUMENTATION	1.0	1.58	Discus Lock (Abus)		70mm Discus Stainless Steel padlock Industrial strength, 10mm hardened steel shackle, keyed alike to sample.
		1.0	1.59	Brass Padlock		50mm Brass padlock 50mm brass padlocks, cut to specification keyed alike and supplied. As per SANS 4:2008
		1.0	1.60	Ultrasonic Level Transmitter (10m) (Nivelco EasyTREK SPA-360-4 or similar)		Range Maximum 10m Power Loop Powered (2-wire) Output - Analogue 4 - 20 mA Operating Voltage 11.8 - 36 V(dc) Protection IP68 Accuracy +/- 0.2 % (0.05% of range) Repeatability ≤ 2 mm Resolution ≤ 5 mm Programmable HART Mounting To be suspended from its own cable Programming Software Included
		1.0	1.61	Ultrasonic Level Transmitter (6m) (Nivelco EasyTREK SPA-380-4 or similar)		Range Maximum 6m Power Loop Powered (2-wire operation) Output - Analogue 4 - 20 mA Operating Voltage 11.8 - 36 V(dc) Protection IP68 Accuracy +/- 0.2 % (0.05% of range) Repeatability ≤ 2 mm Resolution ≤ 5 mm Programmable HART Mounting To be suspended from its own cable Programming Software Included
		1.0	1.62	HART programmer (For Nivelco Ultrasonic Transmitters)		Compatibility Nivelco Ultrasonic Transmitters Hart Cable USB
		1.0	1.63	Liquid Level Pump Controller (Pulsar Blackbox 130 or similar)		Input Voltage 220VAC IP Rating IP66/67 Sensor compatibility Ultrasonic (up to 40m) Accuracy 0.25% (min) of measured range Resolution < 1mm min (@10m) Relay Outputs x2 (voltage free) Analogue Output Yes, 1 x isolated 4-20mA Display Yes Programmable Software On board and PC via RS232 Mounting included Wall mounted

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ITEM	ITEM DESCRIPTION	ITEM REF	DESCRIPTION	DELIVERY PERIOD (DAYS)	SPECIFICATIONS	
A	TELEMETRY AND INSTRUMENTATION	1,0	Liquid Level Pump Controller (Pulsar Ultra 4 or similar)		Input Voltage IP Rating Sensor compatibility Accuracy Resolution Digital Output Voltage Free Contacts Analogue Output Display Communication Programmable Software Mounting Sensor type Sensor compatibility Range IP Rating Beam Angle Cable Length Separation from Controller ATEX Approval Sensor type Sensor Voltage Sensor Output Range IP Rating Beam Angle Communication Protocol Cable Length Temp Compensation Voltage Range Case Material IP Rating Overload Pressure Sensor Length Output Signal: Relay Transistor	
		1.64			220VAC, DC10-28V (optional) IP67/IP64 Ultrasonic (up to 40m) 0.25% (min) of measured range <2mm min (@10m) Full Duplex RS232 x3 isolated relays and x1 solid state Yes, 1 x isolated 4-20mA Yes, with programmable display options RS485 Modbus RTU Integral keypad and PC via RJ11 Included Facia Mount Ultrasonic Pulsar Blackbox 130 10m IP68/NEMA 6P <10° 10m Up to 500m Standard ATEX EEx m II T6 Ultrasonic 5 -15VDC Modbus RTU RS-485 10m IP68/NEMA 6P <10° Modbus RTU 10m Automatic 24VDC 1 - 150cm/s (water) 304SS IP67 >10MMpa 40mm Relay and Transistor SPST (<250VAC/30VDC, 3A) NPN,PNP (<24VDC, 1.2A)	
		1,0	1.65	Ultrasonic Level Sensor for Pump Controller (Pulsar dB10 or similar)		
		1,0	1.66	Ultrasonic Level Modbus Sensor (Pulsar dBI-M10 or similar)		
		1,0	1.67	Digital Flow Switch (Autento AFR12B or similar)		

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ITEM	ITEM DESCRIPTION	ITEM REF	DESCRIPTION	DELIVERY PERIOD (DAYS)	SPECIFICATIONS	
A	TELEMETRY AND INSTRUMENTATION	1.0	1.68	Ultrasonic Level with Integrated Relays for Level Control (Pulsar IMP10 or similar)	Input Voltage: 11-30 V Accuracy: $\pm 0.25\%$ or 6 mm, whichever is greater Range: 10m No. of Relays: 2 Supply voltage: 12.....30 V DC Process temperature: -30...+60 °C Measuring range: 0 to 10 m Cable Length: 10m Output: 4....20 mA with HART® Remote programming: Yes, via HART protocol Ingress protection: IP68 Approvals: CE, EU declaration of conformity Sensor Housing: Stainless Steel, 316Ti Piezo sensor type: Resistive Linearity error (level): $\pm 0.25\%$ or better Manufacturer Warranty: 5 Years Display Size: 7 inch LCD: TFT Colour Input Voltage: DC24V (20 - 28V) Resolution: 800 x 480 min Colour: 64K Colour Serial: RS-232C and RS-422 /485 Ethernet: 10/100 Base-T USB: Built-in Protocols: Modbus-RTU, Modbus-TCP, Simatic S7 Ethernet, OPC UA and MQTT Real Time Clock: Yes Power Consumption: 10W or less Program Hardware and Software: Included Supply: Dual: 220VAC and 24VDC Display: Four Digit with Decimal for Flowrate and Totalizer Outputs: 4 - 20mA, and Pulse (Configurable) Damping: User Configurable Sensor Type: Two and Three Wire Compatible (Sensys Opto OD01 and Opto 01)	
		1.0	1.69	Submersible Hydrostatic Level Sensor (Nivelco NPK4410 or similar)		
		1.0	1.70	HMI Display (Lovato LRHA07 or similar)		
		1.0	1.71	Frequency Converter with Display (Sensys FM-1D/K or similar)		

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A	TELEMETRY AND INSTRUMENTATION	1.0	1.72	Frequency Converter (OmniTerm THZ C2403B or similar)	Mounting	Din Rail
					Input Supply Voltage isolation	20 - 30VDC 1500VAC
					Number of Inputs	1
					Frequency Range and resolution (Software Configurable)	SLOW: 0.00 – 320.00 Hz MEDIUM: 0.0 – 3,200.0 Hz FAST: 0 – 32,000 Hz
					Contact Input (NPN and PNP):	
					Output Types and Ranges	
					Accuracy	
					Open Circuit Voltage	8 Volts typical
					Unipolar Current	0 – 20 mA (min span 1mA)
					Initial Error	<0.1%
1.0	1.73	Programming Cable (for item 1.72 above)		OmniTerm THZ C2403B Program Cable	Omniflex Mini Jack Programming Cable C:1168	
1.0	1.74	PLC (Siemens Logo 230RC or similar)		Inputs	8	
			Analog mode Inputs	4		
			Input/supply voltage	12/24 V DC		
			Permissible range	10.8 V ... 28.8 V DC		
			Outputs	4 relays		
			Switching frequency	2 Hz resistive load; 0.5 Hz inductive load		
			Degree of protection	IP20		
			Min program memory	400 blocks		
			Expansion Capability	up to 24 DI, 16 DO, 8 AI, and 2 AO		
			Display	Yes		
1.0	1.75	PLC Program Cable (for item 1.74 above)		LOGO! PC cable or similar	USB	
			Input/supply voltage		24 VDC	
			Digital Inputs		8 (minimum)	
			Analogue Inputs		4 (minimum)	
			Relay Outputs		8	
			Expandable I/O		Yes	
			Program Language		Ladder and Function Block	
			LCD Display		Yes	
			Ports		RS232	
			Protocols		Modbus RTU slave	
1.0	1.76	PLC (Lovato LRD20RD024P1 or similar)		Mounting	DIN Rail	
			Degree of protection		IP20	

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SCHEDULE 1: TECHNICAL REQUIREMENTS AND SPECIFICATIONS: SECTION A: TELEMETRY AND INSTRUMENTATION**

ITEM	ITEM DESCRIPTION	ITEM REF	DESCRIPTION	DELIVERY PERIOD (DAYS)	SPECIFICATIONS
A	TELEMETRY AND INSTRUMENTATION	1,0	1.77	Analogue Expansion Module for PLC above (Lovato LRE04AD024 or similar)	Input/supply voltage Analogue Inputs Analogue Input Type Input signal range Mounting Software Compatibility PC Connection Compatibility Housing Protection Electrical connections Input voltage Pulse and alarm outputs:
		1,0	1.78	Lovato LRD PLC Software (or similar) for item 1.76 above	24 VDC 4
		1,0	1.79	Lovato LRD PLC Programming Cable for item 1.76 above	Configurable voltage or current 0-10VDC, 0/4-20mA DIN Rail Windows 8.1 and above USB
		1,0	1.80	Magnetic Flowmeter Display (ABB Aquamaster 3)	ABB FER range of tubes IP68, < 2m IP68 plug and socket, mains cable 6 to 22 V DC @ <5 W Three, bidirectional, solid-state switches Output 1 – forward only or forward plus reverse pulses Output 2 – reverse pulses or direction indicator Output 3 – alarm: measurement or with power Pulse output – 50 Hz max, 50 % nom duty cycle Local Port RS232 RS485 MODBUS Yes ABB FEW12 range of tubes (Remote Mount) IP67 24 VDC @ 0.4A Three, open collector O/P1 – configurable Pulse/Freq or Alarm Logic O/P2 – configurable Pulse/Freq or Alarm Logic O/P3 – alarm logic Pulse output – 5250 Hz max Local Port RS232, RS485 MODBUS Yes Flowmetrix SAFMAG range of tubes 12 - 30V dc 4 - 20mA (isolated output) 24V active pulse (isolated O/P)
		1,0	1.81	Magnetic Flowmeter Display (ABB Watermaster or similar compatible)	Serial data communications Remote Wall Mount Compatibility Housing Protection Input voltage Pulse and alarm outputs Comms options Serial data communications Remote Wall Mount Yes Comms options Serial data communications Remote Wall Mount Compatibility Input voltage Outputs
		1,0	1.82	Magnetic Flowmeter Display (Flowmetrix SAFMAG DCMPU)	Comms options Serial data communications Remote Wall Mount Compatibility Input voltage Outputs

SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE WATER AND SANITATION TELEMETRY AND SCADA INFRASTRUCTURE
SCHEDULE 1: TECHNICAL REQUIREMENTS AND SPECIFICATIONS: SECTION A: TELEMETRY AND INSTRUMENTATION

ITEM	ITEM DESCRIPTION	ITEM REF	DESCRIPTION	DELIVERY PERIOD (DAYS)	SPECIFICATIONS
A	TELEMETRY AND INSTRUMENTATION	1.0	Magnetic Flowmeter Display (ABB Watermaster or similar)		Input voltage 24 V ±30 % @ <0.4 A Pulse and alarm outputs Three open collector Outputs 1 and 2: configurable Pulse / Frequency or Alarm/Logic funct. Output 3 – alarm logic Pulse output – 5250 Hz max Local Port RS232 RS485 (9.6kbps to 115.2kbps), MODBUS RTU Yes IP67 (NEMA 4X) to 1m depth 0 to 100 % Yes 7 m/s or higher 20 to 150 Hz 20 Undetectable shift in transmitter span or zero -20 to 70 °C (-4 to 158 °F) 0.1 to 50 °C Elastomer Stainless Steel 16 Bar IP68 (NEMA 6) to 7 m depth >20 µS cm ⁻¹ Remote Standard (Armoured optional) Up to maximum length of 200 m Stainless steel 316 L Yes, included WRAS, ACS, DVGW, NSF-61, AZ/NZS 4020 Reduced Bore 0 x DN 0 x DN 80/100/150/200/250/300/350/400/450/500/600 DN
		1.83	Magnetic Flowmeter Tubes(ABB Watermaster or similar)		Comms options Serial data communications Remote Wall Mount Environmental protection Rating Environmental protection Humidity Vibration Test Vibration Tested Vibration level Frequency range No. of sweeps in 3 orthogonal planes Vibration effects Functional Remote transmitter Process temperature Lining Material Flange Material Pressure Rating IP rating Conductivity Transmitter mounting Sensor cable Sensor cable Physical Electrode materia Potential equalizing rings Approvals for Potable Water Type Installation Upstream Installation Downstream Sizes
		1.0	Magnetic Flowmeter Tubes(ABB Watermaster or similar)		

SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE WATER AND SANITATION TELEMETRY AND SCADA INFRASTRUCTURE
SCHEDULE 1: TECHNICAL REQUIREMENTS AND SPECIFICATIONS: SECTION A: TELEMETRY AND INSTRUMENTATION

ITEM	ITEM DESCRIPTION	ITEM REF	DESCRIPTION	DELIVERY PERIOD (DAYS)	SPECIFICATIONS
					<p>Analogue Pressure Gauge, bottom entry : 4 Bar, 8Bar, 10Bar, 16Bar and 25 Bar.</p> <p>Liquid filled, 1/4" threaded connection bottom. Pressure gauges to have stainless steel cases, copper alloy movement, non-splintering clear PMMA plastic windows and the gauges are intended for use in adverse service conditions where pulsation or vibration exists. Their operating temperature range is -20°C to +60°C.</p> <p>Suitable for gaseous or liquid media that will not obstruct the pressure system or attack copper alloy parts.</p> <p>Accuracy class is DIN 16 005. Scales to be in both bar and kPa.</p>
		1,0	1.85 Mechanical Pressure Gauge		<p>Pressure gauges, 4Bar - 25Bar</p>
		1,0	1.86 Brush Cutter (Stihl FS280 or similar)		<p>Industrial</p> <p>Yes, Vibration levels left/right with metal blade</p> <p>38,9 cm min</p> <p>1,9 kW</p> <p>7,9 kg max.</p> <p>> 0,5 Litres</p>
		1,0	1.87 Screwdriver Set		<p>Industrial Quality</p> <p>8 Piece</p> <p>Flat blade and Phillips set</p> <p>1000V</p>
		1,0	1.88 Stainless Steel Dip Tape		<p>TUV and GS</p> <p>Hardened Stainless Steel</p> <p>1,5m</p>
		1,0	1.89 Aluminium Ladder (6 step)		<p>Industrial</p> <p>Aluminium</p> <p>1800mm</p> <p>150kg Load</p>
		1,0	1.90 Aluminium Ext. Ladder (6m)		<p>Industrial</p> <p>Aluminium</p> <p>6m</p> <p>3,3m</p> <p>150kg Load</p>
		1,0	1.91 Bench Oscilloscope		<p>2</p> <p>100MHz</p> <p>Digital Storage</p> <p>220vac</p> <p>TFT LCD or better: 7inch (min)</p>

SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE WATER AND SANITATION TELEMETRY AND SCADA INFRASTRUCTURE
SCHEDULE 1: TECHNICAL REQUIREMENTS AND SPECIFICATIONS: SECTION A: TELEMETRY AND INSTRUMENTATION

ITEM	ITEM DESCRIPTION	ITEM REF	DESCRIPTION	DELIVERY PERIOD (DAYS)	SPECIFICATIONS	
A	TELEMETRY AND INSTRUMENTATION	1,0	1.92	Handheld Virtual Oscilloscope	Channel Bandwidth Sampling Rate Compatibility Overvoltage category Agency approvals Warranty	
		1,0	1.93	Tru-RMS Multimeter (Fluke 177 or similar)	2 CH min 50MHz min 1GSa/s min Windows 10 and above EN 61010-1 to 1000 V CAT III, EN 61010-1 to 600 V UL, CSA, TÜV listed and VDE Pending Lifetime	
		1,0	1.94	Process Meter and Calibrator (Fluke 787B or similar)	Features Source Feature Display Backlight Accessories Included Measurement function	
					DC current output (Internal battery operation)	Measure, Source, Simulate and mA Loop Calibrator Compact digital multimeter and mA loop calibrator solution Yes Batteries, Test Leads, alligator clips
					DC current simulate (Ext. 15 V to 48 V loop supply)	Vdc, Vac (True RMS), mA dc, Adc, Aac, Resistance, Frequency, DC current Output, DC current simulate
					Current adjustment modes Factory Build and Test	0.000 to 20.000 mA or 4.000 to 20.000 mA, (selectable at power-up) Over-range to 24.000 mA
					As Built Drawings	0.000 to 20.000 mA or 4.000 to 20.000 mA, (selectable at power-up) Over-range to 24.000 mA
					Installation and Repairs to Telemetry and Instrumentation Equipment	Manual: Coarse, Fine, 25% and 100% step RTU build and test cost
					Project Manager/Engineer Rate	Comprehensive wiring diagrams (in Visio and DWG formats)
					Technician Rate	Per Hour
					Artisan Rate	Per Hour
					General Worker/Labourer Rate	Per Hour
			Site Grass Cutting	Per m ²		
			Site Bush Clearing and Removal	Per m ²		

THE MSUNDUZI MUNICIPALITY

SUPPLIES & SERVICES CONTRACT No. 71 OF 2024 : SECTIONS A AND B

**SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE
WATER AND SANITATION TELEMTRY AND SCADA INFRASTRUCTURE**

SECTION A: TELEMTRY AND INSTRUMENTATION

SECTION B: SCADA ENGINEERING AND SUPPORT

**SCHEDULE 2: TECHNICAL REQUIREMENTS AND SPECIFICATIONS: SECTION B: SCADA
ENGINEERING AND SUPPORT**

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**SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE WATER AND SANITATION TELEMETRY AND SCADA INFRASTRUCTURE
SCHEDULE 2: TECHNICAL REQUIREMENTS AND SPECIFICATIONS: SECTION B: SCADA ENGINEERING AND SUPPORT**

ITEM	ITEM DESCRIPTION	ITEM REF	DESCRIPTION	DELIVERY PERIOD (DAYS)	SPECIFICATIONS	
B	SCADA ENGINEERING AND SUPPORT	2,0	2.1 ADROIT Group Wide Licence (per annum)		2.1.1	The supply of any new SCADA SERVER licensing.
					2.1.2	The supply of any new SCADA CLIENT licensing.
					2.1.3	The amendment or upgrading of scan point sizing of existing licenses.
					2.1.4	The addition of new SCADA CLIENTS to existing licenses.
					2.1.5	The supply of any new ADROIT INFORMATION PORTAL licensing.
					2.1.6	The supply of any new ADROIT SCADA INTELLIGENCE LICENCING as required.
					2.1.7	The supply of any new ALARM MANAGEMENT AND ANALYSIS TOOL as required.
					2.1.8	The supply of any new PERFORMANCE ANYWHERE licensing.
					2.1.9	The supply of any new ADROIT AIR Licensing.
					2.1.10	The supply of the latest version of ADROIT's software listed above
					2.1.11	5 Days on-site support included. (40 Ad Hoc Group Wide Hours)(per annum)
2,0	2.2	2.2.1	Service Level Support Rates		48 In-House Engineering hrs per annum	
					2.2.2	24hrs Standby cost per annum
2,0	2.3	2.3.1	Training (Ad-Hoc)		Adroit Basic SmartUI per person	
					2.3.2	Adroit Advanced SmartUI per person
					2.3.3	Adroit Report Suite and Alarm Management per person
2,0	2.4	2.4.1	Ad-hoc Engineering Support Rates		Support Engineer (remote) per hour	
					2.4.2	Support Engineer (on site: based on 8hr day and incl. of travel and accommodation) per day (8) hour
					2.4.3	Specialist Engineer (remote) per hour
					2.4.4	Specialist Engineer on site: based on 8hr day and incl. of travel and accommodation) per day (8) hour

THE MSUNDUZI MUNICIPALITY

SUPPLIES & SERVICES CONTRACT No. 71 OF 2024 : SECTIONS A AND B

**SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE
WATER AND SANITATION TELEMETRY AND SCADA INFRASTRUCTURE**

SECTION A: TELEMETRY AND INSTRUMENTATION

SECTION B: SCADA ENGINEERING AND SUPPORT

APPENDIX SHEET 1

TRACK RECORD OF SERVICE PROVIDER / TENDERER

Notes:

- 1) Refer to clause 21_2.1, **Criterion No. 1: Company Experience: Company In Existence.**
- 2) The tenderer shall **attach a copy of the Company Registration Certificate.**
- 3) Tenderers must attach the relevant supporting documentation.

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SUPPLIES & SERVICES CONTRACT No. 71 OF 2024 : SECTIONS A AND B

SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE WATER AND SANITATION TELEMTRY AND SCADA INFRASTRUCTURE

SECTION A: TELEMTRY AND INSTRUMENTATION
SECTION B: SCADA ENGINEERING AND SUPPORT

APPENDIX SHEET 2

TRACK RECORD OF SERVICE PROVIDER / TENDERER

Notes:

- 1) Refer to clause 21.1, **Criterion No. 2: Company Experience: No. of projects undertaken in the last five (5) years: The Supply, Installation, Configuration & Commissioning of Measuring Instrumentation, Telemetry and Database Systems**
- 2) The tenderer shall insert in the spaces below the successful completed projects awarded to him and those currently being undertaken.
- 3) Tenderers must attach the relevant supporting documentation.

No.	Criterion No. 2: Company Experience: No. of projects undertaken in the last five (5) years: The Supply, Installation, Configuration & Commissioning of Measuring Instrumentation, Telemetry and Database Systems					
	Project Description		Client Details		Project Value	
1						
	Project Start / Finish Dates		Documentation to Support declaration of Successfully Completed Projects (Mark with X OR ✓)			
	Start:	Finish:	Appointment Letter	Reference Letter	Completion Certificate	
2	Project Description		Client Details		Project Value	
	Project Start / Finish Dates		Documentation to Support declaration of Successfully Completed Projects (Mark with X OR ✓)			
Start:	Finish:	Appointment Letter	Reference Letter	Completion Certificate		

No.	Criterion No. 2: Company Experience: No. of projects undertaken in the last five (5) years: The Supply, Installation, Configuration & Commissioning of Measuring Instrumentation, Telemetry and Database Systems					
	Project Description			Client Details		Project Value
3						
	Project Start / Finish Dates			Documentation to Support declaration of Successfully Completed Projects (Mark with X OR ✓)		
	Start:		Finish:		Appointment Letter	Reference Letter Completion Certificate
4	Project Description			Client Details		Project Value
	Project Start / Finish Dates			Documentation to Support declaration of Successfully Completed Projects (Mark with X OR ✓)		
Start:		Finish:		Appointment Letter	Reference Letter Completion Certificate	
5	Project Description			Client Details		Project Value
	Project Start / Finish Dates			Documentation to Support declaration of Successfully Completed Projects (Mark with X OR ✓)		
Start:		Finish:		Appointment Letter	Reference Letter Completion Certificate	
6	Project Description			Client Details		Project Value
	Project Start / Finish Dates			Documentation to Support declaration of Successfully Completed Projects (Mark with X OR ✓)		
Start:		Finish:		Appointment Letter	Reference Letter Completion Certificate	
7	Project Description			Client Details		Project Value
	Project Start / Finish Dates			Documentation to Support declaration of Successfully Completed Projects (Mark with X OR ✓)		
Start:		Finish:		Appointment Letter	Reference Letter Completion Certificate	
8	Project Description			Client Details		Project Value
	Project Start / Finish Dates			Documentation to Support declaration of Successfully Completed Projects (Mark with X OR ✓)		
Start:		Finish:		Appointment Letter	Reference Letter Completion Certificate	

No.	Criterion No. 2:						
	Company Experience: No. of projects undertaken in the last five (5) years: The Supply, Installation, Configuration & Commissioning of Measuring Instrumentation, Telemetry and Database Systems						
9	Project Description			Client Details		Project Value	
	Project Start / Finish Dates			Documentation to Support declaration of Successfully Completed Projects (Mark with X OR ✓)			
	Start:		Finish:		Appointment Letter	Reference Letter	Completion Certificate
10	Project Description			Client Details		Project Value	
	Project Start / Finish Dates			Documentation to Support declaration of Successfully Completed Projects (Mark with X OR ✓)			
	Start:		Finish:		Appointment Letter	Reference Letter	Completion Certificate
11	Project Description			Client Details		Project Value	
	Project Start / Finish Dates			Documentation to Support declaration of Successfully Completed Projects (Mark with X OR ✓)			
	Start:		Finish:		Appointment Letter	Reference Letter	Completion Certificate
12	Project Description			Client Details		Project Value	
	Project Start / Finish Dates			Documentation to Support declaration of Successfully Completed Projects (Mark with X OR ✓)			
	Start:		Finish:		Appointment Letter	Reference Letter	Completion Certificate
13	Project Description			Client Details		Project Value	
	Project Start / Finish Dates			Documentation to Support declaration of Successfully Completed Projects (Mark with X OR ✓)			
	Start:		Finish:		Appointment Letter	Reference Letter	Completion Certificate
14	Project Description			Client Details		Project Value	
	Project Start / Finish Dates			Documentation to Support declaration of Successfully Completed Projects (Mark with X OR ✓)			
	Start:		Finish:		Appointment Letter	Reference Letter	Completion Certificate

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SUPPLIES & SERVICES CONTRACT No. 71 OF 2024 : SECTIONS A AND B

SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE WATER AND SANITATION TELEMETRY AND SCADA INFRASTRUCTURE

SECTION A: TELEMETRY AND INSTRUMENTATION

SECTION B: SCADA ENGINEERING AND SUPPORT

APPENDIX SHEET 3

TRACK RECORD OF SERVICE PROVIDER / TENDERER

Notes:

- 1) Refer to clause 21.1, **Criterion No. 3: Company Experience: Number of projects undertaken in the last five (5) years: The Supply, Installation, Configuration & Commissioning of Telemetry Systems using GPRS / 3G / LTE.**
- 2) The tenderer shall insert in the spaces below the successful completed projects awarded to him and those currently being undertaken.
- 3) Tenderers must attach the relevant supporting documentation.

No.	Criterion No. 3: Company Experience: No. of projects undertaken in the last five (5) years: The Supply, Installation, Configuration & Commissioning of Telemetry Systems using GPRS / 3G / LTE					
	Project Description			Client Details		Project Value
1						
	Project Start / Finish Dates			Documentation to Support declaration of Successfully Completed Projects (Mark with X OR ✓)		
	Start:		Finish:		Appointment Letter	Reference Letter
2	Project Description			Client Details		Project Value
	Project Start / Finish Dates			Documentation to Support declaration of Successfully Completed Projects (Mark with X OR ✓)		
Start:		Finish:		Appointment Letter	Reference Letter	Completion Certificate

No.	Criterion No. 3: Company Experience: No. of projects undertaken in the last five (5) years: The Supply, Installation, Configuration & Commissioning of Telemetry Systems using GPRS / 3G / LTE					
	Project Description			Client Details		Project Value
3						
	Project Start / Finish Dates			Documentation to Support declaration of Successfully Completed Projects (Mark with X OR ✓)		
	Start:		Finish:		Appointment Letter	Reference Letter Completion Certificate
4						
	Project Start / Finish Dates			Documentation to Support declaration of Successfully Completed Projects (Mark with X OR ✓)		
	Start:		Finish:		Appointment Letter	Reference Letter Completion Certificate
5						
	Project Start / Finish Dates			Documentation to Support declaration of Successfully Completed Projects (Mark with X OR ✓)		
	Start:		Finish:		Appointment Letter	Reference Letter Completion Certificate
6						
	Project Start / Finish Dates			Documentation to Support declaration of Successfully Completed Projects (Mark with X OR ✓)		
	Start:		Finish:		Appointment Letter	Reference Letter Completion Certificate
7						
	Project Start / Finish Dates			Documentation to Support declaration of Successfully Completed Projects (Mark with X OR ✓)		
	Start:		Finish:		Appointment Letter	Reference Letter Completion Certificate
8						
	Project Start / Finish Dates			Documentation to Support declaration of Successfully Completed Projects (Mark with X OR ✓)		
	Start:		Finish:		Appointment Letter	Reference Letter Completion Certificate

No.	Criterion No. 3: Company Experience: No. of projects undertaken in the last five (5) years: The Supply, Installation, Configuration & Commissioning of Telemetry Systems using GPRS / 3G / LTE					
	Project Description			Client Details		Project Value
9						
	Project Start / Finish Dates			Documentation to Support declaration of Successfully Completed Projects (Mark with X OR ✓)		
	Start:		Finish:		Appointment Letter	Reference Letter Completion Certificate
10						
	Project Start / Finish Dates			Documentation to Support declaration of Successfully Completed Projects (Mark with X OR ✓)		
	Start:		Finish:		Appointment Letter	Reference Letter Completion Certificate
11						
	Project Start / Finish Dates			Documentation to Support declaration of Successfully Completed Projects (Mark with X OR ✓)		
	Start:		Finish:		Appointment Letter	Reference Letter Completion Certificate
12						
	Project Start / Finish Dates			Documentation to Support declaration of Successfully Completed Projects (Mark with X OR ✓)		
	Start:		Finish:		Appointment Letter	Reference Letter Completion Certificate
13						
	Project Start / Finish Dates			Documentation to Support declaration of Successfully Completed Projects (Mark with X OR ✓)		
	Start:		Finish:		Appointment Letter	Reference Letter Completion Certificate
14						
	Project Start / Finish Dates			Documentation to Support declaration of Successfully Completed Projects (Mark with X OR ✓)		
	Start:		Finish:		Appointment Letter	Reference Letter Completion Certificate

THE MSUNDUZI MUNICIPALITY

SUPPLIES & SERVICES CONTRACT No. 71 OF 2024 : SECTIONS A AND B

SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE WATER AND SANITATION TELEMTRY AND SCADA INFRASTRUCTURE

SECTION A: TELEMTRY AND INSTRUMENTATION

SECTION B: SCADA ENGINEERING AND SUPPORT

APPENDIX SHEET 4 : SECTION A: TELEMTRY AND INSTRUMENTATION

STATEMENT OF TENDERER KEY PERSONNEL QUALIFICATIONS AND EXPERIENCE

Notes:

- 1) Refer to clause 5.1.1, **Key Personnel: Academic Qualification & Experience.**
- 2) The tenderer shall insert in the spaces below the Key Personnel and their respective academic qualifications and related experience.
- 3) ***Failure to comply with the minimum qualification requirements of key personnel mentioned in clause 5.1.1, shall result in the tenderer being disqualified.***
- 4) The Tenderer shall supply the Curriculum Vitae (CV's) of the proposed key personnel (as evidence of qualifications and experience). The CV should follow the normal Professional Format. ***Failure to provide CV's of the proposed key personnel shall result in the tenderer being disqualified.***

<u>Category of Employee</u>	<u>Name and Surname</u>	<u>Academic Qualification</u>	<u>NQF Qualification Level</u>	<u>No. of Years of Related Experience</u>
<u>Project Manager/Engineer</u>				
<u>Technician</u>				
<u>Artisan</u>				

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SUPPLIES & SERVICES CONTRACT No. 71 OF 2024 : SECTIONS A AND B

SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE WATER AND SANITATION TELEMETRY AND SCADA INFRASTRUCTURE

SECTION A: TELEMETRY AND INSTRUMENTATION

SECTION B: SCADA ENGINEERING AND SUPPORT

APPENDIX SHEET 5 : SECTION B: SCADA ENGINEERING AND SUPPORT (MANDATORY REQUIREMENT)

ACCREDITATION AS AN ADROIT TECHNOLOGIES SCADA SYSTEM INTEGRATOR FOR A MINIMUM OF TWO (2) YEARS AND AGREEMENT VALIDITY AND COMPANY EXPERIENCE

Notes:

- 1) Refer to clause 5.2, Mandatory Requirements: SECTION B: SCADA ENGINEERING AND SUPPORT.
- 2) Tenderers must provide the required information confirming that they are an Adroit Technologies Authorized System Integrator (ASI) for a minimum period of two (2) years and that the ASI Accreditation is valid. The Service Provider must also have a minimum of two (2) years' recent working experience with Adroit SCADA Products. The Service Provider *must* submit a copy of the Authorized System Integrator (SI) accreditation as well as documentation (copies of appointment letters or completion certificate or reference letters) to demonstrate the successful completion of projects related to Adroit Products, for a minimum period of two (2) years.

OR

- 3) The Tenderer is the Software Developer, in which case, the Service Provider must provide a letter of confirmation that states that they are the Software Developer of the Adroit Technologies SCADA Products.
- 4) The Tenderer must attach the required documentation to substantiate their claim.

No.	Mandatory Requirement: Company Experience: Two (2) years' recent working experience with Adroit SCADA Products						
	1	Project Description			Client Details		Project Value
Project Start / Finish Dates			Documentation to Support declaration of Successfully Completed Projects (Mark with X OR ✓)				
	Start:		Finish:		Appointment Letter	Reference Letter	Completion Certificate
2	Project Description			Client Details		Project Value	
	Project Start / Finish Dates			Documentation to Support declaration of Successfully Completed Projects (Mark with X OR ✓)			
	Start:		Finish:		Appointment Letter	Reference Letter	Completion Certificate
3	Project Description			Client Details		Project Value	
	Project Start / Finish Dates			Documentation to Support declaration of Successfully Completed Projects (Mark with X OR ✓)			
	Start:		Finish:		Appointment Letter	Reference Letter	Completion Certificate
4	Project Description			Client Details		Project Value	
	Project Start / Finish Dates			Documentation to Support declaration of Successfully Completed Projects (Mark with X OR ✓)			
	Start:		Finish:		Appointment Letter	Reference Letter	Completion Certificate
5	Project Description			Client Details		Project Value	
	Project Start / Finish Dates			Documentation to Support declaration of Successfully Completed Projects (Mark with X OR ✓)			
	Start:		Finish:		Appointment Letter	Reference Letter	Completion Certificate
6	Project Description			Client Details		Project Value	
	Project Start / Finish Dates			Documentation to Support declaration of Successfully Completed Projects (Mark with X OR ✓)			
	Start:		Finish:		Appointment Letter	Reference Letter	Completion Certificate

No.	Mandatory Requirement:					
	Company Experience: Two (2) years' recent working experience with Adroit SCADA Products					
7	Project Description			Client Details		Project Value
	Project Start / Finish Dates			Documentation to Support declaration of Successfully Completed Projects (Mark with X OR ✓)		
	Start:		Finish:		Appointment Letter	Reference Letter
8	Project Description			Client Details		Project Value
	Project Start / Finish Dates			Documentation to Support declaration of Successfully Completed Projects (Mark with X OR ✓)		
	Start:		Finish:		Appointment Letter	Reference Letter
9	Project Description			Client Details		Project Value
	Project Start / Finish Dates			Documentation to Support declaration of Successfully Completed Projects (Mark with X OR ✓)		
	Start:		Finish:		Appointment Letter	Reference Letter
10	Project Description			Client Details		Project Value
	Project Start / Finish Dates			Documentation to Support declaration of Successfully Completed Projects (Mark with X OR ✓)		
	Start:		Finish:		Appointment Letter	Reference Letter
11	Project Description			Client Details		Project Value
	Project Start / Finish Dates			Documentation to Support declaration of Successfully Completed Projects (Mark with X OR ✓)		
	Start:		Finish:		Appointment Letter	Reference Letter
12	Project Description			Client Details		Project Value
	Project Start / Finish Dates			Documentation to Support declaration of Successfully Completed Projects (Mark with X OR ✓)		
	Start:		Finish:		Appointment Letter	Reference Letter

THE MSUNDUZI MUNICIPALITY

SUPPLIES & SERVICES CONTRACT No. 71 OF 2024 : SECTIONS A AND B

**SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE
WATER AND SANITATION TELEMETRY AND SCADA INFRASTRUCTURE**

SECTION A: TELEMETRY AND INSTRUMENTATION

SECTION B: SCADA ENGINEERING AND SUPPORT

PRICE SCHEDULE FOR SECTION A

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**SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE WATER AND SANITATION TELEMETRY AND SCADA INFRASTRUCTURE
PRICING SCHEDULE: ITEM A: TELEMETRY AND INSTRUMENTATION**

PRICING SCHEDULE					
ITEM	GENERAL DESCRIPTION	REF	DESCRIPTION	QUANTITY/ UNIT	Price (Excl. VAT)
A	TELEMETRY AND INSTRUMENTATION	1.0	Telemetry RTU Module (ELPRO DS-EL-415U-2-C4 or similar)	1	
		1.1			
		1.0	Low Power Telemetry IOT Device (Senquip ORB-C1 or similar)	1	
		1.2			
		1.0	Low Power Telemetry IOT Device (Senquip QUAD- C2 or similar)	1	
		1.3			
		1.0	Telemetry RTU Module (Microdev 320 or similar)	1	
		1.4			
		1.0	Telemetry PLC Module (Microdev MP110 or similar)	1	
		1.5			
		1.0	SSE Maestro 3000/RTU12 CPU Module	1	
		1.6			
		1.0	UHF Digital Radio for Telemetry (MDS SD4 or similar)	1	
		1.7			
		1.0	Motorola ACE RTU Housing Option 1	1	
		1.8			
		1.0	Motorola ACE RTU Housing Option 2	1	
		1.9			
		1.0	Motorola ACE RTU Housing Option 3	1	
		1.10			
		1.0	Motorola ACE RTU Housing Option 4	1	
		1.11			
		1.0	Motorola ACE 12V DC Power Supply Module	1	
		1.12			
		1.0	Motorola ACE CPU 3610 Module	1	
		1.13			
		1.0	Motorola ACE CPU 3640 Module	1	
		1.14			
		1.0	Motorola ACE 16 Digital Input Module (ACE3600 or similar)	1	
		1.15			

SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE WATER AND SANITATION TELEMETRY AND SCADA INFRASTRUCTURE
PRICING SCHEDULE: ITEM A: TELEMETRY AND INSTRUMENTATION

PRICING SCHEDULE						
ITEM	GENERAL DESCRIPTION	REF	DESCRIPTION	QUANTITY/ UNIT	Price (Excl. VAT)	
A	TELEMETRY AND INSTRUMENTATION	1.0	1.16	Motorola ACE 32 Digital Input Module (ACE3600 or similar)	1	
		1.0	1.17	Motorola ACE 16 Digital Output/Digital Input FET Module (ACE3600 or similar)	1	
		1.0	1.18	Motorola ACE 32 Digital Output/Digital Input FET Module (ACE3600 or similar)	1	
		1.0	1.19	Motorola ACE 8 Analogue Input Module (ACE3600 or similar)	1	
		1.0	1.20	Motorola ACE 16 Analogue Input Module (ACE3600 or similar)	1	
		1.0	1.21	Motorola ACE Mixed O/O Module (ACE3600 or similar)	1	
		1.0	1.22	UHF Dipole Antenna (HD400 or similar) with T-Bracket	1	
		1.0	1.23	Antenna Mast	1	
		1.0	1.24	Antenna Bracket	1	
		1.0	1.25	Telemetry RTU Station Mild Steel Enclosure Option 1	1	
		1.0	1.26	Telemetry RTU Station Mild Steel Enclosure Option 2	1	
		1.0	1.27	Telemetry RTU Station Mild Steel Enclosure Option 3	1	
		1.0	1.28	Telemetry RTU Station Mild Steel Enclosure Option 4	1	
		1.0	1.29	Telemetry RTU Station Mild Steel Enclosure Option 5	1	
1.0	1.30	Telemetry RTU Station Vandal Proof Enclosure Option 1	1			

SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE WATER AND SANITATION TELEMETRY AND SCADA INFRASTRUCTURE
PRICING SCHEDULE: ITEM A: TELEMETRY AND INSTRUMENTATION

PRICING SCHEDULE					
ITEM	GENERAL DESCRIPTION	REF	DESCRIPTION	QUANTITY/ UNIT	Price (Excl. VAT)
A	TELEMETRY AND INSTRUMENTATION	1.0	Telemetry RTU Station Vandal Proof Enclosure Option 2	1	
		1.31			
		1.0	Telemetry RTU Station Vandal Proof Enclosure Option 3	1	
		1.32			
		1.0	Telemetry Data Subscription	1	
		1.33			
		1.0	Sealed Lithium Ion Battery	1	
		1.34			
		1.0	Sealed Lithium Ion Battery	1	
		1.35			
		1.0	Sealed Lithium Ion Battery	1	
		1.36			
		1.0	Sealed Gel Battery	1	
		1.37			
		1.0	Sealed Gel Battery	1	
		1.38			
		1.0	Sealed Gel Battery	1	
		1.39			
		1.0	Sealed Lead Acid Battery	1	
		1.40			
		1.0	50 Ahr Battery Box	1	
		1.41			
		1.0	100Ahr Battery Box	1	
		1.42			
		1.0	Solar Regulator (Victron BlueSolar MPPT 100/20 or similar)	1	
		1.43			
		1.0	Serial to GPRS/EDGE Gateway with WiFi (Robustel M3000 or similar)	1	
		1.44			
		1.0	Switch mode DC to DC Converter (24 to 12 V) (Meanwell SD100N or similar)	1	
		1.45			

SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE WATER AND SANITATION TELEMETRY AND SCADA INFRASTRUCTURE
PRICING SCHEDULE: ITEM A: TELEMETRY AND INSTRUMENTATION

PRICING SCHEDULE						
ITEM	GENERAL DESCRIPTION	REF	DESCRIPTION	QUANTITY/ UNIT	Price (Excl. VAT)	
A	TELEMETRY AND INSTRUMENTATION	1.0	1.46	Switch mode DC to DC Converter (12 to 24 V) (Meanwell SD100 or similar)	1	
		1.0	1.47	Single Output Industrial Power Supply 24V (Meanwell SDR-120-24 or similar)	1	
		1.0	1.48	Single Output Industrial Power Supply 12V (Meanwell SDR-120-12 or similar)	1	
		1.0	1.49	OPTO Sensor for Sensus WPD Meter (OPTO OD01)	1	
		1.0	1.50	OPTO Sensor for Logging Sensus WPD Meter (OPTO OD 07-24)	1	
		1.0	1.51	Sensus HR-Mei Data Capture Device (HRI-Mei/B5/D10/T6/50 - MEI1EDD2XX)	1	
		1.0	1.52	Lightning Protection 24VDC (Dehn Blitzductor BXT ML2 BE S 24: 920224)	1	
		1.0	1.53	Lightning Protection 12VDC (Dehn Blitzductor BXT ML2 BE S 12: 920222)	1	
		1.0	1.54	Lightning Protection Base for 1.52/1.53 above (Dehn BXT BAS or similar)	1	
		1.0	1.55	Current Loop Interface (Dual Input) with Surge Suppression (Omniflex C2475A LZD (Dual) with Surge Suppression or similar)	1	
		1.0	1.56	Current Loop Interface (Single Input) with Surge Suppression (Omniflex C2474A LZI (Single) with Surge Suppression or similar)	1	
		1.0	1.57	Digital Locking Padlock (MultiLock CLIQ G55 or similar)	1	
		1.0	1.58	Discus Lock Abus	1	
		1.0	1.59	Brass Padlock	1	
		1.0	1.60	Ultrasonic Level Transmitter (10m) (Nivelco EasyTREK SPA-360-4 or similar)	1	

**SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE WATER AND SANITATION TELEMETRY AND SCADA INFRASTRUCTURE
PRICING SCHEDULE: ITEM A: TELEMETRY AND INSTRUMENTATION**

PRICING SCHEDULE						
ITEM	GENERAL DESCRIPTION	REF	DESCRIPTION	QUANTITY/ UNIT	Price (Excl. VAT)	
A	TELEMETRY AND INSTRUMENTATION	1.0	1.61	Ultrasonic Level Transmitter (6m) (Nivelco EasyTREK SPA-380-4 or similar)	1	
		1.0	1.62	HART programmer (For Nivelco Ultrasonic Transmitters)	1	
		1.0	1.63	Liquid Level Pump Controller (Pulsar Blackbox 130 or similar)	1	
		1.0	1.64	Liquid Level Pump Controller (Pulsar Ultra 4 or similar)	1	
		1.0	1.65	Ultrasonic Level Sensor for Pump Controller (Pulsar dB10 or similar)	1	
		1.0	1.66	Ultrasonic Level Modbus Sensor (Pulsar dBi-M10 or similar)	1	
		1.0	1.67	Digital Flow Switch (Autento AFR12B or similar)	1	
		1.0	1.68	Ultrasonic Level with Integrated Relays for Level Control (Pulsar IMP10 or similar)	1	
		1.0	1.69	Submersible Hydrostatic Level Sensor (Nivelco NPK4410 or similar)	1	
		1.0	1.70	HMI Display (Lovato LRHA07 or similar)	1	
		1.0	1.71	Frequency Converter with Display (Sensys FM-1D/K or similar)	1	
		1.0	1.72	Frequency Converter (OmniTerm THZ C2403B or similar)	1	
		1.0	1.73	Programming Cable (for item 1.72 above)	1	
		1.0	1.74	PLC (Siemens Logo 230RC or similar)	1	
		1.0	1.75	PLC Program Cable (for item 1.74 above)	1	

**SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE WATER AND SANITATION TELEMETRY AND SCADA INFRASTRUCTURE
PRICING SCHEDULE: ITEM A: TELEMETRY AND INSTRUMENTATION**

PRICING SCHEDULE					
ITEM	GENERAL DESCRIPTION	REF	DESCRIPTION	QUANTITY/ UNIT	Price (Excl. VAT)
A	TELEMETRY AND INSTRUMENTATION	1.0 1.76	PLC (Lovato LRD2ORD024P1 or similar)	1	
		1.0 1.77	Analogue Expansion Module for PLC above (Lovato LRE04AD024 or similar)	1	
		1.0 1.78	Lovato LRD PLC Software (or similar) for item 1.76 above	1	
		1.0 1.79	Lovato LRD PLC Programming Cable for item 1.76 above)	1	
		1.0 1.80	Magnetic Flowmeter Display (ABB Aquamaster 3)	1	
		1.0 1.81	Magnetic Flowmeter Display (ABB Watermaster or similar compatible)	1	
		1.0 1.82	Magnetic Flowmeter Display (Flowmetrix SAFMAG DCMPU)	1	
		1.0 1.83	Magnetic Flowmeter Display (ABB Watermaster or similar)	1	
		1.0 1.84	Magnetic Flowmeter Tubes		
		1.0 1.84.1	Magnetic Flowmeter Tubes (80mm Diameter)	1	
		1.0 1.84.2	Magnetic Flowmeter Tubes (100mm Diameter)	1	
		1.0 1.84.3	Magnetic Flowmeter Tubes (150mm Diameter)	1	
		1.0 1.84.4	Magnetic Flowmeter Tubes (200mm Diameter)	1	
		1.0 1.84.5	Magnetic Flowmeter Tubes (250mm Diameter)	1	
		1.0 1.84.6	Magnetic Flowmeter Tubes (300mm Diameter)	1	

SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE WATER AND SANITATION TELEMETRY AND SCADA INFRASTRUCTURE
PRICING SCHEDULE: ITEM A: TELEMETRY AND INSTRUMENTATION

PRICING SCHEDULE					
ITEM	GENERAL DESCRIPTION	REF	DESCRIPTION	QUANTITY/ UNIT	Price (Excl. VAT)
A	TELEMETRY AND INSTRUMENTATION	1.0 1.84.7	Magnetic Flowmeter Tubes (350mm Diameter)	1	
		1.0 1.84.8	Magnetic Flowmeter Tubes (400mm Diameter)	1	
		1.0 1.84.9	Magnetic Flowmeter Tubes (450mm Diameter)	1	
		1.0 1.84.10	Magnetic Flowmeter Tubes (500mm Diameter)	1	
		1.0 1.84.11	Magnetic Flowmeter Tubes (600mm Diameter)	1	
		1.0 1.85	Mechanical Pressure Gauge	1	
		1.0 1.86	Brush Cutter (Stihl FS280 or similar)	1	
		1.0 1.87	Screwdriver Set	1	
		1.0 1.88	Stainless Steel Dip Tape	1	
		1.0 1.89	Aluminium Ladder (6 step)	1	
		1.0 1.90	Aluminium Ext. Ladder (6m)	1	
		1.0 1.91	Bench Oscilloscope	1	
		1.0 1.92	Handheld Virtual Oscilloscope	1	
		1.0 1.93	Tru-RMS Multimeter (Fluke 177 or similar)	1	
		1.0 1.94	Process Meter and Calibrator (Fluke 787B or similar)	1	

**SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE WATER AND SANITATION TELEMETRY AND SCADA INFRASTRUCTURE
PRICING SCHEDULE: ITEM A: TELEMETRY AND INSTRUMENTATION**

PRICING SCHEDULE					
ITEM	GENERAL DESCRIPTION	REF	DESCRIPTION	QUANTITY/ UNIT	Price (Excl. VAT)
		1.0	1.95	Installation and Repairs to Telemetry and Instrumentation Equipment	
A	TELEMETRY AND INSTRUMENTATION	1.0	1.95.1	Factory Build and Test	1
		1.0	1.95.2	As Built Drawings	1
		1.0	1.95.3	Project Manager/Engineer Rate	Per Hour
		1.0	1.95.4	Technician Rate	Per Hour
		1.0	1.95.5	Artisan Rate	Per Hour
		1.0	1.95.6	General Worker/Labourer Rate	Per Hour
		1.0	1.95.7	Site Grass Cutting	Per m ²
		1.0	1.95.8	Site Bush Clearing and Removal	Per m ²
ITEM A: TELEMETRY AND INSTRUMENTATION				Total:	

THE MSUNDUZI MUNICIPALITY

SUPPLIES & SERVICES CONTRACT No. 71 OF 2024 : SECTIONS A AND B

**SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE
WATER AND SANITATION TELEMETRY AND SCADA INFRASTRUCTURE**

SECTION A: TELEMETRY AND INSTRUMENTATION

SECTION B: SCADA ENGINEERING AND SUPPORT

PRICE SCHEDULE FOR SECTION B

No. OF PAGES FOR SECTION B – 1

SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE WATER AND SANITATION TELEMETRY AND SCADA INFRASTRUCTURE
PRICING SCHEDULE: ITEM B: SCADA ENGINEERING AND SUPPORT

PRICING SCHEDULE						
ITEM	GENERAL DESCRIPTION	REF	DESCRIPTION	QUANTITY/ UNIT	Price (Excl. VAT)	
B	SCADA ENGINEERING AND SUPPORT	2,0	ADROIT Group Wide Licence (per annum)	1		
		2,1				
		2,2	Service Level Support Rates	-		
		2,0	48 In-House Engineering hrs (per annum)	1		
		2,0	24hrs Standby cost (per annum)	1		
		2,0	2,2.1			
		2,0	2,2.2			
		2,0	2,3			
		2,0	2,3.1			
		2,0	2,3.2			
		2,0	2,3.3			
		2,0	2,4			
		2,0	2,4.1	per Hour		
		2,0	2,4.2	per Day		
		2,0	2,4.3	per Hour		
		2,0	2,4.4	per Day		
ITEM B: SCADA ENGINEERING AND SUPPORT					Total:	

THE MSUNDUZI MUNICIPALITY

SUPPLIES & SERVICES CONTRACT No. 71 OF 2024 : SECTIONS A AND B

SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE WATER AND SANITATION TELEMETRY AND SCADA INFRASTRUCTURE

SECTION A: TELEMETRY AND INSTRUMENTATION

SECTION B: SCADA ENGINEERING AND SUPPORT

SUMMARY PAGE

Section	Description	Total Tendered Price
A	Telemetry And Instrumentation	R
B	SCADA Engineering And Support	R
Total Excluding VAT		R
Add VAT @ 15%		R
Total Including VAT		R

Notes:-

1. The Price Schedule must be completed in original handwriting.
2. Tenderers are advised to price all Items in either Sections A or B or for Both Sections in order to be considered for appointment. No partial tenders will be considered.
3. Tenderers who are non-VAT Vendors must insert the symbols "**NVV**" in the VAT column.
4. For adjudication purposes, the Council reserves the right to correct any arithmetical errors.
5. The Council reserves the right to enter into price negotiations with the appointed Tenderers, with the objective of achieving uniform costing for the services provided.

Name of Tenderer:

Full Name of Signatory:

Capacity of Signatory:

Signature:Date:

THE MSUNDUZI MUNICIPALITY

SUPPLIES & SERVICES CONTRACT No. 71 OF 2024 : SECTIONS A AND B

SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE WATER AND SANITATION TELEMTRY AND SCADA INFRASTRUCTURE

SECTION A: TELEMTRY AND INSTRUMENTATION

SECTION B: SCADA ENGINEERING AND SUPPORT

DATA SHEET 1: INVITATION TO BID DOCUMENT

PART A

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE MSUNDUZI MUNICIPALITY					
BID NUMBER:	S/S No. 71 OF 2024- Sections A and B	CLOSING DATE:	7 May 2024	CLOSING TIME:	12H00
DESCRIPTION	<u>SUPPLY, DELIVERY, INSTALLATION, REPAIRS AND MAINTENANCE TO THE WATER AND SANITATION TELEMTRY AND SCADA INFRASTRUCTURE</u>				
THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM					

BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX AT:

THE FOYER					
GROUND FLOOR					
CITY HALL					
169 CHIEF ALBERT LUTHULI STREET (FORMERLY COMMERCIAL ROAD)					
PIETERMARITZBURG 3201					
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:	

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 UNIT	CONTACT PERSON/S	Dinesh Ramkishwar
CONTACT PERSON	VINESH GOVENDER	TELEPHONE NUMBER	033 - 392 2540
TELEPHONE NUMBER	033 – 392 2027	FACSIMILE NUMBER	N/A
FACSIMILE NUMBER	N.A	E-MAIL ADDRESS	SEE BELOW
E-MAIL ADDRESS	vinesh.govender@msunduzi.gov.za	dinesh.ramkishwar@msunduzi.gov.za	

PART B

1. BID SUBMISSION:	
1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.	
1.2. ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED-(NOT TO BE RE-TYPED) OR ONLINE	
1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.	
2. TAX COMPLIANCE REQUIREMENTS	
2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.	
2.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VIEW THE TAXPAYER'S PROFILE AND TAX STATUS.	
2.3 APPLICATION FOR THE TAX COMPLIANCE STATUS (TCS) CERTIFICATE OR PIN MAY ALSO BE MADE VIA E-FILING. IN ORDER TO USE THIS PROVISION, TAXPAYERS WILL NEED TO REGISTER WITH SARS AS E-FILERS THROUGH THE WEBSITE WWW.SARS.GOV.ZA.	
2.4 FOREIGN SUPPLIERS MUST COMPLETE THE PRE-AWARD QUESTIONNAIRE IN PART B:3.	
2.5 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.	
2.6 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED, EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.	
2.7 WHERE NO TCS IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.	
3. QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS	
3.1. IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?	<input type="checkbox"/> YES <input type="checkbox"/> NO
3.2. DOES THE ENTITY HAVE A BRANCH IN THE RSA?	<input type="checkbox"/> YES <input type="checkbox"/> NO
3.3. DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?	<input type="checkbox"/> YES <input type="checkbox"/> NO
3.4. DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?	<input type="checkbox"/> YES <input type="checkbox"/> NO
3.5. IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?	<input type="checkbox"/> YES <input type="checkbox"/> NO
IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 ABOVE.	

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

SIGNATURE OF BIDDER:

CAPACITY UNDER WHICH THIS BID IS SIGNED:

DATE:

THE MSUNDUZI MUNICIPALITY

SUPPLIES & SERVICES CONTRACT No. 71 OF 2024 : SECTIONS A AND B

SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE WATER AND SANITATION TELEMTRY AND SCADA INFRASTRUCTURE

SECTION A: TELEMTRY AND INSTRUMENTATION

SECTION B: SCADA ENGINEERING AND SUPPORT

DATA SHEET 2: AUTHORITY TO SIGN DOCUMENT

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

.....

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

Full Name of Signatory:

Capacity of Signatory:

Signature:

Date:

Witnesses:-

(1) Full Name:

Signature:Date.....

(2) Full Name:

Signature:Date.....

* **Delete whichever is inapplicable or complete as indicated if none are applicable.**

THE MSUNDUZI MUNICIPALITY

SUPPLIES & SERVICES CONTRACT No. 71 OF 2024 : SECTIONS A AND B

SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE WATER AND SANITATION TELEMETRY AND SCADA INFRASTRUCTURE

SECTION A: TELEMETRY AND INSTRUMENTATION
SECTION B: SCADA ENGINEERING AND SUPPORT

DATA SHEET 3: STATEMENT OF PREVIOUS EXPERIENCE

The nomination of works, preferably of a similar nature to the works in this contract and which the Tenderer has successfully completed, is invited for adjudication purposes.

Tenderers are hereby required to complete the schedule below in its entirety.

Alternatively, Tenderers without experience may submit statements from a person or persons or organisation as to their abilities and standing in support of their tender, for adjudication purposes.

Failure to comply with either of these requirements shall lead to disqualification.

Name of Company	Contact Person	Contact No.	Nature of Works	Value of Works and Duration

SIGNATURE DATE.....

THE MSUNDUZI MUNICIPALITY

SUPPLIES & SERVICES CONTRACT No. 71 OF 2024 : SECTIONS A AND B

SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE WATER AND SANITATION TELEMTRY AND SCADA INFRASTRUCTURE

SECTION A: TELEMTRY AND INSTRUMENTATION

SECTION B: SCADA ENGINEERING AND SUPPORT

DATA SHEET 5: DECLARATION OF MUNICIPAL FEES

I/We do hereby declare that the Municipal Fees of *(Full Name of Tenderer)*

Is/are, as at the date of the tender closing, fully paid up, or arrangements have been concluded with the Municipality to pay the said Fees:-

<u>DESCRIPTION</u>	<u>ACCOUNT No.</u>
Electricity	_____
Water	_____
Rates	_____

(Attach a copy of the current Utility Bill)

I/We acknowledge that should it be found that the Municipal Fees are not up to date, the Council may take such remedial action as it required, including termination of contract, and any income due to the Contractor shall be utilised to offset any monies due to the Council.

NB: If the Contractor is leasing the premises, a copy of the Lease Agreement must be submitted for adjudication purposes.

Full Name of Signatory.....

Capacity of Signatory.....

I.D. Number.....

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

.....

Physical Address.....

.....

.....

Signature Date

THE MSUNDUZI MUNICIPALITY

SUPPLIES & SERVICES CONTRACT No. 71 OF 2024 : SECTIONS A AND B

SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE WATER AND SANITATION TELEMTRY AND SCADA INFRASTRUCTURE

SECTION A: TELEMTRY AND INSTRUMENTATION

SECTION B: SCADA ENGINEERING AND SUPPORT

DATA SHEET 6: DECLARATION OF INTEREST

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

3.1 Full Name of bidder or his or her representative:

3.2 Identity Number:

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

.....

3.4 Company Registration Number:

3.5 Tax Reference Number:

3.6 VAT Registration Number:

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

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

3.8.1 If yes, furnish particulars.

.....

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

- (a) a member of –
 - (i) any municipal council;
 - (ii) any provincial legislature; or
 - (iii) the national Assembly or the national Council of provinces;
- (b) a member of the board of directors of any municipal entity;
- (c) an official of any municipality or municipal entity;

- (d) an employee of any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No.1 of 1999);
- (e) a member of the accounting authority of any national or provincial public entity; or
- (f) an employee of Parliament or a provincial legislature.

“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? YES / NO

3.9.1 If yes, furnish particulars

.....

3.10 Do you have any relationship (family, friend, other) with persons in the service of the state and who may be involved with the evaluation and or adjudication of this bid? YES / NO

3.10.1 If yes, furnish particulars

.....

3.11 Are you, aware of any relationship (family, friend, other) between any other bidder and any persons in the service of the state who may be involved with the evaluation and or adjudication of this bid? YES / NO

3.11.1 If yes, furnish particulars

.....

3.12 Are any of the company’s directors, trustees, managers, principle shareholders or stakeholders in service of the state? YES / NO

3.12.1 If yes, furnish particulars

.....

3.13 Are any spouse, child or parent of the company’s directors trustees, managers, principle shareholders or stakeholders in service of the state? YES / NO

3.13.1 If yes, furnish particulars

.....

3.14 Do you or any of the directors, trustees, managers, principle shareholders, or stakeholders of this company have any interest in any other related companies or business whether or not they are bidding for this contract? YES / NO

3.14.1 If yes, furnish particulars:

.....

.....

THE MSUNDUZI MUNICIPALITY

SUPPLIES & SERVICES CONTRACT No. 71 OF 2024 : SECTIONS A AND B

SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE WATER AND SANITATION TELEMTRY AND SCADA INFRASTRUCTURE

SECTION A: TELEMTRY AND INSTRUMENTATION

SECTION B: SCADA ENGINEERING AND SUPPORT

DATA SHEET 7: DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES

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

Item	Question	Yes	No
4.1	<p>Is the bidder or any of its directors listed on the National Treasury's Database of Restricted Suppliers as companies or persons prohibited from doing business with the public sector?</p> <p>(Companies or persons who are listed on this Database were informed in writing of this restriction by the Accounting Officer/Authority of the institution that imposed the restriction after the <i>audi alteram partem</i> rule was applied).</p> <p>The Database of Restricted Suppliers now resides on the National Treasury's website (www.treasury.gov.za) and can be accessed by clicking on its link at the bottom of the home page.</p>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.1.1	If so, furnish particulars:		
4.2	<p>Is the bidder or any of its directors listed on the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004)?</p> <p>The Register for Tender Defaulters can be accessed on the National Treasury's website (www.treasury.gov.za) by clicking on its link at the bottom of the home page.</p>	Yes <input type="checkbox"/>	No <input type="checkbox"/>

4.2.1	If so, furnish particulars:		
4.3	Was the bidder or any of its directors convicted by a court of law (including a court of law outside the Republic of South Africa) for fraud or corruption during the past five years?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.3.1	If so, furnish particulars:		
4.4	Does the bidder or any of its directors owe any municipal rates and taxes or municipal charges to the municipality / municipal entity, or to any other municipality / municipal entity, that is in arrears for more than three months?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.4.1	If so, furnish particulars:		
4.5	Was any contract between the bidder and the municipality / municipal entity or any other organ of state terminated during the past five years on account of failure to perform on or comply with the contract?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.7.1	If so, furnish particulars:		

CERTIFICATION

I, THE UNDERSIGNED, (NAME)

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

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

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder

THE MSUNDUZI MUNICIPALITY

SUPPLIES & SERVICES CONTRACT No. 71 OF 2024 : SECTIONS A AND B

SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE WATER AND SANITATION TELEMETRY AND SCADA INFRASTRUCTURE

SECTION A: TELEMETRY AND INSTRUMENTATION

SECTION B: SCADA ENGINEERING AND SUPPORT

DATA SHEET 8: 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 *per se* prohibited meaning that it cannot be justified under any grounds.
3. Municipal Supply Regulation 38 (1) prescribes that a supply chain management policy must provide measures for the combating of abuse of the supply chain management system, and must enable the accounting officer, among others, to:
 - a. take all reasonable steps to prevent such abuse;
 - b. reject the bid of any bidder if that bidder or any of its directors has abused the supply chain management system of the municipality or municipal entity or has committed any improper conduct in relation to such system; and
 - c. cancel a contract awarded to a person if the person committed any corrupt or fraudulent act during the bidding process or the execution of the contract.
4. This MBD serves as a certificate of declaration that would be used by institutions to ensure that, when bids are considered, reasonable steps are taken to prevent any form of bid-rigging.
5. In order to give effect to the above, the attached Certificate of Bid Determination (MBD 9) must be completed and submitted with the bid:

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

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

CERTIFICATE OF INDEPENDENT BID DETERMINATION

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:
 - (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.

⁹ Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.

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

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder

THE MSUNDUZI MUNICIPALITY

SUPPLIES & SERVICES CONTRACT No. 71 OF 2024 : SECTIONS A AND B

SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE WATER AND SANITATION TELEMETRY AND SCADA INFRASTRUCTURE

SECTION A: TELEMETRY AND INSTRUMENTATION

SECTION B: SCADA ENGINEERING AND SUPPORT

**DATA SHEET 9: 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:

* Delete if not applicable

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 Providers 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 Providers 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

.....
.....

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

***YES / NO**

4.1 If yes, furnish particulars

.....
.....

CERTIFICATION

I, THE UNDERSIGNED, (NAME)

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

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

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder

MSUNDUZI MUNICIPALITY

SUPPLIES & SERVICES CONTRACT No. 71 OF 2024 : SECTIONS A AND B

SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE WATER AND SANITATION TELEMETRY AND SCADA INFRASTRUCTURE

SECTION A: TELEMETRY AND INSTRUMENTATION

SECTION B: SCADA ENGINEERING AND SUPPORT

DATA SHEET 10 - SITE INSPECTION/TENDER BRIEFING CERTIFICATE

As required by the General Conditions of Contract, I/we attended the Tender Briefing Meeting on the date specified below.

I/We carefully examined the contract documents, and have made myself/ourselves fully conversant with all the circumstances likely to influence the cost of the Works.

I/We further certify that I am/we are satisfied with the description of the Works and the explanation given by or on behalf of the Engineer's Representative at the meeting, and that I/we understand perfectly the work to be done, as specified and implied, in the execution of the contract.

SITE INSPECTION/TENDER BRIEFING CERTIFICATE
(To be completed by the Tenderer prior to the meeting)

NAME OF COMPANY: _____

PHYSICAL ADDRESS: _____

This will certify that _____ (Name)

Representing _____ (Firm)

visited the site of the Works and/or attended the tender briefing meeting for this contract on

_____ day _____ Month _____ Year

SIGNATURE OF TENDERER: _____

SIGNED: _____ DATE: _____

for ENGINEER

THE MSUNDUZI MUNICIPALITY

SUPPLIES & SERVICES CONTRACT No. 71 OF 2024 : SECTIONS A AND B

**SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE
WATER AND SANITATION TELEMTRY AND SCADA INFRASTRUCTURE**

SECTION A: TELEMTRY AND INSTRUMENTATION

SECTION B: SCADA ENGINEERING AND SUPPORT

TENDER FORM

The City Manager
City Hall
PIETERMARITZBURG
3201

Dear Madam,

Having examined the Specifications, Conditions of Contract, Tender and Legislation of the above contract, I/we offer to supply and deliver the whole of the said Works in conformity with the Specifications, Conditions of Contract, Tender and Legislation, save as amended by the modifications set out in Annexure 'A' attached hereto, for the rates as set out in the price schedule for the period commencing from date of award.

I/We are registered VAT vendors and the Total Price as tendered **EXCLUDES/INCLUDES 15% VAT.**

In the event of there being any errors of extension or addition in the Pricing Schedule, I/we agree to their being corrected, the Unit Prices being taken as correct.

I/We undertake to complete and deliver the whole of the Works comprised in the Contract within the timeframes stated.

I/We confirm that I am/we are fully acquainted with the current South African laws and regulations applicable to this contract including inter alia those laws to which my/our attention has been drawn in the Legislation Section of this document.

I/We are affiliated to _____
(Enter Nil if no affiliations)

My/Our VAT vendor registration number is _____

I/We bank at the _____

Branch of _____

Where I/we have a _____ account.

Tender Deposit Receipt No. _____
(Include a copy of the Tender Deposit Receipt only if purchased at the Municipality)

It is agreed and understood that should there be any changes on the banking details provided for the entity, a duly signed resolution by all its directors and minutes whereby a resolution for changing the banking details was passed will be submitted to Council including the original letter from the bank confirming the details.

It is agreed and understood that this tender is valid for four (4) months commencing from the closing date of the tender and that it, together with your final letter of acceptance, shall constitute a binding Contract between us.

I/We understand that the Council is not bound to accept the lowest or any tender and reserves the right to accept the whole or any part of a tender received.

I/We understand that the Council is not bound to accept the lowest or any tender and acknowledge that the Head: Supply Chain Management may, if in her absolute discretion good and sufficient grounds are brought to her attention in writing within five (5) working days from the date hereof, decline to consider my/our offer.

I/We, the undersigned, warrants that I am/We are duly authorised to do so on behalf of the enterprise, certifies that the enterprise complies with all statutory and municipal requirements and that the information supplied in terms of this documents with additional information is correct and accurate and acknowledges that if the information supplied is found to be incorrect then the Msunduzi Municipality in addition to any remedies, it may have: may:-

- i Recover from the Enterprise all costs, losses or damages incurred or sustained by the Municipality as result of the award of the contract, and /or
- ii Cancel the contract and claim any damages which the Municipality may suffer by having to make less favourable arrangements after such cancellations, and/or
- iii Impose a penalty on the Enterprise as provided in the Tender Document, and/or
- iv Take any other action as may be deemed necessary.

I/we further undertake to submit documentary proof regarding any tendering issue to the Council when so required.

Full Name of Signatory.....

Capacity of Signatory.....

I.D. Number.....

Duly Authorised to sign on behalf of.....

Physical Address.....

.....

SIGNATURE.....DATE.....

THE MSUNDUZI MUNICIPALITY

SUPPLIES & SERVICES CONTRACT No. 71 OF 2024 : SECTIONS A AND B

SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE WATER AND SANITATION TELEMETRY AND SCADA INFRASTRUCTURE

SECTION A: TELEMETRY AND INSTRUMENTATION

SECTION B: SCADA ENGINEERING AND SUPPORT

ALTERATIONS BY TENDERER

Should the Tenderer desire to make any departures from or modifications to the Standard Conditions of Contract or Specification, or to qualify his/her tender in any way, he/she shall set out his/her proposals clearly hereunder or, alternatively, state them in a covering letter attached to his/her tender and referred to hereunder, failing which the tender will be deemed to be unqualified.

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

PAGE	SECTION OR ITEM	PROPOSED DEPARTURE/MODIFICATION

SIGNATURE..... DATE.....

THE MSUNDUZI MUNICIPALITY

SUPPLIES & SERVICES CONTRACT No. 71 OF 2024 : SECTIONS A AND B

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SECTION A: TELEMTRY AND INSTRUMENTATION
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OCCUPATIONAL HEALTH AND SAFETY ACT (ACT No. 85 OF 1993)

SECTION 37(1)

Whenever an employee does or omits to do any act which would be an offence in terms of this Act for the employer of such employee or a user to do or omit to do, then, it is proved that –

- (a) in doing or omitting to do the act the employee was acting without connivance or permission of the employer or any such user;*
- (b) it was not under any condition or in any circumstance within the scope of the authority of the employee to do or omit to do an act, whether lawful or unlawful, of the character of the act or omission charged; and*
- (c) all reasonable steps were taken by the employer or any such user to prevent any act or omission of the kind in question,*

the employer or any such user himself shall be presumed to have done or omitted to do that act, and shall be liable to be convicted and sentenced in respect thereof; and the fact that he issued instructions forbidding any act or omission of the kind in question shall not, in itself, be accepted as sufficient proof that he took all reasonable steps to prevent the act or omission.

SECTION 37(2)

The provisions of subsection (1) shall "mutatis mutandi" apply in the case of a mandatory of any employer or user, except if the parties have agreed in writing to the arrangements and procedures between them to ensure compliance by the mandatory with the provisions of this Act.

ACCEPTANCE BY MANDATORY

In terms of the provisions of Section 37(2) of the Occupational Health and Safety Act 85 of 1993,
I, _____

(Name of PRINCIPAL CONTRACTOR / Representative) acting for and on behalf of _____ (Name of

PRINCIPAL CONTRACTOR / Company) undertake to ensure that the requirements and provisions of the Health and Safety Specifications issued by the client at the following site:

_____ (Name of Site) are complied with in the following manner:

- To produce, review, monitor and enforce a Health and Safety Plan which has been approved by the Client, an Agent for the Client or a Principal Contractor;
- To include a risk assessment in the Health and Safety Plan which identifies all hazards pertaining to the project;
- To ensure that all relevant documentation required by the Occupational Health and Safety Act and Regulations, including the Construction Regulations, the Compensation for Occupational Injuries and Diseases Act as well as any other statutory laws as amended from time to time is available on site in the health and safety file;
- Enforce precautionary measures stipulated in the risk assessments.

The person signing this agreement confirms that he/she has the authority to so sign and to bind his/her employer, the said Contractor.

Signature: _____ Date: _____
(on behalf of PRINCIPAL CONTRACTOR)

Signature: _____ Date: _____
(CLIENT- Msunduzi Municipality)

Print Name: _____
(Name of CLIENT Representative)

THE MSUNDUZI MUNICIPALITY

SUPPLIES & SERVICES CONTRACT No. 71 OF 2024 : SECTIONS A AND B

SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE WATER AND SANITATION TELEMTRY AND SCADA INFRASTRUCTURE

SECTION A: TELEMTRY AND INSTRUMENTATION

SECTION B: SCADA ENGINEERING AND SUPPORT

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

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

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

1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to 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 The value of this bid is estimated to not exceed R50 000 000 (all applicable taxes included) and therefore the 80/20 Preference Point System shall be applicable.

1.3 Points for this bid shall be awarded for:

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

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

	POINTS
PRICE	80
SPECIFIC GOALS	20
Total points for Price and Specific Goals must not exceed	100

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

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

2. DEFINITIONS

- (a) **“Broad-Based Black Economic Empowerment Act”** means the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- (b) **“EME”** means an Exempted Micro Enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;
- (c) **“Functionality”** means the ability of a tenderer to provide goods or services in accordance with specifications as set out in the tender documents.
- (d) **“highest acceptable tender”** means a tender that complies with all specifications and conditions of tender and that has the highest price compared to other tenders;
- (e) **“lowest acceptable tender”** means a tender that complies with all specifications and conditions of tender and that has lowest price compared to other tenders;
- (f) **“price”** means amount of money tendered for good or services, and includes all applicable taxes less all unconditional discounts;
- (g) **“QSE”** means a qualifying small business enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;
- (h) **“Rand Value”** means the total estimated value of a contract in Rand, calculated at the time of bid invitation;
- (i) **“specific goals”** means specific goals as contemplated in section 2(1)(d) of the Act which may include contracting with persons, or categories of persons, historically disadvantaged by unfair discrimination on the basis of race, gender and disability including the implementation of programmes of the Reconstruction and Development Programme as published in Government Gazette No. 16085 dated 23 November 1994;
- (j) **“tender”** means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;
- (k) **“tender for income-generating contracts”** means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions;

3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

3.1 POINTS AWARDED FOR PRICE

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

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

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

Where: -

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

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

3.2.1 POINTS AWARDED FOR PRICE

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

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

Where: -

- Ps = Points scored for price of bid under consideration
- Pt = Price of bid under consideration
- Pmax = Price of highest acceptable tender

4. POINTS AWARDED FOR SPECIFIC GOALS

4.1 In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:

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

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

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

then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

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

80/20 preference point system is applicable, corresponding points must also be indicated as such.

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

The specific goals allocated points in terms of this tender	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (80/20 system) (To be completed by the tenderer)
Black owned enterprise	5	
Youth	5	
Location of a Business Enterprise	10	

5. SUB-CONTRACTING

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

(Tick applicable box)

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

5.1.1 If yes, indicate:

i) What percentage of the contract will be subcontracted.....%?

ii) The name of the sub-contractor.....

iii) Whether the sub-contractor is an EME or QSE

(Tick applicable box)

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

iv) Specify, by ticking the appropriate box, if subcontracting with an enterprise in terms of Preferential Procurement Regulations,2022:

Designated Group: An EME or QSE which is at least 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		
Co-operative owned by black people		
Black people who are military veterans		

OR		
Msunduzi EME		
Msunduzi Manufacturing Enterprise		
Location of a Business Enterprise		

6. DECLARATION WITH REGARD TO COMPANY/FIRM

- 6.1 Name of company/firm.....
- 6.2 VAT registration number.....
- 6.3 Company registration number.....

6.4 TYPE OF COMPANY/ FIRM

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

[TICK APPLICABLE BOX]

6.5 DESCRIBE PRINCIPAL BUSINESS ACTIVITIES

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6.6 COMPANY CLASSIFICATION

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

[TICK APPLICABLE BOX]

6.7 MUNICIPAL INFORMATION

Municipality where business is situated.....

Registered Account Number:

Stand Number:

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

6.9 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 specific goals as advised in the tender, qualifies the company/ firm for the preference(s) shown and I / we acknowledge that:

- i) The information furnished is true and correct;

- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 5.2, the contractor may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct;
- iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the 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 BIDDER(S)

DATE:

ADDRESS:

.....

.....

THE MSUNDUZI MUNICIPALITY

SUPPLIES & SERVICES CONTRACT No. 71 OF 2024 : SECTIONS A AND B

**SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE
WATER AND SANITATION TELEMTRY AND SCADA INFRASTRUCTURE**

SECTION A: TELEMTRY AND INSTRUMENTATION

SECTION B: SCADA ENGINEERING AND SUPPORT

TAX CLEARANCE CERTIFICATE

Tenderers are required to attach hereto a Valid Tax Clearance Certificate and a Tax Compliance Status Verification Pin issued by SARS as required in terms of Regulation 16 of the Preferential Procurement Regulations, 2001 for adjudication purposes.

THE MSUNDUZI MUNICIPALITY

SUPPLIES & SERVICES CONTRACT No. 71 OF 2024 : SECTIONS A AND B

**SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE
WATER AND SANITATION TELEMETRY AND SCADA INFRASTRUCTURE**

SECTION A: TELEMTRY AND INSTRUMENTATION

SECTION B: SCADA ENGINEERING AND SUPPORT

CIPC REGISTRATION CERTIFICATE

Tenderers are required to attach hereto proof of registration with the Companies and Intellectual Property Commission (CIPC) for adjudication purposes.

THE MSUNDUZI MUNICIPALITY

SUPPLIES & SERVICES CONTRACT No. 71 OF 2024 : SECTIONS A AND B

**SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE
WATER AND SANITATION TELEMTRY AND SCADA INFRASTRUCTURE**

SECTION A: TELEMTRY AND INSTRUMENTATION

SECTION B: SCADA ENGINEERING AND SUPPORT

**CENTRAL SUPPLIER DATABASE (CSD)
REGISTRATION REPORT**

Tenderers are required to attach hereto proof of registration with the Central Supplier Database (CSD).

A full Report is required for adjudication purposes.

THE MSUNDUZI MUNICIPALITY

SUPPLIES & SERVICES CONTRACT No. 71 OF 2024 : SECTIONS A AND B

**SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, REPAIRS AND MAINTENANCE TO THE
WATER AND SANITATION TELEMTRY AND SCADA INFRASTRUCTURE**

SECTION A: TELEMTRY AND INSTRUMENTATION

SECTION B: SCADA ENGINEERING AND SUPPORT

COMPACT DISC (CD) OR USB-FLASH DRIVE

Tenderers are required to attach hereto a scanned copy of the completed tender document on either a Compact Disc (CD) or USB-Flash Drive for adjudication purposes.

The Compact Disc (CD) or USB-Flash Drive must be submitted in a sealed envelope and attached hereto.

SIGNED ON BEHALF OF THE SERVICE PROVIDER:

Name of Service Provider

Name of Signatory:

Capacity of Signatory:

Signature Date

All literature and attachments submitted must be securely attached to the tender. The Council shall not be held liable for any loss or damages sustained due to the Service Provider's failure to comply with this condition.