



TENDER NO: 2022/029(A)

Supply and installation of CCTV and Access Control systems

VOLUME 1 – Tendering Procedures and Returnable Documents

Issued by:

Umgeni Water
310 Burger Street
Pietermaritzburg

Tender Queries:

Contact Name: Zakhele Cele
Telephone: 033 341 1313

Name of Tenderer: _____

National Treasury CSD Number: _____

Tip-Offs Anonymous Hotline:	Appeals/Objections
<p>Report unethical conduct at Umgeni Water on:</p> <p>Toll Free Number: 0800 864 463 Email: umgeniwater@whistleblowing.co.za Toll Free Fax: 0800 212 689 Postal: Freepost KZN665, Musgrave, 4062 SMS: 33490 Online: www.whistleblowing.co.za</p> <p><i>Stop theft / fraud / dishonesty / bribery /blackmail / intimidation, and remain anonymous.</i></p>	<p>Persons aggrieved by tender award decisions taken by Umgeni Water, may lodge an appeal within 7 days of the date of the intention to award advertisement.</p> <p>UW shall only consider written appeals/objections clearly stating reasons for appeal directed to:</p> <p>The Supply Chain Management Office, Attention: Supply Chain Management Email: appeals@umgeni.co.za</p>

TABLE OF CONTENTS

<u>DESCRIPTION</u>	<u>PAGE</u>	<u>SHEET COLOUR</u>
VOLUME 1		
THE TENDER		
T1 TENDERING PROCEDURES		
T1.1 Tender Notice and Invitation to Tender	T1.1	White
T1.2 Tender Data	T1.3	Pink
T.2 RETURNABLE DOCUMENTS		
T2.1 List of Returnable Documents	T2.1	Yellow
T2.2 Returnable Schedules and Documents	T2.3	Yellow
VOLUME 2		
THE CONTRACT		
C.1 AGREEMENTS AND CONTRACT DATA		
C1.1 Form of Offer and Acceptance	C1.2	Yellow
C1.2 Contract Data	C1.7	Yellow
C.2 PRICING DATA		
C2.1 Pricing Instructions	C2.1	Yellow
C2.2 Pricing Schedule	C2.2	Yellow
C.3 SCOPE OF WORK	C3.1	Blue
C.4 SITE INFORMATION	C4.1	Green
C.5 ANNEXURES	C5.1	White

Tender Number: 2022/029

Tender Title: Supply and installation of CCTV and Access Control

T1.1 TENDER NOTICE AND INVITATION TO TENDER

Umgeni Water is a state owned business enterprise and it operates within the South African legislative parameters of the Water Services Act 108 of 1997, Public Finance Management Act 1 of 1999 and Public Audit Act 25 of 2004.

Competent and experienced service providers are invited to tender for the following:

Supply and installation of CCTV and Access Control

In addition to the Eligibility Criteria specified in Clause F2.1 of the tender document, tenderers are required to fulfil the following:

Industry/sector/sub-sector Minimum threshold for local content

Electrical and telecom cables	90%
-------------------------------	-----

Tenderers are required to achieve at least 35% Contract Participation Goals (CPG) including a minimum 10% Black Women participation and another 10% for Local participation of the value of goods, services and works paid to one or more targeted enterprises to comply with Umgeni Water's BBBEE policy initiative.

Evaluation method:

The tender will firstly be evaluated on eligibility. If found to be eligible, it will be further evaluated in two stages i.e.

- Functionality shall be assessed. A minimum functionality score of 70 points is required for the tender to be considered further.
- Price & Preference using the 90/10 Preference Point Scoring System in terms of PPPFA

Tender Submission

The physical address for and the submission of Tenders is:

Umgeni Water, 310 Burger Street, Pietermaritzburg.

How to Access Tender documents

Tender documents are available from the Supply Chain Management Office. Documents will be issued by email, upon request and submission of proof of payment to zakhele.cele@umgeni.co.za. Documents will only be issued in electronic format, during working hours from 09h00 to 15h00 from 8 August 2022 to 19 August 2022

A non-refundable tender fee of R200 payable by Electronic Fund Transfer is required before collecting the Tender Document. Proof of EFT payment is to be provided on collection. The said transfers may be made to:

BANK NAME;	NEDBANK LIMITED
ACCOUNT NAME:	UMGENI WATER BOARD – MAIN ACCOUNT
ACCOUNT NUMBER:	1196366594
REFERENCE:	TENDER NO. 2022/029(A) and Company Name.

**NOTE: 1 TENDER DOCUMENTS SHALL NOT BE ISSUED IF INCORRECTLY REFERENCED.
2 TENDERER TO FORWARD NOTIFICATION OF PAYMENT BY E-MAIL TO [Zakhele Cele] AT
[Zakhele.cele@umgeni.co.za]**

NOTE: NO CASH PAYMENT WILL BE ACCEPTED WHEN ISSUING TENDER DOCUMENTS.

Queries relating to the issue of these documents shall be addressed to [Mr Zakhele Cele],
Tel No.: [033 341 1313], e-mail: [zakhele.cele@umgeni.co.za]. A compulsory clarification meeting with
representatives of Umgeni Water will take place on Microsoft Teams on **22 August 2022** starting at
10h00.

The closing time for submission of tenders is **12h00** on **13 September 2022**

Tenders are to be deposited in the tender box located outside the main entrance at **Umgeni Water,
310 Burger Street, Pietermaritzburg**.

Persons aggrieved by decisions or actions taken by Umgeni Water, may lodge an appeal within 7 days
of the date of the intention to award advertisement appearing in the relevant print media.

The appeal (clearly stating reasons for appeal) and queries with regard to the decision of award are to
be directed, in writing only to the Supply Chain Management Office,

Attention: Supply Chain Management

Email: appeals@umgeni.co.za

T1.2 TENDER DATA (INCLUDING SPECIAL CONDITIONS OF TENDER)

The conditions of tender are the Umgeni Water Standard Conditions of Tender (document number: SCM009, a copy of which may be obtained from Umgeni Water Supply Chain Management office or can be downloaded from the following web site:

www.umgeni.co.za/sustainable_development/sud.asp

For purposes of this Contract the following Special Condition of Tender shall apply:

F.3.8 Test for responsiveness

Sub-Clause F.3.8.1 Add the following new sub-clause:

“d) Meets the minimum Functionality requirement stated in the Tender Data.”

F3.11.5 Method 4: Financial offer, quality and preferences

Delete this Clause in its entirety and substitute with:

“F.3.11.5 Functionality

Each member of the Employer’s tender evaluation committee is to independently score each tender in respect of functionality offered in accordance with the provisions of F.3.11.9. The committee is then to calculate the final score for each tender as the average of the score from each committee member, rejecting all tender offers that fail to score the minimum number of points stated in the tender data, if any.”

Clause F.3.11.9 Scoring Quality

Substitute the word ‘quality’ wherever it appears with the word ‘functionality’.

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

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

Clause number	Tender Data
	F.1.1 Actions
F.1.1	The Employer is Umgeni Water
	F.1.2 Tender Documents
F.1.2	<p>The Tender Documents issued by the Employer comprise the following documents:</p> <p>VOLUME 1 – Tendering Procedures and Returnable Documents Part T1: Tendering procedures Part T2: Returnable documents</p> <p>VOLUME 2 – Offer, Contract, Price, Scope of Work and Site Information Part C1: Agreements and Contract data Part C2: Pricing data Part C3: Scope of work Part C4: Site information Part C5: Annexures</p>

T1.4.

F.1.4 Communication and Employer's agent	
F.1.4	The Employer's agent is : <u>Tender Queries</u>
	Name: Zakhele Cele Address: 310 Burger Street, Pietermaritzburg 3201 Tel: 033 341 1313 E-mail: Zakhele.cele@umgeni.co.za
F.1.5 The Purchaser's right to accept or reject any tender offer	
F.1.5.2	The minimum period will be 120 days
F.2.1 Eligibility	
F.2.1	Umgeni Water will only consider submissions from tenderers who satisfy the following criteria: <ul style="list-style-type: none"> a) Tenderers are required to achieve the stipulated minimum threshold as per the relevant Treasury Instruction Note on local content and production for electrical and telecom cables at 90%. (Refer to Returnable Document T2.2.8) b) The tenderer completed the Bidders Disclosure Form (T2.2.2) c) Tenderers are required to achieve at least 35% Contract Participation Goals (CPG) including a minimum 10% Black Women participation and another 10% for Local participation of the value of goods, services and works paid to one or more targeted enterprises to comply with Umgeni Water's BBBEE policy initiative. d) Tenderer must have PSIRA Registration for the Company e) PSIRA Registration for all Company Director(s) (Grade B/A)

	F.2.7 Clarification meeting
F.2.7	There is a clarification meeting, on Microsoft Teams
	F.2.12 Alternative tender offers
F.2.12	No alternative tender offers shall be considered.
	F.2.13 Submitting a tender offer
F.2.13.3	Parts of each tender offer communicated on paper shall be submitted as an original
F.2.13.5 and F.2.13.7	<p>The Employer's details and address for delivery of tender offers are stated in T1.1 Tender Notice and Invitation to Tender.</p> <p>Identification details The identification details which must be stated in the tender offer outer package are: Tender Number Title of Tender Closing Date Closing Time Tenderer's Name Tenderer's Address</p> <p>Tenders issued in more than one volume shall be returned in the same manner and bound separately as per the tender volumes issued. The tender box is available to the public 24 hours per day and 7 days per week. It is the Tenderers sole responsibility to ensure that tenders are placed in the tender box and only Tenders that have been placed in the tender box before the stipulated closing date and time shall be considered.</p>
F.2.13.6	A two-envelope system is not applicable
	F.2.15 Closing time
F.2.15	The closing time for submission of tender offers is as stated in T.1.1 Tender Notice and Invitation to Tender.
	F.2.16 Tender offer validity
F.2.16.1	The tender offer validity period is 120 days from the closing date.

T1.6.

	F.2.19 Inspections, tests and analysis
F.2.19	N/A
	F.2.20 Submit securities, bonds, policies, etc.
F.2.20	The Tenderer is required to submit with his Tender a letter of intent from an approved Financial Services Provider registered with the Financial Services Board to provide the Insurances to the format included in Part T2.2 of this procurement document.
	F.2.23 Certificates
F.2.23	<p>The Tenderer is required to submit with his tender:</p> <ol style="list-style-type: none"> 1) A Tax Compliance Status (TCS) letter (with pin) issued by the South African Revenue Services. 2) A valid affidavit or a certified copy B-BBEE Status Level Certificate or sufficient evidence to confirm status as a qualifying EME 3) Central Supplier Database (CSD) Report 4) Proof of good standing in terms of the COID Act 5) Certificate of Independent Bid Determination 6) Company Registration Certificate. 7) PSIRA Registration for the Company 8) PSIRA Registration for all Company Director(s) (Grade B/A)
	F.3.4 Opening of tender submissions
F.3.4	Tenders shall be opened immediately after the closing time for tenders as stipulated in T1.1 Tender Notice and Invitation to Tender.
	F3.8 Test for responsiveness
F.3.8	The minimum qualifying Functionality Evaluation Score shall be 70 (seventy) points

	F.3.11 Evaluation of tender offers															
F.3.11.3 F.3.11.7 F.3.11.8	The procedure for the evaluation of responsive tenders is Method 2 (Financial Offer and Preference) in accordance with F.3.11.3 using formula 2 in F.3.11.7															
F.3.11.9	<p>The table below lists the returnable schedules that set out the scoring criteria and sub-criteria, and the percentage weighting for the score achieved against the relevant schedule:</p> <table><tr><th colspan="2">Returnable Schedule</th><th>Weighting %</th></tr><tr><td>T2.2.09</td><td>Tenderer's Experience</td><td>50</td></tr><tr><td>T2.2.11</td><td>Experience of Key Personnel</td><td>30</td></tr><tr><td>T2.2.15</td><td>Method Statement</td><td>10</td></tr><tr><td>T2.2.16</td><td>Preliminary Programme</td><td>10</td></tr></table> <p><u>Failure to score a single point in any of the criteria listed above will deem the bid to be non-responsive and the bidder will be disqualified.</u></p> <p>The score allocated by each Bid Evaluation Committee member for a tender shall be the sum, of the scores relevant to each of the above listed returnable schedules multiplied by the percentage weighting for each as shown above.</p>	Returnable Schedule		Weighting %	T2.2.09	Tenderer's Experience	50	T2.2.11	Experience of Key Personnel	30	T2.2.15	Method Statement	10	T2.2.16	Preliminary Programme	10
Returnable Schedule		Weighting %														
T2.2.09	Tenderer's Experience	50														
T2.2.11	Experience of Key Personnel	30														
T2.2.15	Method Statement	10														
T2.2.16	Preliminary Programme	10														
	F.3.17 Provide copies of the contracts															
F.3.17	The number of paper copies of the signed contract to be provided by the Employer is one.															
	F3.18 Provide written reasons for actions taken															

T2.1 LIST OF ALL RETURNABLE DOCUMENTS AND SCHEDULES

The Tenderer shall complete and submit the following returnable schedules and documents:

	Tenderer's Check List	Page No.
T2.2.1 Authority for Signatory		T2.3
T2.2.2 Bidders Disclosure		T2.10
T2.2.3 Tax Compliance Status Letter Requirements		T2.13
T2.2.4 Proof of Attendance at the Compulsory Clarification/Site Meeting		T2.15
T2.2.5 Contract Participation Goals (CPG)		T2.16
T2.2.6 Tenderer's Experience		T2.19
T2.2.7 Key Personnel Assigned to the Work		T2.22
T2.2.8 Experience of Key Personnel		T2.23
T2.2.9 Proposed Organization and Staffing		T2.26
T2.2.10 Tenderer's Schedule of Plant and Equipment		T2.28
T2.2.11 Quality Assurance and Environmental Management		T2.30
T2.2.12 Method Statement		T2.32
T2.2.13 Preliminary Programme		T2.34
T2.2.14 Registration Certificate / Agreement / ID Document		T2.36
T2.2.15 Amendments, Qualifications and Alternatives		T2.37
T2.2.16 Record of Addenda to Tender Documents		T2.39
T2.2.17 VAT Registration Certificate		T2.40
T2.2.18 Schedule of Proposed Sub-Supplier		T2.41
T2.2.19 Proof of Purchase of Tender Document		T2.42
T2.2.20 Goods and Services Sourced Internationally		T2.43
T2.2.21 Letter of Good Standing in terms of COIDA Act		T2.45
T2.2.22 Preference Points claim form in terms of the PPPFA Regulations 2017, substantiated by the B-BBEE Verified Status Level Verification Certificate		T2.46
T2.2.23 Tenderer's Financial Standing		T2.53
T2.2.24 Suppliers Health and Safety Declaration		T2.54
T2.2.25 Pro forma OHS Notification		T2.55
T2.2.26 Letter of Intent for Public Liability		T2.57

T2.2.

T2.2.27 Letter of Intent for Performance Guarantee		T2.58
T2.2.28 Registration Certificates		T2.59
T2.2.29 Central Supplier Database (CSD) Report		T2.60

FOR INFORMATION PURPOSE ONLY

T2.2.1 AUTHORITY FOR SIGNATORY

Fill in the relevant portion applicable to the type of organization

A. COMPANIES

If a Tenderer is a company, a certified copy of the resolution by the board of directors, personally signed by the chairperson of the board, authorizing the person who signs this Tender to do so, as well as to sign any contract resulting from this Tender and any other documents and correspondence in connection with this Tender and/or contract on behalf of the company must be submitted with this Tender, that is before the closing time and date of the Tender

AUTHORITY BY BOARD OF DIRECTORS

By resolution passed by the Board of Directors on 20.....

Mr/Mrs (whose signature appears below) has been duly authorized to sign all documents in connection with this Tender on behalf of

(Name of Company)

IN HIS/HER CAPACITY AS:

SIGNED ON BEHALF OF COMPANY:
(PRINT NAME)

SIGNATURE OF SIGNATORY: **DATE:**

WITNESSES:

B. SOLE PROPRIETOR (ONE - PERSON BUSINESS)

I, the undersigned

hereby confirm that I am the sole owner of the business trading as

.....

.....
SIGNATURE

.....
DATE

FOR INFORMATION PURPOSE ONLY

C. PARTNERSHIP

The following particulars in respect of every partner must be furnished and signed by every partner:

Full name of Partner	Residential Address	Signature
.....
.....
.....
.....

We, the partners in the business trading as

hereby authorize
to sign this Tender as well as any contract resulting from the Tender and any other documents and
correspondence in connection with this Tender and /or contract on behalf of

.....
Signature	Signature	Signature
.....
Date	Date	Date

D. CLOSE CORPORATION

In the case of a close corporation submitting a Tender, a certified copy of the Founding Statement of such corporation shall be included with the Tender, together with the resolution by its members authorizing a member or other official of the corporation to sign the documents on their behalf.

By resolution of members at a meeting on 20.....

at

Mr/Ms, whose signature appears below, has been authorized to sign all documents in connection with this Tender on behalf of (Name of Close Corporation)

.....

.....

SIGNED ON BEHALF OF CLOSE CORPORATION:

(PRINT NAME)

IN HIS/HER CAPACITY AS DATE:

SIGNATURE OF SIGNATORY:

WITNESSES: 1.

2.

E. CO-OPERATIVE

A certified copy of the Constitution of the co-operative must be included with the Tender, together with the resolution by its members authoring a member or other official of the co-operative to sign the Tender documents on their behalf.

By resolution of members at a meeting on 20.....

at

Mr/Ms, whose signature appears below, has been authorized to sign all documents in connection with this Tender on behalf of (Name of Co-Operative)

.....

SIGNATURE OF AUTHORIZED REPRESENTATIVE/SIGNATORY:

(PRINT NAME)

IN HIS/HER CAPACITY AS

DATE:

SIGNED ON BEHALF OF CO-OPERATIVE:

NAME IN BLOCK LETTERS:

WITNESSES: 1.

2.

F. JOINT VENTURES

If a tenderer is a joint venture, a certified copy of the resolution/agreement passed/reached signed by the duly authorised representatives of the enterprises, authorising the representatives who sign this tender to do so, as well as to sign any contract resulting from this tender and any other documents and correspondence in connection with the tender and/or contract on behalf of the joint venture must be submitted with this tender, before the closing time and date of the tender.

Authority to sign on behalf of the Joint Venture:

By resolution/agreement passed/reached by the joint venture partners on 20

Mr/Mrs, Mr/Mrs

Mr/Mrsand Mr/Mrs
(whose signatures appear below) have been duly authorised to sign all documents in connection with this tender on behalf of:

(Name of Joint Venture)

In his/her capacity as:

Signed on behalf of (COMPANY NAME):
(PRINT NAME)

Signature Date:

In his/her capacity as:

Signed on behalf of (COMPANY NAME):
(PRINT NAME)

Signature Date:

In his/her capacity as:

Signed on behalf of (COMPANY NAME):
(PRINT NAME)

Signature Date:

In his/her capacity as:

Signed on behalf of (COMPANY NAME):
(PRINT NAME)

Signature Date:

G. CONSORTIUM

If a tenderer is a consortium, a certified copy of the resolution/agreement passed/reached signed by the duly authorised representatives of the enterprises, authorising the representatives who sign this tender to do so, as well as to sign any contract resulting from this tender and any other documents and correspondence in connection with the tender and/or contract on behalf of the consortium must be submitted with this tender, before the closing time and date of the tender.

Authority to sign on behalf of the consortium:

By resolution/agreement passed/reached by the consortium partners on20

Mr/Mrs ,
(whose signature appear below) have been duly authorised to sign all documents in connection with this tender on behalf of:

(Name of Consortium)

In his/her capacity as:

Signature Date:

T2.2.2 BIDDER'S DISCLOSURE

1. PURPOSE OF THE FORM

Any person (natural or juristic) may make an offer or offers in terms of this invitation to bid. In line with the principles of transparency, accountability, impartiality, and ethics as enshrined in the Constitution of the Republic of South Africa and further expressed in various pieces of legislation, it is required for the bidder to make this declaration in respect of the details required hereunder.

Where a person/s are listed in the Register for Tender Defaulters and / or the List of Restricted Suppliers, that person will automatically be disqualified from the bid process.

2. BIDDER'S DECLARATION

- 2.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest¹ in the enterprise, employed by the state? **YES/NO**

- 2.1.1 If so, furnish particulars of the names, individual identity numbers, and, if applicable, state employee numbers of sole proprietor/ directors / trustees / shareholders / members/ partners or any person having a controlling interest in the enterprise, in table below.

Full Name	Identity Number	Name of State institution

- 2.2 Do you, or any person connected with the bidder, have a relationship with any person who is employed by the procuring institution? **YES/NO**

- 2.2.1 If so, furnish particulars:

.....
.....

- 2.3 Does the bidder or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise whether or not they are bidding for this contract? **YES/NO**

¹ the power, by one person or a group of persons holding the majority of the equity of an enterprise, alternatively, the person/s having the deciding vote or power to influence or to direct the course and decisions of the enterprise.

2.3.1 If so, furnish particulars:

.....
.....

3 DECLARATION

I, the undersigned, (name)..... in
submitting the accompanying bid, do hereby make the following statements that I certify to be
true and complete in every respect:

- 3.1 I have read and I understand the contents of this disclosure;
- 3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;
- 3.3 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 consortium² will not be construed as collusive bidding.
- 3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.
- 3.4 The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
- 3.5 There have been no consultations, communications, agreements or arrangements made by the bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the bidder was not involved in the drafting of the specifications or terms of reference for this bid.
- 3.6 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.

² 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.

I CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 1, 2 and 3 ABOVE IS CORRECT.

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 6 OF PFMA SCM INSTRUCTION 03 OF 2021/22 ON PREVENTING AND COMBATING ABUSE IN THE SUPPLY CHAIN MANAGEMENT SYSTEM SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
Signature

.....
Date

.....
Position

.....
Name of bidder

T2.2.4 TAX COMPLIANCE STATUS LETTER REQUIREMENTS

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

- Bidders must ensure compliance with their tax obligations.
- Bidders are required to submit their unique personal identification number (pin) issued by SARS to enable the organ of state to verify the taxpayer's profile and tax status.
- Application for Tax Compliance Status (TCS) pin may be made via e-filing through the SARS website www.sars.gov.za.
- Bidders may also submit a printed TCS certificate together with the bid.
- In bids where consortia / joint ventures / sub-contractors are involved, each party must submit a separate TCS certificate / pin / CSD number.
- Where no TCS is available but the bidder is registered on the Central Supplier Database (CSD), a CSD number must be provided.
- No bids will be considered from persons in the service of the state, companies with directors who are persons in the service of the state, or close corporations with members in the service of the state.

T2.2.4 TAX COMPLIANCE STATUS LETTER REQUIREMENTS (Continued.....)

[Tax Compliance Status (TCS) Letter *obtained from SARS to be inserted here*]

FOR INFORMATION PURPOSE ONLY

T2.2.5 PROOF OF ATTENDANCE AT THE COMPULSORY CLARIFICATION / SITE MEETING

CERTIFICATE OF ATTENDANCE

TENDER No. []

This is to certify that

(Tenderer)

of (address)

was represented by the person(s) named below at the compulsory meeting held for all Tenderers at

(location).....

..... on (date)

starting at (time)

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

Particulars of person(s) attending the meeting:

Name: Signature:

Capacity:

Name: Signature:

Capacity:

Attendance of the above person(s) at the meeting is confirmed by the Purchaser's representative, namely:

Name: Signature:

Capacity: Date and Time:

T2.2.7 CONTRACT PARTICIPATION GOALS

Objective

The objective of Umgeni Water's empowerment initiative is to bring about meaningful transformation in all procurement projects and in particular in the built environment / construction and consulting industry through achieving one or more of the following objectives:

- Meaningful Economic Participation;
- Local Economic Development;
- Transfer of Technical, Management and Entrepreneurial Skills; and
- Creation of sustainable Black Enterprises

Contract Participation Goals

Contract Participation Goal (CPG) – the **final** value of services paid to the CPG Partner/s based on the **final** contract value.

At the time of awarding the contract the 35% minimum CPG amount will be based on the contract award value exclusive of the following:

- VAT, CPA and Contingencies.

During contract implementation, adjustments relating to Provisional Sums and Contingencies linked to the CPG allocation will be agreed upon between the parties to the contract, as and when the need arises.

CPG Partner/s – Service provider/s selected from Umgeni Water's Supply Chain Management (SCM) Enterprise Development Database. However, should the database not contain suitable CPG Partner/s, the tenderer may propose suitable CPG Partner/s for Umgeni Water's consideration.

Tenderers (the main supplier irrespective of BBBEE classification) who are on Umgeni Water's SCM Enterprise Development Database are not exempt from this requirement and are still required to have a CPG Partner.

Tenderers are required to achieve at least 35% Contract Participation Goals (CPG) including a minimum 10% Black Women participation and another 10% for Local participation of the value of goods, services and Works paid to one or more enterprises (CPG Partner/s)

- 35% includes any special materials
- 35% excludes VAT, CPA and Contingencies.
- The tenderer will be required to achieve the actual Rand value committed for CPG, adjusted according to the following:
 - Variation Orders – Each VO will be evaluated by the Employer's Agent and the Project Manager to determine whether it should be counted, in its entirety or partially, as part of CPG or not.
 - Re-measurable Items (including CPA, and provisional sums) – Each re-measurable item change will be evaluated by the Employer's Agent and the Project Manager to determine whether it should be counted as part of CPG or not.

Within 2 weeks of the award of contract, the tenderer will be required to submit a cash flow projection for the main contractor and the CPG Partner/s

Applicability

The CPG target is applicable to all contracts to be adjudicated through the Umgeni Water procurement process and shall be achieved through the following mechanisms:-

- CPG Partner/s selection is concluded **after** adjudication of tenders and **before** contract award is made.
- The CPG Partner/s shall be selected according to the following criteria:

- CPG Partner/s are to be obtained from Umgeni Water's database of suppliers specifically earmarked for CPG purposes.
- In the event of services where Umgeni Water does not have an applicable service provider on its database, the tenderer may propose a suitable CPG Partner/s for consideration by Umgeni Water.
- Main service provider may propose a suitable CPG Partner/s, but Umgeni Water reserves the right to provide or arrange a CPG Partner/s to work with the successful company.
- Sub-contracting of the CPG Partner/s at the same rate / price that the tenderer would have offered to Umgeni Water whilst making profit margins consistent to the profit margins that the main supplier would have made under normal trading processes.
- Value of the work to be sub contracted shall be at least **35% (minimum of 10% shall be due to Black Women participation and another 10% for Local participation)** of the total contract value excluding VAT, CPA and Contingencies.
- CPA is payable to the CPG Partner/s as per the indices stipulated in the contract document.
- The work allocated to the CPG Partner shall be performed by the CPG Partner directly and may not be allocated or sub-contracted out to other contractors/consultants/service providers.
- The main supplier **shall not** substitute any CPG Partner/s without the written approval of Umgeni Water.
- The working capital arrangements between the main supplier and the CPG Partner/s must be agreed upon between the two parties prior to commencement of works to ensure that the CPG Partner does not have cash flow challenges during contract implementation.

Invoicing and Payment

The monthly measurement and payment will be according to the following guideline:

- Submission of payment certificate by the Supplier– by 25th of each month, or the nearest previous working day. The submission from the supplier shall include the signature of the CPG Partner indicating agreement with the measurements and rates applicable to the work undertaken by the CPG Partner.
- Payment to the Supplier – on the last day of the following month;
- The CPG Partner must be paid within reasonable time but no later than 3 working days after the Main Supplier has been paid by Umgeni Water; and
- The submission from the Supplier must include a schedule that clearly shows the following:
 - Total Contract Sum
 - Total amount payable to CPG Partner/s excluding current month
 - Amount payable to CPG Partner for current month
 - % split of Total amount payable to Main supplier and CPG Partner/s

Monitoring and Reporting on CPG

- Umgeni Water will monitor CPG implementation on site. This may include direct contact with CPG Partner/s on site for verification purposes.
- The CPG Partner shall be in agreement with the measurement and payment for work completed, for the purposes of submitting payment certificates, as determined by the supplier. Should disagreements arise, Umgeni Water reserves the right to intervene to resolve the disagreement.
- CPG Partner/s shall attend all contractual meetings relevant to their scope of work including contract award negotiations, monthly contract site meetings and technical meetings where applicable.

Eligibility Criteria

For tenders where the CPG target is applicable, those that do not offer a **minimum** CPG participation of **35%** (including minimum 10% Black Women participation and another 10% for Local participation) according to the requirements mentioned above, will be deemed **ineligible**.

DECLARATION REGARDING CONTRACT PARTICIPATION GOALS

I, the undersigned, in submitting the accompanying bid:

(Bid Number and Description)

in response to the invitation for the bid made by:

UMGENI WATER

do hereby make the following declaration and certify the statements contained herein 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 Declaration and the fully completed bid document accompanying this declaration;
2. I understand and declare that the accompanying bid will, and must, be disqualified if this Declaration is found not to be true and complete in every respect;
3. I understand and declare that in the event that this bid is successful, I will be required to, and shall, fully implement the commitments that are submitted with this bid, in particular regarding the Bidder's contract participation goals and commitments towards the allocation of certain portion of the contract to small and emerging entities. Failure to implement such commitments as outlined in the bid document (in particular, as detailed in the bill of quantities) and or failure to provide the relevant information within the prescribed period as determined in the Letter of Intention to Award the Bid, shall automatically disqualify this bid from further consideration and the Employer has the right to, and must, then award the bid to the next highest ranked bidder; and as a result I or the bidder or any of its directors shall have no recourse against Umgeni Water.
4. I am authorized by the bidder to sign this Declaration, and to submit the accompanying bid, on behalf of the bidder;
5. 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;
6. I am aware that, and do consent to, the disqualification of my or the bidder's future bids with Umgeni Water in the event that the commitments made herein are not fulfilled and that such non-fulfillment amounts to abuse of Umgeni Water's supply chain policies and procedures and/or empowerment objectives which must be penalized, over and above the contractual sanctions as agreed to in line with the contract signed with Umgeni Water, with a sanction of restricting me and or my company (the bidder) and or any of its directors from conducting business with Umgeni Water for a period not exceeding ten (10) years.
7. I consent that should my company (the Bidder) deviate from the commitments and the spirit of the CPG objectives as agreed to, shall amount to a repudiation of the contractual arrangement between the two parties (Umgeni Water and the Bidder); and Umgeni Water shall have the right to terminate the contract with immediate effect and without giving my company (the Bidder) prior notice to remedy the breach.

Full Names & Surname
(Duly authorized)

Signature

Date

Position

Name of Bidder

T2.2.8 DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS

This Standard Bidding Document (SBD) must form part of all bids invited. It contains general information and serves as a declaration form for local content (local production and local content are used interchangeably).

Before completing this declaration, bidders must study the General Conditions, Definitions, Directives applicable in respect of Local Content as prescribed in the Preferential Procurement Regulations, 2017, the South African Bureau of Standards (SABS) approved technical specification number SATS 1286:2011 (Edition 1) and the Guidance on the Calculation of Local Content together with the Local Content Declaration Templates [Annex C (Local Content Declaration: Summary Schedule), D (Imported Content Declaration: Supporting Schedule to Annex C) and E (Local Content Declaration: Supporting Schedule to Annex C)].

1. General Conditions

- 1.1. Preferential Procurement Regulations, 2017 (Regulation 8) makes provision for the promotion of local production and content.
- 1.2. Regulation 8(2) prescribes that in the case of designated sectors, where in the award of bids local production and content is of critical importance, such bids must be advertised with the specific bidding condition that only locally produced goods, services or works or locally manufactured goods, with a stipulated minimum threshold for local production and content will be considered.
- 1.3. Where necessary, for bids referred to in paragraph 1.2 above, a two stage bidding process may be followed, where the first stage involves a minimum threshold for local production and content and the second stage price and B-BBEE.
- 1.4. A person awarded a contract in relation to a designated sector, may not sub-contract in such a manner that the local production and content of the overall value of the contract is reduced to below the stipulated minimum threshold.
- 1.5. The local content (LC) expressed as a percentage of the bid price must be calculated in accordance with the SABS approved technical specification number SATS 1286: 2011 as follows:

$$LC = [1 - x / y] * 100$$

Where

x is the imported content in Rand

y is the bid price in Rand excluding value added tax (VAT)

Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by South African Reserve Bank (SARB) at 12:00 on the date of advertisement of the bid as indicated in paragraph 4.1 below.

The SABS approved technical specification number SATS 1286:2011 is accessible on [http://www.thedti.gov.za/industrial development/ip.jsp](http://www.thedti.gov.za/industrial%20development/ip.jsp) at no cost.

- 1.6 A bid may be disqualified if –

- (a) this Declaration Certificate and the Annex C (Local Content Declaration: Summary Schedule) are not submitted as part of the bid documentation; and
- (b) the bidder fails to declare that the Local Content Declaration Templates (Annex C, D and E) have been audited and certified as correct.

2. Definitions

- 2.1. **“bid”** includes written price quotations, advertised competitive bids or proposals;
- 2.2. **“bid price”** price offered by the bidder, excluding value added tax (VAT);
- 2.3. **“contract”** means the agreement that results from the acceptance of a bid by an organ of state;
- 2.4. **“designated sector”** means a sector, sub-sector or industry that has been designated by the Department of Trade and Industry in line with national development and industrial policies for local production, where only locally produced services, works or goods or locally manufactured goods meet the stipulated minimum threshold for local production and content;
- 2.5. **“duly sign”** means a Declaration Certificate for Local Content that has been signed by the Chief Financial Officer or other legally responsible person nominated in writing by the Chief Executive, or senior member / person with management responsibility (close corporation, partnership or individual).
- 2.6. **“imported content”** means that portion of the bid price represented by the cost of components, parts or materials which have been or are still to be imported (whether by the supplier or its subcontractors) and which costs are inclusive of the costs abroad (this includes labour or intellectual property costs), plus freight and other direct importation costs, such as landing costs, dock duties, import duty, sales duty or other similar tax or duty at the South African port of entry;
- 2.7. **“local content”** means that portion of the bid price which is not included in the imported content, provided that local manufacture does take place;
- 2.8. **“stipulated minimum threshold”** means that portion of local production and content as determined by the Department of Trade and Industry; and
- 2.9. **“sub-contract”** means the primary contractor’s assigning, leasing, making out work to, or employing another person to support such primary contractor in the execution of part of a project in terms of the contract.

3. The stipulated minimum threshold(s) for local production and content (refer to Annex A of SATS 1286:2011) for this bid is/are as follows:

<u>Description of services, works or goods</u>	<u>Stipulated minimum threshold</u>
_____	_____ %
_____	_____ %
_____	_____ %

4. Does any portion of the services, works or goods offered have any imported content?

(Tick applicable box)

YES		NO	
-----	--	----	--

- 4.1 If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 1.5 of the general conditions must be the rate(s) published by SARB for the specific currency at 12:00 on the date of advertisement of the bid.

The relevant rates of exchange information is accessible on www.reservebank.co.za.

Indicate the rate(s) of exchange against the appropriate currency in the table below (refer to Annex A of SATS 1286:2011):

Currency	Rates of exchange
US Dollar	
Pound Sterling	
Euro	
Yen	
Other	

NB: Bidders must submit proof of the SARB rate (s) of exchange used.

5. Were the Local Content Declaration Templates (Annex C, D and E) audited and certified as correct?

(Tick applicable box)

YES		NO	
-----	--	----	--

- 5.1. If yes, provide the following particulars:

- (a) Full name of auditor:
- (b) Practice number:
- (c) Telephone and cell number:
- (d) Email address:

(Documentary proof regarding the declaration will, when required, be submitted to the satisfaction of the Accounting Officer / Accounting Authority)

6. Where, after the award of a bid, challenges are experienced in meeting the stipulated minimum threshold for local content the dti must be informed accordingly in order for the dti to verify and in consultation with the AO/AA provide directives in this regard.

LOCAL CONTENT DECLARATION
(REFER TO ANNEX B OF SATS 1286:2011)

LOCAL CONTENT DECLARATION BY CHIEF FINANCIAL OFFICER OR OTHER LEGALLY RESPONSIBLE PERSON NOMINATED IN WRITING BY THE CHIEF EXECUTIVE OR SENIOR MEMBER/PERSON WITH MANAGEMENT RESPONSIBILITY (CLOSE CORPORATION, PARTNERSHIP OR INDIVIDUAL)

IN RESPECT OF BID NO.

ISSUED BY: (Procurement Authority / Name of Institution):
.....

NB

1 The obligation to complete, duly sign and submit this declaration cannot be transferred to an external authorized representative, auditor or any other third party acting on behalf of the bidder.

2 Guidance on the Calculation of Local Content together with Local Content Declaration Templates (Annex C, D and E) is accessible on <http://www.thedti.gov.za/industrialdevelopment/ip.jsp>. Bidders should first complete Declaration D. After completing Declaration D, bidders should complete Declaration E and then consolidate the information on Declaration C. **Declaration C should be submitted with the bid documentation at the closing date and time of the bid in order to substantiate the declaration made in paragraph (c) below.** Declarations D and E should be kept by the bidders for verification purposes for a period of at least 5 years. The successful bidder is required to continuously update Declarations C, D and E with the actual values for the duration of the contract.

I, the undersigned, (full names),
do hereby declare, in my capacity as
of(name of bidder
entity), the following:

(a) The facts contained herein are within my own personal knowledge.

(b) I have satisfied myself that:

- (i) the goods/services/works to be delivered in terms of the above-specified bid comply with the minimum local content requirements as specified in the bid, and as measured in terms of SATS 1286:2011; and
- (ii) the declaration templates have been audited and certified to be correct.

(c) The local content percentage (%) indicated below has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E which has been consolidated in Declaration C:

Bid price, excluding VAT (y)	R
Imported content (x), as calculated in terms of SATS 1286:2011	R
Stipulated minimum threshold for local content (paragraph 3 above)	
Local content %, as calculated in terms of SATS 1286:2011	

If the bid is for more than one product, the local content percentages for each product contained in Declaration C shall be used instead of the table above.

The local content percentages for each product has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E.

(d) I accept that the Procurement Authority / Institution has the right to request that the local content be verified in terms of the requirements of SATS 1286:2011.

(e) I understand that the awarding of the bid is dependent on the accuracy of the information furnished in this application. I also understand that the submission of incorrect data, or data that are not verifiable as described in SATS 1286:2011, may result in the Procurement Authority / Institution imposing any or all of the remedies as provided for in Regulation 13 of the Preferential Procurement Regulations, 2017 promulgated under the Preferential Policy Framework Act (PPPFA), 2000 (Act No. 5 of 2000).

SIGNATURE: _____

DATE: _____

WITNESS No. 1 _____

DATE: _____

WITNESS No. 2 _____

DATE: _____

In terms of the guideline document for calculating local content, Annexure C (attached) must be submitted with the tender. Please add it here.

Annex C											
Local Content Declaration - Summary Schedule											
(C1)	Tender No.	<div> <div>Note: VAT to be excluded from all calculations</div> </div>									
(C2)	Tender description:										
(C3)	Designated product(s)										
(C4)	Tender Authority:										
(C5)	Tendering Entity name:										
(C6)	Tender Exchange Rate:	Pula	EU	GBP							
(C7)	Specified local content %										
Calculation of local content					Tender summary						
Tender item no's	List of items	Tender price - each (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)	Tender Qty	Total tender value	Total exempted imported content	Total Imported content
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)	(C16)	(C17)	(C18)	(C19)
Signature of tenderer from Annex B				(C20) Total tender value		R 0					
				(C21) Total Exempt imported content		R 0					
				(C22) Total Tender value net of exempt imported content		R 0					
				(C23) Total Imported content		R 0					
				(C24) Total local content		R 0					
Date:				(C25) Average local content % of tender							

T2.2.9 TENDERER'S EXPERIENCE

The experience of the Tenderer or joint venture partners in the case of an unincorporated joint venture or consortium will be evaluated on the basis of experience in similar projects or similar areas and conditions in relation to the scope of work.

The evaluation will consider experience in relation to the management of programmes and projects and the provision of cost consulting services in relation to programmes of work as opposed to projects where bills of quantities have been used.

Tenderers should very briefly describe his or her experience in this regard relevant to the scope of work and attach this to this schedule.

The description should be put in tabular form with the following headings:

[illegible]

T2.26.

Scoring of the Tenderer's experience will be as follows: [50]

DESCRIPTION	MAX POSSIBLE SCORE
<p>Company experience in projects comprising the implementation of Access Control Projects ≥R5m.</p> <ul style="list-style-type: none"> • <2 projects – 0 points • 2 projects – 25 points • 3 projects – 35 points, • 5 additional points for every project more than 3 projects to a maximum of 50 points <p>Company experience in projects comprising the implementation of CCTV Projects ≥R5m.</p> <ul style="list-style-type: none"> • <2 projects – 0 points • 2 projects – 25 points • 3 projects – 35points, • 5 additional points for every project more than 3 projects to a maximum of 50 points <p>N.B No proof of previous experience with award letter or Purchase Order and Completion Certificate no points</p>	<p>100</p>

T2.2.9 TENDERER'S EXPERIENCE (Continued)

INSERT HERE

FOR INFORMATION PURPOSE ONLY

T2.2.10 KEY PERSONNEL ASSIGNED TO THE WORK

Insert in the table below the key personnel and their proposed function

KEY PERSONNEL SCHEDULE

No.	Proposed Function	Key Person Name
1.	Project Manager: South African Nationality	
2.	Product Specialist Access Control: South African Nationality	
3.	Product Specialist CCTV: South African Nationality	

T2.2.11 EXPERIENCE OF KEY PERSONNEL

Provide relevant information as prescribed below for the following Key Persons proposed in the tender to fulfil the following positions:

Key Person Positions

- A. Project Manager
- B. Product Specialist Access Control
- C. Product Specialist CCTV

The experience of each key person, relevant to the scope of work, will be evaluated from the following:

- 1) General experience (total duration of activity), level of education and training and positions held by the key person.
- 2) The education, training and experience of the person, in the specific sector, field, subject, etc which is directly linked to the scope of work.

A CV of each key person of not more than 3 pages should be attached to this schedule.

Each CV should be structured under the following headings:

1. Personal particulars
 - name
 - date and place of birth
 - place (s) of tertiary education and dates associated therewith
2. Qualifications
3. Name of current employer and position in enterprise
4. Overview last 10 years of experience (year, organization, position and projects)
5. Outline of recent assignments / experience that has a bearing on the scope of work

The scoring of the experience of key staff will be as follows: | 30 |

<p>Experience of Project Manager in the installation of Access Control and CCTV projects:</p> <ul style="list-style-type: none"> • 1 project – 10 points • 2 projects – 15 points • 3 projects – 20 points <p>5 additional points for every project more than 3 projects to a maximum of 30 points</p> <p>Experience of Product Specialist in the Installation of Access Control projects</p> <ul style="list-style-type: none"> • 1 project – 5 points • 2 projects – 15 points • 3 projects – 25 points <p>5 additional points for every project more than 3 projects to a maximum of 35 points</p> <p>Experience of Product Specialist in the Installation of CCTV projects</p> <ul style="list-style-type: none"> • 1 project – 5 points • 2 projects – 15 points • 3 projects – 25 points <p>5 additional points for every project more than 3 projects to a maximum of 35 points</p>	<p>100</p>
--	-------------------

T2.2.11 EXPERIENCE OF KEY PERSONNEL (Continued)

INSERT KEY PERSONNEL CVs HERE

FOR INFORMATION PURPOSE ONLY

T2.2.12 PROPOSED ORGANIZATION AND STAFFING

The Tenderer should propose the structure and composition of their team i.e. the main disciplines involved, the key staff member / expert responsible for each discipline, and the proposed technical and support staff and site staff. The roles and responsibilities of each key staff member / expert should be set out as job descriptions. In the case of an association / joint venture / consortium, it should, indicate how the duties and responsibilities are to be shared.

The Tenderer must attach his / her organization and staffing proposals to this page.

FOR INFORMATION PURPOSE ONLY

T2.2.12 PROPOSED ORGANIZATION AND STAFFING (Continued)

INSERT HERE

FOR INFORMATION PURPOSE ONLY

T2.2.13 TENDERER'S SCHEDULE OF PLANT AND EQUIPMENT

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

- (a) **Details of major equipment that is owned by me / us and immediately available for this contract.**

DESCRIPTION (type, size, capacity etc)	QUANTITY	YEAR OF MANUFACTURE

Attach additional pages if more space is required

- (b) **Details of major equipment that will be hired, or acquired for this contract if my / our Tender is accepted**

DESCRIPTION (type, size, capacity etc)	QUANTITY	HOW ACQUIRED	
		HIRE/ BUY	SOURCE

Attach additional pages if more space is required

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

Failure to complete this form properly and correctly, will lead to the conclusion that the Tenderer does not have the necessary plant and equipment resources at its disposal, which will prejudice its Tender.

SIGNATURE: DATE:
(of person authorized to sign on behalf of the Tenderer)

T2.2.13 TENDERER'S SCHEDULE OF PLANT AND EQUIPMENT (Continued)

The scoring of the scheduled plant and equipment will be as follows: []

FOR INFORMATION PURPOSE ONLY

T2.2.14 QUALITY ASSURANCE AND ENVIRONMENTAL MANAGEMENT

1. Does the Tenderer have a quality management system which is certified in terms of ISO 9001: 2015

YES	NO
-----	----

2. If "yes", Tenderer to supply brief summary of structure of system:
.....
.....
.....
.....
.....
.....
.....

3. If "no", does the Tenderer intend to apply for certification?

YES	NO
Date	

By when?

OR

4. If "no", does the Tenderer have its own system?

YES	NO
-----	----

5. If "yes", please supply details of the system

.....

.....

.....

.....

.....

6. Does the Tenderer have an environmental management system which is certified in terms of ISO 14001

YES	NO
-----	----

7. If "yes", Tenderer to supply brief summary of structure of system:
.....
.....
.....
.....
.....
.....

8. If "no", does the Tenderer intend to apply for certification?

YES	NO
Date	

T2.36.

By when?

OR

9. If “no”, does the Tenderer have its own system?.....

YES	NO
-----	----

10. If “yes”, please supply details of the system

.....

.....

.....

.....

If the Tenderer does not intend to apply for certification it shall submit details of the quality / environmental management system presently in place.

[The Tenderer shall insert here a copy of the company’s quality assurance plan, control procedures and the relevant documentation supporting its commitment to environmental management. In the event of these documents being too extensive to be included in the procurement document, an abbreviated version of the master document will be included, referring to the master document.]

T2.2.15 METHOD STATEMENT

The method statement must respond to the Scope of Work and outline the proposed approach / methodology. The method statement should articulate what value the Tenderer will add by in achieving the stated objectives for the project.

The Tenderer must as such explain his / her understanding of the objectives of the assignment and the Purchaser's stated and implied requirements, highlight the issues of importance, and explain the technical approach they would adopt to address them. The approach paper should explain the methodologies which are to be adopted, demonstrate the compatibility of those methodologies with the proposed approach. The approach should also include a quality plan which outlines processes, procedures and associated resources, applied by whom and when, to meet the requirements and indicate how risks will be managed and what contribution can be made regarding value management.

- *The above statement implores that the Bidders are required to provide the implementation plan, with duties assigned to the project team members that will undertake the implementation of the project. The implementation plan should outline how to mitigate the risks that might arise from employees e.g. strikes and the mitigations thereof.*

The Tenderer must attach his / her approach paper to this page. The approach paper should not be longer than 8 pages.

The scoring of the approach paper will be as follows: | 10 |

Technical approach and methodology	
No submission (score 0)	No Method Statement submitted
Poor (score 40)	The technical approach and / or methodology is poor / is unlikely to satisfy project objectives or requirements. The Tenderer has misunderstood certain aspects of the scope of work and does not deal with the critical aspects of the project.
Satisfactory (score 70)	The approach is tailored to address the project objectives and methodology. The quality plan and management of risk in the project plan is generic.
Good (score 90)	The approach is specifically tailored to address the specific project objectives and methodology and is sufficiently flexible to accommodate changes that may occur during execution. The quality plan and approach to managing risk is specifically tailored to the critical characteristics of the project.
Very good (score 100)	Besides meeting the "good" rating, the important issues are approached in an innovative and efficient way, indicating that the Tenderer has outstanding knowledge of state-of-the- art approaches. The approach paper details ways to improve the project outcomes and the quality of the outputs.

T2.2.15 METHOD STATEMENT (Continued)

INSERT HERE

FOR INFORMATION PURPOSE ONLY

T2.2.16 PRELIMINARY PROGRAMME

The Tenderer shall detail below or attach a preliminary programme reflecting the proposed sequence and tempo of execution of the main work components. The programme shall be in accordance with the information supplied in the Contract, requirements of the Project Specifications and with all other aspects of his Tender.

- *The Bidders will be required to provide a detailed execution plan with estimated mile stones from the inception period until to hand over to the client (Umgeni Water)*

The contract should note that the contract is required to be completed, commissioned and handed over to the Purchaser by the date specified in the contract data.

PROGRAMME													
Component / sub component	WEEKS / MONTHS												

Note: The programme must be based on the completion time as specified in the Contract Data. No other completion time that may be indicated on this programme will be regarded as an alternative offer, unless it is listed in supported by a detailed statement to that effect, all as specified in the Tender Data.

Scoring of the preliminary programme will be as follows: | 10 |

	Suitability of programme
No submission (score 0)	No preliminary programme submitted
Poor (score 40)	Programme is inadequate and/or considered unrealistic and does not achieve required completion date
Satisfactory (score 70)	Programme is considered realistic and adequately shows the main components and compliance with completion date
Good (score 90)	Programme is considered realistic and includes the main components and subcomponents and compliance with completion date
Very good (score 100)	Programme is considered realistic and includes the main components and subcomponents and linkages and compliance with completion date

T2.2.16 PRELIMINARY PROGRAMME (Continued)

INSERT HERE

Insert additional schedules here if applicable and update Part C table with the additional appropriate schedules within Part C. Delete this note.

.

FOR INFORMATION PURPOSE ONLY

T.2.2.17 REGISTRATION CERTIFICATE / AGREEMENT / ID DOCUMENT

Important note to Tenderer: The relevant supporting documents to the organization tendering i.e. Registration Certificates for Companies, Close Corporations and Partnerships, or Agreements and Powers of Attorney for Joint Ventures and Consortiums, or ID documents for Sole Proprietors, all as referred to in the foregoing forms and in T2.1, must be inserted here

INSERT HERE

FOR INFORMATION PURPOSE ONLY

T2.2.18 AMENDMENTS, QUALIFICATIONS AND ALTERNATIVES

(This is not an invitation for amendments, deviations or alternatives but should the Tenderer desire to make any departures from the provisions of this contract he shall set out his proposals clearly hereunder. Umgeni Water will not consider any amendment, alternative offers or discounts unless forms (a), (b) and (c) have been completed to the satisfaction of the Purchaser).

I / We herewith propose the amendments, alternatives and discounts as set out in the tables below:

(a) AMENDMENTS - NOT APPLICABLE

PAGE, CLAUSE OR ITEM NO.	PROPOSED AMENDMENT

- [Notes: (1) Proposals for amendments to the General and Special Conditions of Contract are not acceptable, and will be ignored;
(2) The Tenderer must give full details of all the financial implications of the amendments and qualifications in a covering letter attached to his Tender.

(b) ALTERNATIVES - NOT APPLICABLE

PROPOSED ALTERNATIVE	DESCRIPTION OF ALTERNATIVE

- [Notes: (1) Individual alternative items that do not justify an alternative Tender, and an alternative offer for time for completion should be listed here.
(2) In the case of a major alternative to any part of the work, a separate Bill of Quantities, programme, etc, and a detailed statement setting out the salient features of the proposed alternatives must accompany the Tender.
(3) Alternative Tenders involving technical modifications to the design of the works and methods of construction shall be treated separately from the main Tender offer.]

(c) UNCONDITIONAL DISCOUNTS

ITEM ON WHICH DISCOUNT IS OFFERED	DESCRIPTION OF DISCOUNT OFFERED

[Note: The Tenderer must give full details of the discounts offered in a covering letter attached to his Tender, failing which, the offer for a discount may have to be disregarded.]

Signature Date.....

T2.2.19 RECORD OF ADDENDA TO TENDER DOCUMENTS

I / We confirm that the following communications amending the Tender documents that I / we received from Umgeni Water or his representative before the closing date for submission of Tenders have been taken into account in this Tender.

A signed copy of each addendum shall be inserted after this page.

ADDENDUM No	DATE	TITLE OR DETAILS

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

.....
Date

T2.2.20 VAT REGISTRATION CERTIFICATE

[VAT Registration Certificate obtained from SARS to be inserted here]

FOR INFORMATION PURPOSE ONLY

T2.2.21 SCHEDULE OF PROPOSED SUB-SUPPLIERS

Important note to Tenderer: The relevant supporting documents to the organization tendering i.e. Registration Certificates for Companies, Close Corporations and Partnerships, or Agreements and Powers of Attorney for Joint Ventures and Consortiums, or ID documents for Sole Proprietors, all as referred to in the foregoing forms and in T2.1, must be inserted here

We notify you that it is our intention to employ the following Sub-Suppliers for work in this contract. If we are awarded a contract we agree that this notification does not change the requirement for us to submit the names of proposed Sub-Suppliers in accordance with requirements in the contract for such appointments. If there are no such requirements in the contract, then your written acceptance of this list shall be binding between us.

	Name and address of proposed Sub-Supplier	Nature and extent of work	Previous experience with Sub-Supplier.
1.			
2.			
3.			
4.			
5.			

Signature Date

Name Position

Tenderer

T2.2.22 PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2017

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

NB: BEFORE COMPLETING THIS FORM, TENDERERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF B-BBEE, AS PRESCRIBED IN THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017.

1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to all tenders:

- 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 tender is estimated to exceed/not to exceed R50 000 000 (all applicable taxes included) and therefore the 80/20 90/10 system shall be applicable.

1.3 Preference points for this tender shall be awarded for:

- (a) Price; and
- (b) B-BBEE Status Level of Contribution.
(Refer Clause 5.7)

1.3.1 The maximum points for this tender are allocated as follows:

	POINTS
1.3.1.1 PRICE	90
1.3.1.2 B-BBEE STATUS LEVEL OF CONTRIBUTION	10
Total points for Price and B-BBEE must not exceed	100

1.4 Failure on the part of a tenderer to fill in and/or to sign this form and submit a B-BBEE Affidavit, Verification Certificate from a B-BBEE Verification Agency accredited by the South African National Accreditation System (SANAS) or a Registered Auditor approved by the Independent Regulatory Board of Auditors (IRBA), issued prior to 01 January 2017 together with the tender, will be interpreted to mean that preference points for B-BBEE status level of contribution are not claimed.

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

2. DEFINITIONS

2.1 "all applicable taxes" includes value-added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies;

2.2 "B-BBEE" means broad-based black economic empowerment as defined in section 1 of the Broad -Based Black Economic Empowerment Act;

- 2.3 “B-BBEE status level of contributor” means the B-BBEE status received by a measured entity based on its overall performance using the relevant scorecard contained in the Codes of Good Practice, or Sector Code on Black Economic Empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;
- 2.4 “tender” means a written offer in a prescribed or stipulated form in response to an invitation by an organ of state for the provision of services, works or goods, through price quotations, advertised competitive tendering processes or proposals;
- 2.5 “Broad-Based Black Economic Empowerment Act” means the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- 2.6 “comparative price” means the price after the factors of a non-firm price and all unconditional discounts that can be utilized have been taken into consideration;
- 2.7 “consortium or joint venture” 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;
- 2.8 “contract” means the agreement that results from the acceptance of a tender by an organ of state;
- 2.9 “EME” – (Exempted Micro Enterprise) means an Entity with annual turnover of R10 million or less
- 2.10 “Firm price” means the price that is only subject to adjustments in accordance with the actual increase or decrease resulting from the change, imposition, or abolition of customs or excise duty and any other duty, levy, or tax, which, in terms of the law or regulation, is binding on the Supplier and demonstrably has an influence on the price of any supplies, or the rendering costs of any service, for the execution of the contract;
- 2.11 “functionality” means the measurement according to predetermined norms, as set out in the tender documents, of a service or commodity that is designed to be practical and useful, working or operating, taking into account, among other factors, the quality, reliability, viability and durability of a service and the technical capacity and ability of a tenderer;
- 2.12 “non-firm prices” means all prices other than “firm” prices;
- 2.13 “person” includes a juristic person;
- 2.14 “QSE” – (Qualifying Small Enterprise) means an Entity that qualifies for measurement under the QSE scorecard with turnover of R10 million or more but less than R50 million.
- 2.15 “rand value” means the total estimated value of a contract in South African currency, calculated at the time of tender invitations, and includes all applicable taxes and excise duties;
- 2.16 “sub-contract” means the primary Supplier’s assigning, leasing, making out work to, or employing, another person to support such primary Supplier in the execution of part of a project in terms of the contract;
- 2.17 “total revenue” – means the total income of an entity from its operations as determined under South African Generally Accepted Accounting Practice, as per Codes of Good Practice on Black Economic Empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act and promulgated in the Government Gazette on 9 February 2007;
- 2.18 “trust” means the arrangement through which the property of one person is made over or bequeathed to a trustee to administer such property for the benefit of another person; and

- 2.19 “trustee” means any person, including the founder of a trust, to whom property is bequeathed in order for such property to be administered for the benefit of another person.

3. ADJUDICATION USING A POINT SYSTEM

- 3.1 The tenderer obtaining the highest number of total points will be awarded the contract.
- 3.2 Preference points shall be calculated after prices have been brought to a comparative basis taking into account all factors of non-firm prices and all unconditional discounts;.
- 3.3 Points scored must be rounded off to the nearest 2 decimal places.
- 3.4 In the event that two or more tenders have scored equal total points, the successful tender must be the one scoring the highest number of preference points for B-BBEE.
- 3.5 However, when functionality is part of the evaluation process and two or more tenders have scored equal points including equal preference points for B-BBEE, the successful tender must be the one scoring the highest score for functionality.
- 3.6 Should two or more tenders be equal in all respects, the award shall be decided by the drawing of lots.

4. POINTS AWARDED FOR PRICE

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

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

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

Where:

P_s = Points scored for comparative price of tender under consideration
 P_t = Comparative price of tender under consideration
 P_{\min} = Comparative price of lowest acceptable tender

5. Points awarded for B-BBEE Status Level of Contribution

- 5.1 In terms of Regulation 6 (2) and 7 (2) of the Preferential Procurement Regulations 2017, preference points must be awarded to a tenderer for attaining the B-BBEE status level of contribution in accordance with the table below:

B-BBEE Status Level of Contributor	Number of points (90/10 system)
1	10
2	9
3	6
4	5
5	4
6	3
7	2
8	1
Non-compliant contributor	0

- 5.2 Tenderers who qualify as EMEs in terms of the B-BBEE Act must submit a certificate issued by an Accounting Officer as contemplated in the CCA, prior to 01 May 2015 or a B-BBEE Affidavit with B-BBEE Status Level Certificates.
- 5.3 Tenderers other than EMEs must submit their original and valid B-BBEE status level Affidavit QSE (For entities whose turnover is between R10 Million and R50 Million, with 51% to 100% Black Ownership) verification certificate or a certified copy thereof, substantiating their B-BBEE rating issued by a Registered Auditor approved by IRBA (prior to 1 January 2017) or a Verification Agency accredited by SANAS.
- 5.4 A trust, consortium or joint venture, will qualify for points for their B-BBEE status level as a legal entity, provided that the entity submits their B-BBEE status level certificate for consortiums or joint ventures and affidavit for trusts.
- 5.5 A trust, consortium or joint venture will qualify for points for their B-BBEE status level as an unincorporated entity, provided that the entity submits their consolidated B-BBEE scorecard as if they were a group structure and that such a consolidated B-BBEE scorecard is prepared for every separate tender.
- 5.6 Tertiary institutions and public entities will be required to submit their B-BBEE status level certificates in terms of the specialised scorecard contained in the Amended B-BBEE Codes of Good Practice, Gazette No. 38766.
- 5.7 A person will not be awarded points for B-BBEE status level if it is indicated in the tender documents that such a tenderer intends sub-contracting more than 25% of the value of the contract to any other enterprise that does not qualify for at least the points that such a tenderer qualifies for, unless the intended sub-Supplier is an EME that has the capability and ability to execute the sub-contract.
- 5.8 A person awarded a contract may not sub-contract more than 25% of the value of the contract to any other enterprise that does not have an equal or higher B-BBEE status level than the person concerned, unless the contract is sub-contracted to an EME that has the capability and ability to execute the sub-contract.

6. TENDER DECLARATION

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

7. B-BBEE STATUS LEVEL OF CONTRIBUTION CLAIMED IN TERMS OF PARAGRAPHS 1.3.1.2 AND 5.1

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

(Points claimed in respect of paragraph 7.1 must be in accordance with the table reflected in paragraph 5.1 and must be substantiated by means of a B-BBEE certificate issued by a Verification Agency accredited by SANAS or a Registered Auditor approved by IRBA (prior to 01 January 2017) or an Accounting Officer as contemplated in the CCA).

8. SUB-CONTRACTING

- 8.1 Will any portion of the contract be sub-contracted? **YES / NO** (delete which is not applicable)

- 8.1.1 If yes, indicate:

- i. what percentage of the contract will be subcontracted? %
- ii. the name of the sub-Supplier?
- iii. the B-BBEE status level of the sub-Supplier?
- iv. whether the sub-Supplier is an EME? YES / NO (delete which is not applicable)

9. DECLARATION WITH REGARD TO COMPANY/FIRM

- 9.1 Name of organization:

- 9.2 VAT registration number:

- 9.3 Company Registration number:

- 9.4 TYPE OF COMPANY/ FIRM

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

[TICK APPLICABLE BOX]

- 9.5 DESCRIBE PRINCIPAL BUSINESS ACTIVITIES

.....

.....

.....

.....

- 9.6 COMPANY CLASSIFICATION

- ☐ Manufacturer
- ☐ Supplier
- ☐ Professional supplier
- ☐ Other suppliers, e.g. transporter, etc.

[TICK APPLICABLE BOX]

- 9.7 Total number of years the company/firm has been in business?.....

- 9.8 I/we, the undersigned, who is / are duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the B-BBE status level of contribution indicated in paragraph 7 of the foregoing certificate, qualifies the company/ firm for the preference(s) shown and I / we acknowledge that:
- (i) The information furnished is true and correct
 - (ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form
 - (iii) In the event of a contract being awarded as a result of points claimed as shown in paragraph 7, the Supplier may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct;
 - (iv) If the B-BBEE status level of contribution has been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the purchaser may, in addition to any other remedy it may have –
 - (a) disqualify the person from the tendering process;
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
 - (d) restrict the tenderer or Supplier, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, 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

.....
SIGNATURE(S) OF TENDERER(S):

DATE:.....

ADDRESS:.....

.....

.....

WITNESSES:

1.

2.

T2.2.22 .../continued B-BBEE STATUS LEVEL VERIFICATION CERTIFICATES

Tenderers not submitting a **valid original or a certified copy** B-BBEE Status Level Verification Certificate or are non-compliant contributors to B-BBEE do not qualify for preference points for B-BBEE but will not be disqualified from the tendering process.

T2.2.23 PROOF OF PURCHASE OF TENDER DOCUMENT

INSERT HERE

FOR INFORMATION PURPOSE ONLY

T2.2.24 GOODS AND SERVICES SOURCED INTERNATIONALLY

[Note only insert if applicable if not then omit. Delete this note]

INTRODUCTION

The National Industrial Participation (NIP) Programme, which is applicable to all government procurement contracts that have an imported content, became effective on the 1 September 1996. The NIP policy and guidelines were fully endorsed by Cabinet on 30 April 1997. In terms of the Cabinet decision, all state and State Owned Entities purchases / lease contracts (for goods, works and services) entered into after this date, are subject to the NIP requirements. NIP is obligatory and therefore must be complied with. The Industrial Participation Secretariat (IPS) of the Department of Trade and Industry (DTI) is charged with the responsibility of administering the programme.

1. PILLARS OF THE PROGRAMME

- 1.1 The NIP obligation is benchmarked on the imported content of the contract. Any contract having an imported content equal to or exceeding US\$ 10 million or other currency equivalent to US\$ 10 million will have a NIP obligation. This threshold of US\$ 10 million can be reached as follows:
 - (a) Any single contract with imported content exceeding US\$10 million.
or
 - (b) Multiple contracts for the same goods, works or services each with imported content exceeding US\$3 million awarded to one seller over a 2 year period which in total exceeds US\$10 million.
or
 - (c) A contract with a renewable option clause, where should the option be exercised the total value of the imported content will exceed US\$10 million.
or
 - (d) Multiple suppliers of the same goods, works or services under the same contract, where the value of the imported content of each allocation is equal to or exceeds US\$ 3 million worth of goods, works or services to the same government institution, which in total over a two (2) year period exceeds US\$10 million.
- 1.2 The NIP obligation applicable to suppliers in respect of sub-paragraphs 1.1 (a) to 1.1 (c) above will amount to 30 % of the imported content whilst suppliers in respect of paragraph 1.1 (d) shall incur 30% of the total NIP obligation on a pro-rata basis.
- 1.3 To satisfy the NIP obligation, the DTI would negotiate and conclude agreements such as investments, joint ventures, sub-contracting, licensee production, export promotion, sourcing arrangements and research and development (R&D) with partners or suppliers.
- 1.4 A period of seven years has been identified as the time frame within which to discharge the obligation.

2. REQUIREMENTS OF THE DEPARTMENT OF TRADE AND INDUSTRY

- 2.1 In order to ensure effective implementation of the programme, successful tenderers (Suppliers) are required to, immediately after the award of a contract that is in excess of R10 million (ten million Rands), submit details of such a contract to the DTI for reporting purposes.
- 2.2 The purpose for reporting details of contracts in excess of the amount of R10 million (ten million Rands) is to cater for multiple contracts for the same goods, works or services; renewable contracts and multiple suppliers for the same goods, works or services under the same contract as provided for in paragraphs 1.1.(b) to 1.1. (d) above.

3. TENDER SUBMISSION AND CONTRACT REPORTING REQUIREMENTS OF TENDERERS AND SUCCESSFUL TENDERERS (SUPPLIERS)

- 3.1 Tenderers are required to sign and submit this Section together with the tender on the closing date and time.
- 3.2 In order to accommodate multiple contracts for the same goods, works or services; renewable contracts and multiple suppliers for the same goods, works or services under the same contract as indicated in sub-paragraphs 1.1 (b) to 1.1(d) above and to enable the DTI in determining the NIP obligation, successful tenderers (Suppliers) are required, immediately after being officially notified about any successful tender with a value in excess of R10 million (ten million Rands), to contact and furnish the DTI with the following information:
- Tender / contract number.
 - Description of the goods, works or services.
 - Date on which the contract was accepted.
 - Name, address and contact details of the government institution.
 - Value of the contract.
 - Imported content of the contract, if possible.
- 3.3 The information required in paragraph 3.2 above must be sent to the Department of Trade and Industry, Private Bag X 84, Pretoria, 0001 for the attention of Mr Elias Malapane within five (5) working days after award of the contract. Mr Malapane may be contacted on telephone (012) 3941401, facsimile (012) 3942401 or e-mail at Elias@thedti.gov.za for further details about the programme.

4. PROCESS TO SATISFY THE NIP OBLIGATION

- 4.1 Once the successful tenderer (Supplier) has made contact with and furnished the DTI with the information required, the following steps will be followed:
- (a) the Supplier and the DTI will determine the NIP obligation;
 - (b) the Supplier and the DTI will sign the NIP obligation agreement;
 - (c) the Supplier will submit a performance guarantee to the DTI;
 - (d) the Supplier will submit a business concept for consideration and approval by the DTI;
 - (e) upon approval of the business concept by the DTI, the Supplier will submit detailed business plans outlining the business concepts;
 - (f) the Supplier will implement the business plans; and
 - (g) the Supplier will submit bi-annual progress reports on approved plans to the DTI.
- 4.2 The NIP obligation agreement is between the DTI and the successful tenderer (Supplier) and, therefore, does not involve the purchasing institution.

Tender number	Closing date
Name of tenderer	
Postal address	
.....	
Signature	Name (in print)
Date	

T2.2.25 LETTER OF GOOD STANDING IN TERMS OF COID ACT
(Compensation for Occupational Injuries and Diseases Act)

INSERT HERE

[Note only insert if applicable if not then omit. Delete this note.]

FOR INFORMATION PURPOSE ONLY

T2.2.26 TENDERER'S FINANCIAL STANDING

In terms of the standard conditions of Tender, the Tenderer shall provide information about its commercial position, which includes information necessary for the Purchaser to evaluate the Tenderer's financial standing.

To that end the Tenderer must provide with its Tender a bank rating, certified by its banker, to the effect that it will be able to successfully complete the contract at the Tendered amount within the specified time for completion.

However, should the Tenderer be unable to provide a bank rating with its Tender, it shall state the reasons as to why it is unable to do so, and in addition provide the following details of its banker and bank account that it intends to use for project:

Name of account holder:

Name of Bank: Branch:

Account number: Type of account:

Telephone number: Facsimile number:

Name of contact person (at bank):

Failure to provide either the required bank details or a certified bank rating with its Tender, will lead to the conclusion that the Tenderer does not have the necessary financial resources at its disposal to complete the contract successfully within the specified time for completion.

The Purchaser undertakes to treat the information thus obtained as confidential, strictly for the use of evaluation of the Tender submitted by the Tenderer.

SIGNATURE: DATE:

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

T2.2.27 SUPPLIERS HEALTH AND SAFETY DECLARATION

In terms of Clause 5(1)9(h) of the OHS Act 1993 Construction Regulations 2014 (referred to as "the Regulations" hereafter), a Supplier may only be appointed to perform construction work if the Purchaser is satisfied that the Supplier has the necessary competencies and resources to carry out the work safely in accordance with the Occupational Health and Safety Act No 85 of 1993 and the OHS Act 1993 Construction Regulations 2014.

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

Declaration by Tenderer

1. I the undersigned hereby declare and confirm that I am fully conversant with the Occupational Health and Safety Act No 85 of 1993 (as amended by the Occupational Health and Safety Amendment Act No 181 of 1993), and the OHS Act 1993 Construction Regulations 2014.
2. I hereby declare that my company / enterprise have the competence and the necessary resources to safely carry out the construction work under this contract in compliance with the Construction Regulations and the Purchaser's Health and Safety Specifications.
3. I hereby undertake, if my Tender is accepted, to provide a sufficiently documented Health and Safety Plan in accordance with CR7(1) of the Construction Regulations, approved by the Purchaser or its representative, before I will be allowed to commence with construction work under the contract. I hereby agree that my company/enterprise will not have a claim for compensation for delay or extension of time because of my failure to obtain the necessary approval for the said safety plan.
4. I confirm that copies of my company's approved Health and Safety Plan, the Purchaser's Safety Specifications as well as the OHS Act 1993 Construction Regulations 2014 will be provided on site and will at all times be available for inspection by the Supplier's personnel, the Purchaser's personnel, the Engineer, visitors, and officials and inspectors of the Department of Labour.
5. I hereby confirm that adequate provision has been made in my Tendered rates and prices in the bill of quantities to cover the cost of all resources, actions, training and all health and safety measures envisaged in the OHS Act 1993 Construction Regulations 2014, including the cost for specific items that may be scheduled in the bill of quantities.
6. I hereby confirm that I will be liable for any penalties that may be applied by the Purchaser in terms of the said Regulations for failure on my part to comply with the provisions of the Act and the Regulations as set out in Regulation 30 of the Regulations.
7. I agree that my failure to complete and execute this declaration to the satisfaction of the Purchaser will mean that I am unable to comply with the requirements of the OHS Act 1993 Construction Regulations 2014, and accept that my Tender will be prejudiced and may be rejected at the discretion of the Purchaser.
8. I am aware of the fact that, should I be awarded the contract, I must submit the notification required in terms of Regulation 4 of the OHS Act 1993 Construction Regulations 2014 (*example attached hereafter*) before I will be allowed to proceed with any work under the contract.

SIGNATURE: DATE:
(of person authorized to sign on behalf of the Tenderer)

T2.2.28 PRO FORMA OHS NOTIFICATION

**PRO FORMA NOTIFICATION FORM IN TERMS OF THE OCCUPATIONAL HEALTH AND SAFETY
ACT 1993, CONSTRUCTION REGULATIONS 2014**

[In terms of Regulation 4 of the Construction Regulations 2014, the successful Tenderer must complete and forward this form prior to commencement of work to the office of the Department of Labour.]

1. (a) Name and postal address of Supplier:

.....

- (b) Name of Supplier's contact person:

Telephone number:

2. Supplier's compensation registration number:

3. (a) Name and postal address of Purchaser:

- (b) Name of Purchaser's contact person or
agent:

Telephone
number

4. (a) Name and postal address of designer(s) for the project:

.....

- (b) Name of designer's contact person:

Telephone
number

5. Name of Supplier's construction supervisor on site appointed in terms of Regulation 6(1):

Telephone number:

6. Name/s of Supplier's sub-ordinate supervisors on site appointed in terms of regulation 6(2).

.....

7. Exact physical address of the construction site or site
office:

8. Nature of the construction work:

9. Expected commencement date:

10. Expected completion date:

11. Estimated maximum number of persons on the construction site:

12. Planned number of Sub-contractors on the construction site accountable to Supplier:

13. Name(s) of Sub-contractors already chosen:

SIGNED BY:

SUPPLIER: DATE:

PURCHASER: DATE:

T2.2.29 LETTER OF INTENT FOR PUBLIC LIABILITY

INSERT HERE

FOR INFORMATION PURPOSE ONLY

T2.2.30 LETTER OF INTENT FOR PROFESSIONAL INDEMNITY

INSERT HERE

FOR INFORMATION PURPOSE ONLY

T2.2.31 LETTER OF INTENT FOR PERFORMANCE GUARANTEE

[The Tenderer must attach hereto a letter from the bank or institution with whom it has made the necessary arrangements, to the effect that the said bank or institution will be prepared to provide the required performance guarantee when asked to do so. The Tenderer must also attach proof that the institution that will provide the performance guarantee is registered and in good standing with the Financial Services Conduct Authority.]

]

INSERT HERE

FOR INFORMATION PURPOSE ONLY

T2.2.32 REGISTRATION CERTIFICATES

Insert required registration Certificates such as CIDB, ECSA, PSIRA, and the like here

FOR INFORMATION PURPOSE ONLY

T2.2.33 CENTRAL SUPPLIER DATABASE (CSD) REPORT

Insert Here

FOR INFORMATION PURPOSE ONLY



CONTRACT NO: 2022/029(A)

SUPPLY INSTALLATION AND COMMISSIONING OF CCTV AND ACCESS CONTROL SYSTEMS

VOLUME 2 – Offer, Contract, Pricing, Scope of Work and Site Information

Issued by:

Umgeni Water
310 Burger Street
Pietermaritzburg

Tender Queries:

Contact Name: Zakhele Cele
Telephone: 033 341 1313

Name of Service Provider:

TABLE OF CONTENTS

<u>DESCRIPTION</u>	<u>PAGE</u>	<u>SHEET COLOUR</u>
VOLUME 1		
THE TENDER		
T1 TENDERING PROCEDURES		
T1.1 Tender Notice and Invitation to Tender	T1.1	White
T1.2 Tender Data	T1.3	Pink
T.2 RETURNABLE DOCUMENTS		
T2.1 List of Returnable Documents	T2.1	Yellow
T2.2 Returnable Schedules and Documents	T2.3	Yellow
VOLUME 2		
THE CONTRACT		
C.1 AGREEMENTS AND CONTRACT DATA		
C1.1 Form of Offer and Acceptance	C1.2	Yellow
C1.2 Contract Data	C1.7	Yellow
C.2 PRICING DATA		
C2.1 Pricing Instructions	C2.1	Yellow
C2.2 Pricing Schedule	C2.2	Yellow
C.3 SCOPE OF WORK	C3.1	Blue
C.4 SITE INFORMATION	C4.1	Green
C.5 ANNEXURES	C5.1	White

C.1 AGREEMENTS AND CONTRACT DATA

IMPORTANT NOTE ON C1.1:

ALL Tenderers MUST complete and sign Form A: OFFER (the first page hereafter).

Form B: ACCEPTANCE will be signed by the Employer and then only in the case of the successful Tenderer.

Form C: SCHEDULE OF DEVIATIONS must be signed by the Employer as well as the successful Tenderer after award of the contract.

Form D: CONFIRMATION OF RECEIPT must be signed by the successful Tenderer on receipt of a fully completed original copy of the Agreement including the Schedule of Deviations, if any.

C1.1 FORM OF OFFER AND ACCEPTANCE

A. OFFER

The Employer, identified in the Acceptance signature block, has solicited offers to enter into a contract for the 2022/029(A) *Supply and installation of CCTV and Access Control systems*

The Tenderer, identified in the Offer signature block, has examined the draft contract as listed in the Acceptance section and agreed to provide this Offer.

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

THE OFFERED TOTAL OF THE PRICES INCLUSIVE OF VAT IS:

(in words).....Rand;

(in figures) R.....

The Tenderer confirms that he has read the Standard General Services Contract referred to in C1.2 Contract Data.

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

Signature(s) *(of persons authorized to sign the acceptance)*

Name(s)

Capacity

For the Tenderer:

(Insert name and address of organization)

.....

Name & Signature of Witness

Date

B: ACCEPTANCE

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

The terms of the contract are contained in:

- C.1 Agreement, and Contract Data, (which include this Agreement)
- C.2 Pricing Data, including the Bill of Quantities
- C.3 Scope of Work
- C.4 Site Information
- C.5 Annexures

and the schedules, forms, drawings and documents or parts thereof, which may be incorporated by reference into Parts 1 to 5 above.

Deviations from and amendments to the documents listed in the Tender Data and any addenda thereto listed in the Tender Schedules as well as any changes to the terms of the Offer agreed by the Tenderer and the Employer during this process of offer and acceptance, are contained in the Schedule of Deviations attached to and forming part of this Agreement. No amendments to or deviations from said documents are valid unless contained in this Schedule, which must be duly signed by the authorized representatives of both parties.

The Tenderer shall within two weeks after receiving a completed copy of this Agreement, including the Schedule of Deviations (if any), contact the Employer's agent (whose details are given in the Contract Data) to arrange the delivery of any other bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the Conditions of Contract identified in the Contract Data. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this Agreement.

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

Signature: *(of person authorized to sign the acceptance)*

Name: *(of signatory in capitals)*

Capacity: *(of Signatory)*

Name of Employer: *(organization)* Umgeni Water

Address 310 Burger Street, Pietermaritzburg

Telephone number: 033 3411111 **Fax number:**

AS WITNESS

Signature: **Name:** *(in capitals)*

Date:

C: SCHEDULE OF DEVIATIONS

The extent of deviations from the tender documents issued by Umgeni Water prior to the tender closing date is limited to those permitted in terms of the Tender Data and the Conditions of Tender.

A Tenderer's covering letter will not necessarily be included in the final contract document. Should any matter in such letter, which constitutes a deviation as aforesaid become the subject of agreements reached during the process of offer and acceptance, the outcome of such agreement shall be recorded here.

Any other matters arising from the process of offer and acceptance either as a confirmation, clarification or change to the tender documents and which it is agreed by the Parties becomes an obligation of the contract shall also be recorded here.

Any change or addition to the tender documents arising from the above agreements and recorded here shall also be incorporated into the final draft of the Contract.

1. **Subject:**
Details:
.....
2. **Subject:**
Details:
.....
3. **Subject:**
Details:
.....
4. **Subject:**
Details:
.....
5. **Subject:**
Details:
.....
6. **Subject:**
Details:
.....
7. **Subject:**
Details:
.....

By the duly authorized representatives signing this Schedule of Deviations, Umgeni Water and the Tenderer agree to and accept the foregoing Schedule of Deviations as the only deviations from and amendments to the documents listed in the Tender Data and addenda thereto as listed in the Tender Schedules, as well as any confirmation, clarification or change to the terms of the offer agreed by the Tenderer and Umgeni Water during this process of offer and acceptance.

It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between the issue of the tender documents and the receipt by the Tenderer of a completed signed copy of this Agreement shall have any meaning or effect in the contract between the parties arising from this Agreement.

FOR THE TENDERER:

Signature:

Name:

Capacity:

Tenderer: *(Name and address of organization)*

Witness:

Signature:

Name:

Date:

FOR UMGENI WATER

Signature:

Name:

Capacity:

Witness:

Signature:

Name:

Date:

D: CONFIRMATION OF RECEIPT

The Tenderer, (now Service Provider), identified in the Offer part of this Agreement hereby confirms receipt from the Employer, identified in the Acceptance part of this Agreement, of one fully completed original copy of this Agreement, including the Schedule of Deviations on this

FOR THE CONTRACTOR:

Signature:

Name:

Capacity:

Signature and name of witness:

Signature:

Name:

C.1.2 CONTRACT DATA (INCLUDING SPECIAL CONDITIONS OF CONTRACT)

The Conditions of Contract are the **Umgeni Water Standard Services Contract** (document number: SCM027), a copy of which may be obtained from the Umgeni Water Supply Chain Management office or can be downloaded from the following web site: www.umgeni.co.za/sustainable_development/sud.asp

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

Special Conditions of Contract

1. National Treasury Central Supplier Database

The successful Tenderer is required to provide proof of registration with the National Treasury Central Supplier Database (CSD) prior to the award of contract.

2. Application of Contract Price Adjustment Factor

Contract Price Adjustment will not be applicable

3. Progress Payments

Payment of Payment Certificates shall be effected on or before but not later than the last day of the month following the month in which the Invoice and accompanying statement was dated".

PART 1: DATA PROVIDED BY THE EMPLOYER

Clause	Data
1	The Employer is Umgeni Water
1	The Contract is Supply and installation of CCTV and Access Control systems
1	The Period of Performance is 5 years from the Commencement Date.
3.4	<p>The authorized and designated representative of the Employer is: Name: Vusi Mdluli</p> <p>The address for receipt of communications is: Telephone: 033 341 1327 Facsimile: 033 341 1089 E-mail: Vusi.Mdluli@umgeni.co.za Address: 310 Burger Street, Pietermaritzburg</p>
3.5	The location for the performance of the Contract is 310 Burger Street, Pietermaritzburg
3.13	The programme shall be submitted within 14 Days of the Contract becoming effective.
5.4.1	<p>The Service Provider is required to provide the following insurances:</p> <p>1. Public Liability Insurance [REDACTED] Minimum Cover is: R10 000 000 (Ten million rand) [REDACTED] Period of cover: For the period of performance [REDACTED]</p> <p>2. Professional Indemnity Insurance [REDACTED] Minimum Cover is: R5 000 000 (Five million rand) [REDACTED] Period of cover: For the period of performance [REDACTED]</p> <p>Insurance requirements should be confirmed on award</p>
7.2	The Service Provider is required to provide personnel in accordance with the provisions of Clause 7.2 and to complete the Personnel Schedule.
8.1	The Service Provider is to commence the performance of the Services within 14 Days of date that the Contract becomes effective.
12.2.1/2/3	Interim settlement of disputes is to be by mediation
	In the event that the parties fail to agree on a mediator, the mediator is nominated by the Association of Arbitrators (Southern Africa)
12.2.4	Final settlement is by litigation.
13.1.3	All persons in a joint venture or consortium shall carry a minimum General indemnity insurance of the value stipulated in clause 5.4.1 of the Contract Data.
15	The interest rate will be prime interest rate of the Employer's bank at the time that the amount is due.

PART 2: DATA PROVIDED BY THE SERVICE PROVIDER

Clause	Data																
1	<p>The Service Provider is.</p> <p>Name:</p> <p>Address:</p> <p>.....</p> <p>Telephone: Facsimile:</p>																
5.3	<p>The authorized and designated representative of the Service Provider is:</p> <p>Name:</p> <p>The address for receipt of communications is:</p> <p>Address:</p> <p>.....</p> <p>Telephone: Facsimile:</p>																
5.5 7.1.2	<p>The Key Persons and their jobs / functions in relation to the services are:</p> <table border="1"> <thead> <tr> <th>Name</th><th>Specific duties</th></tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	Name	Specific duties														
Name	Specific duties																

PART C2: PRICING DATA

C2.2 BILL OF QUANTITIES

NOTE TO TENDERERS –

1. ALL QUANTITIES ON THE BOQ BELOW ARE PROVISIONAL AND FINAL QUANTITIES WILL BE CONFIRMED AND AGREED WITH THE SUCCESSFUL TENDERER AT EACH SITE. THIS APPLIES TO EVERY SITE ON THE BILL.
2. TENDERERS TO TAKE NOTE THAT PHASE 1 (ONE) IS FOR 2021/2022 FINANCIAL YEAR ENDING IN JUNE 2022 AND PHASE 2 (TWO) IS FOR 2022/2023 FINANCIAL YEAR COMMENCING JULY 2022 AND ENDING 30 JUNE 2023. TENDERERS ARE ADVISED TO CONSIDER THE PRICING BASED ON ANNUAL CPI FLUCTUATION. NO ADDITIONAL ESCALATION WILL BE ACCEPTED AT A LATER STAGE OVER AND ABOVE THE TENDERED RATES.
3. ALL SERVERS PROVIDED SHOULD BE HP (HEWLETT PACKARD) BRANDED.
4. ALL PERSONAL COMPUTERS SHOULD BE HP (HEWLETT PACKARD) BRANDED.
5. ALL CABLING SHOULD BE DONE IN IP FORM
6. ALL CCTV MONITORS SHOULD BE 55 INCH.

PHASE ONE (1) 2021/2022

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
1	PINESIDE REGIONAL OFFICE ACCESS CONTROL SYSTEM				
	<u>SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:</u>				
1.1	GOOSE NECK AT ENTRANCE	NO.	1	R	R
1.2	WEATHERPROOF CARD READERS	NO.	6	R	R
1.3	DOOR CONTROL UNITS	NO.	4	R	R
1.4	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
1.5	INDUSTRIAL PUSH BUTTONS	NO.	1	R	R
1.6	VIDEO INTERCOMS	NO.	1	R	R
1.7	LIGHTNING PROTECTION FOR ALL EQUIPMENT	SUM	1	R	R
1.8	CLIENT INTEGRATED SOFTWARE FOR OPERATORS	SUM	1	R	R
1.9	ENROLMENT READER AND CLIENT PERSONAL COMPUTERS PER SITE	SUM	1	R	R
1.10	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	26	R	R
1.11	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
1.12	ALL EMERGENCY DOORS TO BE ACTIVATED ON ALARM	SUM	1	R	R
1.13	SITE AND BUILDING ACCESS CONTROL SERVER WITH UPS, RACK WITH ALL RELATED PERIPHERALS	SUM	1	R	R
1.14	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	500	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE ONE (1) 2021/2022

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
2	PINESIDE REGIONAL OFFICE CCTV SYSTEM				
	SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:				
2.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	1	R	R
2.2	WEATHERPROOF IP POE CAMERA	NO.	5	R	R
2.3	SERVER COMPLETE WITH NVR, UPS STORAGE, RACK AND ALL OTHER ACCESSORIES REQUIRED	NO.	1	R	R
2.4	CCTV SERVER SOFTWARE	SUM	1	R	R
2.5	CCTV CLIENT SOFTWARE FOR OPERATOR PERSONAL COMPUTERS	SUM	1	R	R
2.6	SOFTWARE PROGRAMMING AND CONFIGURATION	SUM	1	R	R
2.7	LIGHTNING PROTECTION FOR CCTV SYSTEM	SUM	1	R	R
2.8	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
2.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	12	R	R
2.10	CCTV MONITOR	NO.	2	R	R
2.11	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	500	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE ONE (1) 2021/2022

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
3	WIGGINS WTW ACCESS CONTROL SYSTEM				
	<u>SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:</u>				
3.1	GOOSE NECK AT ENTRANCE WEATHERPROOF CARD READERS	SUM	1	R	R
3.2	DOOR CONTROL UNITS	NO.	6	R	R
3.3	DOOR CONTROL UNITS	NO.	4	R	R
3.4	GREEN EMERGENCY (BREAK GLASS) UNITS	SUM	1	R	R
3.5	INDUSTRIAL PUSH BUTTONS	SUM	1	R	R
3.6	VIDEO INTERCOMS	SUM	1	R	R
3.7	LIGHTNING PROTECTION FOR ALL EQUIPMENT	SUM	1	R	R
3.8	CLIENT INTEGRATED SOFTWARE FOR OPERATORS	SUM	1	R	R
3.9	ENROLMENT READER AND CLIENT PERSONAL COMPUTERS PER SITE	SUM	1	R	R
3.10	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	652	R	R
3.11	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
	CHLORINE BUILDING (CORROSIVE ENV)				
3.12	CHLORINE DRUM ROOM				
3.12.1	WEATHERPROOF CARD READERS	NO.	4	R	R
3.12.2	DOOR CONTROL UNITS	NO.	2	R	R
3.12.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	2	R	R
3.13	<u>CHLORINE INJECTOR ROOM</u>				
3.13.1	WEATHERPROOF CARD READERS	NO.	2	R	R
3.13.2	DOOR CONTROL UNITS	NO.	1	R	R
3.13.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
TOTAL CARRIED FORWARD					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
TOTAL BROUGHT DOWN					R
	CHEMICAL HOUSE (CORROSIVE/DUST ENV)				
3.14	ENTRANCE DOOR				
3.14.1	WEATHERPROOF CARD READERS	NO.	2	R	R
3.14.2	DOOR CONTROL UNITS	NO.	1	R	R
3.14.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
3.15	<u>OPERATOR OFFICE ENTRANCE DOORS</u>				
3.15.1	WEATHERPROOF CARD READERS	NO.	4	R	R
3.15.2	DOOR CONTROL UNITS	NO.	2	R	R
3.15.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	2	R	R
3.16	<u>LIME AND BENTONITE DOSING ENTRANCE DOORS</u>				
3.16.1	WEATHERPROOF CARD READERS	NO.	6	R	R
3.16.2	DOOR CONTROL UNITS	NO.	3	R	R
3.16.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	3	R	R
	FLAMMABLE STORE				
3.17	ENTRANCE DOOR				
3.17.1	WEATHERPROOF CARD READERS	NO.	2	R	R
3.17.2	DOOR CONTROL UNITS	NO.	1	R	R
3.17.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	WORKSHOP BUILDING				
3.18	<u>MAIN ENTRANCE DOOR(FRONT AND SIDE)</u>				
3.18.1	WEATHERPROOF CARD READERS	NO.	4	R	R
3.18.2	DOOR CONTROL UNITS	NO.	2	R	R
3.18.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	2	R	R
3.19	<u>MECHANICAL W/SHOP SIDE ENTRANCE</u>				
3.19.1	WEATHERPROOF CARD READERS	NO.	2	R	R
3.19.2	DOOR CONTROL UNITS	NO.	1	R	R
TOTAL CARRIED FORWARD					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
TOTAL BROUGHT DOWN					R
3. 19.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
3.20	<u>DOOR TO STORE ROOM USED BY CLEANING CONTRACTOR</u>				
3.20.1	WEATHERPROOF CARD READERS	NO.	6	R	R
3. 20.2	DOOR CONTROL UNITS	NO.	3	R	R
3. 20.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	3	R	R
	INLET CHAMBER				
3.21	<u>ENTRANCE DOOR</u>				
3.21.1	WEATHERPROOF CARD READERS	NO.	2	R	R
3. 21.2	DOOR CONTROL UNITS	NO.	1	R	R
3. 21.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	MACHINE HALL				
3.22	<u>SIDE ENTRANCE DOOR</u>				
3.22.1	WEATHERPROOF CARD READERS	NO.	2	R	R
3. 22.2	DOOR CONTROL UNITS	NO.	1	R	R
3. 22.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	ADMIN BUILDING				
3.23	<u>MAIN DOOR.</u>				
3.23.1	WEATHERPROOF CARD READERS	NO.	2	R	R
3. 23.2	DOOR CONTROL UNITS	NO.	1	R	R
3. 23.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	FILTER GALLERY ENTRANCE DOOR				
3.23.4	WEATHERPROOF CARD READERS	NO.	2	R	R
3. 23.5	DOOR CONTROL UNITS	NO.	1	R	R
3. 23.6	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	CONTROL ROOM - MAIN AND REAR				
3.23.7	WEATHERPROOF CARD READERS	NO.	4	R	R
TOTAL CARRIED FORWARD					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
TOTAL BROUGHT DOWN					R
3. 23.8	DOOR CONTROL UNITS	NO.	2	R	R
3. 23.9	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	2	R	R
	EQUIPMENT ROOM				
3.23.10	WEATHERPROOF CARD READERS	NO.	2	R	R
3. 23.11	DOOR CONTROL UNITS	NO.	1	R	R
3. 23.12	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	ADMIN LAB				
3.23.13	WEATHERPROOF CARD READERS	NO.	2	R	R
3. 23.14	DOOR CONTROL UNITS	NO.	1	R	R
3. 23.15	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	CLEANER STORES ENTRANCE DOOR				
3.23.16	WEATHERPROOF CARD READERS	NO.	2	R	R
3. 23.17	DOOR CONTROL UNITS	NO.	1	R	R
3. 23.18	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	FIRST AID ROOM				
3.23.19	WEATHERPROOF CARD READERS	NO.	2	R	R
11. 23.20	DOOR CONTROL UNITS	NO.	1	R	R
3. 23.21	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	HOMOGENISATION BUILDING				
3.24	<u>ENTRANCE DOOR</u>				
3.24.1	WEATHERPROOF CARD READERS	NO.	2	R	R
3. 24.2	DOOR CONTROL UNITS	NO.	1	R	R
3. 24.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	WASH WATER RECOVERY				
3.25	<u>ENTRANCE DOOR</u>				
3.25.1	WEATHERPROOF CARD READERS	NO.	2	R	R
TOTAL CARRIED FORWARD					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
TOTAL BROUGHT DOWN					R
3. 25.2	DOOR CONTROL UNITS	NO.	1	R	R
3. 25.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	PRE OZONE DESTRUCTOR ROOM				
3.26	MAIN ENTRANCE DOOR				
3.26.1	WEATHERPROOF CARD READERS	NO.	2	R	R
3. 26.2	DOOR CONTROL UNITS	NO.	1	R	R
3. 26.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	SLUDGE PLANT				
3.27	SIDE ENTRANCE DOORS				
3.27.1	WEATHERPROOF CARD READERS	NO.	2	R	R
3. 27.2	DOOR CONTROL UNITS	NO.	1	R	R
3. 27.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	GARAGE DOOR				
3.27.4	WEATHERPROOF CARD READERS	NO.	2	R	R
3. 27.5	DOOR CONTROL UNITS	NO.	1	R	R
3. 27.6	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	ELECTRICAL SUBSTATION A				
3.28	STORAGE FACILITY FOR CASUAL WORKERS				
3.28.1	WEATHERPROOF CARD READERS	NO.	2	R	R
3. 28.2	DOOR CONTROL UNITS	NO.	1	R	R
3. 28.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	STORAGE ROOM _ OLD SPARES FROM OZONE				
3.28.4	WEATHERPROOF CARD READERS	NO.	2	R	R
3. 28.5	DOOR CONTROL UNITS	NO.	1	R	R
3. 28.6	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
TOTAL CARRIED FORWARD					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
TOTAL BROUGHT DOWN					R
	STORAGE SWITCH GEARS AND MOTOR				
3.28.7	WEATHERPROOF CARD READERS	NO.	2	R	R
3. 28.8	DOOR CONTROL UNITS	NO.	1	R	R
3. 28.9	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	LOW VOLTAGE ROOM				
3.28.10	WEATHERPROOF CARD READERS	NO.	2	R	R
3. 28.11	DOOR CONTROL UNITS	NO.	1	R	R
3. 28.12	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	MEDIUM VOLTAGE ROOM				
3.28.13	WEATHERPROOF CARD READERS	NO.	2	R	R
3. 28.14	DOOR CONTROL UNITS	NO.	1	R	R
3. 28.15	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	STANDBY GENERATOR ROOM				
3.28.16	WEATHERPROOF CARD READERS	NO.	2	R	R
3. 28.17	DOOR CONTROL UNITS	NO.	1	R	R
3. 28.18	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	ELECTRICAL SUBSTATION B				
3.29	ENTRANCE DOORS				
3.29.1	WEATHERPROOF CARD READERS	NO.	2	R	R
3. 29.2	DOOR CONTROL UNITS	NO.	1	R	R
3. 29.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	MEDIUM VOLTAGE ROOM				
3.29.4	WEATHERPROOF CARD READERS	NO.	2	R	R
3. 29.5	DOOR CONTROL UNITS	NO.	1	R	R
11. 29.6	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	TOTAL CARRIED FORWARD				R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
TOTAL BROUGHT DOWN					R
	TRANSFORMER NO. 1				
3.29.7	WEATHERPROOF CARD READERS	NO.	2	R	R
3. 29.8	DOOR CONTROL UNITS	NO.	1	R	R
3. 29.9	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	TRANSFORMER NO.2				
3.29.10	WEATHERPROOF CARD READERS	NO.	2	R	R
3. 29.11	DOOR CONTROL UNITS	NO.	1	R	R
3. 29.12	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	STANDBY GENERATOR				
3.29.13	WEATHERPROOF CARD READERS	NO.	2	R	R
3. 29.14	DOOR CONTROL UNITS	NO.	1	R	R
3. 29.15	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	LOW VOLTAGE ROOM				
3.29.16	WEATHERPROOF CARD READERS	NO.	2	R	R
3. 29.17	DOOR CONTROL UNITS	NO.	1	R	R
3. 29.18	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	PULSATORS				
3.30	ENTRANCE DOORS			R	R
3.30.1	WEATHERPROOF CARD READERS	NO.	1	R	R
3. 30.2	DOOR CONTROL UNITS	NO.	1	R	R
3. 30.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	OZONE BUILDING				
3.31	OZONE ENTRANCE (FROM CLEARWELLS)				
3.31.1	WEATHERPROOF CARD READERS	NO.	2	R	R
TOTAL CARRIED FORWARD					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
	TOTAL BROUGHT DOWN				R
3. 31.2	DOOR CONTROL UNITS	NO.	1	R	R
3. 31.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	OZONE ENTRANCE (FROM FILTER GALLERY)				
3.31.4	WEATHERPROOF CARD READERS	NO.	2	R	R
3. 31.5	DOOR CONTROL UNITS	NO.	1	R	R
3. 31.6	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	REAR ENTRANCE (RES IN SAMPLE POINT)				
3.31.7	WEATHERPROOF CARD READERS	NO.	2	R	R
3. 31.8	DOOR CONTROL UNITS	NO.	1	R	R
3. 31.9	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	FILTERS				
3.32	BOTTOM REAR ENTRANCE				
3.32.1	WEATHERPROOF CARD READERS	NO.	4	R	R
3. 32.2	DOOR CONTROL UNITS	NO.	2	R	R
3. 32.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	2	R	R
	GALLERY ENTRANCE/EXIT DOORS				
3.32.4	WEATHERPROOF CARD READERS	NO.	16	R	R
3. 32.5	DOOR CONTROL UNITS	NO.	8	R	R
3. 32.6	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	8	R	R
	CLEARWELL EXIT (NEAR FILTER 12)				
3.32.7	WEATHERPROOF CARD READERS	NO.	2	R	R
3. 32.8	DOOR CONTROL UNITS	NO.	1	R	R
3. 32.9	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	TOTAL CARRIED FORWARD				R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
TOTAL BROUGHT DOWN					R
	PAC BUILDING				
3.33	<u>ENTRANCE DOORS (COMP, MCC, PUMPS)</u>				
3.33.1	WEATHERPROOF CARD READERS	NO.	8	R	R
3.33.2	DOOR CONTROL UNITS	NO.	4	R	R
3.33.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	4	R	R
	MIXING ROOM GARAGE DOOR				
3.33.4	WEATHERPROOF CARD READERS	NO.	2	R	R
3.33.5	DOOR CONTROL UNITS	NO.	1	R	R
3.33.6	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	HIGHLIFT PUMPSTATION				
3.34	<u>WALK ENTRANCE DOOR</u>				
3.34.1	WEATHERPROOF CARD READERS	NO.	2	R	R
3.34.2	DOOR CONTROL UNITS	NO.	1	R	R
3.34.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	LIFTING TACKLE ENTRANCE				
3.34.4	WEATHERPROOF CARD READERS	NO.	2	R	R
3.34.5	DOOR CONTROL UNITS	NO.	1	R	R
3.34.6	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	SWITCH GEAR ROOM				
3.34.7	WEATHERPROOF CARD READERS	NO.	2	R	R
3.34.8	DOOR CONTROL UNITS	NO.	1	R	R
3.34.9	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	CITY OUTLET				
3.35	<u>ENTRANCE DOOR</u>				
3.35.1	WEATHERPROOF CARD READERS	NO.	2	R	R
3.35.2	DOOR CONTROL UNITS	NO.	1	R	R
3.35.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
TOTAL CARRIED FORWARD					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
TOTAL BROUGHT DOWN					R
	HYPO PLANT (CORROSIVE ENV)				
3.36	ENTRANCE DOOR				
3.36.1	WEATHERPROOF CARD READERS	NO.	2	R	R
3.36.2	DOOR CONTROL UNITS	NO.	1	R	R
3.36.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
3.37	MAIN ACCESS GATE				
	TURNSTILE				
3.37.1	WEATHERPROOF CARD READERS	NO.	2	R	R
3.37.2	DOOR CONTROL UNITS	NO.	1	R	R
3.37.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	BOOM GATE				
3.37.4	WEATHERPROOF CARD READERS	NO.	2	R	R
3.37.5	DOOR CONTROL UNITS	NO.	1	R	R
3.37.6	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	PEDESTRIAN ACCESS GATE				
3.37.7	WEATHERPROOF CARD READERS	NO.	2	R	R
3.37.8	DOOR CONTROL UNITS	NO.	1	R	R
3.37.9	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
3.38	MAIN SUBSTATION				
	MEDIUM VOLTAGE ROOM				
3.38.1	WEATHERPROOF CARD READERS	NO.	4	R	R
3.38.2	DOOR CONTROL UNITS	NO.	2	R	R
3.38.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	2	R	R
	WIGGINS PEF ACCESS CONTROL SYSTEM				
3.17	ADMIN OFFICE BUILDING				
	ENTRANCE ACCESS DOOR NO.1				
TOTAL CARRIED FORWARD					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
TOTAL BROUGHT DOWN					R
3.17.1	WEATHERPROOF CARD READERS	NO.	2	R	R
3. 17.2	DOOR CONTROL UNITS	NO.	1	R	R
3. 17.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
ENTRANCE ACCESS DOOR NO.2					
3.17.4	WEATHERPROOF CARD READERS	NO.	2	R	R
3. 17.5	DOOR CONTROL UNITS	NO.	1	R	R
3. 17.6	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
SERVER ROOM DOOR					
3.17.7	WEATHERPROOF CARD READERS	NO.	2	R	R
3. 17.8	DOOR CONTROL UNITS	NO.	1	R	R
3. 17.9	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
3.18	<u>PEF SHED</u>				
MAIN ENTRANCE DOOR					
3.18.1	WEATHERPROOF CARD READERS	NO.	2	R	R
3. 18.2	DOOR CONTROL UNITS	NO.	1	R	R
3. 18.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
3.41	<u>WORKSHOP BUILDING</u>				
MAIN ENTRANCE DOOR					
3.41.1	WEATHERPROOF CARD READERS	NO.	2	R	R
3. 41.2	DOOR CONTROL UNITS	NO.	1	R	R
3. 41.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
DOOR LEADING TO THE STORE ROOM					
3.41.4	WEATHERPROOF CARD READERS	NO.	2	R	R
3.41.5	DOOR CONTROL UNITS	NO.	1	R	R
3. 41.6	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
3.42	<u>OPEN PLAN OFFICES</u>				
TOTAL CARRIED FORWARD					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
TOTAL BROUGHT DOWN					R
	ENTRANCE DOOR				
3.42.1	WEATHERPROOF CARD READERS	NO.	2	R	R
3. 42.2	DOOR CONTROL UNITS	NO.	1	R	R
3. 42.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
3.43	ALL EMERGENCY DOORS TO BE ACTIVATED ON ALARM	SUM	1	R	R
3.44	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	750	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE ONE (1) 2021/2022

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
4	WIGGINS WTW CCTV SYSTEM				
	<u>SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:</u>				
4.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	1	R	R
4.2	WEATHERPROOF IP POE CAMERA	NO.	5	R	R
4.3	SERVER COMPLETE WITH NVR, UPS STORAGE, RACK AND ALL OTHER ACCESSORIES REQUIRED	NO.	1	R	R
4.4	CCTV SERVER SOFTWARE	SUM	1	R	R
4.5	CCTV CLIENT SOFTWARE FOR OPERATOR PERSONAL COMPUTERS	SUM	1	R	R
4.6	SOFTWARE PROGRAMMING AND CONFIGURATION	SUM	1	R	R
4.7	LIGHTNING PROTECTION FOR CCTV SYSTEM	SUM	1	R	R
4.8	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
4.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	12	R	R
4.10	CCTV MONITOR	NO.	2	R	R
4.11	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	750	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
5	AMANZIMTOTI WTW ACCESS CONTROL SYSTEM				
	<u>SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:</u>				
5.1	GOOSE NECK AT ENTRANCE	NO.	1	R	R
5.2	WEATHERPROOF CARD READERS	NO.	13	R	R
5.3	DOOR CONTROL UNITS	NO.	6	R	R
5.4	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	4	R	R
5.5	INDUSTRIAL PUSH BUTTONS	NO.	1	R	R
5.6	VIDEO INTERCOMS	NO.	1	R	R
5.7	LIGHTNING PROTECTION FOR ALL EQUIPMENT	SUM	1	R	R
5.8	CLIENT INTEGRATED SOFTWARE FOR OPERATORS	SUM	1	R	R
5.9	ENROLMENT READER AND CLIENT PERSONAL COMPUTERS PER SITE	SUM	1	R	R
5.10	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	50	R	R
5.11	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
5.12	ALL EMERGENCY DOORS TO BE ACTIVATED ON ALARM	SUM	1	R	R
5.13	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	500	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE ONE (1) 2021/2022

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
6	MKONDENI REGIONAL OFFICE ACCESS CONTROL SYSTEM				
	<u>SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:</u>				
6.1	GOOSE NECK AT ENTRANCE	NO.	2	R	R
6.2	WEATHERPROOF CARD READERS	NO.	16	R	R
6.3	DOOR CONTROL UNITS	NO.	8	R	R
6.4	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	8	R	R
6.5	INDUSTRIAL PUSH BUTTONS	NO.	3	R	R
6.6	VIDEO INTERCOM	NO.	1	R	R
6.7	LIGHTNING PROTECTION FOR ALL EQUIPMENT	SUM	1	R	R
6.8	CLIENT INTEGRATED SOFTWARE FOR OPERATORS	SUM	1	R	R
6.9	ENROLMENT READER AND CLIENT PERSONAL COMPUTERS PER SITE	SUM	1	R	R
6.10	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	72	R	R
6.11	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
6.12	ALL EMERGENCY DOORS TO BE ACTIVATED ON ALARM	SUM	1	R	R
6.13	SITE AND BUILDING ACCESS CONTROL SERVER WITH UPS, RACK WITH ALL RELATED PERIPHERALS	SUM	1	R	R
6.14	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	750	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE ONE (1) 2021/2022

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
7	MKONDENI REGIONAL OFFICE CCTV SYSTEM				
	<u>SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:</u>				
7.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	1	R	R
7.2	WEATHERPROOF IP POE CAMERA	NO.	5	R	R
7.3	SERVER COMPLETE WITH NVR, UPS STORAGE, RACK AND ALL OTHER ACCESSORIES REQUIRED	NO.	1	R	R
7.4	CCTV SERVER SOFTWARE	SUM	1	R	R
7.5	CCTV CLIENT SOFTWARE FOR OPERATOR PERSONAL COMPUTERS.	SUM	1	R	R
7.6	SOFTWARE PROGRAMMING AND CONFIGURATION	SUM	1	R	R
7.7	LIGHTNING PROTECTION FOR CCTV SYSTEM	SUM	1	R	R
7.8	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM.	SUM	1	R	R
7.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	12	R	R
7.10	CCTV MONITOR	NO.	2	R	R
7.11	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	750	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE ONE (1) 2021/2022

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
8	HEAD OFFICE ACCESS CONTROL SYSTEM				
	<u>SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:</u>				
8.1	GOOSE NECK AT ENTRANCE	NO.	2	R	R
8.2	SITE AND BUILDING ACCESS CONTROL SERVER WITH UPS, RACK WITH ALL RELATED PERIPHERALS	SUM	1	R	R
8.3	WEATHERPROOF CARD READERS	NO.	16	R	R
8.4	DOOR CONTROL UNITS	NO.	8	R	R
8.5	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	8	R	R
8.6	INDUSTRIAL PUSH BUTTONS	NO.	3	R	R
8.7	VIDEO INTERCOMS	NO.	1	R	R
8.8	LIGHTNING PROTECTION FOR ALL EQUIPMENT	SUM	1	R	R
8.9	CLIENT INTEGRATED SOFTWARE FOR OPERATORS	SUM	1	R	R
8.10	ENROLMENT READER AND CLIENT PERSONAL COMPUTERS PER SITE	SUM	1	R	R
8.11	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	72	R	R
8.12	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
8.13	ALL EMERGENCY DOORS TO BE ACTIVATED ON ALARM	SUM	1	R	R
8.14	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	950	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE ONE (1) 2021/2022

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
9	HEAD OFFICE CCTV SYSTEM				
	<u>SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:</u>				
9.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	1	R	R
9.2	WEATHERPROOF IP POE CAMERA	NO.	70	R	R
9.3	SERVER COMPLETE WITH NVR, UPS STORAGE, RACK AND ALL OTHER ACCESSORIES REQUIRED	NO.	1	R	R
9.4	CCTV SERVER SOFTWARE	SUM	1	R	R
9.5	CCTV CLIENT SOFTWARE FOR OPERATOR PERSONAL COMPUTERS	SUM	1	R	R
9.6	SOFTWARE PROGRAMMING AND CONFIGURATION	SUM	1	R	R
9.7	LIGHTNING PROTECTION FOR CCTV SYSTEM	SUM	1	R	R
9.8	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
9.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	142	R	R
9.10	CCTV MONITOR	NO.	2	R	R
9.11	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	1500	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE ONE (1) 2021/2022

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
10	MIDMAR DAM CCTV SYSTEM				
	SUPPLY, INSTALL AND COMMISSION THE FOLLOWING:				
10.1	TOP OF DAM WALL				
10.1.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	2	R	R
10.1.2	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	4	R	R
10.1.3	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
10.2	BOTTOM OF DAM WALL				
10.2.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	2	R	R
10.2.2	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	4	R	R
10.2.3	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
10.3	MAIN VALVE CONTROL CHAMBER				
10.3.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	2	R	R
10.3.2	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	4	R	R
10.3.3	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
10.4	NEW OFFICE BUILDING				
10.4.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	2	R	R
10.4.2	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	4	R	R
10.4.3	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
	ALBERT FALLS DAM CCTV SYSTEM				
10.5	ADMIN BUILDING				
10.5.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	2	R	R
10.5.2	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	4	R	R
10.5.3	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
10.6	BOTTOM OF DAM WALL				
10.6.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	2	R	R
10.6.2	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	4	R	R
10.6.3	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
TOTAL CARRIED FORWARD					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
TOTAL BROUGHT DOWN					R
10.7	CCTV - TO COVER ACCESS ON BOTH SIDES OF WALL AND DOWNSTREAM				
10.7.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	2	R	R
10.7.2	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	4	R	R
10.7.3	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
	MIDMAR WATERWORKS REQUIREMENTS				
10.8	CHEMICAL BUILDING: TWO LOWER ACCESS DOORS				
10.8.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	4	R	R
10.8.2	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	8	R	R
10.8.3	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	300	R	R
10.9	<u>ADMIN BUILDING: DOOR LEADING TO CHEMICAL BUILDING</u>				
10.9.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	2	R	R
10.9.2	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	4	R	R
10.9.3	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
10.10	<u>ADMIN BUILDING: PABX ROOM DOOR</u>				
10.10.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	2	R	R
10.10.2	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	4	R	R
10.10.3	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
10.11	<u>ADMIN BUILDING: TELEMETRY ROOM DOOR</u>				
10.11.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	2	R	R
10.11.2	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	4	R	R
10.11.3	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
10.12	<u>ADMIN BUILDING: TWO MAIN ACCESS DOORS</u>				
10.12.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	2	R	R
10.12.2	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	4	R	R
10.12.3	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
TOTAL CARRIED FORWARD					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
TOTAL BROUGHT DOWN					R
10.13	<u>ADMIN BUILDING: TWO CONTROL ROOM DOORS</u>				
10.13.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	2	R	R
10.13.2	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	4	R	R
10.13.3	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
10.14	<u>SLUDGE PLANT - THREE DOORS</u>				
10.14.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	6	R	R
10.14.2	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	12	R	R
10.14.3	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	500	R	R
10.15	<u>SLUDGE PLANT - CONTROL ROOM DOOR</u>				
10.15.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	2	R	R
10.15.2	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	4	R	R
10.15.3	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
10.16	<u>WORKSHOP MAIN ENTRANCE</u>				
10.16.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	2	R	R
10.16.2	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	4	R	R
10.16.3	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
10.17	<u>CHLORINE DRUM ROOM</u>				
10.17.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	2	R	R
10.17.2	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	4	R	R
10.17.3	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
10.18	<u>CHLORINE EQUIPMENT ROOM</u>				
10.18.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	2	R	R
10.18.2	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	4	R	R
10.18.3	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
TOTAL CARRIED FORWARD					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
TOTAL BROUGHT DOWN					R
10.19	CHLORINE BUILDING DOOR				
10.19.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	2	R	R
10.19.2	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	4	R	R
10.19.3	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
10.20	NEW CHLORINE TANKER ROOM				
10.20.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	4	R	R
10.20.2	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	8	R	R
10.20.3	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	300	R	R
	MILLS FALL PUMP STATION CCTV SYSTEM				
10.21	MAIN ENTRANCE DOOR				
10.21.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	2	R	R
10.21.2	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	4	R	R
10.21.3	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
10.22	EXTERNAL DOOR TO MCC				
10.22.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	2	R	R
10.22.2	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	4	R	R
10.22.3	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
	AREA WEST OFFICE CCTV SYSTEM				
10.23	MAIN ACCESS DOOR				
10.23..1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	2	R	R
10.23.2	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	4	R	R
10.24	SMALL PEDESTRIAN GATE				
10.24.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	2	R	R
10.24.2	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	4	R	R
10.25	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT AREA WEST OFFICE	M	300	R	R
	TOTAL CARRIED FORWARD				R

C2.26

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
	TOTAL BROUGHT DOWN				R
10.26	ALL EMERGENCY DOORS TO BE ACTIVATED ON ALARM	SUM	1	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE ONE (1) 2021/2022

ITEM NUMBER	ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	RATE	AMOUNT PER ITEM (EXCL VAT)
11	MIDMAR DAM ACCESS CONTROL SYSTEM				
	<u>SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:</u>				
11.1	GOOSE NECK AT ENTRANCE	NO.	2		R
11.2	SITE AND BUILDING ACCESS CONTROL SERVER WITH UPS, RACK WITH ALL RELATED PERIPHERALS	SUM	1		R
11.3	WEATHERPROOF CARD READERS	NO.	16		
11.4	DOOR CONTROL UNITS	NO.	8		R
11.5	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	8		R
11.6	INDUSTRIAL PUSH BUTTONS	NO.	3		R
11.7	VIDEO INTERCOMS	NO.	1		R
11.8	LIGHTNING PROTECTION FOR ALL EQUIPMENT	SUM	1		R
11.9	CLIENT INTEGRATED SOFTWARE FOR OPERATORS	SUM	1		R
11.10	ENROLMENT READER AND CLIENT PERSONAL COMPUTERS PER SITE	SUM	1		R
11.11	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	72		R
11.12	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1		R
11.13	ALL EMERGENCY DOORS TO BE ACTIVATED ON ALARM	SUM	1		
11.14	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	950		R
	SUB-TOTAL CARRIED TO FINAL SUMMARY				R

PHASE ONE (1) 2021/2022

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
12	HOWICK WWW ACCESS CONTROL SYSTEM				
	<u>SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:</u>				
125.1	GOOSE NECK AT ENTRANCE	NO.	2	R	R
12.2	WEATHERPROOF CARD READERS	NO.	16	R	R
12.3	DOOR CONTROL UNITS	NO.	8	R	R
12.4	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	8	R	R
12.5	INDUSTRIAL PUSH BUTTONS	NO.	3	R	R
12.6	VIDEO INTERCOMS	NO.	1		
12.7	LIGHTNING PROTECTION FOR ALL EQUIPMENT	SUM	1	R	R
12.8	CLIENT INTEGRATED SOFTWARE FOR OPERATORS	SUM	1	R	R
12.9	ENROLMENT READER AND CLIENT PERSONAL COMPUTERS PER SITE	SUM	1	R	R
12.10	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	258	R	R
12.11	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
12.12	<u>4 PUMP STATION</u>				
12.12.1	WEATHERPROOF CARD READERS	NO.	8	R	R
12.12.2	DOOR CONTROL UNITS	NO.	4	R	R
12.12.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	4	R	R
12.13	<u>CHANGE AND CHEMICAL HOUSE</u>				
12.13.1	WEATHERPROOF CARD READERS	NO.	6	R	R
12.13.2	DOOR CONTROL UNITS	NO.	3	R	R
12.13.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	3	R	R
12.14	<u>CHLORINE ROOM</u>				
12.14.1	WEATHERPROOF CARD READERS	NO.	2	R	R
12.14.2	DOOR CONTROL UNITS	NO.	1	R	R
12.14.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
12.15	<u>1 HAND HELD READERS</u>				
12.15.1	WEATHERPROOF CARD READERS	NO.	1	R	R
TOTAL CARRIED FORWARD					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
TOTAL BROUGHT DOWN					R
12.16	<u>ADMIN BUILDING</u>				
12.16.1	WEATHERPROOF CARD READERS	NO.	8	R	R
12.16.2	DOOR CONTROL UNITS	NO.	4	R	R
12.16.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	4	R	R
	HOWICK PUMP STATIONS				
12.17	<u>MPOPHOMENI</u>				
12.17.1	WEATHERPROOF CARD READERS	NO.	12	R	R
12.17.2	DOOR CONTROL UNITS	NO.	6	R	R
12.17.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	6	R	R
12.18	<u>HOWICK WEST</u>				
12.18.1	WEATHERPROOF CARD READERS	NO.	2	R	R
12.18.2	DOOR CONTROL UNITS	NO.	1	R	R
12.18.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
12.19	<u>KWAMEVANA</u>				
12.19.1	WEATHERPROOF CARD READERS	NO.	2	R	R
12.19.2	DOOR CONTROL UNITS	NO.	1	R	R
12.19.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
12.20	<u>YORK ROAD</u>				
12.20.1	WEATHERPROOF CARD READERS	NO.	2	R	R
12.20.2	DOOR CONTROL UNITS	NO.	1	R	R
12.20.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
12.21	<u>AMBER GLEN</u>				
12.21.1	WEATHERPROOF CARD READERS	NO.	2	R	R
12.21.2	DOOR CONTROL UNITS	NO.	1	R	R
12.21.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
12.22	<u>BRIDGE</u>				
12.22.1	WEATHERPROOF CARD READERS	NO.	2	R	R
12.22.2	DOOR CONTROL UNITS	NO.	1	R	R
12.22.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
12.23	<u>1 MAKOPANE HAND HELD READERS</u>				
12.23.1	WEATHERPROOF CARD READERS	NO.	1	R	R
TOTAL CARRIED FORWARD					R

C2.30

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
TOTAL BROUGHT DOWN					R
12.25	ALL EMERGENCY DOORS TO BE ACTIVATED ON ALARM	SUM	1	R	R
12.26	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	300	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE ONE (1) 2021/2022

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
13	HOWICK WWW CCTV SYSTEM				
	<u>SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:</u>				
13.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	1	R	R
13.2	WEATHERPROOF IP POE CAMERA	NO.	3	R	R
13.3	SERVER COMPLETE WITH NVR, UPS STORAGE, RACK AND ALL OTHER ACCESSORIES REQUIRED	NO.	1	R	R
13.4	CCTV SERVER SOFTWARE	SUM	1	R	R
13.5	CCTV CLIENT SOFTWARE FOR OPERATOR PERSONAL COMPUTERS	SUM	1	R	R
13.6	SOFTWARE PROGRAMMING AND CONFIGURATION	SUM	1	R	R
13.7	LIGHTNING PROTECTION FOR CCTV SYSTEM	SUM	1	R	R
13.8	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
13.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	8	R	R
13.10	CCTV MONITOR	NO.	2	R	R
13.11	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	300	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE ONE (1) 2021/2022

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
14	MPOPHEMENI WWW ACCESS CONTROL SYSTEM				
	<u>SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:</u>				
14.1	GOOSE NECK AT ENTRANCE	NO.	2	R	R
14.2	WEATHERPROOF CARD READERS	NO.	16	R	R
14.3	DOOR CONTROL UNITS	NO.	8	R	R
14.4	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	8	R	R
14.5	INDUSTRIAL PUSH BUTTONS	NO.	3	R	R
14.6	VIDEO INTERCOMS	NO.	1	R	R
14.7	LIGHTNING PROTECTION FOR ALL EQUIPMENT	SUM	1	R	R
14.8	CLIENT INTEGRATED SOFTWARE FOR OPERATORS	SUM	1	R	R
14.9	ENROLMENT READER AND CLIENT PERSONAL COMPUTERS PER SITE	SUM	1	R	R
14.10	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	72	R	R
14.11	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
14.12	ALL EMERGENCY DOORS TO BE ACTIVATED ON ALARM	SUM	1	R	R
14.13	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	150	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
15	MPOPHOMENI WWW CCTV SYSTEM				
	<u>SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:</u>				
15.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	1	R	R
15.2	WEATHERPROOF IP POE CAMERA	NO.	5	R	R
15.3	SERVER COMPLETE WITH NVR, UPS STORAGE, RACK AND ALL OTHER ACCESSORIES REQUIRED	NO.	1	R	R
15.4	CCTV SERVER SOFTWARE	SUM	1	R	R
15.5	CCTV CLIENT SOFTWARE FOR OPERATOR PERSONAL COMPUTERS	SUM	1	R	R
15.6	SOFTWARE PROGRAMMING AND CONFIGURATION	SUM	1	R	R
15.7	LIGHTNING PROTECTION FOR CCTV SYSTEM	SUM	1	R	R
15.8	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
15.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	12	R	R
15.10	CCTV MONITOR	NO.	2	R	R
15.11	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	150	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE ONE (1) 2021/2022

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
16	APPELSBOSCH WTW ACCESS CONTROL SYSTEM				
	<u>SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:</u>				
16.1	GOOSE NECK AT ENTRANCE	NO.	2	R	R
16.2	WEATHERPROOF CARD READERS	NO.	16	R	R
16.3	DOOR CONTROL UNITS	NO.	8	R	R
16.4	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	8	R	R
16.5	INDUSTRIAL PUSH BUTTONS	NO.	3	R	R
16.6	VIDEO INTERCOM	NO.	1	R	R
16.7	LIGHTNING PROTECTION FOR ALL EQUIPMENT	SUM	1	R	R
16.8	CLIENT INTEGRATED SOFTWARE FOR OPERATORS	SUM	1	R	R
16.9	ENROLMENT READER AND CLIENT PERSONAL COMPUTERS PER SITE	SUM	1	R	R
16.10	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	72	R	R
16.11	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
16.12	ALL EMERGENCY DOORS TO BE ACTIVATED ON ALARM	SUM	1	R	R
16.13	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE ONE (1) 2021/2022

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
17	APPELSBOSCH WTW CCTV SYSTEM				
	<u>SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:</u>				
17.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	1	R	R
17.2	WEATHERPROOF IP POE CAMERA	NO.	5	R	R
17.3	SERVER COMPLETE WITH NVR, UPS STORAGE, RACK AND ALL OTHER ACCESSORIES REQUIRED	NO.	1	R	R
17.4	CCTV SERVER SOFTWARE	SUM	1	R	R
17.5	CCTV CLIENT SOFTWARE FOR OPERATOR PERSONAL COMPUTERS	SUM	1	R	R
17.6	SOFTWARE PROGRAMMING AND CONFIGURATION	SUM	1	R	R
17.7	LIGHTNING PROTECTION FOR CCTV SYSTEM	SUM	1	R	R
17.8	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
17.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	12	R	R
17.10	CCTV MONITOR	NO.	2	R	R
17.11	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE ONE (1) 2021/2022

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
18	LYNNFIELD PARK ACCESS CONTROL SYSTEM				
	<u>SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:</u>				
18.1	GOOSE NECK AT ENTRANCE	NO.	2	R	R
18.2	WEATHERPROOF CARD READERS	NO.	2	R	R
18.3	DOOR CONTROL UNITS	NO.	8	R	R
18.4	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	8	R	R
18.5	INDUSTRIAL PUSH BUTTONS	NO.	3	R	R
18.6	VIDEO INTERCOMS	NO.	1	R	R
18.7	LIGHTNING PROTECTION FOR ALL EQUIPMENT	SUM	1	R	R
18.8	CLIENT INTEGRATED SOFTWARE FOR OPERATORS	SUM	1	R	R
18.9	ENROLMENT READER AND CLIENT PERSONAL COMPUTERS PER SITE	SUM	1	R	R
18.10	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	52	R	R
18.11	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
18.12	MAIN GATE	NO.	2	R	R
18.13	CONTROL ROOM	NO.	2	R	R
18.14	ALL EMERGENCY DOORS TO BE ACTIVATED ON ALARM	SUM	1	R	R
18.15	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE ONE (1) 2021/2022

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
19	LYNNFIELD PARK CCTV SYSTEM				
	<u>SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:</u>				
19.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	1	R	R
19.2	WEATHERPROOF IP POE CAMERA	NO.	2	R	R
19.3	SERVER COMPLETE WITH NVR, UPS STORAGE, RACK AND ALL OTHER ACCESSORIES REQUIRED	NO.	1	R	R
19.4	CCTV SERVER SOFTWARE	SUM	1	R	R
19.5	CCTV CLIENT SOFTWARE FOR OPERATOR PERSONAL COMPUTERS	SUM	1	R	R
19.6	SOFTWARE PROGRAMMING AND CONFIGURATION	SUM	1	R	R
19.7	LIGHTNING PROTECTION FOR CCTV SYSTEM	SUM	1	R	R
19.8	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
19.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	6	R	R
19.10	CCTV MONITOR	NO.	2	R	R
19.11	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE ONE (1) 2021/2022

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
20	JABU NDLOVU - CCTV SYSTEM				
	<u>SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:</u>				
20.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	9	R	R
20.2	WEATHERPROOF IP POE CAMERA	NO.	9	R	R
20.3	SERVER COMPLETE WITH NVR, UPS STORAGE, RACK AND ALL OTHER ACCESSORIES REQUIRED	NO.	1	R	R
20.4	CCTV SERVER SOFTWARE	SUM	1	R	R
20.5	CCTV CLIENT SOFTWARE FOR OPERATOR PERSONAL COMPUTERS	SUM	1	R	R
20.6	SOFTWARE PROGRAMMING AND CONFIGURATION	SUM	1	R	R
20.7	LIGHTNING PROTECTION FOR CCTV SYSTEM	SUM	1	R	R
20.8	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
20.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	36	R	R
20.10	CCTV MONITOR	NO.	2	R	R
20.11	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	500	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE ONE (1) 2021/2022

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
21	DURBAN HEIGHTS WTW ACCESS CONTROL SYSTEM				
	<u>SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:</u>				
21.1	GOOSE NECK AT ENTRANCE	NO.	2	R	R
21.2	SITE AND BUILDING ACCESS CONTROL SERVER WITH UPS, RACK WITH ALL RELATED PERIPHERALS	SUM	1	R	R
21.3	WEATHERPROOF CARD READERS	NO.	16	R	R
21.4	DOOR CONTROL UNITS	NO.	8	R	R
21.5	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	8	R	R
21.6	INDUSTRIAL PUSH BUTTONS	NO.	3	R	R
21.7	VIDEO INTERCOMS	NO.	1	R	R
21.8	LIGHTNING PROTECTION FOR ALL EQUIPMENT	SUM	1	R	R
21.9	CLIENT INTEGRATED SOFTWARE FOR OPERATORS	SUM	1	R	R
21.10	ENROLMENT READER AND CLIENT PERSONAL COMPUTERS PER SITE	SUM	1	R	R
21.11	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	622	R	R
21.12	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
21.13	<u>ALL ENTRANCES TO CHLORINE HOUSE</u>				
21.13.1	WEATHERPROOF CARD READERS	NO.	10	R	R
21.13.2	DOOR CONTROL UNITS	NO.	5	R	R
21.13.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	5	R	R
21.14	<u>MAIN ENTRANCE TO SLUDGE PLANT</u>				
21.14.1	WEATHERPROOF CARD READERS	NO.	2	R	R
21.14.2	DOOR CONTROL UNITS	NO.	1	R	R
21.14.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
21.15	<u>MAIN ENTRANCE TO PPE ROOM</u>				
21.15.1	WEATHERPROOF CARD READERS	NO.	2	R	R
21.15.2	DOOR CONTROL UNITS	NO.	1	R	R
21.15.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
21.16	<u>ENTRANCE TO LABORATORY IN ADMIN BUILDING</u>				
21.16.1	WEATHERPROOF CARD READERS	NO.	2	R	R
TOTAL CARRIED FORWARD					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
TOTAL BROUGHT DOWN					R
21.16.2	DOOR CONTROL UNITS	NO.	1	R	R
21.16.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
21.17	<u>MAIN ENTRANCE TO WET CHAMBER</u>				
21.17.1	WEATHERPROOF CARD READERS	NO.	2	R	R
21.17.2	DOOR CONTROL UNITS	NO.	1	R	R
21.17.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
21.18	<u>MAIN ENTRANCE TO KWA DABEKA PUMP STATION</u>				
21.18.1	WEATHERPROOF CARD READERS	NO.	2	R	R
21.18.2	DOOR CONTROL UNITS	NO.	1	R	R
21.18.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
21.19	<u>MAIN ENTRANCE TO PINETOWN PUMP STATION</u>				
21.19.1	WEATHERPROOF CARD READERS	NO.	8	R	R
21.19.2	DOOR CONTROL UNITS	NO.	4	R	R
21.19.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	4	R	R
21.20	<u>MAIN ENTRANCE TO BOOSTER PUMP STATION</u>				
21.20.1	WEATHERPROOF CARD READERS	NO.	2	R	R
21.20.2	DOOR CONTROL UNITS	NO.	1	R	R
21.20.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
21.21	<u>ALL SUBSTATIONS</u>				
21.21.1	WEATHERPROOF CARD READERS	NO.	18	R	R
21.21.2	DOOR CONTROL UNITS	NO.	20	R	R
21.21.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	20	R	R
21.22	<u>CHEMICAL HOUSE</u>				
21.22.1	WEATHERPROOF CARD READERS	NO.	10	R	R
21.22.2	DOOR CONTROL UNITS	NO.	5	R	R
21.22.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	5	R	R
21.23	<u>HANDY MAN WORKSHOP</u>				
21.23.1	WEATHERPROOF CARD READERS	NO.	4	R	R
21.23.2	DOOR CONTROL UNITS	NO.	2	R	R
21.23.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	2	R	R
TOTAL CARRIED FORWARD					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
TOTAL BROUGHT DOWN					R
21.24	<u>MAIN ENTRANCE TO WORKSHOPS</u>				
21.24.1	WEATHERPROOF CARD READERS	NO.	6	R	R
21.24.2	DOOR CONTROL UNITS	NO.	3	R	R
21.24.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	3	R	R
21.25	<u>ENTRANCE TO WEIGHBRIDGE ROOM</u>				
21.25.1	WEATHERPROOF CARD READERS	NO.	2	R	R
21.25.2	DOOR CONTROL UNITS	NO.	1	R	R
21.25.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
21.26	<u>ENTRANCE TO COMPUTER ROOM IN THE TRAINING CENTRE</u>				
21.26.1	WEATHERPROOF CARD READERS	NO.	2	R	R
21.26.2	DOOR CONTROL UNITS	NO.	1	R	R
21.26.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
21.27	<u>SECURITY PATROL CHECK POINTS AROUND THE WTW</u>				
21.27.1	WEATHERPROOF CARD READERS	NO.	15	R	R
21.28	<u>ENTRANCE TO SECURITY OFFICE</u>				
21.28.1	WEATHERPROOF CARD READERS	NO.	2	R	R
21.28.2	DOOR CONTROL UNITS	NO.	1	R	R
21.28.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
21.29	<u>SHAFT LIFT</u>				
21.29.1	WEATHERPROOF CARD READERS	NO.	2	R	R
21.29.2	DOOR CONTROL UNITS	NO.	1	R	R
21.29.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
21.30	<u>SHAFT MOTOR ROOM</u>				
21.30.1	WEATHERPROOF CARD READERS	NO.	2	R	R
21.30.2	DOOR CONTROL UNITS	NO.	1	R	R
21.30.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
21.31	<u>SHAFT PUMP CONTROL ROOM</u>				
21.31.1	WEATHERPROOF CARD READERS	NO.	2	R	R
21.31.2	DOOR CONTROL UNITS	NO.	1	R	R
21.31.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
TOTAL CARRIED FORWARD					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
TOTAL BROUGHT DOWN					R
21.32	STORES				
21.32.1	WEATHERPROOF CARD READERS	NO.	6	R	R
21.32.2	DOOR CONTROL UNITS	NO.	3	R	R
21.32.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	3	R	R
21.33	FLAMMABLE STORES				
21.33.1	WEATHERPROOF CARD READERS	NO.	2	R	R
21.33.2	DOOR CONTROL UNITS	NO.	1	R	R
21.33.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
21.34	RECEPTIONIST				
21.34.1	WEATHERPROOF CARD READERS	NO.	2	R	R
21.34.2	DOOR CONTROL UNITS	NO.	1	R	R
21.34.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
21.35	GENERATOR ROOMS				
21.35.1	WEATHERPROOF CARD READERS	NO.	2	R	R
21.35.2	DOOR CONTROL UNITS	NO.	1	R	R
21.35.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
21.36	FIRST AID ROOM				
21.36.1	WEATHERPROOF CARD READERS	NO.	2	R	R
21.36.2	DOOR CONTROL UNITS	NO.	1	R	R
21.36.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
21.37	PEDESTRIAN GATE FROM VISITORS PARKING				
21.37.1	WEATHERPROOF CARD READERS	NO.	2	R	R
21.37.2	DOOR CONTROL UNITS	NO.	1	R	R
21.37.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
21.38	MAIN GATE TO VISITORS PARKING				
21.38.1	WEATHERPROOF CARD READERS	NO.	2	R	R
21.38.2	DOOR CONTROL UNITS	NO.	1	R	R
21.38.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
21.17	MECHANICAL WORKSHOP DOWNSTAIRS				
21.17.1	WEATHERPROOF CARD READERS	NO.	2	R	R
21.17.2	DOOR CONTROL UNITS	NO.	1	R	R
21.17.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
TOTAL CARRIED FORWARD					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT VAT)	(EXCL
TOTAL BROUGHT DOWN						R
21.18	<u>CHEMICAL HOUSE MCC ROOM</u>					
21.18.1	WEATHERPROOF CARD READERS	NO.	2	R		R
21.18.2	DOOR CONTROL UNITS	NO.	1	R		R
21.18.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R		R
21.41	<u>ELECTRICAL WORKSHOP DOWNSTAIRS</u>					
21.41.1	WEATHERPROOF CARD READERS	NO.	2	R		R
21.41.2	DOOR CONTROL UNITS	NO.	1	R		R
21.41.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R		R
21.42	<u>CHLORINATOR ROOM</u>					
21.42.1	WEATHERPROOF CARD READERS	NO.	2	R		R
21.42.2	DOOR CONTROL UNITS	NO.	1	R		R
21.42.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R		R
21.43	<u>CONTROL ROOM</u>					
21.43.1	WEATHERPROOF CARD READERS	NO.	2	R		R
21.43.2	DOOR CONTROL UNITS	NO.	1	R		R
21.43.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R		R
21.44	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	950	R		R
SUB-TOTAL CARRIED TO FINAL SUMMARY						R

PHASE ONE (1) 2021/2022

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
22	DURBAN HEIGHTS WTW CCTV SYSTEM				
	<u>SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:</u>				
22.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	2	R	R
22.2	WEATHERPROOF IP POE CAMERA	NO.	3	R	R
22.3	SERVER COMPLETE WITH NVR, UPS STORAGE, RACK AND ALL OTHER ACCESSORIES REQUIRED	NO.	3	R	R
22.4	CCTV SERVER SOFTWARE	SUM	1	R	R
22.5	CCTV CLIENT SOFTWARE FOR OPERATOR PERSONAL COMPUTERS	SUM	1	R	R
22.6	SOFTWARE PROGRAMMING AND CONFIGURATION	SUM	1	R	R
22.7	LIGHTNING PROTECTION FOR CCTV SYSTEM	SUM	1	R	R
22.8	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
22.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	10	R	R
22.10	CCTV MONITOR	NO.	2	R	R
22.11	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	950	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE TWO (2) 2022/2023

TENDERERS TO TAKE NOTE THAT PHASE 1 (ONE) IS FOR 2021/2022 FINANCIAL YEAR ENDING IN JUNE 2022 AND PHASE 2 (TWO) IS FOR 2022/2023 FINANCIAL YEAR COMMENCING JULY 2022 AND ENDING 30 JUNE 2023. THEREFORE, TENDERERS ARE ADVISED TO CONSIDER THE PRICING BASED ON ANNUAL CPI FLUCTUATION. NO ADDITIONAL ESCALATION WILL BE ACCEPTED ON A LATER STAGE OVER AND ABOVE THE TENDERED RATES

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL. VAT)
23	MAPHUMULO WTW - ACCESS CONTROL SYSTEM				
	<u>SUPPLY, INSTALL AND COMMISSION THE FOLLOWING:</u>				
23.1	WEATHERPROOF CARD READERS	NO.	13	R	R
23.2	DOOR CONTROL UNITS	NO.	6	R	R
23.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	4	R	R
23.4	INDUSTRIAL PUSH BUTTONS	SUM	1	R	R
23.5	VIDEO INTERCOMS	SUM	1	R	R
23.6	LIGHTNING PROTECTION FOR ALL EQUIPMENT	SUM	1	R	R
23.7	CLIENT INTEGRATED SOFTWARE FOR OPERATORS	SUM	1	R	R
23.8	ENROLMENT READER AND CLIENT PERSONAL COMPUTERS PER SITE	SUM	1	R	R
23.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	50	R	R
23.10	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
23.11	ALL EMERGENCY DOORS TO BE ACTIVATED ON ALARM	SUM	1	R	R
23.12	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	300	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
24	MAPHUMULO WTW - CCTV SYSTEM				
	<u>SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:</u>				
24.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	1	R	R
24.2	WEATHERPROOF IP POE CAMERA	NO.	5	R	R
24.3	SERVER COMPLETE WITH NVR, UPS STORAGE, RACK AND ALL OTHER ACCESSORIES REQUIRED	NO.	1	R	R
24.4	CCTV SERVER SOFTWARE	SUM	1	R	R
24.5	CCTV CLIENT SOFTWARE FOR OPERATOR PERSONAL COMPUTERS	SUM	1	R	R
24.6	SOFTWARE PROGRAMMING AND CONFIGURATION	SUM	1	R	R
24.7	LIGHTNING PROTECTION FOR CCTV SYSTEM	SUM	1	R	R
24.8	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
24.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	12	R	R
24.10	CCTV MONITOR	NO.	2	R	R
24.11	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	300	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
25	UMHLALI REGIONAL OFFICE ACCESS CONTROL SYSTEM				
	<u>SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:</u>				
25.1	GOOSE NECK AT ENTRANCE	NO.	2	R	R
25.2	WEATHERPROOF CARD READERS	NO.	16	R	R
25.3	DOOR CONTROL UNITS	NO.	8	R	R
25.4	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	8	R	R
25.5	INDUSTRIAL PUSH BUTTONS	NO.	3	R	R
25.6	VIDEO INTERCOMS	NO.	1	R	R
25.7	LIGHTNING PROTECTION FOR ALL EQUIPMENT	SUM	1	R	R
25.8	CLIENT INTEGRATED SOFTWARE FOR OPERATORS	SUM	1	R	R
25.9	ENROLMENT READER AND CLIENT PERSONAL COMPUTERS PER SITE	SUM	1	R	R
25.10	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	72	R	R
25.11	SLIDING DOOR	SUM	1	R	R
25.12	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
25.13	ALL EMERGENCY DOORS TO BE ACTIVATED ON ALARM	SUM	1	R	R
25.14	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	500	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
26	UMHLALI REGIONAL OFFICE CCTV SYSTEM				
	<u>SUPPLY, INSTALL AND COMMISSION THE FOLLOWING:</u>				
26.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	1	R	R
26.2	WEATHERPROOF IP POE CAMERA	NO.	5	R	R
26.3	SERVER COMPLETE WITH NVR, UPS STORAGE, RACK AND ALL OTHER ACCESSORIES REQUIRED	NO.	1	R	R
26.4	CCTV SERVER SOFTWARE	SUM	1	R	R
26.5	CCTV CLIENT SOFTWARE FOR OPERATOR PERSONAL COMPUTERS.	SUM	1	R	R
26.6	SOFTWARE PROGRAMMING AND CONFIGURATION	SUM	1	R	R
26.7	LIGHTNING PROTECTION FOR CCTV SYSTEM	SUM	1	R	R
26.8	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
26.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	12	R	R
26.10	CCTV MONITOR	NO.	2	R	R
26.11	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	500	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
27	HAZELMERE DAM ACCESS CONTROL SYSTEM				
	SUPPLY, INSTALL AND COMMISSION THE FOLLOWING:				
27.1	GOOSE NECK AT ENTRANCE	NO.	2	R	R
27.2	WEATHERPROOF CARD READERS	NO.	3	R	R
27.3	DOOR CONTROL UNITS	NO.	8	R	R
27.4	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	8	R	R
27.5	INDUSTRIAL PUSH BUTTONS	NO.	3	R	R
27.6	VIDEO INTERCOMS	NO.	1	R	R
27.7	LIGHTNING PROTECTION FOR ALL EQUIPMENT	SUM	1	R	R
27.8	CLIENT INTEGRATED SOFTWARE FOR OPERATORS	SUM	1	R	R
27.9	ENROLMENT READER AND CLIENT PERSONAL COMPUTERS PER SITE	SUM	1	R	R
27.10	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	46	R	R
27.11	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
27.12	WEATHERPROOF CARD READER FOR SLIDING GATE.	NO.	1	R	R
27.13	ALL EMERGENCY DOORS TO BE ACTIVATED ON ALARM	SUM	1	R	R
27.14	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	750	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
28	HAZELMERE DAM CCTV SYSTEM				
	<u>SUPPLY, INSTALL AND COMMISSION THE FOLLOWING:</u>				
28.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	2	R	R
28.2	WEATHERPROOF IP POE CAMERA	NO.	2	R	R
28.3	SERVER COMPLETE WITH NVR, UPS STORAGE, RACK AND ALL OTHER ACCESSORIES REQUIRED	NO.	2	R	R
28.4	CCTV SERVER SOFTWARE	SUM	1	R	R
28.5	CCTV CLIENT SOFTWARE FOR OPERATOR PERSONAL COMPUTERS	SUM	1	R	R
28.6	SOFTWARE PROGRAMMING AND CONFIGURATION	SUM	1	R	R
28.7	LIGHTNING PROTECTION FOR CCTV SYSTEM	SUM	1	R	R
28.8	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
28.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	8	R	R
28.10	CCTV MONITOR	NO.	2	R	R
28.11	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	750	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
29	HAZELMERE WTW ACCESS CONTROL SYSTEM				
	<u>SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:</u>				
29.1	GOOSE NECK AT ENTRANCE	NO.	1	R	R
29.2	WEATHERPROOF CARD READERS	NO.	6	R	R
29.3	DOOR CONTROL UNITS	NO.	4	R	R
29.4	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
29.5	INDUSTRIAL PUSH BUTTONS	NO.	1	R	R
29.6	VIDEO INTERCOMS	NO.	1	R	R
29.7	LIGHTNING PROTECTION FOR ALL EQUIPMENT	SUM	1	R	R
29.8	CLIENT INTEGRATED SOFTWARE FOR OPERATORS	SUM	1	R	R
29.9	ENROLMENT READER AND CLIENT PERSONAL COMPUTERS PER SITE	SUM	1	R	R
29.10	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	28	R	R
29.11	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
29.12	ALL EMERGENCY DOORS TO BE ACTIVATED ON ALARM	SUM	1	R	R
29.13	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	300	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
30	HAZELMERE WTW CCTV SYSTEM				
	<u>SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:</u>				
30.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	1	R	R
30.2	WEATHERPROOF IP POE CAMERA	NO.	5	R	R
30.3	SERVER COMPLETE WITH NVR, UPS STORAGE, RACK AND ALL OTHER ACCESSORIES REQUIRED	NO.	1	R	R
30.4	CCTV SERVER SOFTWARE	SUM	1	R	R
30.5	CCTV CLIENT SOFTWARE FOR OPERATOR PERSONAL COMPUTERS	SUM	1	R	R
30.6	SOFTWARE PROGRAMMING AND CONFIGURATION	SUM	1	R	R
30.7	LIGHTNING PROTECTION FOR CCTV SYSTEM	SUM	1	R	R
30.8	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
30.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	12	R	R
30.10	CCTV MONITOR	NO.	2	R	R
30.11	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	300	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
31	AMANZIMTOTI WTW CCTV SYSTEM				
	<u>SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:</u>				
31.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	1	R	R
31.2	WEATHERPROOF IP POE CAMERA	NO.	5	R	R
31.3	SERVER COMPLETE WITH NVR, UPS STORAGE, RACK AND ALL OTHER ACCESSORIES REQUIRED	NO.	1	R	R
31.4	CCTV SERVER SOFTWARE	SUM	1	R	R
31.5	CCTV CLIENT SOFTWARE FOR OPERATOR PERSONAL COMPUTERS	SUM	1	R	R
31.6	SOFTWARE PROGRAMMING AND CONFIGURATION	SUM	1	R	R
31.7	LIGHTNING PROTECTION FOR CCTV SYSTEM	SUM	1	R	R
31.8	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
31.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	12	R	R
31.10	CCTV MONITOR	NO.	2	R	R
31.11	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	500	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
32	UMZINTO WTW ACCESS CONTROL SYSTEM				
	<u>SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:</u>				
31.1	GOOSE NECK AT ENTRANCE	NO.	1	R	R
32.2	WEATHERPROOF CARD READERS	NO.	6	R	R
32.3	DOOR CONTROL UNITS	NO.	4	R	R
32.4	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
32.5	INDUSTRIAL PUSH BUTTONS	NO.	1	R	R
32.6	VIDEO INTERCOMS	NO.	1	R	R
32.7	LIGHTNING PROTECTION FOR ALL EQUIPMENT	SUM	1	R	R
32.8	CLIENT INTEGRATED SOFTWARE FOR OPERATORS	SUM	1	R	R
32.9	ENROLMENT READER AND CLIENT PERSONAL COMPUTERS PER SITE	SUM	1	R	R
32.10	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	28	R	R
32.11	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
32.12	ALL EMERGENCY DOORS TO BE ACTIVATED ON ALARM	SUM	1	R	R
32.13	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	500	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
33	UMZINTO WTW CCTV SYSTEM				
	<u>SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:</u>				
33.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	1	R	R
33.2	WEATHERPROOF IP POE CAMERA	NO.	5	R	R
33.3	SERVER COMPLETE WITH NVR, UPS STORAGE, RACK AND ALL OTHER ACCESSORIES REQUIRED	NO.	1	R	R
33.4	CCTV SERVER SOFTWARE	SUM	1	R	R
33.5	CCTV CLIENT SOFTWARE FOR OPERATOR PERSONAL COMPUTERS	SUM	1	R	R
33.6	SOFTWARE PROGRAMMING AND CONFIGURATION	SUM	1	R	R
33.7	LIGHTNING PROTECTION FOR CCTV SYSTEM	SUM	1	R	R
33.8	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM.	SUM	1	R	R
33.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	12	R	R
33.10	CCTV MONITOR	NO.	2	R	R
33.11	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	500	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
34	UMTVALUME WTW ACCESS CONTROL SYSTEM				
	<u>SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:</u>				
34.1	GOOSE NECK AT ENTRANCE	NO.	1	R	R
34.2	WEATHERPROOF CARD READERS	NO.	6	R	R
34.3	DOOR CONTROL UNITS	NO.	4	R	R
34.4	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
34.5	INDUSTRIAL PUSH BUTTONS	NO.	1	R	R
34.6	VIDEO INTERCOMS	NO.	1	R	R
34.7	LIGHTNING PROTECTION FOR ALL EQUIPMENT	SUM	1	R	R
34.8	CLIENT INTEGRATED SOFTWARE FOR OPERATORS	SUM	1	R	R
34.9	ENROLMENT READER AND CLIENT PERSONAL COMPUTERS PER SITE	SUM	1	R	R
34.10	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	26	R	R
34.11	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
34.12	ALL EMERGENCY DOORS TO BE ACTIVATED ON ALARM	SUM	1	R	R
34.13	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	300	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
35	UMTUALUME WTW CCTV SYSTEM				
	<u>SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:</u>				
35.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	1	R	R
35.2	WEATHERPROOF IP POE CAMERA	NO.	5	R	R
35.3	SERVER COMPLETE WITH NVR, UPS STORAGE, RACK AND ALL OTHER ACCESSORIES REQUIRED	NO.	1	R	R
35.4	CCTV SERVER SOFTWARE	SUM	1	R	R
35.5	CCTV CLIENT SOFTWARE FOR OPERATOR PERSONAL COMPUTERS	SUM	1	R	R
35.6	SOFTWARE PROGRAMMING AND CONFIGURATION	SUM	1	R	R
35.7	LIGHTNING PROTECTION FOR CCTV SYSTEM	SUM	1	R	R
35.8	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
35.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	12	R	R
35.10	CCTV MONITOR	NO.	2	R	R
35.11	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	300	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
36	CRAIGIEBURNE WTW ACCESS CONTROL SYSTEM				
	<u>SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:</u>				
36.1	GOOSE NECK AT ENTRANCE	NO.	2	R	R
36.2	WEATHERPROOF CARD READERS	NO.	16	R	R
36.3	DOOR CONTROL UNITS	NO.	8	R	R
36.4	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	8	R	R
36.5	INDUSTRIAL PUSH BUTTONS	NO.	3	R	R
36.6	VIDEO INTERCOMS	NO.	1	R	R
36.7	LIGHTNING PROTECTION FOR ALL EQUIPMENT	SUM	1	R	R
36.8	CLIENT INTEGRATED SOFTWARE FOR OPERATORS	SUM	1	R	R
36.9	ENROLMENT READER AND CLIENT PERSONAL COMPUTERS PER SITE	SUM	1	R	R
36.10	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	72	R	R
36.11	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
36.12	ALL EMERGENCY DOORS TO BE ACTIVATED ON ALARM	SUM	1	R	R
36.13	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	300	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
37	CRAIGIEBURNE WTW CCTV SYSTEM				
	<u>SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:</u>				
37.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	1	R	R
37.2	WEATHERPROOF IP POE CAMERA	NO.	5	R	R
37.3	SERVER COMPLETE WITH NVR, UPS STORAGE, RACK AND ALL OTHER ACCESSORIES REQUIRED	NO.	1	R	R
37.4	CCTV SERVER SOFTWARE	SUM	1	R	R
37.5	CCTV CLIENT SOFTWARE FOR OPERATOR PERSONAL COMPUTERS	SUM	1	R	R
37.6	SOFTWARE PROGRAMMING AND CONFIGURATION	SUM	1	R	R
37.7	LIGHTNING PROTECTION FOR CCTV SYSTEM	SUM	1	R	R
37.8	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
37.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	12	R	R
37.10	CCTV MONITOR	NO.	2	R	R
37.11	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	300	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
38	MHLABATSHANE WTW ACCESS CONTROL SYSTEM				
	<u>SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:</u>				
38.1	GOOSE NECK AT ENTRANCE	NO.	2	R	R
38.2	WEATHERPROOF CARD READERS	NO.	16	R	R
38.3	DOOR CONTROL UNITS	NO.	8	R	R
38.4	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	8	R	R
38.5	INDUSTRIAL PUSH BUTTONS	NO.	3	R	R
38.6	VIDEO INTERCOMS	NO.	1	R	R
38.7	LIGHTNING PROTECTION FOR ALL EQUIPMENT	SUM	1	R	R
38.8	CLIENT INTEGRATED SOFTWARE FOR OPERATORS	SUM	1	R	R
38.9	ENROLMENT READER AND CLIENT PERSONAL COMPUTERS PER SITE	SUM	1	R	R
38.10	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	72	R	R
38.11	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
38.12	ALL EMERGENCY DOORS TO BE ACTIVATED ON ALARM	SUM	1	R	R
38.13	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	500	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
39	MHLABATSHANE WTW CCTV SYSTEM				
	<u>SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:</u>				
39.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	1	R	R
39.2	WEATHERPROOF IP POE CAMERA	NO.	5	R	R
39.3	SERVER COMPLETE WITH NVR, UPS STORAGE, RACK AND ALL OTHER ACCESSORIES REQUIRED	NO.	1	R	R
39.4	CCTV SERVER SOFTWARE	SUM	1	R	R
39.5	CCTV CLIENT SOFTWARE FOR OPERATOR PERSONAL COMPUTERS.	SUM	1	R	R
39.6	SOFTWARE PROGRAMMING AND CONFIGURATION	SUM	1	R	R
39.7	LIGHTNING PROTECTION FOR CCTV SYSTEM	SUM	1	R	R
39.8	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
39.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	12	R	R
39.10	CCTV MONITOR	NO.	2	R	R
39.11	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	500	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
40	IXOPO WTW ACCESS CONTROL SYSTEM				
	<u>SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:</u>				
40.1	GOOSE NECK AT ENTRANCE	NO.	2	R	R
40.2	WEATHERPROOF CARD READERS	NO.	16	R	R
40.3	DOOR CONTROL UNITS	NO.	8	R	R
40.4	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	8	R	R
40.5	INDUSTRIAL PUSH BUTTONS	NO.	3	R	R
40.6	VIDEO INTERCOMS	NO.	1	R	R
40.7	LIGHTNING PROTECTION FOR ALL EQUIPMENT	SUM	1	R	R
40.8	CLIENT INTEGRATED SOFTWARE FOR OPERATORS	SUM	1	R	R
40.9	ENROLMENT READER AND CLIENT PERSONAL COMPUTERS PER SITE	SUM	1	R	R
40.10	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	80	R	R
40.11	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
40.12	WEATHERPROOF CARD READER FOR THE MAIN GATE	NO.	2	R	R
40.13	WEATHERPROOF CARD READER FOR THE CONTROL ROOM	NO.	2	R	R
40.14	1 HAND HELD READERS	SUM	1	R	R
40.15	ALL EMERGENCY DOORS TO BE ACTIVATED ON ALARM	SUM	1	R	R
40.16	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	300	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
41	IXOPO WTW CCTV SYSTEM				
	<u>SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:</u>				
41.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	1	R	R
41.2	WEATHERPROOF IP POE CAMERA	NO.	3	R	R
41.3	SERVER COMPLETE WITH NVR, UPS STORAGE, RACK AND ALL OTHER ACCESSORIES REQUIRED	NO.	1	R	R
41.4	CCTV SERVER SOFTWARE	SUM	1	R	R
41.5	CCTV CLIENT SOFTWARE FOR OPERATOR PERSONAL COMPUTERS	SUM	1	R	R
41.6	SOFTWARE PROGRAMMING AND CONFIGURATION	SUM	1	R	R
41.7	LIGHTNING PROTECTION FOR CCTV SYSTEM	SUM	1	R	R
41.8	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
41.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	8	R	R
41.10	CCTV MONITOR	NO.	2	R	R
41.11	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	300	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
42	DARVILL WWW ACCESS CONTROL SYSTEM				
	<u>SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:</u>				
42.1	GOOSE NECK AT ENTRANCE	NO.	2	R	R
42.2	WEATHERPROOF CARD READERS	NO.	18	R	R
42.3	DOOR CONTROL UNITS	NO.	8	R	R
42.4	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	8	R	R
42.5	INDUSTRIAL PUSH BUTTONS	NO.	3	R	R
42.6	VIDEO INTERCOMS	NO.	1	R	R
42.7	LIGHTNING PROTECTION FOR ALL EQUIPMENT	SUM	1	R	R
42.8	CLIENT INTEGRATED SOFTWARE FOR OPERATORS	SUM	1	R	R
42.9	ENROLMENT READER AND CLIENT PERSONAL COMPUTERS PER SITE	SUM	1	R	R
42.10	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	118	R	R
42.11	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
42.12	ALL EMERGENCY DOORS TO BE ACTIVATED ON ALARM	SUM	1	R	R
42.13	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	750	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
43	DARVILL WWW CCTV SYSTEM				
	<u>SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:</u>				
43.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	1	R	R
43.2	WEATHERPROOF IP POE CAMERA	NO.	15	R	R
43.3	SERVER COMPLETE WITH NVR, UPS STORAGE, RACK AND ALL OTHER ACCESSORIES REQUIRED	NO.	1	R	R
43.4	CCTV SERVER SOFTWARE	SUM	1	R	R
43.5	CCTV CLIENT SOFTWARE FOR OPERATOR PERSONAL COMPUTERS	SUM	1	R	R
43.6	SOFTWARE PROGRAMMING AND CONFIGURATION	SUM	1	R	R
43.7	LIGHTNING PROTECTION FOR CCTV SYSTEM	SUM	1	R	R
43.8	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
43.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	32	R	R
43.10	CCTV MONITOR	NO.	2	R	R
43.11	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	750	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
44	D V HARRIS WTW - ACCESS CONTROL SYSTEM				
	<u>SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:</u>				
44.1	GOOSE NECK AT ENTRANCE	NO.	2	R	R
44.2	SITE AND BUILDING ACCESS CONTROL SERVER WITH UPS, RACK WITH ALL RELATED PERIPHERALS	SUM	1	R	R
44.3	WEATHERPROOF CARD READERS	NO.	36	R	R
44.4	DOOR CONTROL UNITS	NO.	18	R	R
44.5	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	18	R	R
44.6	INDUSTRIAL PUSH BUTTONS	NO.	6	R	R
44.7	VIDEO INTERCOMS	NO.	1	R	R
44.8	LIGHTNING PROTECTION FOR ALL EQUIPMENT	SUM	1	R	R
44.9	CLIENT INTEGRATED SOFTWARE FOR OPERATORS	SUM	1	R	R
44.10	ENROLMENT READER AND CLIENT PERSONAL COMPUTERS PER SITE	SUM	1	R	R
44.11	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	190	R	R
44.12	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
	TABLE MOUNTAIN PUMP STATION – ACCESS CONTROL SYSTEM				
44.13	WEATHERPROOF CARD READERS	NO.	2	R	R
44.14	DOOR CONTROL UNITS	NO.	1	R	R
44.15	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	WARTBURG PUMP STATION (NEW) – ACCESS CONTROL SYSTEM				
44.16	WEATHERPROOF CARD READERS	NO.	2	R	R
44.17	DOOR CONTROL UNITS	NO.	1	R	R
44.18	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	DINGLE PUMP STATION (NEW) – ACCESS CONTROL SYSTEM				
44.19	WEATHERPROOF CARD READERS	NO.	2	R	R
44.20	DOOR CONTROL UNITS	NO.	1	R	R
44.21	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
TOTAL CARRIED FORWARD					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
TOTAL BROUGHT DOWN					R
	BRUYNS HILL PUMP STATION (NEW) – ACCESS CONTROL SYSTEM				
44.22	WEATHERPROOF CARD READERS	NO.	2	R	R
44.23	DOOR CONTROL UNITS	NO.	1	R	R
44.24	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
44.25	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	300	R	R
44.26	ALL EMERGENCY DOORS TO BE ACTIVATED ON ALARM	SUM	1	R	R
44.27	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
	SUB-TOTAL CARRIED TO FINAL SUMMARY				R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
45	D V HARRIS WTW CCTV SYSTEM				
	SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:				
45.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	1	R	R
45.2	WEATHERPROOF IP POE CAMERA	NO.	9	R	R
45.3	SERVER COMPLETE WITH NVR, UPS STORAGE, RACK AND ALL OTHER ACCESSORIES REQUIRED	NO.	1	R	R
45.4	CCTV SERVER SOFTWARE	SUM	1	R	R
45.5	CCTV CLIENT SOFTWARE FOR OPERATOR PERSONAL COMPUTERS	SUM	1	R	R
45.6	SOFTWARE PROGRAMMING AND CONFIGURATION	SUM	1	R	R
45.7	LIGHTNING PROTECTION FOR CCTV SYSTEM	SUM	1	R	R
45.8	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
45.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	20	R	R
45.10	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	300	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
46	INANDA DAM ACCESS CONTROL SYSTEM				
	SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:				
	MAIN ENTRANCE - SECURITY GUARDHOUSE				
46.1	MAIN ENTRANCE GATE				
46.1.1	WEATHERPROOF CARD READERS	NO.	2	R	R
46.1.2	DOOR CONTROL UNITS	NO.	1	R	R
46.1.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
46.2	NO. REQUIREMENT FOR A TURNSTILE				
46.2.1	WEATHERPROOF CARD READERS	NO.	2	R	R
46.2.2	DOOR CONTROL UNITS	NO.	1	R	R
46.2.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	ADMIN OFFICE				
46.3	MAIN ENTRANCE				
46.3.1	WEATHERPROOF CARD READERS	NO.	2	R	R
46.3.2	DOOR CONTROL UNITS	NO.	1	R	R
46.3.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	PUMP STATION				
46.4	ENTRANCE DOOR				
46.4.1	WEATHERPROOF CARD READERS	NO.	2	R	R
46.4.2	DOOR CONTROL UNITS	NO.	1	R	R
46.4.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	PUMP STATION TRANSFORMER ROOM				
46.5	ENTRANCE DOOR				
46.5.1	WEATHERPROOF CARD READERS	NO.	2	R	R
46.5.2	DOOR CONTROL UNITS	NO.	1	R	R
46.5.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	DAM WALL				
46.6	ENTRANCE DOOR				
46.6.1	WEATHERPROOF CARD READERS	NO.	2	R	R
46.6.2	DOOR CONTROL UNITS	NO.	1	R	R
46.6.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	VALVE HOUSE				
46.7	ENTRANCE DOOR				
46.7.1	WEATHERPROOF CARD READERS	NO.	2	R	R
TOTAL CARRIED FORWARD					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
TOTAL BROUGHT DOWN					R
46.7.2	DOOR CONTROL UNITS	NO.	1	R	R
46.7.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	FLAMMABLE STORE				
46.8	ENTRANCE DOOR				
46.8.1	WEATHERPROOF CARD READERS	NO.	2	R	R
46.8.2	DOOR CONTROL UNITS	NO.	1	R	R
46.8.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	STORE ROOMS 1/2/3				
46.9	ENTRANCE DOOR				
46.9.1	WEATHERPROOF CARD READERS	NO.	2	R	R
46.9.2	DOOR CONTROL UNITS	NO.	1	R	R
46.9.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	SECURITY CONTROL ROOM				
46.10	ENTRANCE DOOR				
46.10.1	WEATHERPROOF CARD READERS	NO.	2	R	R
46.10.2	DOOR CONTROL UNITS	NO.	1	R	R
46.10.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
46.11	ALL EMERGENCY DOORS TO BE ACTIVATED ON ALARM	SUM	1	R	R
46.12	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
46.13	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	80	R	R
46.14	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	500	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
47	INANDA DAM CCTV SYSTEM				
	SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:				
47.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	1	R	R
47.2	WEATHERPROOF IP POE CAMERA	NO.	5	R	R
47.3	SERVER COMPLETE WITH NVR, UPS STORAGE, RACK AND ALL OTHER ACCESSORIES REQUIRED	NO.	1	R	R
47.4	CCTV SERVER SOFTWARE	SUM	1	R	R
47.5	CCTV CLIENT SOFTWARE FOR OPERATOR PERSONAL COMPUTERS	SUM	1	R	R
47.6	SOFTWARE PROGRAMMING AND CONFIGURATION	SUM	1	R	R
47.7	LIGHTNING PROTECTION FOR CCTV SYSTEM	SUM	1	R	R
47.8	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
47.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	12	R	R
47.10	CCTV MONITOR	NO.	2	R	R
47.11	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	500	R	R
	SUB-TOTAL CARRIED TO FINAL SUMMARY				R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
48	MAPHEPHETWA WTW ACCESS CONTROL				
	SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:				
	MAIN ENTRANCE - SECURITY GUARDHOUSE				
48.1	GUARDHOUSE SITUATED AWAY FROM MAIN CONTROL BUILDING				
48.1.1	WEATHERPROOF CARD READERS	NO.	2	R	R
48.1.2	DOOR CONTROL UNITS	NO.	1	R	R
48.1.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
48.2	PUBLIC ROADWAY IS IN MIDDLE OF THE PLANT				
48.2.1	WEATHERPROOF CARD READERS	NO.	2	R	R
	ACCESS TO CONTROL BUILDING DRIVEWAY				
48.3	MAIN ENTRANCE GATE				
48.3.1	WEATHERPROOF CARD READERS	NO.	2	R	R
48.3.2	DOOR CONTROL UNITS	NO.	1	R	R
48.3.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	CONTROL BUILDING				
48.4	FRONT AND REAR DOORS				
48.4.1	WEATHERPROOF CARD READERS	NO.	2	R	R
48.4.2	DOOR CONTROL UNITS	NO.	1	R	R
48.4.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	CHLORINE BUILDING				
48.5	ENTRANCE DOORS				
48.5.1	WEATHERPROOF CARD READERS	NO.	2	R	R
48.5.2	DOOR CONTROL UNITS	NO.	1	R	R
48.5.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	CHEMICAL STORE ROOMS				
48.6	ENTRANCE DOORS				
48.6.1	WEATHERPROOF CARD READERS	NO.	2	R	R
48.6.2	DOOR CONTROL UNITS	NO.	1	R	R
48.6.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	LABORATORY				
	TOTAL CARRIED FORWARD				R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
	TOTAL BROUGHT DOWN				R
48.7	ENTRANCE DOOR				
48.7.1	WEATHERPROOF CARD READERS	NO.	2	R	R
48.7.2	DOOR CONTROL UNITS	NO.	1	R	R
48.7.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	LOWER LEVEL STORE ROOM				
48.8	ENTRANCE DOOR				
48.8.1	WEATHERPROOF CARD READERS	NO.	2	R	R
48.8.2	DOOR CONTROL UNITS	NO.	1	R	R
48.8.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	STANDBY GENERATOR ROOM				
48.9	ENTRANCE DOOR				
48.9.1	WEATHERPROOF CARD READERS	NO.	2	R	R
48.9.2	DOOR CONTROL UNITS	NO.	1	R	R
48.9.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	MALE AND FEMALE CHANGE ROOMS				
48.10	ENTRANCE DOORS				
48.10.1	WEATHERPROOF CARD READERS	NO.	2	R	R
48.10.2	DOOR CONTROL UNITS	NO.	1	R	R
48.10.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	ENTRANCE GATE TO CLARIFIERS				
48.11	ENTRANCE DOOR				
48.11.1	WEATHERPROOF CARD READERS	NO.	2	R	R
48.11.2	DOOR CONTROL UNITS	NO.	1	R	R
48.11.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	ACCESS TO SECURITY CONTROL ROOM DRIVEWAY				
48.12	MAIN ENTRANCE GATE				
48.12.1	WEATHERPROOF CARD READERS	NO.	2	R	R
48.12.2	DOOR CONTROL UNITS	NO.	1	R	R
48.12.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	TOTAL CARRIED FORWARD				R

C2.74

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
	TOTAL BROUGHT DOWN				R
	SECURITY CONTROL ROOM				
48.13	ENTRANCE DOOR				
48.13.1	WEATHERPROOF CARD READERS	NO.	2	R	R
48.13.2	DOOR CONTROL UNITS	NO.	1	R	R
48.13.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	FILTER BUILDING				
48.14	ENTRANCE DOORS				
48.14.1	WEATHERPROOF CARD READERS	NO.	2	R	R
48.14.2	DOOR CONTROL UNITS	NO.	1	R	R
48.14.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
48.15	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	108	R	R
48.16	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
48.17	ALL EMERGENCY DOORS TO BE ACTIVATED ON ALARM	SUM	1	R	R
48.18	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	500	R	R
	SUB-TOTAL CARRIED TO FINAL SUMMARY				R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
49	MAPHEPHETWA WTW CCTV SYSTEM				
	SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:				
49.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	1	R	R
49.2	WEATHERPROOF IP POE CAMERA	NO.	5	R	R
49.3	SERVER COMPLETE WITH NVR, UPS STORAGE, RACK AND ALL OTHER ACCESSORIES REQUIRED	NO.	1	R	R
49.4	CCTV SERVER SOFTWARE		1	R	R
49.5	CCTV CLIENT SOFTWARE FOR OPERATOR PERSONAL COMPUTERS	SUM	1	R	R
49.6	SOFTWARE PROGRAMMING AND CONFIGURATION	SUM	1	R	R
49.7	LIGHTNING PROTECTION FOR CCTV SYSTEM	SUM	1	R	R
49.8	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
49.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	12	R	R
49.10	CCTV MONITOR	NO.	2	R	R
49.11	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	500	R	R
	SUB-TOTAL CARRIED TO FINAL SUMMARY				R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
50	NAGLE DAM ACCESS CONTROL SYSTEM				
	SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:				
50.1	GOOSE NECK AT ENTRANCE	NO.	2	R	R
50.2	WEATHERPROOF CARD READERS	NO.	16	R	R
50.3	DOOR CONTROL UNITS	NO.	8	R	R
50.4	GREEN EMERGENCY (BREAK GLASS)UNITS	NO.	8	R	R
50.5	INDUSTRIAL PUSH BUTTONS	NO.	3	R	R
50.6	VIDEO INTERCOMS	NO.	1	R	R
50.7	LIGHTNING PROTECTION FOR ALL EQUIPMENT	SUM	1	R	R
50.8	CLIENT INTEGRATED SOFTWARE FOR OPERATORS	SUM	1	R	R
50.9	ENROLMENT READER AND CLIENT PERSONAL COMPUTERS PER SITE	SUM	1	R	R
50.10	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	102	R	R
50.11	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
	NAGLE DAM MAIN GATE				
50.12	PHASE 3				
50.12.1	WEATHERPROOF CARD READERS	NO.	3	R	R
	ALL SECURITY PATROL CHECKPOINTS AROUND THE DAM				
50.13	PHASE 4				
50.13.1	WEATHERPROOF CARD READERS	NO.	2	R	R
50.13.2	DOOR CONTROL UNITS	NO.	1	R	R
50.13.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	DOMESTIC PLANT				
50.14	PHASE 5				
50.14.1	WEATHERPROOF CARD READERS	NO.	2	R	R
50.14.2	DOOR CONTROL UNITS	NO.	1	R	R
50.14.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
TOTAL CARRIED FORWARD					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
TOTAL BROUGHT DOWN					R
	NEW INTAKE				
50.15	PHASE 3				
50.15.1	WEATHERPROOF CARD READERS	NO.	2	R	R
50.15.2	DOOR CONTROL UNITS	NO.	1	R	R
50.15.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
50.16	ALL EMERGENCY DOORS TO BE ACTIVATED ON ALARM	SUM	1	R	R
50.17	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	500	R	R
SUB-TOTAL TO FINAL SUMMARY					R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
51	NAGLE DAM CCTV SYSTEM				
	SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:				
51.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	2	R	R
51.2	WEATHERPROOF IP POE CAMERA	NO.	3	R	R
51.3	SERVER COMPLETE WITH NVR, UPS STORAGE, RACK AND ALL OTHER ACCESSORIES REQUIRED	NO.	3	R	R
51.4	CCTV SERVER SOFTWARE	SUM	1	R	R
51.5	CCTV CLIENT SOFTWARE FOR OPERATOR PERSONAL COMPUTERS	SUM	1	R	R
51.6	SOFTWARE PROGRAMMING AND CONFIGURATION	SUM	1	R	R
51.7	LIGHTNING PROTECTION FOR CCTV SYSTEM	SUM	1	R	R
51.8	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
51.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	10	R	R
51.10	CCTV MONITOR	NO.	2	R	R
51.11	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	500	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
52	HARRY GWALA				
	SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:				
	ALBERT FALLS DAM ACCESS CONTROL SYSTEM				
52.1	NORTH PACKAGE PLANT				
52.1.1	WEATHERPROOF CARD READERS	NO.	2	R	R
52.1.2	DOOR CONTROL UNITS	NO.	1	R	R
52.1.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
52.2	SOUTH PACKAGE PLANT				
52.2.1	WEATHERPROOF CARD READERS	NO.	2	R	R
52.2.2	DOOR CONTROL UNITS	NO.	1	R	R
52.2.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
52.2.4	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
	IXOPO WTW ACCESS CONTROL SYSTEM				
52.3	MAIN GATE				
52.3.1	WEATHERPROOF CARD READERS	NO.	2	R	R
52.3.2	DOOR CONTROL UNITS	NO.	1	R	R
52.3.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
52.4	CONTROL ROOM				
52.4.1	WEATHERPROOF CARD READERS	NO.	2	R	R
52.4.2	DOOR CONTROL UNITS	NO.	1	R	R
52.4.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
52.4.4	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
	IXOPO WWW ACCESS CONTROL SYSTEM				
52.5	MAIN GATE				
52.5.1	WEATHERPROOF CARD READERS	NO.	2	R	R
52.6	CONTROL ROOM				
52.6.1	WEATHERPROOF CARD READERS	NO.	2	R	R
52.6.2	DOOR CONTROL UNITS	NO.	1	R	R
52.6.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
52.6.4	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
TOTAL BROUGHT FORWARD					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
	TOTAL BROUGHT DOWN				R
	HOWICK WWW ACCESS CONTROL SYSTEM				
52.7	ADMIN BUILDING				
52.7.1	WEATHERPROOF CARD READERS	NO.	8	R	R
52.7.2	DOOR CONTROL UNITS	NO.	4	R	R
52.7.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	4	R	R
52.7.4	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
	HOWICK PUMP STATIONS ACCESS CONTROL SYSTEM				
52.8	MPOPHOMENI				
52.8.1	WEATHERPROOF CARD READERS	NO.	12	R	R
52.8.2	DOOR CONTROL UNITS	NO.	6	R	R
52.8.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	6	R	R
52.9	MAKOPANE				
52.9.1	WEATHERPROOF CARD READERS	NO.	1	R	R
52.10	KWAMEVANA				
52.10.1	WEATHERPROOF CARD READERS	NO.	2	R	R
52.10.2	DOOR CONTROL UNITS	NO.	1	R	R
52.10.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
52.11	YORK ROAD				
52.11.1	WEATHERPROOF CARD READERS	NO.	2	R	R
52.11.2	DOOR CONTROL UNITS	NO.	1	R	R
52.11.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
52.12	AMBER GLEN				
52.12.1	WEATHERPROOF CARD READERS	NO.	2	R	R
52.12.2	DOOR CONTROL UNITS	NO.	1	R	R
52.12.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
52.13	BRIDGE				
52.13.1	WEATHERPROOF CARD READERS	NO.	2	R	R
52.13.2	DOOR CONTROL UNITS	NO.	1	R	R
52.13.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
52.14	HOWICK WEST				
52.14.1	WEATHERPROOF CARD READERS	NO.	2	R	R
52.14.2	DOOR CONTROL UNITS	NO.	1	R	R
52.14.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
	TOTAL BROUGHT FORWARD				R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
TOTAL BROUGHT DOWN					R
52.14.4	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
	DARVILL WWW ACCESS CONTROL SYSTEM				
52.15	WEATHERPROOF CARD READERS	NO.	10	R	R
	LYNNFIELD PARK WWW ACCESS CONTROL SYSTEM				
52.16	MAIN GATE				
52.16.1	WEATHERPROOF CARD READERS	NO.	2	R	R
52.16.2	DOOR CONTROL UNITS	NO.	1	R	R
52.16.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
52.17	CONTROL ROOM				
52.17.1	WEATHERPROOF CARD READERS	NO.	2	R	R
52.17.2	DOOR CONTROL UNITS	NO.	1	R	R
52.17.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
52.18	ALL EMERGENCY DOORS TO BE ACTIVATED ON ALARM	SUM	1	R	R
52.19	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
52.20	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	262	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
53	HARRY GWALA				
	SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:				
	NO. OF CAMERAS				
53.2	HOWICK WWW CCTV SYSTEM				
53.2.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	3	R	R
53.2.2	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
53.3	IXOPO WTW CCTV SYSTEM				
53.3.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	2	R	R
53.3.2	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
53.4	IXOPO WWW CCTV SYSTEM				
53.4.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	3	R	R
53.4.2	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
53.5	LYNNFIELD PARK WWW CCTV SYSTEM				
53.5.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	2	R	R
53.5.2	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
53.6	DARVILL WWW CCTV SYSTEM				
53.6.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	15	R	R
53.6.2	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	500	R	R
53.7	CCTV MONITOR	NO.	2	R	R
53.8	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
53.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	50	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
54	SPRING GROVE DAM - ACCESS CONTROL SYSTEM				
	SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:				
54.1	WEATHERPROOF CARD READERS	NO.	13	R	R
54.2	DOOR CONTROL UNITS	NO.	6	R	R
54.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	4	R	R
54.4	INDUSTRIAL PUSH BUTTONS	SUM	1		
54.5	VIDEO INTERCOMS	SUM	1	R	R
54.6	LIGHTNING PROTECTION FOR ALL EQUIPMENT	SUM	1	R	R
54.7	CLIENT INTEGRATED SOFTWARE FOR OPERATORS	SUM	1	R	R
54.8	ENROLMENT READER AND CLIENT PERSONAL COMPUTERS PER SITE	SUM	1	R	R
54.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	98	R	R
54.10	MAIN ENTRANCE DOOR				
54.10.1	WEATHERPROOF CARD READERS	NO.	2	R	R
54.10.2	DOOR CONTROL UNITS	NO.	1	R	R
54.10.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
54.11	CCTV - TOP OF DAM WALL FACING DOWNSTREAM NEAR VALVE AREA				
54.11.1	WEATHERPROOF CARD READERS	NO.	2	R	R
54.11.2	DOOR CONTROL UNITS	NO.	1	R	R
54.11.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
54.11.4	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	300	R	R
	SPRING GROVE PUMP STATION				
54.12	MAIN ENTRANCE DOOR				
54.12.1	WEATHERPROOF CARD READERS	NO.	2	R	R
54.12.2	DOOR CONTROL UNITS	NO.	1	R	R
54.12.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
54.12.4	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	150	R	R
54.13	CONTROL ROOM DOOR				
54.13.1	WEATHERPROOF CARD READERS	NO.	2	R	R
54.13.2	DOOR CONTROL UNITS	NO.	1	R	R
TOTAL BROUGHT FORWARD					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
TOTAL BROUGHT DOWN					R
54.13.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
54.13.4	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	150	R	R
	BALGOWAN OUTLET CONTROL KIOSK				
54.14	MAIN ENTRANCE DOOR TO BOTH KIOSKS				
54.14.1	WEATHERPROOF CARD READERS	NO.	4	R	R
54.14.2	DOOR CONTROL UNITS	NO.	2	R	R
54.14.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	2	R	R
54.14.4	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	300	R	R
54.15	CCTV - FACING TOWARDS OUTLET DOWNSTREAM				
54.16	ALL EMERGENCY DOORS TO BE ACTIVATED ON ALARM	SUM	1	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
55	SPRING GROVE DAM - CCTV SYSTEM				
	SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:				
55.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	1	R	R
55.2	WEATHERPROOF IP POE CAMERA	NO.	5	R	R
55.3	SERVER COMPLETE WITH NVR, UPS STORAGE, RACK AND ALL OTHER ACCESSORIES REQUIRED	NO.	1	R	R
55.4	CCTV SERVER SOFTWARE	SUM	1	R	R
55.5	CCTV CLIENT SOFTWARE FOR OPERATOR PERSONAL COMPUTERS	SUM	1	R	R
55.6	SOFTWARE PROGRAMMING AND CONFIGURATION	SUM	1	R	R
55.7	LIGHTNING PROTECTION FOR CCTV SYSTEM	SUM	1	R	R
55.8	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
55.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	12	R	R
55.10	CCTV MONITOR	NO.	2	R	R
55.11	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	300	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
56	ROSETTA WTW - ACCESS CONTROL SYSTEM				
	SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:				
56.1	WEATHERPROOF CARD READERS	NO.	13	R	R
56.2	DOOR CONTROL UNITS	NO.	6	R	R
56.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	4	R	R
56.4	INDUSTRIAL PUSH BUTTONS	SUM	1	R	R
56.5	VIDEO INTERCOM	SUM	1	R	R
56.6	LIGHTNING PROTECTION FOR ALL EQUIPMENT	SUM	1	R	R
56.7	CLIENT INTEGRATED SOFTWARE FOR OPERATORS	SUM	1	R	R
56.8	ENROLMENT READER AND CLIENT PERSONAL COMPUTERS PER SITE	SUM	1	R	R
56.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	50	R	R
56.10	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
56.11	ALL EMERGENCY DOORS TO BE ACTIVATED ON ALARM	SUM	1	R	R
56.12	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	300	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
57	ROSETTA WTW - CCTV SYSTEM				
	SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:				
57.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	1	R	R
57.2	WEATHERPROOF IP POE CAMERA	NO.	5	R	R
57.3	SERVER COMPLETE WITH NVR, UPS STORAGE, RACK AND ALL OTHER ACCESSORIES REQUIRED	NO.	1	R	R
57.4	CCTV SERVER SOFTWARE	SUM	1	R	R
57.5	CCTV CLIENT SOFTWARE FOR OPERATOR PERSONAL COMPUTERS	SUM	1	R	R
57.6	SOFTWARE PROGRAMMING AND CONFIGURATION	SUM	1	R	R
57.7	LIGHTNING PROTECTION FOR CCTV SYSTEM	SUM	1	R	R
57.8	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
57.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	12	R	R
57.10	CCTV MONITOR	NO.	2	R	R
57.11	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	300	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
58	RICHMOND WTW - ACCESS CONTROL SYSTEM				
	SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:				
58.1	WEATHERPROOF CARD READERS	NO.	13	R	R
58.2	DOOR CONTROL UNITS	NO.	6	R	R
58.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	4	R	R
58.4	INDUSTRIAL PUSH BUTTONS	SUM	1		
58.5	VIDEO INTERCOMS	SUM	1	R	R
58.6	LIGHTNING PROTECTION FOR ALL EQUIPMENT	SUM	1	R	R
58.7	CLIENT INTEGRATED SOFTWARE FOR OPERATORS	SUM	1	R	R
58.8	ENROLMENT READER AND CLIENT PERSONAL COMPUTERS PER SITE	SUM	1	R	R
58.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	50	R	R
58.10	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
58.11	ALL EMERGENCY DOORS TO BE ACTIVATED ON ALARM	SUM	1	R	R
58.12	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
59	RICHMOND WTW - CCTV SYSTEM				
	SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:				
59.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	1	R	R
59.2	WEATHERPROOF IP POE CAMERA	NO.	5	R	R
59.3	SERVER COMPLETE WITH NVR, UPS STORAGE, RACK AND ALL OTHER ACCESSORIES REQUIRED	NO.	1	R	R
5.4	CCTV SERVER SOFTWARE	SUM	1	R	R
59.5	CCTV CLIENT SOFTWARE FOR OPERATOR PERSONAL COMPUTERS	SUM	1	R	R
59.6	SOFTWARE PROGRAMMING AND CONFIGURATION	SUM	1	R	R
59.7	LIGHTNING PROTECTION FOR CCTV SYSTEM	SUM	1	R	R
59.8	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
59.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	12	R	R
59.10	CCTV MONITOR	NO.	2	R	R
59.11	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
60	MPOFANA WTW- ACCESS CONTROL SYSTEM				
	SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:				
60.1	WEATHERPROOF CARD READERS	NO.	13	R	R
60.2	DOOR CONTROL UNITS	NO.	6	R	R
60.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	4	R	R
60.4	INDUSTRIAL PUSH BUTTONS	SUM	1	R	R
60.5	VIDEO INTERCOMS	SUM	1	R	R
60.6	LIGHTNING PROTECTION FOR ALL EQUIPMENT	SUM	1	R	R
60.7	CLIENT INTEGRATED SOFTWARE FOR OPERATORS	SUM	1	R	R
60.8	ENROLMENT READER AND CLIENT PERSONAL COMPUTERS PER SITE	SUM	1	R	R
60.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	50	R	R
60.10	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
60.11	ALL EMERGENCY DOORS TO BE ACTIVATED ON ALARM	SUM	1	R	R
60.12	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
61	MPOFANA WTW- CCTV SYSTEM				
	SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:				
61.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	1	R	R
61.2	WEATHERPROOF IP POE CAMERA	NO.	5	R	R
61.3	SERVER COMPLETE WITH NVR, UPS STORAGE, RACK AND ALL OTHER ACCESSORIES REQUIRED	NO.	1	R	R
61.4	CCTV SERVER SOFTWARE	SUM	1	R	R
61.5	CCTV CLIENT SOFTWARE FOR OPERATOR PERSONAL COMPUTERS	SUM	1	R	R
61.6	SOFTWARE PROGRAMMING AND CONFIGURATION	SUM	1	R	R
61.7	LIGHTNING PROTECTION FOR CCTV SYSTEM	SUM	1	R	R
61.8	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
61.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	12	R	R
61.10	CCTV MONITOR	NO.	2	R	R
61.11	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
62	MEARNS PUMP STATION- ACCESS CONTROL SYSTEM				
	SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:				
62.1	WEATHERPROOF CARD READERS	NO.	13	R	R
62.2	DOOR CONTROL UNITS	NO.	6	R	R
62.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	4	R	R
62.4	INDUSTRIAL PUSH BUTTONS	SUM	1	R	R
62.5	VIDEO INTERCOMS	SUM	1	R	R
62.6	LIGHTNING PROTECTION FOR ALL EQUIPMENT	SUM	1	R	R
62.7	CLIENT INTEGRATED SOFTWARE FOR OPERATORS	SUM	1	R	R
62.8	ENROLMENT READER AND CLIENT PERSONAL COMPUTERS PER SITE	SUM	1	R	R
62.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	58	R	R
62.10	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
62.11	WEATHERPROOF CARD READERS FOR THE PUMP STATION	NO.	2	R	R
62.12	WEATHERPROOF CARD READERS FOR THE MAIN OFFICE DOOR	NO.	2	R	R
62.13	ALL EMERGENCY DOORS TO BE ACTIVATED ON ALARM	SUM	1	R	R
62.14	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
63	MEARNS PUMP STATION - CCTV SYSTEM				
	SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:				
63.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	1	R	R
63.2	WEATHERPROOF IP POE CAMERA	NO.	5	R	R
63.3	SERVER COMPLETE WITH NVR, UPS STORAGE, RACK AND ALL OTHER ACCESSORIES REQUIRED	NO.	1	R	R
63.4	CCTV SERVER SOFTWARE	SUM	1	R	R
63.5	CCTV CLIENT SOFTWARE FOR OPERATOR PERSONAL COMPUTERS.	SUM	1	R	R
63.6	SOFTWARE PROGRAMMING AND CONFIGURATION	SUM	1	R	R
63.7	LIGHTNING PROTECTION FOR CCTV SYSTEM	SUM	1	R	R
63.8	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
63.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	12	R	R
63.10	CCTV MONITOR	NO.	2	R	R
63.11	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
64	LOWER THUKELA WTW- ACCESS CONTROL SYSTEM				
	SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:				
64.1	WEATHERPROOF CARD READERS	NO.	13	R	R
64.2	DOOR CONTROL UNITS	NO.	6	R	R
64.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	4	R	R
64.4	INDUSTRIAL PUSH BUTTONS	SUM	1	R	R
64.5	VIDEO INTERCOMS	SUM	1	R	R
64.6	LIGHTNING PROTECTION FOR ALL EQUIPMENT	SUM	1	R	R
64.7	CLIENT INTEGRATED SOFTWARE FOR OPERATORS	SUM	1	R	R
64.8	ENROLMENT READER AND CLIENT PERSONAL COMPUTERS PER SITE	SUM	1	R	R
64.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	50	R	R
64.10	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
64.11	ALL EMERGENCY DOORS TO BE ACTIVATED ON ALARM	SUM	1	R	R
64.12	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	950	R	R
	SUB-TOTAL CARRIED TO FINAL SUMMARY				R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
65	LOWER THUKELA WTW - CCTV SYSTEM				
	SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:				
65.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	1	R	R
65.2	WEATHERPROOF IP POE CAMERA	NO.	5	R	R
65.3	SERVER COMPLETE WITH NVR, UPS STORAGE, RACK AND ALL OTHER ACCESSORIES REQUIRED	NO.	1	R	R
65.4	CCTV SERVER SOFTWARE	SUM	1	R	R
65.5	CCTV CLIENT SOFTWARE FOR OPERATOR PERSONAL COMPUTERS	SUM	1	R	R
65.6	SOFTWARE PROGRAMMING AND CONFIGURATION	SUM	1	R	R
65.7	LIGHTNING PROTECTION FOR CCTV SYSTEM	SUM	1	R	R
65.8	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
65.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	12	R	R
65.10	CCTV MONITOR	NO.	2	R	R
65.11	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	950	R	R
	SUB-TOTAL CARRIED TO FINAL SUMMARY				R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
66	LIDGETTON WTW- ACCESS CONTROL SYSTEM				
	SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:				
66.1	WEATHERPROOF CARD READERS	NO.	13	R	R
66.2	DOOR CONTROL UNITS	NO.	6	R	R
66.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	4	R	R
66.4	INDUSTRIAL PUSH BUTTONS	SUM	1	R	R
66.5	VIDEO INTERCOMS	SUM	1	R	R
66.6	LIGHTNING PROTECTION FOR ALL EQUIPMENT	SUM	1	R	R
66.7	CLIENT INTEGRATED SOFTWARE FOR OPERATORS	SUM	1	R	R
66.8	ENROLMENT READER AND CLIENT PERSONAL COMPUTERS PER SITE	SUM	1	R	R
66.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	50	R	R
66.10	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
66.11	ALL EMERGENCY DOORS TO BE ACTIVATED ON ALARM	SUM	1	R	R
66.12	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
67	LIDGETTON WTW – CCTV SYSTEM				
	SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:				
67.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	1	R	R
67.2	WEATHERPROOF IP POE CAMERA	NO.	5	R	R
67.3	SERVER COMPLETE WITH NVR, UPS STORAGE, RACK AND ALL OTHER ACCESSORIES REQUIRED	NO.	1	R	R
67.4	CCTV SERVER SOFTWARE	SUM	1	R	R
67.5	CCTV CLIENT SOFTWARE FOR OPERATOR PERSONAL COMPUTERS	SUM	1	R	R
67.6	SOFTWARE PROGRAMMING AND CONFIGURATION	SUM	1	R	R
67.7	LIGHTNING PROTECTION FOR CCTV SYSTEM	SUM	1	R	R
67.8	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
67.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	12	R	R
67.10	CCTV MONITOR	NO.	2	R	R
67.11	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
68	HENLEY DAM – ACCESS CONTROL SYSTEM				
	SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:				
68.1	WEATHERPROOF CARD READERS	NO.	13	R	R
68.2	DOOR CONTROL UNITS	NO.	6	R	R
68.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	4	R	R
68.4	INDUSTRIAL PUSH BUTTONS	SUM	1	R	R
68.5	VIDEO INTERCOM	SUM	1	R	R
68.6	LIGHTNING PROTECTION FOR ALL EQUIPMENT	SUM	1	R	R
68.7	CLIENT INTEGRATED SOFTWARE FOR OPERATORS	SUM	1	R	R
68.8	ENROLMENT READER AND CLIENT PERSONAL COMPUTERS PER SITE	SUM	1	R	R
68.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	54	R	R
68.10	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
68.11	OFFICE DOOR	NO.	2	R	R
68.12	ONE (1) DAM WALL ACCESS DOOR	NO.	2	R	R
68.13	ALL EMERGENCY DOORS TO BE ACTIVATED ON ALARM	SUM	1	R	R
68.14	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
69	HENLEY DAM – CCTV SYSTEM				
	SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:				
69.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	1	R	R
69.2	WEATHERPROOF IP POE CAMERA	NO.	5	R	R
69.3	SERVER COMPLETE WITH NVR, UPS STORAGE, RACK AND ALL OTHER ACCESSORIES REQUIRED	NO.	1	R	R
69.4	CCTV SERVER SOFTWARE	SUM	1	R	R
69.5	CCTV CLIENT SOFTWARE FOR OPERATOR PERSONAL COMPUTERS	SUM	1	R	R
69.6	SOFTWARE PROGRAMMING AND CONFIGURATION	SUM	1	R	R
69.7	LIGHTNING PROTECTION FOR CCTV SYSTEM	SUM	1	R	R
69.8	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
69.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	12	R	R
69.10	CCTV MONITOR	NO.	2	R	R
69.11	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
70	PRINCE ALFRED – ACCESS CONTROL SYSTEM				
	SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:				
70.1	DOOR CONTROL UNITS	NO.	8	R	R
70.2	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	8	R	R
70.3	INDUSTRIAL PUSH BUTTONS	NO.	3	R	R
70.4	LIGHTNING PROTECTION FOR ALL EQUIPMENT	SUM	1	R	R
70.5	CLIENT INTEGRATED SOFTWARE FOR OPERATORS	SUM	1	R	R
70.6	ENROLMENT READER AND CLIENT PERSONAL COMPUTERS PER SITE	SUM	1	R	R
70.7	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	38	R	R
70.8	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
70.9	ALL EMERGENCY DOORS TO BE ACTIVATED ON ALARM	SUM	1	R	R
70.10	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	500	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
71	PRINCE ALFRED – CCTV SYSTEM				
	SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:				
71.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	9	R	R
71.2	WEATHERPROOF IP POE CAMERA	NO.	9	R	R
71.3	SERVER COMPLETE WITH NVR, UPS STORAGE, RACK AND ALL OTHER ACCESSORIES REQUIRED	NO.	1	R	R
71.4	CCTV SERVER SOFTWARE	SUM	1	R	R
71.5	CCTV CLIENT SOFTWARE FOR OPERATOR PERSONAL COMPUTERS	SUM	1	R	R
71.6	SOFTWARE PROGRAMMING AND CONFIGURATION	SUM	1	R	R
71.7	LIGHTNING PROTECTION FOR CCTV SYSTEM	SUM	1	R	R
71.8	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
71.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	36	R	R
71.10	CCTV MONITOR	NO.	2	R	R
71.11	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	500	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
72	JABU NDLOVU - ACCESS CONTROL SYSTEM				
	SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:				
72.1	WEATHERPROOF CARD READERS	NO.	10	R	R
72.2	DOOR CONTROL UNITS	NO.	10	R	R
72.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	10	R	R
72.4	INDUSTRIAL PUSH BUTTONS	NO.	4	R	R
72.5	VIDEO INTERCOMS	NO.	2	R	R
72.6	LIGHTNING PROTECTION FOR ALL EQUIPMENT	SUM	1	R	R
72.7	CLIENT INTEGRATED SOFTWARE FOR OPERATORS	SUM	1	R	R
72.8	ENROLMENT READER AND CLIENT PERSONAL COMPUTERS PER SITE	SUM	1	R	R
72.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	72	R	R
72.10	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
72.11	ALL EMERGENCY DOORS TO BE ACTIVATED ON ALARM	SUM	1	R	R
72.12	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	500	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
73	CAMPERDOWN WWW - ACCESS CONTROL SYSTEM				
	SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:				
73.1	WEATHERPROOF CARD READERS	NO.	2	R	R
73.2	DOOR CONTROL UNITS	NO.	6	R	R
73.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	4	R	R
73.4	INDUSTRIAL PUSH BUTTONS	SUM	1	R	R
73.5	VIDEO INTERCOMS	SUM	1	R	R
73.6	LIGHTNING PROTECTION FOR ALL EQUIPMENT	SUM	1	R	R
73.7	CLIENT INTEGRATED SOFTWARE FOR OPERATORS	SUM	1	R	R
73.8	ENROLMENT READER AND CLIENT PERSONAL COMPUTERS PER SITE	SUM	1	R	R
73.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	28	R	R
73.10	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
73.11	ALL EMERGENCY DOORS TO BE ACTIVATED ON ALARM	SUM	1	R	R
73.12	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
74	COOL AIR WWW- ACCESS CONTROL SYSTEM				
	SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:				
74.1	WEATHERPROOF CARD READERS	NO.	2	R	R
74.2	DOOR CONTROL UNITS	NO.	6	R	R
74.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	4	R	R
74.4	INDUSTRIAL PUSH BUTTONS	SUM	1	R	R
74.5	VIDEO INTERCOMS	SUM	1	R	R
74.6	LIGHTNING PROTECTION FOR ALL EQUIPMENT	SUM	1	R	R
74.7	CLIENT INTEGRATED SOFTWARE FOR OPERATORS	SUM	1	R	R
74.8	ENROLMENT READER AND CLIENT PERSONAL COMPUTERS PER SITE	SUM	1	R	R
74.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	28	R	R
74.10	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
74.11	ALL EMERGENCY DOORS TO BE ACTIVATED ON ALARM	SUM	1	R	R
74.12	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

PHASE TWO (2) 2022/2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
75	ALBERT FALLS DAM - ACCESS CONTROL SYSTEM				
	SUPPLY , INSTALL AND COMMISSION THE FOLLOWING:				
75.1	WEATHERPROOF CARD READERS	NO.	2	R	R
75.2	DOOR CONTROL UNITS	NO.	6	R	R
75.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	4	R	R
75.4	INDUSTRIAL PUSH BUTTONS	SUM	1	R	R
75.5	VIDEO INTERCOMS	SUM	1	R	R
75.6	LIGHTNING PROTECTION FOR ALL EQUIPMENT	SUM	1	R	R
75.7	CLIENT INTEGRATED SOFTWARE FOR OPERATORS	SUM	1	R	R
75.8	ENROLMENT READER AND CLIENT PERSONAL COMPUTERS PER SITE	SUM	1	R	R
75.9	SPECIFIED CABLING (UTP CATEGORY 6A) CONNECTORS	NO.	62	R	R
75.10	TRAINING AND COMMISSIONING OF TWO UMGENI WATER APPOINTED SITE PERSONNEL IN THE COMPLETE USE OF THE SYSTEM	SUM	1	R	R
75.11	ADMIN BUILDING				
75.11.1	WEATHERPROOF CARD READERS	NO.	2	R	R
75.11.2	DOOR CONTROL UNITS	NO.	1	R	R
75.11.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
75.12	BOTTOM OF DAM WALL				
75.12.1	WEATHERPROOF CARD READERS	NO.	2	R	R
75.12.2	DOOR CONTROL UNITS	NO.	1	R	R
75.12.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
75.13	CCTV - TO COVER ACCESS ON BOTH SIDES OF WALL AND DOWNSTREAM				
75.13.1	WEATHERPROOF NETWORK STATIC POE CAMERA	NO.	1	R	R
75.14	NORTH PACKAGE PLANT NORTH MAIN ENTRANCE				
75.14.1	WEATHERPROOF CARD READERS	NO.	2	R	R
75.14.2	DOOR CONTROL UNITS	NO.	1	R	R
75.14.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
TOTAL CARRIED FORWARD					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (EXCL VAT)
TOTAL BROUGHT DOWN					R
75.15	SOUTH PACKAGE PLANT MAIN ENTRANCE				
75.15.1	WEATHERPROOF CARD READERS	NO.	2	R	R
75.15.2	DOOR CONTROL UNITS	NO.	1	R	R
75.15.3	GREEN EMERGENCY (BREAK GLASS) UNITS	NO.	1	R	R
75.16	ALL EMERGENCY DOORS TO BE ACTIVATED ON ALARM	SUM	1	R	R
75.17	SPECIFIED CABLING (UTP CATEGORY 6A) CABLING MEASUREMENT	M	200	R	R
SUB-TOTAL CARRIED TO FINAL SUMMARY					R

FINAL SUMMARY		
SECTION	DESCRIPTION	AMOUNT
1	SUB-TOTAL FOR ACCESS CONTROL SYSTEM ON PINESIDE REGION OFFICE	R
2	SUB-TOTAL FOR CCTV SYSTEM ON PINESIDE REGIONAL OFFICE	R
3	SUB-TOTAL FOR ACCESS CONTROL SYSTEM ON WIGGINS	R
4	SUB-TOTAL FOR CCTV SYSTEM ON WIGGINS	R
5	SUB-TOTAL FOR ACCESS CONTROL SYSTEM AMANZINTOTI	R
6	SUB-TOTAL FOR ACCESS CONTROL SYSTEM MKHONDENI	R
7	SUB-TOTAL FOR ACCESS CONTROL SYSTEM MKHONDENI	R
8	SUB-TOTAL FOR ACCESS CONTROL SYSTEMS AT HEAD OFFICE BUILDINGS	R
9	SUB-TOTAL FOR CCTV SYSTEM AT HEAD OFFICE BUILDINGS	R
10	SUB-TOTAL FOR CCTV SYSTEM AT MIDMAR WTW	R
11	SUB-TOTAL FOR ACCESS CONTROL SYSTEM AT MIDMAR WTW	R
12	SUB-TOTAL FOR CCTV SYSTEM AT HOWICK WTW	R
13	SUB-TOTAL FOR ACCESS CONTROL SYSTEM AT HOWICK WTW	R
14	SUB-TOTAL FOR CCTV SYSTEM AT MPHOPHEMENI WTW	R
15	SUB-TOTAL FOR ACCESS CONTROL SYSTEM MPHOPHEMENI WTW	R
16	SUB-TOTAL FOR ACCESS CONTROL SYSTEM ON APPELSBOSCH WTW	R
17	SUB-TOTAL FOR CCTV SYSTEM ON APPELSBOSCH WTW	R
18	SUB-TOTAL FOR ACCESS CONTROL SYSTEM ON LYNNFIELD PARK WWW	R
19	SUB-TOTAL FOR CCTV SYSTEM ON LYNNFIELD PARK WWW	R
20	SUB-TOTAL FOR ACCESS CONTROL SYSTEM ON JABU NDLOVU	R
21	SUB-TOTAL FOR CCTV SYSTEM ON JABU NDLOVU	R
22	SUB-TOTAL FOR CCTV SYSTEM AT DURBAN HEIGHTS	R
23	SUB-TOTAL FOR ACCESS CONTROL DURBAN HEIGHTS	R
24	SUB-TOTAL FOR CCTV SYSTEM AT MAPHUMOLO	R
25	SUB-TOTAL FOR ACCESS CONTROL SYSTEM AT MAPHUMOLO	R
26	SUB-TOTAL FOR CCTV SYSTEM AT UMHLALI	R
27	SUB-TOTAL FOR ACCESS CONTROL SYSTEM AT UMHLALI	R
28	SUB-TOTAL FOR CCTV SYSTEM AT HAZELMRE	R
29	SUB-TOTAL FOR ACCESS CONTROL SYSTEM AT HAZELMERE	R
30	SUB-TOTAL FOR CCTV SYSTEM AT HAZELMERE	R
31	SUB-TOTAL FOR ACCESS CONTROL SYSTEM HAZELMERE	R
32	SUB-TOTAL FOR CCTV SYSTEM AT AMANZIMTOTI	R
33	SUB-TOTAL FOR ACCESS CONTROL SYSTEM AT AMANZIMTOTI WTW	R
34	SUB-TOTAL FOR CCTV SYSTEM AT UMTWALANE	R
35	SUB-TOTAL FOR ACCESS CONTROL SYSTEM AT UMTWALANE	R
36	SUB-TOTAL FOR ACCESS CONTROL SYSTEM AT GRAIGIEBURNE WTW	R
37	SUB-TOTAL FOR CCTV SYSTEM AT MPOPHHEMENI WWW	R
38	SUB-TOTAL ACCESS CONTROL SYSTEM ON MHLABATSHANE	R
TOTAL CARRIED FORWARD		R

SECTION	DESCRIPTION	AMOUNT
TOTAL BROUGHT DOWN		R
39	SUB-TOTAL FOR CCTV SYSTEM AT MHLABA	R
40	SUB-TOTAL FOR ACCESS CONTROL SYSTEM AT IXOPO	R
41	SUB-TOTAL FOR CCTV AT IXOPO	R
42	SUB-TOTAL FOR CCTV SYSTEM AT DARVILL WTW	R
43	SUB-TOTAL FOR ACCESS CONTROL SYSTEM AT DARVILL	R
44	SUB-TOTAL FOR CCTV SYSTEM AT DV HARRIS	R
45	SUB-TOTAL FOR ACCESS CONTROL SYSTEM AT DV HARRIS	R
46	SUB-TOTAL FOR CCTV SYSTEM AT INANDA DAM	R
47	SUB-TOTAL FOR ACCESS CONTROL SYSTEM AT INADA DAM	R
48	SUB-TOTAL FOR CCTV SYSTEM AT MAPHETWA	R
49	SUB-TOTAL FOR ACCESS CONTROL SYSTEM AT MAPHETWA	R
50	SUB-TOTAL FOR CCTV SYSTEM ON NAGLE DAM	R
51	SUB-TOTAL FOR ACCESS CONTROL SYSTEM NAGLE DAM	R
52	SUB-TOTAL FOR CCTV SYSTEM ON HARRY GWALA	R
53	SUB-TOTAL FOR ACCESS CONTROL SYSTEM AT HARRY GWALA	R
54	SUB-TOTAL FOR CCTV SYSTEM AT SPRNG GROVE	R
55	SUB-TOTAL FOR ACCESS CONTROL SYSTEM AT SPRING GROVE	R
56	SUB-TOTAL FOR CCTV SYSTEM ON ROSETTA WTW	R
57	SUB-TOTAL FOR ACCESS CONTROL SYSTEM AT ROSETTA WTW	R
58	SUB-TOTAL FOR CCTV SYSTEM AT RICHMOND WTW	R
59	SUB-TOTAL FOR ACCESS CONTROL SYSTEM AT RICHMOND	R
60	SUB-TOTAL FOR CCTV SYSTEM AT MPOFANA WTW	R
61	SUB-TOTAL FOR ACCESS CONTROL SYSTEM AT MPOFANA WTW	R
62	SUB-TOTAL FOR CCTV SYSTEM ON MEARN'S PUMPSTATION	R
63	SUB-TOTAL FOR ACCESS CONTROL SYSTEM AT MEARN'S PUMP STATION	R
64	SUB-TOTAL FOR CCTV SYSTEM AT LOWER THUKELA WTW	R
65	SUB-TOTAL FOR ACCESS CONTROL SYSTEM AT LOWER THUKELA WTW	R
66	SUB-TOTAL FOR CCTV SYSTEM AT LIDGETTON WTW	R
67	SUB-TOTAL FOR ACCESS CONTROL SYSTEM AT LIDGETON WTW	R
68	SUB-TOTAL FOR CCTV SYSTEM AT HENLEY DAM	R
69	SUB-TOTAL FOR ACCESS CONTROL SYSTEM AT HENLEY DAM	R
70	SUB-TOTAL FOR CCTV SYSTEM AT PRINCE ALFRED	R
71	SUB-TOTAL FOR ACCESS CONTROL SYSTEM AT PRINCE ALFRED	R
72	SUB-TOTAL FOR CCTV SYSTEM AT PRINCE ALFRED	R
73	SUB-TOTAL FOR ACCESS CONTROL SYSTEM ON CAMPERDOWN WWW	R
TOTAL CARRIED FORWARD		R

SECTION	DESCRIPTION	AMOUNT
TOTAL BROUGHT DOWN		R
74	SUB-TOTAL FOR ACCESS CONTROL SYSTEM ON COOL AIR WWW	R
75	SUB-TOTAL FOR ACCESS CONTROL SYSTEM ON ALBERT FALLS DAM	R
SECTION SUMMARY FOR SUPPLY, INSTALL AND COMMISSIONING OF ACCES CONTROL AND CCTV SYSTEM CARRIED DOWN		R

FOR INFORMATION PURPOSE ONLY

A - SECTION SUMMARY FOR SUPPLY, INSTALL AND COMMISSIONING OF ACCESS CONTROL AND CCTV SYSTEM BROUGHT DOWN (USED TO CALCULATE CPG AMOUNT)	R
B CONTINGENCIES (ADD 10% OF SUB-TOTAL SECTION A)	R
C SUB-TOTAL (SUB-TOTAL A + CONTINGENCIES)	R
D ESCALATION (ADD CPI% OF SUB-TOTAL C)	R
E SUB-TOTAL (SUB- TOTAL C + ESCALATION)	R
F VALUE ADDED TAX (ADD 15% OF SUB-TOTAL E)	R
TOTAL (SUB-TOTAL E +F) CARRIED TO FORM C1.2- FORM OF OFFER	R

SIGNED ON BEHALF OF TENDERER:

PART C3: SCOPE OF WORK

1. Employer's objectives

Supply, Install and Commissioning of Access Control and CCTV Systems.

2. Description of the services

The sites be required protected by CCTV surveillance and access control at various points on the sites and within the buildings (including outstations). This Scope describes the requirements for these electronic services (CCTV and Access Control) which are also referred to as the Security and Safety services/systems in this document.

The electronic services portion of this Contract shall include provision of the following which shall be the responsibility of the Contractor to meet:

- a) Design, install and commission cabling, sleeves and conduits*
- a) Design, install and commission Internet Protocol Power over Ethernet CCTV system.*
- b) Design, Install and Commission Access control system.*
- c) Integration of the CCTV, access control, fire detection, electrical fencing systems onto one software platform.*
- d) Earthing, lightning protection, and bonding of all components of CCTV and Access Control.*
- f) Issue of Certificates of Compliance.*
- g) Testing and commissioning of the electronic installation.*
- h) Provide Operation and Maintenance Manuals of all electronic systems.*
- i) Provide Training Security personnel in all electronic systems.*
- j) The installation shall be in accordance to the wiring code SANS 10142-1.*
- k) Design documents and drawings to be submitted to Security department.*

NOTE: Tenderer is to note that the rates in the pricing schedule above for phase 1 (one) and Phase 2 (two) are deemed to include the activities listed above from A- K

3. Extent of the services

Umgeni Water Sites consist of Dams, Water Treatment and Wastewater Treatment Works located within the operational areas of Ulwandle and Izintaba. The Operational and Administration sites include the following but not limited to:

- a) Administration Buildings.*
- b) Machine Rooms.*
- c) Pump stations (Within the plant and Outstations).*
- e) Water and Waste Water Treatment Process Units*
- f) Outstations (Reservoirs, Chambers)*
- g) Dams (Storage and Abstraction works)*

4. Use of reasonable skill and care

N/A

5. Co-operation with other services providers

Identify other service providers on the contract and establish how interactions are to take place.

6. Brief

The electronic services portion of this Contract shall include provision of the following which shall be the responsibility of the Contractor to deliver on:

- 1. Coordination of cable routes. It is the Contractor's responsibility to ensure the cable routes sleeves and conduits installed by sub-contractors allows for the connection of all electronic equipment.*
- 2. IP PoE CCTV system*

3. Access control system
4. Integration of the CCTV, access control, fire detection, electrical fencing systems onto one software platform
5. Earthing, lightning protection, and bonding of all components
6. Issue of Certificates of Compliance
7. Testing and commissioning of the electronic installation
8. Operation and Maintenance Manuals of all electronic systems
9. Training of staff on all electronic systems
10. The installation shall be in accordance to the wiring code SANS 10142-1
11. Design documents and drawings to be submitted

PROJECT SPECIFICATIONS

Integration Requirements

The CCTV, access control, fire detection and electric fence systems shall provide inputs to a software platform that shall allow for complete security and fire detection supervision of the entire plant as well as allow for full system integration.

The Contractor shall ensure that the proposed equipment for all services meet the following conditions prior to purchase and installation: Whilst the service providers will not install fire or electric fencing ,software platforms must be in place to provide integration of these devices.

- a) Equipment shall be able to perform as required by this design specification.
- b) Equipment shall be compatible with the proposed network.
- c) Equipment shall be compatible with the specified software platform.
- d) It shall be possible to supervise the security and safety systems from one Personal Computer platform with multiple displays.
- e) The software platform shall allow for the integration of a future intruder detection system.
- f) Where possible the security and electronic system equipment shall be of the same manufacturer.
- g) Equipment shall be industrial type.
- h) All outdoor equipment shall be appropriately IP rated for outdoor operation and able to withstand the extreme climate conditions expected on site.
- i) The wiring for these services shall be done by the Contractor.
- j) All equipment shall have earthing and lightning protection for an area with annual ground flash density of 3.4 flashes/km².
- k) The appointed Contractor shall evaluate the drawings and ensure that all cable routes and conduits and sleeving to electronic services have been allowed for.
- l) The Contractor shall include all necessary wiring, cabling, labour, tools, equipment, and ancillary materials required to furnish and install a complete and operational and access control system.

System network

An armoured fibre optic cable ring shall connect all the security and safety services to the central buildings and site electronics' management server if required. Each building shall be equipped with a, a local access control panel which along with the building CCTV cameras shall be connected to a local Ethernet switch and connected to the fibre optic ring through a fibre to copper converter. These panels shall be mounted on a rack with locations as indicated on the BOQ.

Perimeter and site monitoring CCTV cameras shall be connected to the ring via an Ethernet switch and fibre to copper Converter system which shall be housed in the dedicated CCTV kiosks located along the electric fence perimeter.

The Contractor shall size the kiosks and racks to accommodate his/her offered equipment. All equipment housed in the outdoor kiosk/racks must be industrial type and able to operate under extreme conditions e.g. heat. The outdoor kiosks and racks shall be rated a minimum of IP 65.

The system network shall be as shown in figure 1 below.

CCTV

Standard Specifications, Regulations and Codes

The design, materials, installation and workmanship shall be fully compliant with the latest standards, codes and specifications including but not limited to:

a) SANS 10222-5.

System Description

- a) The CCTV system shall be an IP Poe camera based system.
- b) CCTV cameras shall be installed to monitor the site perimeter and specified rooms within building etc. as indicated on the BOQ.
- c) The Contractor shall ensure that the cameras he/she provides shall be capable of monitoring the indicated areas to meet the minimum requirements specified in this document.
- d) The CCTV software and hardware shall allow for an additional 30% spare capacity from current design.
- e) Where single cameras are installed a second connection shall be allowed for installation of a future camera.
- f) Cameras shall be on continuously during the day and switch on in case of an event (e.g. motion, triggering of an electric fence zone, access control breach in camera zone etc.) during the evening.
- g) All cameras and equipment shall have a three year warranty from the manufacturer.
- h) The camera system shall ensure that any advanced commands required to program the camera are accessed via three levels of passwords ranging from low to high.
- i) All cameras shall have the following minimum specifications unless otherwise specified:
- j) All cameras shall be IP Power over Ethernet (Poe).
- k). Motion detection.
- l). PTZ cameras shall have auto tracking.
- m). Minimum resolution allowing for facial detection, 4MP minimum.
- n). Perimeter cameras do not have to have to be capable of facial detection over the entire range.
- o). Day/Night capable.
- p). Vandal proof.
- q)ii. Automatic tamper detection.
- r). All outdoor cameras or their housing shall be rated a minimum of IP 65.

CCTV Requirements:

The site wide CCTV system shall consist of the supply and installation of the following:

- a) Outdoor:
 - i. Static/fixed cameras at the perimeter to monitor all 16 fence zones and the substation perimeter.
 - ii. Licence recognition cameras at the vehicle entry and exit points at the gatehouse.
 - iii. Fixed camera at the gate house monitoring the main access gate.
 - iv. Fixed cameras within buildings.
 - vii. PTZ cameras to be installed where indicated.
 - viii. Outdoor CCTV kiosks c/w applicable equipment.
- b) Indoor:
 - 1... Fixed cameras.
(Please refer to the BOQ for detailed CCTV camera locations)
 - 2... Rack mounted with NVR and data storage.
 - 3... Control and monitoring devices.
 - 4... Auxiliary equipment to provide a complete and functional CCTV system.

CCTV control and monitoring

- a) Monitoring station per BOQ.
- b. Viewing monitors shall display a maximum of 16 camera feeds at a time.
- c. The guard shall have control over the PTZ cameras using a joystick. The joystick must be able to switch between multiple PTZ cameras and be of the programmable type.
- d. The control of the guard over the PTZ cameras will be slave to the master station.
- e. The control room shall be a master control and monitoring station.
- f. The operator shall have control over all PTZ cameras using a joystick. The joystick must be able to switch between multiple PTZ cameras and be of the programmable type.

d) The computer hardware shall be as follows:
As per BOQ.

Backup power

The CCTV system shall be on 2 hour battery back-up.

Storage

- a) Primary storage of recordings shall be on hard drives situated within the server. A minimum of two months' worth of recording shall be stored at full frame rate and definition. It shall be possible to add additional drives to the system should additional storage be required at a later stage.
- b) Stored recordings shall only be accessible to personnel with the right authority.

Cabling

- a) Cable routes.
- b) All indoor CCTV cabling shall be in conduits or wire ways. Outside underground cables should be in sleeves if not armoured.
- c) CAT6 cables to be used except where fibre optic cables are indicated.
- d) The Contractor should ensure that interference from power cable does not affect the cables.

Access Control

Standard Specifications, Regulations and Codes

The design, materials, installation, and workmanship shall be fully compliant with the latest standards, codes and specifications, including but not limited to:

- a) SANS 2220-2.
- b) SANS 15816.
- c) SANS 18043.
- d) SANS 10117.

System Description

- a) A site wide access control system complete with minimum two hour battery back-up shall be installed.
- b) The access control system shall be capable of loading a minimum of 50000 access cards programmed with user profiles. During installation Umgeni will provide a list of employees which the Contractor shall add to the system.
- c) The interface and control units shall be provided under this scope.
- d) The access control software shall allow staff at the gatehouse to capture visitor details electronically.
- e) Visitors and staff shall enter and exit the site via access controlled boom gates or pedestrian gate.
- f) Magnetic locks/strike locks or motors shall be installed on all other access controlled doors as indicated on BOQ.

Each door will have a card reader on the entrance side of the door, and a push button inside the room unless otherwise specified.

- g) All staff shall be provided with access cards.

- h) Each building shall have a local access control panel and the main control panel shall be installed in the server room located in the administration building ground floor. Each access controlled door shall be provided with a green break-glass unit. The green break-glass units are to be wired in such a way that if the break-glass is pressed, the strike lock or magnetic locks will re-release until manually reset.*
- i) Pressing either the green break-glass unit shall activate sounders which shall be placed in the same proximity as the break-glass units. This signal shall be relayed to the main access control panel in the server room which shall send a notification to the control room, reception and gate house identifying where the alarm has been set off.*

Access control Requirements

- a) Water treatment works main entrance.*
- i. The main entrance gate shall be motorized and controlled by the guard. It shall be opened during the day and closed at night.*
- ii. Main entrance booms gates shall be access controlled. Tag readers mounted on hot dipped galvanized goosenecks shall be installed at the entry and exit booms. Access method shall be Tag in/Tag out. The guard shall also have control to operate the boom gates via push buttons inside the gate house.*
- iii. The pedestrian entrance shall be access controlled on entering and exiting the site. Access method shall be tag in/tag out.*
- b) Main entrance gate to Low lift pump station (LLPS).*
- i. Tag readers mounted on goosenecks shall be installed on either side of the gate.*
- ii. Access method shall be tag in/tag out.*
- c) Pedestrian gate to Abstraction works.*
- i. The pedestrian gate shall be access controlled.*
- ii. Access method shall be tag in/tag out.*
- d) Building access control:*
- i. Entrances to all buildings shall be access controlled.*
- ii. Access method shall be tag in/push button out unless otherwise specified.*
- iii. Indoor push buttons shall be used to operate roller shutter doors.*
- The following rooms shall have access controlled doors:*
- i. Main building entrance, access method tag in/push button out or entry provided by reception/gate house or control room.*
- ii. Control room, access method tag in/tag out.*
- iii. Laboratory, access method tag in/tag out.*
- iv. Server rooms, access method tag in/tag out.*
- g) An intercom system shall be provided for communication between the main door and reception, room. There shall be one button weather-proof intercom door station the main door linked to master intercom handsets at the control room or reception. The master intercom handsets shall be able to communicate with the one button intercom station and shall be capable of opening the main door. The control room and reception master intercoms can be used during the day and evenings.*
- h) General.*
- i. All access controlled doors shall have an emergency overwrite in the form of a green (break glass) unit to allow exit out of a room or building.*
- ii. Power to the electronic kiosks and racks will be installed by the electrical subcontractor. The electronic services Contractor shall ensure that the power supply is provided to all electronic services points. Where not, the electrical and electronic contractors shall.*

-
7. **Reference data**
N/A
 8. **Applicable national and international standards**
N/A
 9. **Particular/Generic specifications**
As specified in the scope of work.
 10. **Approvals**
As specified in the scope of work
 11. **Procurement**
State requirements appropriate to the methodology and procedures that are to be followed. (See Annex A of SANS 10396:2003). Make reference to preference schedules, if any.

State the number, title and edition of resource specifications applicable to the contract and all data and definitions required e.g. definitions of target groups, weighting factors, etc. (Refer to SANS 10396 for specific guidance)
 12. **Access to land / buildings / sites**
The sites in question will be Umgeni Water's buildings, water treatment works, workshops and office infrastructure.
 13. **Planning and programming**
Refer to Returnable Schedule T2.2.A16 and state requirements for format of programme, level of detail, critical path activities and their dependencies, frequency of updating, key dates, etc.

Provide particulars of phased completion, programme constraints, milestone dates for completion etc., as necessary.
 14. **Software application for programming**
N/A
 15. **Quality management**
All reports must be reviewed internally by the service provider before it is submitted to the project team at Umgeni Water
 16. **Format of communications**
The form of communication is e-mail
 17. **Key personnel**
Refer to Returnable Schedule T2.2.17 and C1.2 Part 2: Contract Data to be provided by the Service Provider.
 18. **Management meetings**
Meetings will be held at Umgeni Water head Office at 310 , Pietermaritzburg
 19. **Forms for contract administration**
GCC 2015
 20. **Electronic payments**
The service provider will be paid electronically through the normal Umgeni Water procedures

21. Daily records

The service provider is to record productive time in the execution of the various activities comprising this Scope of Work. The record shall be sufficiently detailed to allow the time spent against each activity to be assessed for reasonableness and disbursements purposes. Where requested by the Employer, these time records shall be produced in support of payment claims by the service provider

22. General indemnity insurances

Refer to C.1.2 Contract Data Clause 5.4.1 and state number of copies and the place where policies are to be presented.

23. Payment certificates

Invoices are to be submitted by the 25th of each month and should be milestone based. Proof of work completed must be submitted with each invoice. This will include a reconciliation spreadsheet

24. Use of documents by the Employer

N/A

25. Property provided for the Service provider's use

N/A

26. Proof of compliance with the law

N/A

PART C4: SITE INFORMATION**GPS COORDINATES OF ALL SITES**

Name	South	East	Type
UW Head Office	-29.60308	30.38485	Office
Pineside Regional Office	-29.80937	30.87365	Office
Durban Heights WTW	-29.80026	30.92937	WTW
Hazelmere WTW	-29.61461	31.05523	WTW
Maphephetwa WTW	-29.67697	30.80026	WTW
Hazelmere Dam	-29.59619	31.04106	Dam
Darvill WWW	-29.60212	30.43088	WWW
Nagle Dam	-29.59576	30.62944	Dam
Albert Falls Dam	-29.44512	30.42649	Dam
Amanzimtoti WTW	-30.05304	30.85160	WTW
Area West Office	-29.49674	30.21883	Office
Craigieburn WTW	-30.18243	30.76643	WTW
DV Harris WTW	-29.55697	30.32375	WTW
Henley Dam	-29.62779	30.24755	Dam
Inanda Dam	-29.70833	30.86520	Dam
Ixopo WWW	-30.15193	30.07472	WWW
Ixopo WTW	-30.16324	30.06160	WTW
Midmar WTW	-29.49969	30.21778	WTW
Mkondeni Regional Office	-29.65283	30.41925	Office
Mkondeni Workshops	-29.65335	30.41991	Office
uMtwalume WTW	-30.47652	30.60820	WTW
Nungwane Dam	-30.00820	30.74421	Dam
Umlaas Road WTW	-29.71315	30.49736	WTW
Umzinto WTW	-30.32859	30.67169	WTW
Wiggins WTW	-29.84753	30.96260	WTW
Umhlali Regional Office	-29.47378	31.21820	Office
Maphumulo WTW	-29.20248	31.04379	WTW
Mhlabatshane WTW	-30.41534	30.18283	WTW
Howick WWW	-29.49336	30.23366	WWW
Cool Air WWW	-29.37769	30.62530	WWW
Appelsbosch WWW	-29.38989	30.81768	WWW
Lynnfield Park WWW	-29.68171	30.46484	WWW
Camperdown WWW	-29.72210	30.52886	WWW
Richmond WWW	-29.88488	30.26600	WWW
Mooi River WWW	-29.22327	29.99369	WWW
Midmar Dam	-29.51582	30.17670	Dam
Ludeke Dam	-30.75300	29.74570	Dam
Mearns Dam	-29.25857	29.94385	Dam
Spring Grove Dam	-29.93387	29.93387	Dam

C4.2

<i>Table mountain Pump Station</i>	<i>-29.57750</i>	<i>30.62500</i>	<i>PS</i>
<i>Brynns Hill Pump Station</i>	<i>-29.44698</i>	<i>30.62044</i>	<i>PS</i>
<i>Dalton/Cool Air Pump Station</i>	<i>-29.35175</i>	<i>30.62174</i>	<i>PS</i>
<i>Dingle Pump Station</i>	<i>-29.36356</i>	<i>30.58358</i>	<i>PS</i>
<i>Wartburg Pump Station</i>	<i>-29.50500</i>	<i>30.69778</i>	<i>PS</i>
<i>Groenkloof Pump Station</i>	<i>-29.61856</i>	<i>30.34617</i>	<i>PS</i>
<i>Rosetta WTW</i>	<i>-29.51194</i>	<i>29.64694</i>	<i>WTW</i>
<i>Lower Thukela WTW</i>	<i>-29.16781</i>	<i>31.37996</i>	<i>WTW</i>

PART C5: ANNEXURES

FOR INFORMATION PURPOSE ONLY