



TENDER NO: 2026/063

ICT OPERATIONS MAINTENANCE AND SUPPORT FOR A PERIOD OF FIVE YEARS.

VOLUME 1 – Tendering Procedures and Returnable Documents

Issued by:

uMngeni-uThukela Water
310 Burger Street
Pietermaritzburg

Tender Queries:

Contact Name: Mpho Biyela
Telephone: 035 902 1064

Name of Tenderer: _____

National Treasury CSD Number: _____

Tip-Offs Anonymous Hotline:	Appeals/Objections
<p>Report unethical conduct at uMngeni-uThukela Water on: Toll Free Number: 0800 864 463 Email: uuw@thehotline.co.za Mobile application: Vuvuzela Hotline app - 0800 864 463 to report Website: https://www.thehotline.co.za/report- 0800 864 463 to report SMS: 30916 Fax: 0867 261 681 Post: PO Box 10512, Centurion, 0046 <i>Stop theft / fraud / dishonesty / bribery /blackmail / intimidation, and remain anonymous.</i></p>	<p>Persons aggrieved by tender award decisions taken by uMngeni-uThukela Water , may lodge an appeal within 7 calender days of the date of the intention to award advertisement.</p> <p>UUW 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@uuw.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	T1.3	White
T1.2 Tender Data.....	T1.6	Pink
T.2 RETURNABLE DOCUMENTS		
T2.1 List of Returnable Documents	T2.11	Yellow
T2.2 Returnable Schedules and Documents.....	T2.12	Yellow
 VOLUME 2		
THE CONTRACT		
C.1 AGREEMENTS AND CONTRACT DATA		
C1.1 Form of Offer and Acceptance	C1.73	Yellow
C1.2 Contract Data	C1.78	Yellow
C.2 PRICING DATA		
C2.1 Pricing Instructions	C2.83	Yellow
C2.2 Pricing Schedule.....	C2.84	Yellow
C.3 SCOPE OF WORK	C3.86	Blue
C.4 SITE INFORMATION.....	C4.89	Green
C.5 ANNEXURES	C5.1	White
C5.1 Installed base @ UUW |		

Tender Number:2026/063 |

TENDER TITLE: ICT OPERATIONS MAINTENANCE AND SUPPORT FOR A PERIOD OF FIVE YEARS

T1.1 TENDER NOTICE AND INVITATION TO TENDER

uMngeni-uThukela Water is a state owned business enterprise that operates within the South African legislative parameters. The primary function of uMngeni-uThukela Water is to supply treated water in bulk to its municipal customers.

Competent and experienced Service Providers are invited to Tender for the following:

ICT Operations Maintenance and Support for a period of five years

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

Provide the following mandatory ISO requirements and professionals (attach CVs and registration certificates) :

ISO 9001:2015 (QMS)	Attach a valid copy of a certificate
ISO 45001:2018 (OHS)	Attach a valid copy of a certificate
ISO 27001: 2022 (IT Security) or ISO 27001:2013	Attach a valid copy of a certificate
Microsoft Certified Solutions Associate (MCSA) – Windows Server	Attach a valid copy of a certificate
Microsoft Certified Solutions Associate (MCSA) – Exchange	Attach a valid copy of a certificate
Microsoft Certified Technology Specialist (MCTS)	Attach a valid copy of a certificate
Microsoft Certified IT Professional (MCITP)	Attach a valid copy of certificate
Microsoft Specialist : Architecting Microsoft Azure Solutions (MS)	Attach a valid copy of a valid certificate
Cisco Certified Specialist – Enterprise Design	Attach a valid copy of a certificate
Cisco Black Belt Fire Jumper FE – Secure Firewall Stage 3	Attach a valid copy of a certificate
Cisco Fire Jumper – Cisco Umbrella Deployment	Attach a valid copy of a certificate
Cisco Certified Specialist (CCIE)	Attach a valid copy of a certificate
Cisco Certified Network Professional Enterprise (CCNP)	Attach a valid copy of a certificate
Cisco Certified Specialist - Enterprise Core	Attach a valid copy of a certificate
Cisco Certified Specialist - Enterprise Wireless Design	Attach a valid copy of a certificate
VMWare Certified Professional Network Virtualization (VMCP)	Attach a valid copy of a certificate

VMWare Certified Professional Data Centre Virtualization	Attach a valid copy of a certificate
Veeam Certified Engineer (VMCE	Attach a valid copy of a certificate
HP Accredited Solutions Expert – Server Solutions Architect HP Accredited Technical Professional – Server Solutions	Attach a valid copy of a certificate
UniMPS & UniMPS Certification	Attach a valid copy of a certificate
Mitel Certified Professional	Attach a valid copy of a certificate
Trend Vision One Security Operations	Attach a valid copy of a certificate
Proof of attendance for a compulsory briefing	Signed Certificate of attendance

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 Seventy (70) points is required for the tender to be considered further.
Price & Preference Goals using the 90/10 Preference Point Scoring System in terms of PPPFA
- Price and Preference goals

1. In compliance with the Preferential Procurement Regulations 2022, the 80/20 preference point system is applicable: points for this bid shall be awarded for:
 - a) Price; and (90) and
 - b) Preference as defined in SBD 6.1 (10)
2. The Preference Goals that have been identified for this bid is stipulated in SBD 6.1
3. Failure on the part of a bidder to submit proof or documentation required in terms of this tender document to claim points for specific goals, will be interpreted to mean that preference points for specific goals are not claimed by the bidder.
Preferential goals and applicable points for this tender in terms of Preferential Procurement Regulations 2022, are indicated in the table below:

	Description	80/20	90/10	Evidence to be provided
HDI	An entity which is at least 51% owned by Black Women		10	<ul style="list-style-type: none"> • CSD Report • Sworn Affidavit • BEE Certificate
HDI	An entity which is at least 51% owned by Black Youth		10	<ul style="list-style-type: none"> • CSD Report • Sworn Affidavit • BEE Certificate
Total points for preferential goals			20	

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

BID DOCUMENTS

The physical address for submission of Bid Documents is: **uMngeni-uThukela Water, 310 Burger Street, Pietermaritzburg**

DOWN LOADING OF BID DOCUMENTS

Bid documents should be downloaded from Umngeni Uthukela Website, www.umngeni-uthukela.co.za and e-Tenders Portal website, www.etenders.gov.za

Queries relating to the issuing of these documents shall be addressed to: Mpho Biyela, Telephone number: 035 902 1064, e-mail: mpho.biyela@uuw.co.za.

A compulsory clarification meeting with representatives of uMngeni-uThukela Water will take place at uMngeni Meeting Room on 30 June 2026 starting at 11h00.

SUBMISSION OF PROPOSALS

Closing date

Bidders must submit their responses on the 23rd July 2026 not later than **12h00 at uMngeni-uThukela Water, 310 Burger Street, Pietermaritzburg** in the Tender Box. Faxed and Emailed submissions will not be accepted.

uMngeni-uThukela Water's Standard Conditions of Tender are available on uMngeni-uThukela Water's website: <https://www.umngeni.co.za/wp-content/uploads/2023/07/SCM009-Standard-Conditions-of-Tender.pdf>

Persons aggrieved by decisions or actions taken by uMngeni-uThukela Water, may lodge an appeal within 7 calendar 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@uuw.co.za*

Note that appeals not addressed to the abovementioned email will not be considered.

uMngeni-uThukela Water Reserves the Right to Award the Contract In Whole or In Part.

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

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

www.uuw.co.za/tenderlist

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.”

F3.11.3 Method 2: Functionality, Price and Preference

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.”

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 uMngeni-uThukela Water
	F.1.2 Tender Documents
F.1.2	The Tender Documents issued by the Employer comprise the following documents: VOLUME 1 – Tendering Procedures and Returnable Documents Part T1: Tendering procedures Part T2: Returnable documents VOLUME 2 – Offer, Contract, Price and Scope of Work Part C1: Agreements and Contract data Part C2: Pricing data Part C3: Scope of work
	F.1.4 Communication and Employer’s agent
F.1.4	The Employer’s agent is : <u>Tender Queries</u> Name: Roop Maharaj Address: 310 Burger street, Pietermaritzburg

	<p>Tel: 033 341 1160</p> <p>Roop.Maharaj@uuw.co.za</p>
	F.2.1 Eligibility
F.2.1	<p>uMngeni-uThukela Water will only consider submissions from tenderers who satisfy the following criteria:</p> <p>The tenderer completed the Bidders Disclosure Form (T2.2.2)</p> <p>Proof of attendance of a compulsory Briefing (F.2.7)</p> <p>The Tenderer must comply to the mandatory ISO requirements:</p> <ul style="list-style-type: none"> • Submit Valid copy of ISO 9001:2015 (QMS) • Submit Valid copy of ISO 45001:2018 (OHS) • Submit Valid copy of ISO 27001: 2022 (IT Security) or ISO 27001:2013 <p>The tenderer must provide the following key personnel certification:</p> <ul style="list-style-type: none"> • Submit Valid copy of Microsoft Certified Solutions Associate (MCSA) – Windows Server • Submit Valid copy of Microsoft Certified Solutions Associate (MCSA) – Exchange • Submit Valid copy of Microsoft Certified Technology Specialist (MCTS) • Submit Valid copy of Microsoft Certified IT Professional (MCITP) • Submit Valid copy of Microsoft Specialist : Architecting Microsoft Azure Solutions (MS) • Submit Valid copy of Cisco Certified Specialist – Enterprise Design • Submit Valid copy of Cisco Black Belt Fire Jumper FE – Secure Firewall Stage 3 • Submit Valid copy of Cisco Fire Jumper – Cisco Umbrella Deployment • Submit Valid copy of Cisco Certified Internetwork Expert (CCIE) • Submit Valid copy of Cisco Certified Network Professional Enterprise (CCNP) • Submit Valid copy of Cisco Certified Specialist - Enterprise Core • Cisco Certified Specialist - Enterprise Wireless Design • Submit Valid copy of VMWare Certified Professional Network Virtualization (VMCP) • Submit Valid copy of VMWare Certified Professional Data Centre Virtualization • Submit Valid copy of Veeam Certified Engineer (VMCE) • Submit Valid copy of HP Accredited Solutions Expert – Server Solutions Architect • HP Submit Valid copy of Accredited Technical Professional – Server Solutions • Submit Valid copy of Unitrac & UniMPS Certification • Submit Valid copy of Submit Valid copy of Mitel Certified Professional • Submit Valid copy of Trend Vision One Security Operations
	F.2.7 Clarification meeting
F.2.7	<p>There shall be a compulsory clarification meeting. The details for which are stated in the Tender Notice and Invitation to Tender.</p> <p>Tenderers must sign the attendance list in the name of the tendering entity. Addenda will be issued to and tenders will be received only from those tendering entities appearing on the attendance list.</p>
	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, plus one (1) copy.
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:</p> <p>Tender Number : 2026/063</p> <p>Tender Title : : ICT OPERATIONS MAINTENANCE AND SUPPORT FOR A PERIOD OF FIVE YEARS</p> <p>Closing Date: 23 July 2026 Closing Time: 12h00 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.</p> <p>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 calendar days from the closing date.
	F.2.19 Inspections, tests and analysis
F.2.19	Access shall be provided for the following inspections, tests and analysis: Network, Data Centres, Security Posture, Wi-Fi heat maps, diagram updates, Dataposts, Video Conferencing, DSTV, VM Ware, Data Cabling, Pods and environmental cabinets.
	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 letter (with pin) issued by the South African Revenue Services. 2) Central Supplier Database (CSD) Report 3) Company Registration Certificate 4) All Requested ISO Certificates 5) All Key Personnel Certification]

	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	The procedure for the evaluation of responsive tenders is Method 2 (Functionalty, Price and Preference)									
F.3.11.3	The following preference point systems are applicable to all Tenders:									
(4c)	1) 90/10 system for Tenders with a Rand value above R50 000 000.00, inclusive of VAT, in which 90 points are allocated for price and 10 points for preference in respect of all responsive Tenders received.; and Scoring Price.									
F.3.11.9	The table below shows the functionality that set out the scoring criteria and sub-criteria, and the percentage weighting for the score to be achieved									
	Weighting %									
	<table border="1"> <tr> <td>T2.2.6</td> <td>Tenderer's Experience</td> <td>40</td> </tr> <tr> <td>T2.2.7</td> <td>Experience of Key Personnel</td> <td>40</td> </tr> <tr> <td>T2.2.9</td> <td>Method Statement</td> <td>20</td> </tr> </table>	T2.2.6	Tenderer's Experience	40	T2.2.7	Experience of Key Personnel	40	T2.2.9	Method Statement	20
T2.2.6	Tenderer's Experience	40								
T2.2.7	Experience of Key Personnel	40								
T2.2.9	Method Statement	20								
	<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>									
	F.3.17 Provide copies of the contracts									
F.3.17	Each Tender offer communicated on paper shall be submitted as an original, plus one (1) electronic copy on a USB stick.									
	F3.18 Provide written reasons for actions taken									
F3.18	Refer to Section 39 of the Supply Chain Management Policy.									
F3.19	<p>Persons aggrieved by decisions or actions taken by uMngeni-uThukela Water, may lodge an appeal within 7 calender days of the date of the intention to award advertisement appearing in the relevant print media.</p> <p>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@uuw.co.za</p> <p>Note that appeals not addressed to the abovementioned email will not be considered.</p> <p>uMngeni-uThukela Water's Standard Conditions of Tender and Conditions of Contract are available on uMngeni-uThukela Water's website www.uuw.co.za/tenderlist</p> <p>uMngeni-uThukela Water reserves the right to award the Contract in whole or in part.</p>									

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		[T2.10]
T2.2.2 Bidders Disclosure		[T2.19]
T2.2.3 Tax Compliance Status Letter Requirements		[T2.21]
T2.2.4 Proof of Attendance at the Compulsory Clarification Meeting		[T2.23]
T2.2.5 Contract Participation Goals (CPG)		[T2.24]
T2.2.6 Tenderer's Experience		[T2.29]
T2.2.7 Experience of Key Personnel		[T2.33]
T2.2.8 Method Statement		[T2.38]
T2.2.9 Registration Certificate / Agreement / ID Document		[T2.42]
T2.2.10 Amendments, Qualifications and Alternatives		[T2.43]
T2.2.11 Record of Addenda to Tender Documents		[T2.45]
T2.2.12 VAT Registration Certificate		[T2.46]
T2.2.13 Schedule of Proposed Sub-Consultants		[T2.47]
T2.2.14 Proof of Purchase of Tender Document		[T2.48]
T2.2.15 Letter of Good Standing in terms of COID Act		[T2.49]
T2.2.16 Preference Points claim form in terms of the PPPFA Regulations 2022		[T2.50]
T2.2.17 Tenderer's Financial Standing		[T2.54]
T2.2.18 Tenderer's Health and Safety Declaration		[T2.55]
T2.2.19 Pro forma OHS Notification		[T2.56]
T2.2.20 Letter of Intent to provide Professional Indemnity		[T2.58]
T2.2.21 Registration Certificates		[T2.59]
T2.2.22 Central Supplier Database (CSD) Report		[T2.60]



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 valid 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:



T2.12.

B. SOLE PROPRIETOR (ONE - PERSON BUSINESS)

I, the undersigned

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

.....

.....
SIGNATURE

.....
DATE



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 valid 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.



T2.15.

E. CO-OPERATIVE

A valid 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 valid 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 valid 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:

NB: FAILURE TO COMPLETE, SIGN AND DATE THE RESOLUTION AS OUTLINED ABOVE MAY RESULT IN THE TENDERER RENDERED INCOMPLETE AND MAY BE DISQUALIFIED/ ALTERNATIVELY THE TENDERER MAY ATTACH A SIGNED RESOLUTION ON THE ENTITY'S LETTERHEAD



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**

2.3.1 If so, furnish particulars:
.....
.....

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.

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.

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

T2.2.3 TAX COMPLIANCE STATUS LETTER REQUIREMENTS

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.

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.



T2.2.3 TAX COMPLIANCE STATUS LETTER REQUIREMENTS (Continued.....)

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



T2.2.4 PROOF OF ATTENDANCE AT THE COMPULSORY CLARIFICATION MEETING []

CERTIFICATE OF ATTENDANCE

TENDER No. [2026/063]

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 uMngeni Meeting Room on 30 June 2026 starting at 11h00

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 Employer's representative, namely:

Name: Signature:

Capacity: Date and Time:

T2.2.5 CONTRACT PARTICIPATION GOALS

Objective

The objective of uMngeni Uthukela 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 uMngeni-uThukela 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 uMngeni Uthukela Water's consideration.

Tenderers (the main Service Provider irrespective of BBBEE classification) who are on Umngeni Uthukela 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 uMngeni-uThukela 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 uMngeni-uThukela Water's database of Service Providers specifically earmarked for CPG purposes.
 - In the event of services where uMngeni-uThukela Water does not have an applicable service provider on its database, the tenderer may propose a suitable CPG Partner/s for consideration by uMngeni-uThukela Water.
- Main service provider may propose a suitable CPG Partner/s, but uMngeni-uThukela 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 uMngeni-uThukela Water whilst making profit margins consistent to the profit margins that the main Service Provider 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 Service Provider **shall not** substitute any CPG Partner/s without the written approval of uMngeni-uThukela Water.
- The working capital arrangements between the main Service Provider 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 Service Provider– by 25th of each month, or the nearest previous working day. The submission from the Service Provider 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 Service Provider – 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 Service Provider has been paid by uMngeni-uThukela Water; and
- The submission from the Service Provider 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 Service Provider and CPG Partner/s

Monitoring and Reporting on CPG

- uMngeni-uThukela 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 Service Provider. Should disagreements arise, uMngeni-uThukela 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:

UMNGENI-UTHUKELA 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 Uthukela 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;



T2.26.

-
6. I am aware that, and do consent to, the disqualification of my or the bidder's future bids with uMngeni-uThukela Water in the event that the commitments made herein are not fulfilled and that such non-fulfillment amounts to abuse of uMngeni-uThukela 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 uMngeni-uThukela Water, with a sanction of restricting me and or my company (the bidder) and or any of its directors from conducting business with uMngeni-uThukela 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 (uMngeni-uThukela Water and the Bidder); and uMngeni-uThukela 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

Scoring of the Tenderer's Company experience will be as follows: [40%]

FUNCTIONALITY CRITERIA	DESCRIPTION OF REQUIREMENTS	MAX POSSIBLE SCORE
Company experience in the provision of Microsoft Datacenter Application Support and Management (Active Directory, Exchange, SCCM, SCOM and Azure of similar size as uMngeni-uThukela Water : 500+ Users	1 Project – (3 points) 2 Projects – (5 points) 3 Projects – (7 points) 1 additional point for every project more than 3 projects to a maximum of 10 points	10
Company experience in the provision of Datacenter server, SAN and hardware support and monitoring of similar size as Umngeni-Uthukela Water : 500+ Users	1 Project – (3 points) 2 Projects – (5points) 3 Projects – (7 points) 1 additional point for every project more than 3 projects to a maximum of 10 points	10
Company experience in the provision of Veeam Backup and Replication management	1 Project– (3 points) 2 Projects – (5 points) 3 Projects – (7 points) 1 additional point for every project more than 3 projects to a maximum of 10 points	10
Company experience in the provision of Virtual environment management (VMware / Hyper-V / Verge IO) of similar size as Umngeni-Uthukela Water - 500+ Users	1 Project – (3 points) 2 Projects – (5 points) 3 Projects – (7points) 1 additional point for every project more than 3 projects to a maximum of 10 points	10
Company experience in the provision of Cisco LAN, WAN, Wireless LAN infrastructure management and Security of similar size as Umngeni-Uthukela Water - 500+ Users	1 Project – (3 points) 2 Projects – (5 points) 3 Projects – (7 points) 1 additional point for every project more than 3 projects to a maximum of 10 points	10
Company experience in the provision of Network cabling (Copper & Fiber) installation and maintenance	1 Project – (2.5 points)	2.5

T2.29.

Company experience in the provision of Telephony systems support, SIP, Leased Cost routing, Cisco CUCM and Mitel SIP/IP license management	1 Project – 2.5 points	2.5
Company experience in the provision of Security management (Cisco / Trend Micro / Qualys) of similar size as Umngeni-Uthukela Water - 500+	1 Project – 3 points 2 Projects – (5 points 1 additional point for every project more than 2 projects to a maximum of 10 points	10
Company experience in the provision of Access Control, CCTV, Entrance Systems and Video Conferencing	1-2 Projects – 2 points 3 Projects and above – 5 points	5
Company experience in the provision of Wireless backhaul infrastructure support	1 Project – 2.5 points	2.5
Company experience in the provision of Data post software support and upgrades	1 Project – 2.5 points	2.5
Company experience in the provision of Network maintenance, asset registers and topology management Company experience in the provision of Cisco platform management (Firmware, Licensing, DNA, Umbrella, ISE, SNA, Duo)	1 -2Projects – 2 points 3 Projects and above – 5 points	5
Company experience in the provision of Network & Security SLA-based support (Level 1 to Level 3)	1 Project to 2 Projects – 2 points 3 Projects and above – 5 points	5
Company experience in the provision of PoD and Environmental Cabinet monitoring and management	1 Project to 2 Projects – 2 points 3 Projects and above – 5 points	5
Company experience in the provision of Self-service kiosk maintenance services of similar size as Umngeni-Uthukela Water - 500+ Users	1 Project – (2.5 points)	2.5
Company experience in the provision of UniMPS solution deployment and support of similar size as Umngeni-Uthukela Water - 500+ Users	1 Project – 2.5 points)	2.5
Company experience in the provision of Huawei Cloud Backup and Disaster Recovery management	1 Project – 2.5 points)	2.5
TOTAL POINTS		100
MINIMUM QUALIFYING POINTS		70

T2.2.6 TENDERER'S EXPERIENCE (Continued)

INSERT HERE

T2.2.7 EXPERIENCE OF KEY PERSONNEL [40%]

Key personnel are those who will play an essential role in the contract. These include the persons responsible for managing the contract, co-ordinating the engineering, discipline lead specialist and subject matter experts where relevant.

Tenderers are advised to check the functionality requirements listed for key personnel in Page T2.32 to ensure the nominated key personnel are appropriately qualified and experienced. The key personnel that will be evaluated for functionality in terms of Page T2.32 are to be listed in the table below.

Provide relevant information (CV's) as prescribed below for each of the Key Personnel proposed in Page T2.32.

KEY PERSONNEL SCHEDULE

No.	Key Personnel Name	Role in the project	Minimum Requirements
1.			Microsoft Certified Solutions Associate – MCSA – Windows Server
2.			Microsoft Certified Solutiona Associate – MCSA – MS Exchange
3.			Microsoft Certified Technology Specialist - MCTS
4.			Microsoft Certified IT Professional - MCITP
5.			Microsoft Certified Specialist: Architecting Microsoft Azure Solutions (MS)
6.			Cisco Certified Specialist – Enterprise Design
7.			Cisco Black Belt Fire Jumper FE – Secure Firewall Stage 3
8.			Cisco Fire Jumper – Cisco Umbrella Deployment
9.			Cisco Certified Internetwork Expert (CCIE)
10			Cisco Certified Network Professional Enterprise (CCNP)
11			Cisco Certified Specialist – Enterprise Core
12			Cisco Certified Specialist – Enterprise Wireless Design
13			VMWare Certified Professional Network Virtualization (VMCP)
14			VMWare Certified Professional Data Centre Virtualisation
15			Veeam Certified Engineer - VMCE
16			HP Accredited Solutions Expert – Server Solutions Architect HP Accredited Technical Professional – Server Solutions
17			Unitrac & UniMPS Certification
18			Mitel Certified Professional
19			Trend Vision One Security Operations

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

- 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 (**not more than 3 pages**) in the required format below, shall be provided for each key person. Note that Copies of Qualification and Professional Registration Certificates should be attached.

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 Company
4. Overview last 10 years of experience (year, organization, position and projects)
5. Outline of recent assignments / experience that have a bearing on the scope of work for this tender **and the scoring criteria below**. The outline shall include start and finish dates of the assignments.
- 6.

The scoring of the experience of Key Personnel shall be as follows: [40%]

<p>Experience of Key Personnel:</p> <p>Experience of Microsoft Certified Solutions Associate – MCSA – Windows Server</p> <ul style="list-style-type: none"> • 5yrs – 2 points • 6yrs – 3 points • 7yrs or more – 5 points <p>Experience of Microsoft Certified Solutiona Associate – MCSA – MS Exchange</p> <ul style="list-style-type: none"> • 3yrs – 2 points • 4yrs – 3 points • 5yrs or more – 5 points <p>Experience of Microsoft Certified IT Professional - MCITP</p> <ul style="list-style-type: none"> • 1yr – 2 points • 2yrs – 3 points • >2yrs – 5 points <p>Experience of Microsoft Certified Technology Specialist - MCTS</p> <ul style="list-style-type: none"> • 1yr – 2 points • 2yrs – 3 points • >2yrs – 5 points	<p>|</p> <p>100</p> <p>|</p>
--	-------------------------------------

Experience of Microsoft Certified Specialist: Architecting Microsoft Azure Solutions (MS)

- 1yr – 2 points
- 2yrs – 3 points
- >2yrs – 5 points

Experience of Cisco Certified Specialist – Enterprise Design

- 1yr – 2 points
- 2yrs – 3 points
- >2yrs – 5 points

Experience of Cisco Black Belt Fire Jumper FE – Secure Firewall Stage 3

- 1yr – 2 points
- 2yrs – 3 points
- >2yrs – 5 points

Experience of Cisco Fire Jumper – Cisco Umbrella Deployment

- 1yr – 2 points
- 2yrs – 3 points
- >2yrs – 5 points

Experience of Cisco Certified Internetwork Expert (CCIE)

- 1yr – 2 points
- 2yrs – 3 points
- >2yrs – 5 points

Experience of Cisco Certified Network Professional Enterprise (CCNP)

- 1yr – 2 points
- 2yrs – 3 points
- >2yrs – 5 points

Experience of Cisco Certified Specialist – Enterprise Core

- 1yr – 2 points
- 2yrs – 3 points
- >2yrs – 6 points

Experience of Cisco Certified Specialist – Enterprise Wireless Design

- 1yr – 2 points
- 2yrs – 3 points
- >2yrs – 6 points

Experience of VMWare Certified Professional Network Virtualization (VMCP)

- 1yr – 2 points
- 2yrs – 3 points
- >2yrs – 6 points

Experience of VMWare Certified Professional Data Centre Virtualisation

<ul style="list-style-type: none"> • 1yr – 2 points • 2yrs – 3 points • >2yrs – 6 points <p>Experience of Veeam Certified Engineer - VMCE</p> <ul style="list-style-type: none"> • 1yr – 2 points • 2yrs – 3 points • >2yrs – 6 points <p>Experience of HP Accredited Solutions Expert – Server Solutions Architect HP Accredited Technical Professional – Server Solutions</p> <ul style="list-style-type: none"> • 1yr – 2 points • 2yrs – 3 points • >2yrs – 5 points <p>Experience of Unitrac & UniMPS Certification</p> <ul style="list-style-type: none"> • 1yr – 2 points • 2yrs – 3 points • >2yrs – 5 points <p>Experience of Mitel Certified Professional</p> <ul style="list-style-type: none"> • 1yr – 2 points • 2yrs – 3 points • >2yrs – 5 points <p>Experience of Trend Vision One Security Operations</p> <ul style="list-style-type: none"> • 1yr – 2 points • 2yrs – 3 points • >2yrs – 5 points 	
--	--



T2.2.7 EXPERIENCE OF KEY PERSONNEL (Continued)

INSERT KEY PERSONNEL CERTIFICATES & CVs HERE

T2.2.8 METHOD STATEMENT [20%]

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 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 who and when, to meet the requirements and indicate how risks will be managed and what contribution can be made regarding value management.

In reference to cyber security, the Tenderer must indicate their experience in dealing with incidents and outline the procedures that would be implemented to mitigate the risks and ensure the Purchaser is protected at all times. It must be demonstrated how the Tenderer will support the assignment and provide and maintain security awareness throughout the assignment.

The Tenderer must demonstrate an understanding of the objectives of supporting, managing and maintaining the ICT back office infrastructure, as well the implications of failures (down time) of these network devices, backbone connections, local connections, network appliances and applications on all the required solutions requested in the extent of services and the Purchaser's stated and implied requirements. Therefore the method statement must explain in detail the following key items:

Understanding of the associated technologies linked to the assignment

In depth value proposition of skills and resources to maintain the required service levels

Approach to maintaining, monitoring and reporting on solutions covered within this assignment. Detailed and concise evidence must be provided to the approach for the cyber security solutions

Response to outage, failures, congestion and poor network performance issues

Response to best practises and industry standards to be maintained

The response time to call-outs and ensuring quality of service for each call

The type of equipment/solution to be deployed for different services

Risk mitigation, Audit Finding resolutions and safe work procedures to be applied to ensure safety of personnel and minimise the impact in the case of working at plants or in relation to connectivity when working from heights with fall and arrest equipment.

The Tenderer must demonstrate an understanding of the objective of a Security Information and Event Management (SIEM) Managed Security Services in a Security Operation Center.

Compatibility – how do you operate and what security events can your MSSP platform support?

Please give a brief company description. Include how long the company has been providing MSS, an overview of your proposed services and explain your tiered service levels (if applicable).

Do you use your own SIEM technology, third party products or a combination for service delivery?

Describe the technologies, products and tools used to deliver each of the proposed services.

Technology event feeds – are you able to accept feeds from common security devices, network devices, applications, endpoints and databases – list supported products and versions (plus future roadmaps)?

Do you have specific support for [list Umgeni's required event sources – e.g. Microsoft, Cisco, SAP, Mitel, Labware, Water Net, F5 Load Balancer, Access Control (Impro) and CCTV (but be specific)]?

How does your company incorporate unsupported devices? What is your process for adding new device support?

Platform – who is responsible for new development or updates (individual security vendor, MSSP, or client)?

- Can you analyse and correlate data to identify security events and classify events according to severity?
- Can you correlate across multiple device types in a client environment? If so, how specifically is this accomplished?
- Can you correlate events by identity (user)?
- How is security event (threat) information shared between clients (if at all)? - are you able to correlate events across clients?
- Describe how you detect threats - do you use signatures, behavioural analysis, anomaly detection, volume analysis or malicious host detection?
- Standards - what configuration, automation, intelligence and reporting are available?
- Are custom rules available (at a client level) – or does your MSSP platform define only “global rules” for all customers? If available, how is this accomplished?
- Does your MSSP platform have any automation or integration (e.g. notifications, escalation, ticketing systems, etc.?)
- What global intelligence feeds does your MSSP platform use to list “known bad” and are these included or an add-on (at a cost)
- Do you enrich log data with other contextual elements such as IP reputation, Geo IP or assets?
- What standard reports exist, can these be customised (e.g. by client, by type, etc.)
- Support and Operations – overall structures available?
- Does your MSSP service have local presence (in what form), what redundancy does your service deliver (multiple SOC’s, each running 24x7 or follow-the-sun handovers, etc.)
- Is all customer event data stored within the borders of South Africa
- What are your service level agreements, are there financial penalties if the SLA is at not met?
- Do you have a customised escalation process for alerts? If so, please explain.
- What skills (certifications) do you maintain, are all of these skills local (if not what percentage are local to SA)
- What support structures exist (how do you interact – phone, message, email, portal, etc. - by who, from where, what times, etc. – please explain)
- Do you have a dedicated team for security research? If so, describe the focus of the research.
- What resources will you need from us during implementation and throughout the contract?

The scoring of the approach paper will be as follows:

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 generic but tailored to address the general project objectives and methodology. The approach does not deal with the critical characteristics of the project. The quality plan, manner in which risk is to be managed is very 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.

T2.2.8 METHOD STATEMENT (Continued)

INSERT HERE

T2.2.9 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

T2.2.10 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. uMngeni-uThukela Water will not consider any amendment, alternative offers or discounts unless forms (a), (b) and (c) have been completed to the satisfaction of the Employer).

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.]**



T2.41.

(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.....

T2.2.12 VAT REGISTRATION CERTIFICATE

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

T2.2.13 SCHEDULE OF PROPOSED SUB-CONSULTANTS

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-Consultants 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-Consultants 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-Consultant	Nature and extent of work	Previous experience with Sub-Consultant
1.			
2.			
3.			
4.			
5.			

Signature Date

Name..... Position

Tenderer.....



T2.2.14 PROOF OF PURCHASE OF TENDER DOCUMENT [NOT APPLICABLE]

**T2.2.15 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 and delete this note]

T2.2.16 PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2017 PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022

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

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

1. GENERAL CONDITIONS

- 1.1 The following preference point systems are applicable to invitations to tender:
 - the 90/10 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included)
- 1.2 **To be completed by the organ of state**
 - a) The applicable preference point system for this tender is the 90/10 preference point system.
 - b) The 90/10 preference point system will be applicable in this tender. The lowest/ highest acceptable tender will be used to determine the accurate system once tenders are received.
- 1.3 Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:
 - (a) Price; and
 - (b) Specific Goals.
- 1.4 **To be completed by the organ of state:**

The maximum points for this tender are allocated as follows:

	POINTS
PRICE	90
SPECIFIC GOALS	10
Total points for Price and SPECIFIC GOALS	100

- 1.5 Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.
- 1.6 The organ of state reserves the right to require of a tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.

2. DEFINITIONS

- (a) **“tender”** means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;

- (b) **“price”** means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- (c) **“rand value”** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;
- (d) **“tender for income-generating contracts”** means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and
- (e) **“the Act”** means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

3.1. POINTS AWARDED FOR PRICE

3.1.1 THE 90/10 PREFERENCE POINT SYSTEMS

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

90/10

$$Ps = 90 \left(1 - \frac{Pt - P \min}{P \min} \right)$$

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmin = Price of lowest acceptable tender

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

3.2.1. POINTS AWARDED FOR PRICE

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

80/20

$$Ps = 80 \left(1 + \frac{Pt - P \max}{P \max} \right)$$

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmax = Price of highest acceptable tender

4. POINTS AWARDED FOR SPECIFIC GOALS

4.1. In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations,

preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:

- 4.2. In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—
- (a) an invitation for tender for income-generating contracts, that either the 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or
 - (b) any other invitation for tender, that the 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system,
- then the organ of state must indicate the points allocated for specific goals for the 90/10 preference point system.

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

(Note to organs of state: Where 90/10 preference point system is applicable, corresponding points must also be indicated as such.

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

The specific goals allocated points in terms of this tender	Number of points allocated (90/10 system) (To be completed by the organ of state)	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)
An entity which is at least 51% owned by Black Youth	10		
An entity which is at least 51% owned by Black Women	10		

DECLARATION WITH REGARD TO COMPANY/FIRM

4.3. Name of company/firm.....

4.4. Company registration number:

4.5. TYPE OF COMPANY/ FIRM

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

[TICK APPLICABLE BOX]

- 4.6. I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the specific goals as advised in the tender, qualifies the company/ firm for the preference(s) shown and I acknowledge that:
- i) The information furnished is true and correct;
 - ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
 - iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;
 - iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have –
 - (a) disqualify the person from the tendering process;
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person’s conduct;
 - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
 - (d) recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
 - (e) forward the matter for criminal prosecution, if deemed necessary.

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



T2.2.17 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 Employer 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 Employer 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)

T2.2.18 TENDERER'S HEALTH AND SAFETY DECLARATION []

In terms of the Occupational Health and Safety Act (OHSA) 85 of 1993 and specifically the Government Notice No.R84 of 7 February 2014 by Department of Labour comprising the Construction Regulations 2014 (hereafter referred to as "the Regulations"), the Professional Services Provider appointed in terms of this tender assumes the role of the "Designer" as defined by the Regulations.

The Regulations impose duties on the Designer with regard to the design of both permanent and temporary works contemplated in terms of the Scope of Work outlined in C3. To that effect a person duly authorized by the Tenderer shall 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 Construction Regulations, 2014 contained in Government Notice No. R 84.
2. I hereby declare that my company / enterprise has the competence and the necessary resources to carry out the design work contemplated under this contract with due regard to the "Duties of Designer" outlined in Regulation 6 and to achieve compliance with the Regulations and the Employer's Health and Safety Specifications.
3. I hereby undertake, if my Tender is accepted, to comply with the requirements of the Regulations as they apply to the Designer and also as they apply to any other duties that, by agreement, may be delegated to me by the Employer. 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 comply with these requirements.
4. I hereby confirm that adequate provision has been made in my Tendered rates and prices in the Pricing Schedule (C2) to cover the cost of all resources, actions, training and all health and safety measures envisaged for the designer in the Regulations.
5. I hereby confirm that I will be liable for any penalties that may be applied by the Employer in terms of the Contract Data (C1.2 Clause 3.12) for failure on my part to comply with the provisions of the Act and the Regulations.
6. I agree that my failure to complete and execute this declaration to the satisfaction of the Employer will mean that I am unable to comply with the requirements of the Regulations, and accept that my Tender will be prejudiced and may be rejected at the discretion of the Employer.

SIGNATURE: DATE:

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



T2.2.19 PRO FORMA OHS NOTIFICATION

NOT APPLICABLE TO THIS TENDER

**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).

.....



T2.54.

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:

T2.2.20 LETTER OF INTENT TO PROVIDE PROFESSIONAL INDEMNITY AND PUBLIC LIABILITY INSURANCE

Requirements in respect of Public Liability and Professional Indemnity Insurance are stated in Contract Data Clause 5.4.1 on Page C1.9 of Volume 2 of the tender document.

INSERT HERE

T2.2.21 REGISTRATION & ISO CERTIFICATES

[Insert required registration and ISO Certificates]



T2.2.22 CENTRAL SUPPLIER DATABASE (CSD) REPORT

INSERT HERE



TENDER NO: 2026/063

TENDER TITLE:

ICT OPERATIONS MAINTENANCE AND SUPPORT FOR A PERIOD OF FIVE YEARS

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

Issued by:

uMngeni-uThukela Water
310 Burger Street
Pietermaritzburg

Tender Queries:

Contact Name: Mpho Biyela
Telephone: 035 902 1064

Name of Tenderer: _____

National Treasury CSD Number: _____

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 (Omit if not applicable)	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 procurement of the following works:

ICT OPERATIONS MAINTENANCE AND SUPPORT FOR A PERIOD OF FIVE YEARS

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

By the representative of the Tenderer, deemed to be duly authorized, signing this part of this Form of Offer and Acceptance the Tenderer offers to perform all of the obligations and liabilities of the 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 Professional 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

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)* uMngeni-uThukela Water

Address 310 Burger Street, Pietermaritzburg

Telephone number: 033 341 1111 **Fax number:**

AS WITNESS

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

Date:

C: SCHEDULE OF DEVIATIONS

The extent of deviations from the tender documents issued by uMngeni-uThukela 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, uMngeni-uThukela 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 uMngeni-uThukela 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 UMNGENI UTHUKELA 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)

This services contract is based upon the Standard Professional Services Contract (July 2009) (third Edition of CIDB document 1014), published by the Construction Industry Development Board (see www.cidb.org.za).

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

A. 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.

B. Application of Contract Price Adjustment Factor

Contract Price Adjustment will be applicable when increase of scope of work is effected due to growth of the organisation.

C. Progress Measurement and Payments

Progress measurement shall take place on or before, but not later than, the 30th of the month, but should the 30th be a 'non-working' day, it shall take place on the last working day prior to the 30th.

Statements, invoices and back-up documentation together with a monthly SLA document shall be submitted to the Employer on or before the 30th of the month for payment not later than the last day of the month following the month in which same were submitted.

PART 1: DATA PROVIDED BY THE EMPLOYER

Clause	Data
	The Employer is uMngeni-uThukela Water
3.4 and 4.3.2	The authorized and designated representative of the Employer is: Name: Roop Maharaj The address for receipt of communications is: Telephone: 033 341 1111 E-mail: roop.maharaj@uuw.co.za Address: uMngeni-uThukela Water 310 Burger Street Pietermaritzburg
1	The Project is ICT Operations Maintenance and Support for a period of five (5) years. .
2	The Period of Performance is 4 weeks from the Commencement Date.]
3.5	The location for the performance of the Project is Head Office
3.4	The Service Level Agreement shall be submitted within [14] Days of the Contract becoming effective.
5.4.1	The Service Provider is required to provide the following minimum insurances: 5.4.1.1 Public Liability Insurance Minimum Cover is: R10 000 000 (Ten million rand) Period of Cover: For the period of performance 5.4.1.2 Professional indemnity Minimum Cover: R5 000 000 (Five million rand) Period of Cover: For the period of performance 5.4.1.3 Cyber Liability Cover Minimum Cover: R5 000 000 (Five million rand) Period of Cover: For the period of performance
[5.5	The Service Provider is required to obtain the Employer's prior approval in writing before taking any of the following actions: 1 Removal of all UUW drawings and documentation]
[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.
8.4.3 (c)	The period of suspension under Clause 8.5 is not to exceed [6] weeks.
9.1	Copyright of documents prepared for the Maintenance and Support shall be vested with the [Employer.]
[11.1	A Service Provider may subcontract any work for which he hasn't the skill and competency to perform.]

12.1	Interim settlement of disputes is to be by adjudication.
12.2 / 12.3	Final settlement is by arbitration.
12.2.1	In the event that the parties fail to agree on an adjudicator, the adjudicator is nominated by the Association of Arbitrators (Southern Africa).
12.4.1	In the event that the parties fail to agree on an arbitrator, the arbitrator is nominated by Association of Arbitrators (Southern Africa).
13.1.3	All persons in a joint venture or consortium shall carry a minimum professional 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.
1	Delete the word of “Start” from “Start Date” and replace with “Commencement “and substitute the words “Contract Data” with “Form of Offer and Acceptance”.

PART 2: DATA PROVIDED BY THE SERVICE PROVIDER

Clause	Data
1	The Service Provider is. Name: Address: Telephone: Facsimile:
5.3	The authorized and designated representative of the Service Provider is: Name: The address for receipt of communications is: Address: Telephone: Facsimile:

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> </tbody> </table>	Name	Specific duties												
Name	Specific duties														

PART C2: PRICING DATA

C2.1 PRICING INSTRUCTIONS

1. Percentage Fee

- 1.1. **Definition of work required** - the Tenderer is required to review the scope of work defined within C3 and to determine all the resources, equipment, plant, machinery, disbursements and ancillary costs required to do the work.
- 1.2. **Definition of Percentage Fee** – on the basis of the Tenderer’s assessment of the work required, the Tenderer is required to determine the total percentage (%) fee to achieve the scope of work based on the Capital Value of the work set down in Table 2 of C2.2.
- 1.3. **Equipment, plant, machinery, disbursements and ancillary costs** – the Tenderer is required to include within the % fee all equipment, plant, machinery, disbursements and ancillary costs required to do the work as there will be no additional payment for such expenses.
- 1.4. **Tender Amount** - the Tenderer is required to fill in the % fee and complete the pricing calculations set down in C2.2 Pricing Schedule Table 2, and carry forward the tender amount from the C2.2 Pricing Schedule to the Offer C1.1.
- 1.5. **Payment** – the Tenderer will be paid the proportion of the fee for each stage of the work, as set down in the Pricing Schedule C2.2 Table 1.
- 1.6. **Interim Monthly Payments** - interim monthly payments shall be made within each work stage, for work assessed to have been completed within the month.

C2.2 PRICING SCHEDULE

The Pricing Schedule Shall be derivable based in percentage of the total as given in Table 1 below:

Table 1. Percentage Fee and Fee Amount Calculation

TENDER NO. 2026/063 - ICT OPERATIONS MAINTENANCE AND SUPPORT FOR A PERIOD OF FIVE YEARS				
Item/Service Description	Unit	Qty	Rate	Amount per item (excl VAT)
Microsoft Datacenter Application Maintenance and Support	No.	12		
Datacenter Maintenance and Support	No.	12		
Veeam Backup and Replication Maintenance and Support	No.	12		
Virtualization Maintenance and Support	No.	12		
LAN Equipment and Software Maintenance and Support	No.	12		
WAN Equipment and Software Maintenance and Support	No.	12		
Wireless LAN Equipment and Software Maintenance and Support	No.	12		
Data Cabling Add/Move/Repair and updated documentation	No.	12		
Telephony Equipment and Software (Per Site) Maintenance and Support	No.	12		
Security Hardware and Software Maintenance and Support	No.	12		
Allow Provisional Sum for Video Conferencing Hardware and Software Video Conferencing: Yealink Meeting Board 86", MB VC and Pro VC Package, MB Floors and Wall Stands, MB Remote, Yealink WPP30, Yealink Room Panel and Mecer 65", 75" and 86" Display Maintenance and Support	Prov. Sum	1	R160,000.00	R 160 000.00
Allow for Profit and Attendance	%	R160,000.00		
Allow Provisional Sum for Back-end Access Control, CCTV Equipment and Motorized Sliding Entrance Doors Maintenance and Support	Prov. Sum	1	R320,000.00	R320,000.00

C5.72

Item/Service Description	Unit	Qty	Rate	Amount per item (excl VAT)
Allow for Profit and Attendance	%	R320,000.00		
Wireless Backhaul Hardware and Software Maintenance and Support	No.	12		
Least Cost Routing / SIP maintenance and Support	No.	12		
Mitel MCD Enterprise SIP/IP Licenses and support	No.	12		
Data post Annual Software Upgrades & Report Support SLA	No.	12		
Datacenter Management Services and support	No.	12		
Monitoring Incident Services and support	No.	12		
Network Management Services and support	No.	12		
Cybersecurity Management Services and support	No.	12		
Point of Delivery AXIL Cold Isle (PoD) and AXIL Environmental Cabinets Management Services	No.	12		
Point of Delivery AXIL Cold Isle (PoD) and AXIL Environmental Cabinets Management Services maintenance and support	No.	12		
Security Information and Event Management (SIEM) Managed Security Services in a Security Operation Centre (SOC)	No.	12		
Self Service Kiosks maintenance and support	No.	12		
UniMPS Solution maintenance and support	No.	12		
Huawei Cloud Veeam Backup and DR Solution (Zerto) maintenance and support	No.	12		
A - Total for all items excluding VAT (Use to calculate CPG amount and percentage)				R
B - Contingency @ 10% of A				R
C - Subtotal (A + B)				R
D - VAT @ 15% of C				R
E - Total including VAT (C+D)				R
F – GRANDTOTAL per annum				R

1. In Table 1 Insert the work stages applicable for the scope of work to be done
2. In Table 1 Insert the Proportion of Fee per work stage to be paid for each work stage. Note the overall sum of the work stage proportions must add up to 100%
3. In Table 2 insert the approximate Capital Value of the work upon which the % fee is to be calculated

PART C3: SCOPE OF WORK

1. Background

- A. The service provider will deliver comprehensive hardware and software maintenance across uMngeni-uThukela Water's existing ICT infrastructure, including Datacentre, LAN, WAN, Wireless, Voice, Video Conferencing, Security platforms and Print Management Solution. The environment comprises multi-vendor, best-of-breed technologies that require consistent upkeep, proactive monitoring, and adherence to security and operational best practices.
- B. Support services will include continuous availability and performance monitoring, ensuring that all systems remain updated with the latest software patches, security updates, and firmware. Proactive maintenance must be performed across Datacentre, LAN, WAN, Wireless, Voice, Video Conferencing, Security platforms and Print Management Solution, with strict alignment to uMngeni-uThukela Water's security and compliance standards.
- C. The service provider is required to deliver first, second and third-level support based on defined service-level commitments—ranging from 4-hour response to 24-hour resolution, and 24/7 coverage where required. For Cybersecurity services, incident alerting, vulnerability detection, and breach notification are mandatory.
- D. uMngeni-uThukela Water's ICT Operations division is responsible for the deployment and maintenance of Back-Office systems, Business Systems infrastructure, Video Conferencing solutions, Operational Security, Environmental Cabinets, Point-of-Delivery (POD) Computer Rooms, Communications infrastructure, and Mobility platforms. The service provider will support these functions by ensuring stable operations and maintaining the uptime required for the organisation to meet its quarterly strategic and operational targets.
- E. Key outcomes include maintaining a fully operational, audit-ready environment with a minimum of ≥98% system uptime, complete and accurate documentation, and fully updated asset and configuration records. Routine governance and reporting obligations form part of this engagement.

2. Description of goods/ services required.

- Comprehensive monthly reports for each solution area.
- Up-to-date architecture and network diagrams, reflecting any changes to the environment.
- Implementation of industry best practices across all infrastructure and security domains.
- Consistently updated patching and firmware levels across all systems.
- Maintenance of an audit-ready environment, aligned to internal and external compliance requirements.
- Accurate and current asset management records.
- Daily, weekly, and monthly checklists established, updated, and monitored for all operational tasks.
- Verification and execution of all critical backups, ensuring recoverability and adherence to backup policies.

Configuration Management Database (CMDB)

Establishing and maintaining a comprehensive CMDB for the UUW ICT environment. In addition, the Service Provider must design, document, and implement a formal Change Management process to support ongoing governance, control, and operational efficiency within the UUW ICT environment.

Microsoft Datacentre Application

Active Directory

- Provide advanced support for the multi-domain AD DS forest.
- Manage domain trusts, schema updates, and replication across sites.
- Resolve authentication failures, replication conflicts, and Group Policy errors.
- Diagnose complex domain issues such as Kerberos failures, DNS inconsistencies, or domain controller outages.
- Maintain overall domain controller health, including patching, updates, and security hardening.
- Monitor and correct issues related to FSMO roles, replication delays, and directory integrity.

Microsoft Exchange

- Manage on-premises and hybrid Exchange/Office 365 deployments.
- Maintain mailbox databases, transport services, connectors, and public folder structures.
- Resolve mail flow disruptions, client access issues, and queue backlogs.
- Address performance degradation, database corruption, and service instability.
- Monitor Exchange health using diagnostics and performance tools, with proactive remediation.

Microsoft System Center Configuration Manager (SCCM)

- Manage SCCM infrastructure, including site servers, distribution points, and management points.
- Oversee operating system deployment (OSD), task sequences, imaging, and driver management.
- Maintain software update compliance across all servers and endpoints.
- Resolve issues with client health, update failures, deployment errors, or distribution point connectivity.
- Address package distribution issues and monitoring inconsistencies.
- Optimise SCCM performance and generate detailed compliance, deployment, and asset reports.

Microsoft System Center Operations Manager (SCOM)

- Configure and maintain SCOM monitoring packs for servers, applications, and critical infrastructure.
- Tune alerts to reduce noise and improve operational visibility.
- Resolve monitoring failures, agent health issues, and communication problems with management servers.
- Address alert floods, false positives, and performance monitoring inconsistencies.
- Apply updates to management packs, gateways, and SCOM infrastructure components.

Microsoft Azure Tenant Support

- Manage Azure AD tenants, security policies, conditional access, MFA, and identity governance.
- Maintain Azure subscriptions, resource groups, and RBAC permissions.
- Support hybrid identity (AD Connect), cloud-based authentication, and application enterprise registrations.
- Manage Azure resources such as virtual machines, storage accounts, networking components, and monitoring tools.
- Monitor Azure security alerts, compliance dashboards, and identity protection events.
- Ensure tenant configurations align with Microsoft best practices and organisational standards.

- Resolve sign-in issues, Azure AD sync failures, resource access problems, and policy conflicts.

Microsoft Datacentre Applications Support

- Implement best practices and recommend improvements for systems' reliability and security.
- Maintain comprehensive documentation of systems, configurations, and resolutions.
- Response and resolution times as per SLA.
- Adapt the ITIL requirements and provide the necessary framework and adherence.

Datacentre

- Support and configure datacentre server, SAN and networking hardware components in an event of failure, lightning damage or malfunction within hardware SLA and then replaced after the clients insurance process.
- Make provision of an Up-to-Date Hardware Maintenance register to perform pro-active maintenance of UJW equipment.
- Perform Quarterly Site Inspections and submission of report with recommendations and perform change control to rectify problem areas.
- Perform configuration changes in accordance to the manufacturers best practice guides. Perform firmware upgrades and License/support renewals.
- Monitor, analyse and remediate the Datacentre hardware with a view to ascertain possible bottlenecks or potential problem areas.
- Maintain latest configuration of UJW's architecture diagrams.
- Provide support as well as escalations to the vendor when required as per SLA.
- Adapt the ITIL requirements and provide the necessary framework and adherence.

Veeam Backup and Replication

- Manage and monitor successful completion of replication across main sites and backups across all corporate sites, including daily jobs and replication to secondary locations.
- Investigate and resolve backup failures related to storage connectivity, repository performance, or configuration conflicts.
- Optimise storage utilisation, retention policies, and repository growth.
- Perform regular recovery tests to validate data integrity and DR readiness.
- Response and resolution times as per SLA.
- Adapt the ITIL requirements and provide the necessary framework and adherence

Virtual Environment (VMware/Hyper-V/Verge IO)

- Provide maintenance and management of the virtual environment by proactive monitoring and management of ESXi hosts and vCenter to ensure optimal uptime, stability, and performance.
- Ensure compatibility between the firmware and hypervisor drivers before any updates are applied.
- Apply latest stable version updates, patches, and upgrades across the respective virtual environment.
- Optimise resource utilisation across virtual machines to prevent performance bottlenecks.
- Resolve issues related to Virtual performance, snapshot mismanagement, and storage latency.
- Address cluster-related challenges, including HA, DRS, and vMotion failures.
- Ensure respective virtual environments are fully aligned and configured for Veeam backup and replication operations.
- Provide 2nd and 3rd line support as well as escalations to the vendor when required.

- A key requirement will be to implement changes in accordance with the required change management and ITIL standards, relating to the Datacentre environment with a clear understanding of the underlying architecture.
- Response and resolution times as per SLA.
- Adapt the ITIL requirements and provide the necessary framework and adherence

Cisco LAN Equipment

- Provide and configure replacement LAN Equipment in an event of failure, lightning damage or malfunction within agreed SLA and then replaced after the clients insurance process.
- Make provision of an Up-to-Date Hardware Maintenance register to perform pro-active maintenance of UJW equipment.
- Perform Quarterly Site Inspections and submission of report with recommendations and perform change control to rectify problem areas.
- Perform configuration changes to Core, Edge, Distribution and Datacentre switches.
- Perform Cisco software upgrades, patches, firmware upgrades and License renewals. Monitor and analyse the local area network with a view to ascertain bottlenecks and potential problem areas.
- Maintain latest configuration of UJW's LAN diagram.
- Setup, configure and provide support for VLANs and network routing protocols as and when required and provide skills transfer to UJW Network Staff.
- Maintain an up-to-date IP address scope per site for all services such as Data, Voice, Wireless and CCTV.
- Response and resolution times as per SLA.
- Adapt the ITIL requirements and provide the necessary framework and adherence.

WAN Equipment (Cisco/Cambium/Ubiquiti)

- Provide and configure replacement WAN Equipment in an event of failure, lightning damage or malfunction within agreed SLA and then replaced after the client's insurance process. Make provision of an Up-to-Date Hardware Maintenance register to perform pro-active maintenance of UJW equipment.
- Perform Quarterly Site Inspections and submission of report with recommendations and perform change control to rectify problem areas.
- Perform configuration changes to routers and SD WAN devices.
- Perform software upgrades, patches, firmware upgrades and License renewals. Monitor and analyse the wide area network with a view to ascertain bottlenecks and potential problem areas.
- Maintain latest configuration of UJW's WAN diagram.
- Setup, configure and provide support of both layer 2 and layer 3 links, advanced network routing protocols and provide skills transfer to UJW Network Staff.
- Response and resolution times as per SLA.
- Adapt the ITIL requirements and provide the necessary framework and adherence.

Wireless LAN Equipment (Cisco/Cambium/Ubiquiti)

- Provide and configure replacement WLAN Equipment in an event of failure, lightning damage or malfunction within agreed SLA and then replaced after the client's insurance process. Make provision of an Up-to-Date Hardware Maintenance register to perform pro-active maintenance of UJW equipment.
- Perform Quarterly Site Inspections and submission of report with recommendations and perform change control to rectify problem areas.
- Perform Cisco software upgrades, patches, firmware upgrades and License renewals. Monitor and analyse the wireless local area network with a view to ascertain bottlenecks and potential problem areas.

- Maintain latest configuration of UJW's WLAN diagram. Setup, configure and provide support for both Wireless Controllers and Wireless Access Points and provide skills transfer to UJW Network Staff.
- Provide scans by taking building plans and running them through the Access Points software scanner to determine the required number of Access Points to deploy to prevent any dead spots for wireless connectivity.
- Response and resolution times as per SLA.
- Adapt the ITIL requirements and provide the necessary framework and adherence.

Network Cabling (Copper & Fibre)

- Provision, installation, relocation, and repair of Krone Cat 6A copper data points as well as single-mode and multi-mode fibre optic cabling, including backbone and distribution links between network cabinets, buildings, and floors.
- Supply and termination of fibre infrastructure, including fibre trays, patch panels, splice enclosures, pigtails, and LC/SC connectors, in accordance with industry standards and manufacturer specifications.
- Perform testing and certification of all new copper and fibre links, providing:
- Cat 6A test results to confirm compliance with prescribed Krone maximum lengths and performance standards.
- Fibre optic test results (OTDR and light loss testing) to verify signal integrity, attenuation levels, and link performance.
- Provide test results for both new and existing data points to ensure optimal performance and reduced latency.
- Perform monthly audits of copper and fibre data points to ensure:
- Correct labelling standards are maintained on data points, fibre panels, switches, and network cabinets.
- All cabling documentation and diagrams remain accurate and up to date.
- Maintain a comprehensive data point and fibre link register per site, including copper and fibre identifiers, routes, and termination details. Registers will be placed in protective jackets within the respective cabinets, updated monthly, and reviewed during monthly service meetings.
- Perform monthly preventative maintenance according to an approved schedule on all network cabinets, including inspection of copper and fibre terminations, patching, cable management, and environmental conditions.
- Provide fault finding and repair services for copper and fibre cabling, including fibre break detection, re-termination, and splice repairs where required.
- Response and resolution times will be delivered in accordance with the agreed SLA.

Telephony (Mitel/Cisco - Per Site)

- Provide and configure replacement Cisco or Mitel Equipment in an event of failure, lightning damage or malfunction and then replaced after the client's insurance process.
- Provision of an Up-to-Date Hardware Maintenance register to perform pro-active maintenance of UJW PABX and Telephony end user equipment.
- Perform Quarterly Site Inspections and submission of report with recommendations and perform change control to rectify problem areas.
- Provide and maintain Cisco & Mitel software updates, hotfixes and security updates.
- Telephone Infrastructure management to be integrated into the Network Management System.
- Make provisions to upgrade to latest version of all Cisco & Mitel PABX.
- Interact with Telkom and other 3rd Party Telco providers on UJW's behalf when logging faults and follow-up accordingly.
- Provide, support and maintain SIP Least Cost routing solutions with skills transfer to UJW Network Staff.

-
- Provision of ad-hoc telephony configurations including add, move and changes.
 - Response and resolution times as per SLA.

Security (Cisco/Trend Micro/Qualys)

- Security Equipment Replacement & SLA Compliance (Cisco)
- Provision, configuration, and commissioning of replacement Cisco security equipment (including firewalls, secure switches, VPN and identity appliances) in the event of hardware failure, lightning damage, or critical malfunction.
- Temporary replacement equipment must be deployed within the agreed SLA to ensure continuity of services, with permanent replacement completed following the client's insurance process.
- All equipment to be configured according to Cisco security hardening best practices.

Hardware Maintenance Register & Proactive Lifecycle Management (Cisco)

- Maintain an up-to-date Hardware Maintenance Register for all UJW security and network assets, including model, serial number, location, software versions, warranty status, and EoL/EoS timelines.
- This register must be used to support proactive maintenance, risk reduction, and upgrade planning.

Security Monitoring, Breach Detection & Mitigation (Cisco / Trend Micro / Qualys)

- Security Equipment Replacement & SLA Compliance (Cisco)
- Provision, configuration, and commissioning of replacement Cisco security equipment (including firewalls, secure switches, VPN and identity appliances) in the event of hardware failure, lightning damage, or critical malfunction.
- Temporary replacement equipment must be deployed within the agreed SLA to ensure continuity of services, with permanent replacement completed following the client's insurance process.
- All equipment to be configured according to Cisco security hardening best practices.
- Hardware Maintenance Register & Proactive Lifecycle Management (Cisco)
- Maintain an up-to-date Hardware Maintenance Register for all UJW security and network assets, including model, serial number, location, software versions, warranty status, and EoL/EoS timelines.
- This register must be used to support proactive maintenance, risk reduction, and upgrade planning.
- Security Monitoring, Breach Detection & Mitigation (Cisco / Trend Micro / Qualys)
- Provide continuous monitoring of network security breaches, intrusion attempts, and vulnerabilities.
- Cisco network telemetry is correlated with Trend Micro endpoint threat intelligence and Qualys vulnerability data.
- All incidents must be investigated, mitigated, and reported in line with agreed incident response procedures and SLAs.

SOC / SIEM Integration, Monitoring & Response

- Integrate all relevant security systems and data sources into a client-owned and/or third-party Security Operations Centre (SOC) and Security Information and Event Management (SIEM) platform.
- Security logs, telemetry, and events from Cisco security infrastructure, Trend Micro endpoint and workload protection, Qualys vulnerability platforms, and supported third-party systems must be ingested, normalised, and correlated in near real time within the designated SOC/SIEM environment.

The service provider must:

- Configure and maintain log sources, integrations, parsers, correlation rules, and alert thresholds within the client-owned or third-party SOC/SIEM platform.
- Monitor security events, alerts, and anomalies generated by the SOC/SIEM platform in line with agreed service scope and SLAs.
- Analyse correlated events to identify potential security incidents, indicators of compromise (IoCs), and policy violations.
- Perform initial incident triage and take or recommend response actions in accordance with agreed incident response procedures and escalation paths.
- Escalate confirmed or high-risk incidents to designated client stakeholders with clear impact assessment, root cause analysis, and remediation guidance.
- Maintain incident records, audit trails, and supporting evidence to enable forensic investigations, compliance audits, and regulatory reporting.

Security Alerts, Notifications & Dashboards

- Deliver centralized security alerting via SMS, email, and real-time dashboards. Dashboards must provide visibility into threat severity, vulnerability posture, endpoint health, and incident response metrics.

Ad-Hoc Security Configuration (Add, Move & Change)

- Perform ad-hoc security configuration changes including firewall rule updates, network segmentation changes, endpoint security policy adjustments, and vulnerability scan modifications.
- All changes must be documented and executed in line with change management processes.

Network Identity Access Control & Traffic Inspection (Cisco)

- Implement and manage Cisco Network Identity and Access Control (NAC) to enforce role-based access, device posture validation, and secure wired, wireless, and VPN access.
- Network traffic inspection, log correlation, and security analytics must be provided to detect anomalies and policy violations.

Vulnerability Scanning, Remediation & Reporting (Qualys)

- Conduct scheduled and on-demand vulnerability scanning across servers, endpoints, and network devices using Qualys.
- Vulnerabilities must be prioritised by risk, remediation guidance is provided, and validation scans confirm mitigation.
- Formal reports must be delivered to stakeholders.

Endpoint & Workload Protection (Trend Micro)

- Deploy and manage Trend Micro endpoint and workload protection to defend against malware, ransomware, zero-day threats, and advanced persistent threats.
- Policies must be continuously updated and tuned, with telemetry integrated into centralized monitoring.

Multi-Vendor Security Oversight & Hardening

- Provide overarching security governance across Cisco, Trend Micro, Qualys, and third-party solutions.
- Enforce consistent security hardening standards, configuration baselines, and institutional security policies.

Log Management, Auditing & Compliance

- Centralize and retain logs from all monitored systems.

- Enable advanced filtering and reporting to support audits, compliance requirements, and forensic investigations in line with retention policies.

Onsite Cybersecurity Resource

- Provide an onsite cybersecurity resource as required to support incident response, audits, security reviews, troubleshooting, and stakeholder engagement.

Trend Micro Vision One – Daily Operations

- Validate Vision One service availability, sensor connectivity, and data ingestion status.
- Review system health dashboards and resolve ingestion or integration errors.
- Perform daily alert queue review, categorisation, and prioritisation based on severity and risk.
- Tune detection rules, exclusions, and response actions to reduce false positives.
- Validate automated response actions (isolation, blocking, and user containment).
- Maintain integration with email, endpoint, server, network, cloud, and identity sources.

Alert Investigation and Threat Analysis

- Analyse XDR detections using MITRE ATT&CK techniques and threat intelligence context.
- Correlate multi-domain telemetry to identify attack paths and lateral movement.
- Determine scope, impact, affected assets, and users.
- Collect forensic artefacts where required (logs, hashes, indicators).
- Escalate confirmed incidents according to SOC severity and SLA definitions.

Incident Response Execution

- Coordinate containment actions such as endpoint isolation and network blocking.
- Support eradication and recovery activities with IT and SOC teams.
- Validate remediation effectiveness and close incidents.
- Produce incident reports including timeline, root cause, and lessons learned.
- Update detection and response logic based on incident findings.

Network Security, Zero Trust & Advanced Protection

- Monitor and tune Trend Micro NDR detections and anomaly baselines.
- Administer Tipping Point IPS policies, signature updates, and exception handling.
- Review blocked traffic and IPS alerts for false positives or tuning needs.
- Support Zero Trust Secure Access policy enforcement and access reviews.
- Validate least-privilege access for users, devices, and applications.

Vulnerability Management

- Review and validate vulnerability scan results.
- Prioritise vulnerabilities based on exploitability, exposure, and threat context.
- Correlate vulnerabilities with active alerts within Vision One.
- Track remediation progress and validate fixes.
- Provide vulnerability status reporting and remediation guidance.

Security Advisory, Reporting, and Governance Tasks

- Prepare daily, weekly, and monthly security operational reports.
- Provide risk-based security recommendations to stakeholders.
- Support audits, compliance assessments, and governance initiatives.
- Maintain operational documentation, run books, and procedures.

Core Trend Micro Experience Requirements

- Minimum 5+ years hands-on experience administering and supporting Trend Micro security technologies in production environments.
- Demonstrated operational experience with Trend Micro Vision One, including XDR investigations and response actions.
- Minimum 5+ years' experience with Trend Micro Network Detection and Response (NDR) and Trend Micro Tipping Point IPS technologies.
- Proven ability to tune policies, signatures, and detections to reduce false positives and improve security efficacy.

Training and Certification Requirements

- Minimum of two (2) or more advanced Trend Micro certifications or official training accreditations.
- Certifications must be relevant to Vision One, XDR, NDR, Tipping Point, Cloud Security, or Zero Trust technologies.
- Ongoing commitment to maintaining Trend Micro technical currency through continuous training.

Cybersecurity Service Delivery Experience

- Minimum 5+ year's technical experience delivering cybersecurity services in enterprise, MSSP, or consulting environments.
- Experience supporting client-facing engagements, including service delivery, troubleshooting, and optimisation.
- Ability to work independently and deliver services aligned to SLAs and operational KPIs.
- Incident Response and Threat Handling
- Hands-on experience in security incident investigation, containment, eradication, and recovery.
- Ability to perform root cause analysis and produce post-incident reports.
- Experience supporting SOC-led incident response processes and escalations.

Vulnerability Management Requirements

- Minimum 5+ years' experience performing vulnerability management activities.
- Ability to assess, prioritise, and track vulnerabilities based on risk and threat context.
- Experience correlating vulnerability data with active detections in Trend Micro Vision One.

Security Advisory and Communication Skills

- Ability to act as a trusted security advisor to technical and non-technical stakeholders.
- Strong documentation and reporting skills.
- Ability to translate technical security findings into business risk and remediation guidance Management Requirements.

Skills Transfer & Knowledge Enablement

- Deliver structured skills transfer to UJW Security and Network staff through documentation, workshops, and hands-on sessions covering platform operations, incident handling, and security best practices.

SLA Response & Resolution

- All services must be delivered in accordance with agreed SLA response and resolution times.
- Incidents must be prioritised by severity and business impact, with performance monitored and reported regularly.

Video Conferencing

- (Yealink Meeting Board 86", MB VC and Pro VC Package, MB Floors and Wall Stands, MB Remote, Yealink WPP30, Yealink Room Panel and Mecer 65", 75" and 86" Displays)
- Provide and configure replacement video conferencing Equipment in an event of failure, lightning damage or malfunction within agreed SLA, and then replaced after the insurance process.
- Make provision of an Up-to-Date Hardware Maintenance register to perform pro-active maintenance of UUW equipment.
- All equipment must be protected by the client's firewall.
- All equipment must have the latest firmware installed and reported on a monthly basis. Install and configure new licences purchased by the client.
- Perform Quarterly Site Inspection on products and report and rectify problem areas. Provide support on meetings as and when required.
- Hardware - have Back to back Agreements (Partner premier), this must enable swop out guarantee on any hardware that malfunctions (excluding lightning and physical damage). Provision of hospital stock where the SLA contractor keeps spare hardware stock to fit in the case of an emergency.
- Software - Vendor Back to back Agreements (partner Premier) this is a swop out guarantee on any hardware where the Software upgrade malfunctions.
- Video Infrastructure management to be integrated into the Network Management System.
- 2 Hours for sites within City of Pietermaritzburg, 4 Hours nearby sites within 50Km of Pietermaritzburg and 24 Hours for sites further than 50Km of Pietermaritzburg.
- Provision of Annual registering hardware to VMR's and licence configuration.
- Training of ICT support staff, secretaries and Room Administrators and new staff.

Access Control, CCTV and Motorized Sliding Entrance Doors

- Provide and configure replacement Access Control and CCTV Equipment in an event of failure, lightning damage or malfunction within agreed SLA and then replaced after the client's insurance process.
- Provision of an Up-to-Date Hardware Maintenance register to perform pro-active maintenance of UUW Access Control, CCTV and Motorized Sliding Entrance Door equipment as per approved schedule.
- Provision of hardware and software firmware/patch updates.
- Service Provision for following CCTV categories:
 - Video Recording Equipment
 - Media Convertors and switches
 - Additional servers and storage raid systems
 - New storage system PMB
 - I.P Cameras
 - Analogue cameras
 - HDCVI cameras
 - Power supplies and connectors
 - Cabling Associated to all of the above
 - Cable Connectors and Junction Boxes
 - Monthly service on redundancy storage
 - Service Provision for CCTV Redundancy Storage:
 - Monthly Service
 - Check and report on functionality of Two x Five Hundred Terabyte storage systems
 - Ensure sufficient space on Storage Servers for new Video recording throughout
 - Head office NCT and Prince Alfred camera equipment
- Service Provision for following Access Control categories:

- Access Control Engine and Servers
- Access Control Client Machines
- Main area Controllers
- Door Terminal
- Door Antennas
- Emergency override equipment
- Power supplies and Batteries
- Enrolment stations
- Door Locks, Cabling and Enclosure
- Service Provision for following Motorized Sliding Entrance Doors categories:
- Service and maintain
- Includes Servicing of rolling out equipment
- Response and resolution times as per SLA.
- The Service Provider must make provision to cover the following:
- Quarterly Service of all CCTV & Access Control Equipment Serviced on a rotational Basis. This will be done together with agreement with UUW Project Manager
- Replacement of consumables as and when necessary (section of cabling, batteries and power supplies)
- Attend to faulty equipment in-between quarterly service period as and when reported
- The Service contract must cover all of the electronic equipment that is presently functional
- And in use for the operation of the Existing CCTV & Access equipment throughout the
- UUW various plants

Wireless Backhaul (Cambium/Ubiquiti)

- Provide and configure replacement Wireless Equipment in an event of failure, lightning damage or malfunction within agreed SLA and then replaced after the clients insurance process.
- Provision of an Up-to-Date Hardware Maintenance register to perform pro-active maintenance of UUW Wireless equipment.
- Quarterly Site Inspection and production of report and rectify problem areas.
- Wireless software upgrades, hotfixes and patches.
- Provide network availability and Quality of Service detailed reports of the network backbone. Wireless Infrastructure Management to be integrated into the Network Management System. The responsible engineers must have a valid fall and arrest certificate.
- Response and resolution times as per SLA.

Least Cost Routing / SIP

- Provide and configure replacement solution equipment in an event of failure, lightning damage or malfunction and then replaced after the client's insurance process.
- Provision of an Up-to-Date Hardware Maintenance register to perform pro-active maintenance of UUW solution equipment.
- Perform Quarterly Site Inspection on products and report and rectify problem areas.
- Solution Infrastructure management to be integrated into the Network Management System. Response and resolution times as per SLA.

Cisco CUCM & Mitel MCD Enterprise SIP/IP Licenses

- Provide and configure new, move SIP/IP licenses as and when required.
- Response and resolution times as per SLA.

Data post Annual Software Upgrades & Report Support SLA

- Provide and configure all new software upgrades and provide remote support to all installed sites.

-
- Supply and install new licenses as required.
 - Provide and configure replacement solution equipment in an event of failure, lightning damage or malfunction and then replaced after the insurance process.
 - Response and resolution times as per SLA.

Datacentre Management Services

- The vendor must adhere to and provide the following:
- Specify monitoring and management tools to be used.
- Monthly meeting to discuss findings and possible solutions
- Management/Monitoring of server and storage hardware with life cycle management
- Management/Monitoring of VMware Virtual Centre, ESXi or respective virtual centre
- Management/Monitoring of HPE server health status and performance
- Management/Monitoring of VMware Cluster or respective virtual environment availability and reliability.
- Monitoring, reporting and fine-tuning performance metrics on Virtual Hosts
- Monitoring, reporting and fine-tuning Virtual Machine metrics
- Provision for design for future projects or expansion
- Monthly and quarterly availability and performance reports VMware or respective virtual environment infrastructure and Storage.
- Administrator duties such as diagrams, management station, configuration backups, audit reports and system log reports
- Perform software upgrades, hotfixes, patches, feature releases and license renewals
- Analyse reports and rectify problem areas
- Perform monthly capacity reports with recommendations
- Training of UuW Network Personnel on installed components or products
- Provide network alarm/alert notification system via email
- Virtual Machine monitoring for up-down status
- Provision of ad-hoc network configurations including add, move and changes to virtual Distributed Switch/HPE Chassis network switches and Cisco terms of reference (ToR) switches.
- Threshold monitoring, reporting and resolution
- Must perform remote support when required
- Monitoring and notification of services via email within identified servers
- Response and resolution times as per SLA
- Adapt the ITIL requirements and provide the necessary framework and adherence.

Monitoring Incident Services

- Service Provider will utilize the Monitoring software to assess uptime and availability of uMngeni-uThukela Water Cisco and Ubiquiti/Cambium networking including CmMaestro infrastructure within KwaZulu Natal.
- Incidents detected by Monitoring software must be responded to base upon alert severity and potential impact to business.
- Items to be monitored:
- Cisco Security Appliances
- Ubiquiti/Cambium Wireless Backhaul Equipment
- Cisco WAN, LAN and WLAN Equipment.
- Monitoring Software will need to monitor other equipment which the service provider will not be responsible for.
- Management/Monitoring of network Redundancy for Core, Distribution Switches and Firewalls

- Management/Monitoring of network device health status and performance for Core & Distribution Switches and Firewalls
- Management/Monitoring of LAN network device availability and reliability
- Management/Monitoring of WLAN device availability and reliability
- Monitoring, and fine-tuning Quality of Service (QoS) on Voice over IP Network (VoIP) using the DNA Centre.
- Monitoring, reporting, and fine-tuning Wireless Access Points.
- 1 wireless scan per quarter must be provided. (Limited to the three major sites namely, PMB head office, Pineside and Richards Bay.)
- Provide and manage network alarm/alert notifications via email.
- Monitor the Wan thresholds required by uMngeni-uThukela Water and will be reported on monthly.

Network Maintenance Services:

- Service Provider will perform routine monthly maintenance sweeps utilizing cisco DNA against the cisco networking configuration and device health covered under this Sow Where concerns are noted, preventative remote maintenance will be performed where possible. The service provider will raise issues outside of its responsibilities to uMngeni-uThukela Water with the issues found, and any known remediation where feasible.

Asset Registers

- Service Provider must maintain the uMngeni-uThukela Waters Cisco network infrastructure asset register(s) through WhatsUp Gold or Cisco Catalyst/DNA.
- The asset register will indicate Device IP, Name, Serial Number, Firmware Revision, Make, Model and life cycle details.
- The asset register will be updated upon change and validated monthly.

Network Topology Diagrams

- Service Provider must maintain the customer's current cisco network topology diagrams on behalf of uMngeni-uThukela Water.
- The diagrams must show high view connectivity of the client's cisco switching and wireless Access Point environment.
- The diagrams is expected to indicate the varied, WAN Links, Security Appliances, Core, Distribution, Access switches and Wireless Controllers and their Wireless Access Points.

Hardware Failure Support

- For hardware or software failure of applicable cisco devices at corporate sites, the service provider will install replacement unit from "hospital stock" to restore service.
- RMA or replacement process will need to be initiated based on assessment of faulty unit.

Network Management:

Firmware

- Service Provider will perform one annual Mass Deployment (MD) update to the networking devices covered under this Sow (Service Provider will be granted respective access to the UJW Vendor portal to download software and log TAC cases if required).
- Firmware upgrades will be based on the vendors recommended revision; the firmware revision will be deployed once change control has been approved.
- In the event a vulnerability is detected within an asset firmware revision and said asset is covered under this Sow, and only when the UJW is directly compromised by the vulnerability, the service provider will be required to perform an emergency patch update where available or administer any known configuration remediation to limit or mitigate the customer's potential risk.

Configuration Management

- The last known configuration snapshot will be managed by the service provider within Cisco DNA in the event a configuration rollback is required.
- Configuration backups must be taken prior to any major change applied to the environment as well as once monthly during the routine remote maintenance schedule.

Licencing

- Service Provider must manage and reporting to U UW when renewals or end of life announcements have been confirmed.
- Service Provider will be required to assist U UW in maintaining asset licencing for Cisco contracts in place.

Catalyst Centre Management

- The service provider shall maintain the current state of the DNA server. The service provide will be responsible to make sure all devices get configured on the DNA Centre for management purposes.
- The service provider will be responsible to update the version of software/firmware to the Mass Deployment version as recommended by the Vendor once a year unless there is a vulnerability relating to the client's security.

Umbrella Management

- The service provider shall maintain the current state of the Cisco Umbrella product installed. The service provider will be responsible to make sure all configuration is correct based on the scope of work supplied by the U UW.
- The service provider will be responsible to update the version of software/firmware to the Mass Deployment version as recommended by the Vendor once a year unless there is a vulnerability relating to the client's security.

ISE Administration

- The service provider shall maintain the current state of the Cisco ISE product installed. The service provider will be responsible to make sure all configuration is correct based on the scope of works supplied by the U UW.
- The service provider will be responsible to update the version of software/firmware to the Mass Deployment version as recommended by the Vendor once a year unless there is a vulnerability relating to the client's security.

Management Meeting

- Service provider will be required to allocate a resource to present the monthly network report and to discuss findings and possible solutions.

Secure Network Analytics (SNA) Administration

- The service provider shall maintain the current state of the Cisco Secure Network Analytics (SNA) product installed.
- The service provider will be responsible to make sure all configuration is correct based on the scope of works and policies supplied by the U UW.
- The service provider will be responsible to update the version of software/firmware to the Mass Deployment version as recommended by the Vendor once a year unless there is a vulnerability relating to the client's security.

- The Service Provider's responsibilities for Secure Network Analytics (SNA) are exclusively limited to configure the system to generate alerts and forward notifications to their designated Security Operations Centre (SOC).

Cisco Duo Management

- The service provider shall maintain and support the current Cisco Duo multi-factor authentication (MFA) environment.
- This includes ensuring that all Duo configurations, authentication policies, user settings, and integrations remain accurate and aligned with the scope of works supplied by the UUW.
- The service provider will perform ongoing validation of MFA policies, device health controls, SSO integrations, and user lifecycle management processes.
- The service provider is also responsible for updating the Cisco Duo service components, connectors, and authentication proxies to the Mass Deployment version recommended by the vendor once per year, unless an earlier update is required due to a security vulnerability affecting the client's security posture.

Network & Security Support:

Network

- The service provider will allocate the necessary skilled resources within agreed SLA from level 1 telephonic support personnel to level 2 remote/onsite support with escalation to Level 3.
- Wireless Backhaul Support: Service provider to supply onsite and remote support.
- Items Covered: Cisco WAN, Cisco Switching, Cisco Wireless, Ubiquiti & Cambium backhaul equipment only.
- Provision of ad-hoc network configurations including add, move and changes.
- The vendor must adhere to and provide the following:
 - Specify monitoring and management tools to be used.
 - Monthly meeting to discuss findings and possible solutions.
 - Management/Monitoring of network devices with life cycle management.
 - Management/Monitoring of network redundancy.
 - Management/Monitoring of network device health status and performance.
 - Management/Monitoring of LAN network device availability and reliability.
 - Management/Monitoring of WLAN device availability and reliability.
 - Management/Monitoring of Voice and Video device availability and reliability.
- Monitoring, reporting and fine tuning Quality of Service (QoS) on Voice over IP Network (VoIP).
- Monitoring, reporting and fine tuning Wireless Access Points and coverage maps
- Provision for design for future projects or expansion.
- Perform periodic wireless scans to identify lack of coverage areas and provide diagrams with corrective actions.
- Monthly and quarterly availability and performance reports for data and voice infrastructure.
- Administrator duties such as diagrams, management station, weekly network (Data & Voice) configuration backups, respond to audit reports and system log reports.
- Perform software upgrades, hotfixes, patches, feature releases and license renewals.
- Analyse reports and rectify problem areas.
- Perform monthly port capacity.
- Training of UUW Network Personnel on installed components or products.
- Provide network alarm/alert notification system via SMS and email.
- Voice quality monitoring.
- Application monitoring.
- Provision of ad-hoc network configurations including add, move and changes.

- Threshold monitoring, reporting and resolution.
- Must perform remote support when required.
- Monitoring and notification of services via SMS and email within identified servers.
- All above will be required for the Corporate Networks only.
- Provision of Wireless LAN equipment configuration and monitoring thereof.
- Provision of asset management and quarterly audit of assets performed.
- Provision of Wireless backbone equipment configuration and monitoring thereof.
- Response and resolution times as per SLA.
- Support in accordance with Cisco best practice.

Security

- The service provider will allocate the necessary skilled resource within SLA to support where necessary as well as action ad-hoc requests for configuration additions, moves and changes after change control approval.
- Items Covered: ISE, DNA Infrastructure, Cisco Firewalls, Umbrella, Duo and Secure Network Analytics (SNA).
- Ongoing security notifications and alerts for real time threats and vulnerabilities must be automated to the UJW SOC.
- Management/Monitoring of ASA and FTD Firewalls.
- Management /Monitoring of Firewall Management Centre.
- Management/Monitoring of Identity Based Security Solutions.
- Management/Monitoring of Network Visibility and Security Solutions.
- Management/Monitoring of Patch management including Umbrella DNS network security.
- Management of Remote Access, and Secure VPN connection system log reports.
- Perform software upgrades, security patches, hotfixes, and firmware upgrades.
- Inform UJW on all security product license renewals, to be completed on an annual basis.
- Provide network alarm/alert notification system via email.
- Response and resolution times as per SLA.

On-Site Technical Support

- The Service Provider must provide a resource, to facilitate hardware replacements for Cisco devices at the respective UJW Sites.
- Cisco Access Points will be replaced by Service Provider's resources, when installed higher than two meters.
- Service Provider must supply an onsite resource where required, when replacement of any cambium backbone equipment has gone faulty and/or loss of alignment.
- The service providers' resource will be responsible for reconfiguration and signal frequency manipulation.
- On-Site Technical Support SLA.

Expectancy:

- Address findings on routine network vulnerability scans and external vulnerability risks.
- Analyse reports and provide threat intelligence and best practice mitigation techniques.
- Perform annual penetration test.
- Perform 6 monthly vulnerability.

Reporting Services

- Service Provider must submit monthly reports.
- The report must be for the previous month events and include the following data.

Network performance report(s)

-
- Data and voice infrastructure.
 - Switch, Access Point Inventory
 - Switch Availability $\geq 98\%$
 - Switch Health (CPU & Memory Usage)
 - Perform monthly port capacity Report.
 - Network Uptime $\geq 98\%$
 - Security Uptime $\geq 98\%$
 - Server Uptime $\geq 98\%$
 - Exchange Uptime $\geq 98\%$
 - Telephony Uptime $\geq 98\%$

Cambium Network

- Cambium PPTP Backhaul availability $\geq 98\%$

Security Report

- Firewall Inventory
- Firewall Application $\geq 98\%$
- Firewall Dashboard Summary

Point of Delivery AXIL Cold Isle (PoD) and AXIL Environmental Cabinets Management Services

- The vendor must adhere to and provide the following:
- Provision of all licences and monitoring for the Pod and environmental cabinets for the required period.
- Provision for maintenance of The Pods and Environmental cabinets. Monitoring and reports of this environment, including SMS notification.
- Reporting on the access to all environmental and PoD cabinets with who accessed, date and time.
- Perform and report on firmware/patch updates.
- Must be able to perform remote support.
- Provide monthly report on who has access to the PODs and environmental cabinets.
- Provide maintenance schedule on all environmental equipment of all PODs and cabinets. Provide all maintenance work sign-offs done as per agreed schedule.
- Response and resolution times as per SLA. $\geq 98\%$

Self Service Kiosks

The vendor must adhere and provide the following:

Perform assessment to ensure all is operational every 6 months.

On assessment, service provider must run a general service on the kiosks to ensure all is operational from a hardware point of view.

- Clean out the kiosks (dust/dirt build up)
- Give the kiosk a wipe down
- Calibrate the touchscreen
- Clean the thermal A4 printer
- Replenish the thermal paper and supply 2x A4 Thermal Paper Rolls
- Open up the PC and clean out the internal PC fan to ensure it's not clogged up with
- Dust and is spinning freely to ensure proper cooling of internal PC hardware.
- Test the UPS is holding charge and functional
- Response and resolution times as per SLA. $\geq 98\%$

UniMPS Solution

- The service provider must be a certified partner to deploy, configure and support the following UniMPS® modules:
- Print Scope (Primary Module), Print Service, Job store, Embedding Services, Terminal Service, Report Centre, Embedded Terminal (MFD Integration).
- Ongoing monitoring of service health and print workflow stability.
- Troubleshooting of print job issues, database connections, and module communication.
- Updates and patch management for all UniMPS® components.
- Response and resolution times as per SLA. ≥98%

Huawei Cloud Backup and DR Solution

- The Service Provider must support, manage, optimise, and maintain the organisation's existing Huawei Cloud-based Backup and Disaster Recovery (DR) solution.
- The Service Provider must be an authorised Huawei Cloud Partner and must demonstrate proven capability in supporting, securing Huawei Cloud infrastructure and Veeam-based backup environments.

Operational Support

- Monitoring the Huawei Cloud backup and DR environment.
- Ensuring 99.99% service availability in alignment with cloud SLA commitments.
- Managing backup job execution, monitoring, and failure remediation.
- Performing system health checks and optimisation.
- Managing storage utilisation and capacity planning.

Backup Management

- Administering Veeam Backup & Replication.
- Ensuring adherence to defined retention policies (Daily: Month days, Weekly: 4 weeks, Monthly: 12 months, Yearly: 7 years).
- Managing immutable backup configurations.
- Validating backup integrity and performing periodic restore testing.

Disaster Recovery Management

- Maintaining DR readiness (RTO: 7 days; RPO: 24 hours).
- Administering Zerto & Replication.
- Supporting DR Failover and failover procedures.
- Conducting scheduled DR tests and simulations for SAP, SCADA and Corporate Systems.
- Providing post-test reporting and remediation recommendations.

Security Management

Ensuring ransomware protection mechanisms remain operational.

- Managing encryption settings (at rest and in transit).
- Enforcing RBAC and MFA controls.
- Monitoring audit logs and administrative activities.

Connectivity Management

- Monitoring and supporting the dedicated link to Huawei Cloud.
- Coordinating with network providers where required.
- Ensuring connectivity redundancy and performance stability.

Service Level Requirements

- Provide support aligned to a minimum 99.99% cloud availability SLA.
- Deliver monthly operational performance reports.

Mandatory Service Provider Requirements

- Provide valid proof of Huawei Cloud partnership status.
- Demonstrate experience supporting Veeam Backup & Replication integrated with Huawei Cloud.
- Failure to provide proof of Huawei Cloud Partner status may result in disqualification

Co-operation with other services providers

- The following service providers will be working within this contract and need to be included into the main service providers helpdesk system for proper co-ordination and co-operation are as follows:
- All CCTV, Access Control and Entrance Sliding Door maintenance which interfaces with the servers, network and security solution.
- All the Pod and Environmental maintenance which house the servers, security and network equipment.
- All the Video Conferencing maintenance which is integrated into the security suite and network environment.
- Close co-operation with Liquid Telecoms. Telkom, Vodacom, NTT Data, VOX Telecoms and Internet Solutions under NTT group.

1. Employer's objectives

- A. The service provider will deliver comprehensive hardware and software maintenance across uMngeni-uThukela Water's existing ICT infrastructure, including Datacentre, LAN, WAN, Wireless, Voice, Video Conferencing, Security platforms and Print Management Solution. The environment comprises multi-vendor, best-of-breed technologies that require consistent upkeep, proactive monitoring, and adherence to security and operational best practices.
- B. Support services will include continuous availability and performance monitoring, ensuring that all systems remain updated with the latest software patches, security updates, and firmware. Proactive maintenance must be performed across Datacentre, LAN, WAN, Wireless, Voice, Video Conferencing, Security platforms and Print Management Solution, with strict alignment to uMngeni-uThukela Water's security and compliance standards.
- C. The service provider is required to deliver first, second and third-level support based on defined service-level commitments—ranging from 4-hour response to 24-hour resolution, and 24/7 coverage where required. For Cybersecurity services, incident alerting, vulnerability detection, and breach notification are mandatory.
- D. uMngeni-uThukela Water's ICT Operations division is responsible for the deployment and maintenance of Back-Office systems, Business Systems infrastructure, Video Conferencing solutions, Operational Security, Environmental Cabinets, Point-of-Delivery (POD) Computer Rooms, Communications infrastructure, and Mobility platforms. The service provider will support these functions by ensuring stable operations and maintaining the uptime required for the organisation to meet its quarterly strategic and operational targets.
- E. Key outcomes include maintaining a fully operational, audit-ready environment with a minimum of ≥98% system uptime, complete and accurate documentation, and fully updated asset and configuration records. Routine governance and reporting obligations form part of this engagement.

Provide a clear and concise explanation

- This service was previously on a five (5) year contract, which is expiring at the end of November 2026.
- Monthly governance meetings with uMngeni-uThukela Water ICT Operations.
- Comprehensive monthly reports for each solution area.
- Up-to-date architecture and network diagrams, reflecting any changes to the environment.

- Implementation of industry best practices across all infrastructure and security domains.
- Consistently updated patching and firmware levels across all systems.
- Maintenance of an audit-ready environment, aligned to internal and external compliance requirements.
- Accurate and current asset management records.
- Daily, weekly, and monthly checklists established, updated, and monitored for all operational tasks.
- Verification and execution of all critical backups, ensuring recoverability and adherence to backup policies. This project will sustain the support and the required infrastructure uptime to meet the organisations ICT requirements, resulting in improved use of data and technology.
- Monthly governance meetings with uMngeni-uThukela Water ICT Operations.
- Comprehensive monthly reports for each solution area.
- Up-to-date architecture and network diagrams, reflecting any changes to the environment.
- Implementation of industry best practices across all infrastructure and security domains.
- Consistently updated patching and firmware levels across all systems.
- Maintenance of an audit-ready environment, aligned to internal and external compliance requirements.
- Accurate and current asset management records.
- Daily, weekly, and monthly checklists established, updated, and monitored for all operational tasks.
- Verification and execution of all critical backups, ensuring recoverability and adherence to backup policies

2. Description of the services

Comprehensive monthly reports for each solution area.
Up-to-date architecture and network diagrams, reflecting any changes to the environment.
Implementation of industry best practices across all infrastructure and security domains.
Consistently updated patching and firmware levels across all systems.
Maintenance of an audit-ready environment, aligned to internal and external compliance requirements.
Accurate and current asset management records.
Daily, weekly, and monthly checklists established, updated, and monitored for all operational tasks.
Verification and execution of all critical backups, ensuring recoverability and adherence to backup policies

3. Extent of the services

The service provider will deliver comprehensive hardware and software maintenance across uMngeni-uThukela Water's existing ICT infrastructure, including Datacentre, LAN, WAN, Wireless, Voice, Video Conferencing, Security platforms and Print Management Solution. The environment comprises mult-vendor, best-of-breed technologies that require consistent upkeep, proactive monitoring, and adherence to security and operational best practices.

Support services will include continuous availability and performance monitoring, ensuring that all systems remain updated with the latest software patches, security updates, and firmware. Proactive maintenance must be performed across Datacentre, LAN, WAN, Wireless, Voice, Video Conferencing, Security platforms and Print Management Solution, with strict alignment to uMngeni-uThukela Water's security and compliance standards.

The service provider is required to deliver first, second and third-level support based on defined service-level commitments—ranging from 4-hour response to 24-hour resolution, and 24/7 coverage where required. For Cybersecurity services, incident alerting, vulnerability detection, and breach notification are mandatory.

UMngeni-uThukela Water's ICT Operations division is responsible for the deployment and maintenance of Back-Office systems, Business Systems infrastructure, Video Conferencing solutions, Operational Security, Environmental Cabinets, Point-of-Delivery (POD) Computer Rooms, Communications infrastructure, and Mobility platforms. The service provider will support these functions by ensuring stable operations and maintaining the uptime required for the organisation to meet its quarterly strategic and operational targets.

Key outcomes include maintaining a fully operational, audit-ready environment with a minimum of ≥98% system uptime, complete and accurate documentation, and fully updated asset and configuration records. Routine governance and reporting obligations form part of this engagement.

CMDB establishment and Change Management implementation.

- Microsoft Datacentre Application Support and Management
- Microsoft Active Directory (multi-domain) support and management.
- Microsoft Exchange (On-Prem & Hybrid O365) support.
- Microsoft SCCM management and endpoint compliance.
- Microsoft SCOM monitoring and alert management.
- Microsoft Azure tenant and hybrid identity management.
- Microsoft Datacentre applications support (ITIL-aligned).

Datacentre server, SAN and hardware support.

Veeam Backup and Replication management.

Virtual environment management (VMware / Hyper-V / Verge IO).

Cisco LAN infrastructure management.

WAN infrastructure management (Cisco / Cambium / Ubiquiti).

Wireless LAN infrastructure management.

Network cabling (Copper & Fibre) installation and maintenance.

Telephony systems support (Cisco / Mitel).

Security management (Cisco / Trend Micro / Qualys).

Security Equipment Replacement and SLA Compliance.

Hardware maintenance register and Proactive Lifecycle management.

Security Monitoring, Breach Detection & Mitigation (Cisco / Trend Micro / Qualys).

Integration into SOC/SIEM monitoring and incident. response services.

- Security Alerts, Notifications and Dashboards.
- Ad-Hoc Security Configuration (Add, Move & Change).
- Network Identity Access Control & Traffic Inspection (Cisco).
- Vulnerability Scanning, Remediation & Reporting (Qualys).
- Endpoint and workload protection (Trend Micro).
- Multi-Vendor Security Oversight & Hardening.
- Log Management, Auditing & Compliance.
- Onsite cybersecurity specialist services.
- Skills transfer and Knowledge Enablement.
- SLA response and resolution.

Video conferencing systems management.

Access Control, CCTV and Entrance Door Systems support.

Wireless backhaul infrastructure support.

SIP and Least Cost Routing management.

Cisco CUCM & Mitel SIP/IP licence management.

Data post software support and upgrades.

Datacentre monitoring and lifecycle management services.

Monitoring incident services.

Network maintenance, asset registers and topology management.

Cisco platform management (Firmware, Licensing, DNA, Umbrella, ISE, SNA, Duo).

Network & Security SLA-based support (Level 1 to Level 3).

On-site technical hardware replacement support.

Monthly network and security reporting services.

PoD and Environmental Cabinet monitoring and management.
Self-service kiosk maintenance services.
UniMPS solution deployment and support.
Huawei Cloud Backup and Disaster Recovery management.

4. Use of reasonable skill and care

The service provider is required to exercise reasonable skill and care when performing configurations in the following areas;

Monthly governance meetings with uMngeni-uThukela Water ICT Operations.

Comprehensive monthly reports for each solution area.

Up-to-date architecture and network diagrams, reflecting any changes to the environment.

Implementation of industry best practices across all infrastructure and security domains.

Consistently updated patching and firmware levels across all systems.

Maintenance of an audit-ready environment, aligned to internal and external compliance requirements.

Accurate and current asset management records.

Daily, weekly, and monthly checklists established, updated, and monitored for all operational tasks.

Verification and execution of all critical backups, ensuring recoverability and adherence to backup policies.

Security and Firewall Configuration

Network Configuration

Microsoft Configuration

5. Co-operation with other services providers

The following service providers will be working within this contract and need to be included into the main service providers helpdesk system for proper co-ordination and co-operation are as follows:

- All Back-End (Server) CCTV, Back-End (Server) Access Control and Automated Entrance Sliding Door maintenance which interfaces with the servers, network and Access of employees reporting solution.
- All the Pod and Environmental maintenance which house the servers, security and network equipment.
- All the Video Conferencing maintenance which is integrated into the security suite and network environment.
- Close co-operation with Liquid Telecoms. Telkom, Vodacom, NTT Data, VOX Telecoms and Internet Solutions under NTT group.

7. Reference data

All relevant installed base information is added to the end of this document.

8. Applicable national and international standards

And accreditation will be assessed against:

- ISO 9001:2015 (QMS)
- ISO 45001:2018 (OHS)
- ISO 27001: 2022 (IT Security) or ISO 27001:2013

9. Particular/Generic specifications

[uMngeni-uThukela Water has standardised via the standards committee the following:

- Firewalls – Cisco
- Switches – Cisco
- Access Control – Impro
- Telephony – Mitel
- Video Conferencing – Yealink
- Software/OS – Microsoft
- PoD/Environmental Cabinets – Axil

- Cabling – Krone Cat6A
- Print Management Solution – UniMPS
- Wireless Backhaul – Ubiquiti & Cambium
- Virtual Environments – VMWare
- Backup & DR – Veeam & Huawei Cloud
- Trend Micro Suite
- Qualys
- Trend Micro SIEM and SOC]

10. Approvals

[The service provider shall obtain approvals from the UUW Project Manager for access to sites, acceptance of methodologies, and deliverables.]

11. Procurement

[Not Applicable]

12. Access to land / buildings / sites

[Access shall be provided to the Service Provider to perform the required maintenance and support function.]

13. Planning and programming

[The tenderer must abide with the project plan stipulated in Returnable Schedule T2.2.9]

14. Software application for programming

[The service provider shall use the relevant reporting tools i.e MS Word, MS Excel. MS Project, and Power Point for presentations.]

15. Quality management

[Align with required ISO Accreditations mentioned under mandatory requirements]

16. Format of communications

*[All formal communications shall be in writing. Email will be the primary mode of correspondence]
 [Also state requirements for the format of documents which are to be retained, e.g. microfilm, computer tapes / CDs or original form.]*

17. Key personnel

- Microsoft Certified Solutions Associate MCSA) – Windows Server
- Microsoft Certified Solutions Associate (MCSA) – Exchange
- Microsoft Certified Technology Specialist (MCTS)
- Microsoft Certified IT Professional (MCITP)
- Microsoft Specialist : Architecting Microsoft Azure Solutions (MS)
- Cisco Certified Specialist – Enterprise Design
- Cisco Black Belt Fire Jumper FE – Secure Firewall Stage 3
- Cisco Fire Jumper – Cisco Umbrella Deployment
- Cisco Certified Specialist (CCIE)
- Cisco Certified Network Professional Enterprise (CCNP)
- Cisco Certified Specialist - Enterprise Core
- Cisco Certified Specialist - Enterprise Wireless Design
- VMWare Certified Professional Network Virtualization (VMCP)
- VMWare Certified Professional Data Centre Virtualization
- Veeam Certified Engineer (VMCE)
- HP Accredited Solutions Expert – Server Solutions Architect HP Accredited Technical Professional – Server Solutions
- Unitrac & UniMPS Certification
- Mitel Certified Professional
- Trend Vision One Security Operations

18. Management meetings

- Project progress meetings will be held monthly (virtual or physical), attended by U UW and the service provider's key representatives.
19. **Forms for contract administration**
[Not Applicable.]
20. **Electronic payments**
[Not applicable]
21. **Daily records**
[Monitoring of daily uptime.]
22. **Professional indemnity insurances**
[The Service Provider is required to provide the following insurances: (Submit onto T2.58)]
- 11.1 *Public Liability Insurance*
Minimum Cover is: R10 000 000 (Ten million rand)
Period of Cover: For the period of performance
- 11.2 *Professional indemnity*
Minimum Cover: R5 000 000 (Five million rand)
Period of Cover: For the period of performance
- 11.3 *Cyber Liability Cover*
Minimum Cover: R5 000 000 (Five million rand)
Period of Cover: For the period of performance
23. **Payment certificates**
Claims for payment must be substantiated with supporting documentation (invoices, progress reports, proof of deliverables).
24. **Use of documents by the Employer**
All documents outputs provided by the service provider will be used by U UW for planning, design, monitoring, and decision-making regarding ICT Operations.
25. **Property provided for the Service provider's use**
U UW will provide available current installed base, drawings, configurations]
26. **Proof of compliance with the law**
Not Applicable

C.5.98 ANNEXURES

C5.1 Installed base @ UuWList of uMngeni-uThukela Water's inventory

Table of Contents

1.	<u>DATA POST</u>	98
2.	<u>VIDEO CONFERENCING</u>	98
3.	<u>DATA CENTRE ENVIRONMENT</u>	100
4.	<u>LIST OF NETWORK – WAN, LAN, WLAN</u>	101
4.1.	<u>CAMBIUM WIRELESS BACKHUAL</u>	101
4.2.	<u>CAMBIUM WIRELESS</u>	104
4.3.	<u>CISCO SWITCHES (MSINSI, INLAND, COASTAL & RCB)</u>	106
4.4.	<u>CISCO SWITCH MODULES AND STACKING KITS</u>	113
4.5.	<u>CISCO WIRELESS APS</u>	119
4.6.	<u>UBIQUITI WIRELESS</u>	130
4.7.	<u>FIREWALLS AND SECURITY APPLIANCES</u>	132
5.	<u>SELF SERVICE KIOSKS</u>	159
6.	<u>DSTV</u>	159
7.	<u>TREND</u>	160
7.1.	.....	160
8.	<u>QUALYS</u>	160
8.1.	.....	160
9.	<u>TELEPHONY</u>	160
9.1.	<u>LICENCE DISTRIBUTION</u>	160
9.2.	<u>SIP Trunks – LIQUID TELECOM</u>	161
9.3.	<u>MITEL EQUIPMENT</u>	162
10.	<u>CCTV</u>	168
10.1.	.....	168
11.	<u>SOC/SIEM (TREND)</u>	168
11.1.	.....	168
12.	<u>NETWORK CABLING AND CABINETS</u>	168
12.1.	.....	168
13.	<u>AXIL CABINETS (ENVIROMENTAL CABINETS)</u>	168
14.	<u>HUAWEI CLOUD BACKUP AND RECOVERY</u>	174
15.	<u>UNIMPS PRINT MANAGEMENT SOLUTION</u>.....Error! Bookmark not defined.	

1. DATA POST

No.	Name	Version	OS Ver
1	Mkondeni Regional Office	1.2.233	20.04 5.17.0-051700-generic Clients-UB20-F110D-UMngeni uThukela
2	Pineside Regional Office	1.2.233	20.04 5.17.0-051700-generic Clients-UB20-F110D-UMngeni uThukela
3	PMB Planning Office	1.2.233	20.04 5.17.0-051700-generic Clients-UB20-F110D-UMngeni uThukela
4	Wiggins Water Works	1.2.233	20.04 5.17.0-051700-generic Clients-UB20-F110D-UMngeni uThukela
5	Umzinto Water Treatment Works	1.2.233	20.04 5.17.0-051700-generic Clients-UB20-F110D-UMngeni uThukela
6	Hazelmere Water Works	1.2.233	20.04 5.17.0-051700-generic Clients-UB20-F110D-UMngeni uThukela
7	Durban Heights Training Centre	1.2.233	20.04 5.17.0-051700-generic Clients-UB20-F110D-UMngeni uThukela
8	Umhlali Regional Office	1.2.233	20.04 5.17.0-051700-generic Clients-UB20-F110D-UMngeni uThukela
9	Lower Tugela	1.2.233	20.04 5.17.0-051700-generic Clients-UB20-F110D-UMngeni uThukela
10	Rosetta Water TreatmentWorks	1.2.233	20.04 5.17.0-051700-generic Clients-UB20-F110D-UMngeni uThukela
11	Richards Bay Regional Office	1.2.233	20.04 5.17.0-051700-generic Clients-UB20-F110D-UMngeni uThukela
12	Umgeni Uthukela Water Head Office	1.2.233	20.04 5.17.0-051700-generic Clients-UB20-F110D-UMngeni uThukela
13	Amanzimtoti Water Works	1.2.233	20.04 5.17.0-051700-generic Clients-UB20-F110D-UMngeni uThukela
14	Midmar Water Treatment Works	1.2.233	20.04 5.17.0-051700-generic Clients-UB20-F110D-UMngeni uThukela
15	Richard-Bay Alkanstrand	1.2.233	20.04 5.17.0-051700-generic Clients-UB20-F110D-UMngeni uThukela
16	Umthlume Water Works	1.2.233	20.04 5.17.0-051700-generic Clients-UB20-F110D-UMngeni uThukela
17	Hillcrest Executive Office	1.2.233	20.04 5.17.0-051700-generic Clients-UB20-F110D-UMngeni uThukela
18	Darvill Waste Water Treatment	1.2.233	20.04 5.17.0-051700-generic Clients-UB20-F110D-UMngeni uThukela

2. VIDEO CONFERENCING

No.	Room Name	Display Screens (C-Touch Sky/Riva/ Neo or 65"/75"/85" Meeting Boards)	Touch Panels (Mtouch II/E2/CTP18)	Speaker/ mic (Mspec h/VCM35)	VC Package (MVC640 OLD/NEW)	PRESENT ATION PODS (WPP20/30)
1	Head Office Main Boardroom	1	1	1	1	1
2	Head Office EXCO Boardroom	1	1	1	1	1

C5.99

3	NCT Boardroom	1	1	1	1	1
4	Area West Boardroom	1	1	1	1	1
5	Hillcrest Main Boardroom	1	1	2	1	1
6	Hillcrest Small Boardroom	1	1	1	1	1
7	Pineside Boardroom	1	1	1	1	1
8	Umdlali Boardroom	1	1	1	1	1
9	Mkondeni Boardroom	1	1	1	1	1
10	Toti Boardroom	1	1	1	1	1
11	SCM Boardroom	1	1	1	1	1
12	ICT JAD Room	1	1	1	1	1
13	Wiggins PEF Boardroom	1	1	1	1	1
14	Corporate Services Boardroom	1	1	1	1	1
15	321 Prince Alfred Boardroom	1	1	1	1	1
16	Rosetta Boardroom	1	1	1	1	1
17	E & SS Boardroom	1	1	1	1	1
18	Durban Heights Training Centre Boardroom	1	1	1	1	1
19	Msinsi Hillcrest	1	1	1	1	1
20	Msinsi Bon Accorde	1	1	1	1	1
21	Hazelmere	1	1	1	1	1
22	Head Office Canteen	1	1	1	1	
23	Pineside Canteen	1	1	1	1	
24	Mkondeni Canteen	1	1	1	1	
25	Lower Thugela Canteen	1	1	1	1	1
26	DV Harris	1	1	1	1	1
27	Midmaar Waterworks	1	1	1	1	1
28	uMgeni uThukela Conference Room	1	1	1	1	1
29	Capex/Engineering Meeting Room(to Nagle Dam)	1	1	1	1	1
30	Wiggins Operations Boardroom	1	1	1	1	1
31	Durban Heights Operations Boardroom	1	1	1	1	1
32	Richards Bay Regional Office Boardroom	1	1	1	1	1
33	Mkondeni Research and Development	1	1	1	1	1
34	Head Office Lab 1	1	1	1	1	1
35	Head Office Lab 2	1	1	1	1	1
36	Head Office Lab 3 (Training Centre Richards Bay)	1	1	1	1	1
37	Msinsi 2nd Boardroom	1	1	1	1	1
38	Darvill WW Boardroom	1	1	1	1	1
39	Darvill WW Re-use classroom	1	1	1	1	1
40	Richards Bay Training Room (from Umgeni Room)	1	1	1	1	
41	Umngeni Water Services	1	1	1		2
42	Msinsi MD's Office	1				1
43	Dalisu Mobile	1			1	1

44	Spare	1				
TOTAL		44	41	42	41	40

3. DATA CENTRE ENVIRONMENT

OBJECT TYPE	QTY	DESCRIPTION
Vmware vCenter Servers	4	
Clusters	32	
Vmware 8 Hosts	73	
VMs	481	Microsoft Server 2016, 2019, 2022
Exchange SE on Prem	12	Total of 1500 mailboxes
Office 365 portal	1500	Teams Users account and AD sync and Exchange
MimeCast Mail flow management		
Trusted Domains	4	
Remote sites	14	
Management of Microsoft Active Directory	32	Domain controllers, DNS, DHCP ETC
Completed Veeam Backup and replication	17	Daily, Weekly, Monthly and yearly backups management and monitoring restores
DR planning and failover 2 yearly	3	Sites
Zerto DR recovery	all sites	
SCCM management	2100	Devices
SCCM Deployment packages		
SCOM Monitoring	all systems	

4. LIST OF NETWORK – WAN, LAN, WLAN

4.1. CAMBIUM WIRELESS BACKHUAL

Device Name	Product Name	Latitude	Longitude
Albert Falls - Claridge	PMP 450i	- 29.426695°	30.426252°
Alverstone - Pheonix Wattle	PMP 450i	- 29.778091°	30.712594°
Alverstone to Water Tower	PMP 450i	- 29.778091°	30.712594°
Cato Ridge - Msinsi Nagle Conference	PMP 450i	- 29.688573°	30.652843°
Claridge - Albert Falls	PMP 450i	- 29.545200°	30.375750°
Claridge to Dalton	PMP 450i	- 29.545200°	30.375750°
Claridge to PMB	PMP 450i	- 29.545200°	30.375750°
Craigeburn to Quarry	PMP 450i	- 30.182727°	30.766295°
D.V. Harris - Umlaas Tower	PMP 450i	- 29.556389°	30.323513°
D.V. Harris to H.O	PMP 450i	- 29.556389°	30.323513°
Dalton to Claridge	PMP 450i	- 29.343560°	30.627582°
Dalton to Wartburg	PMP 450i	- 29.343560°	30.627582°
Darvill to Head Office	PMP 450i	- 29.602359°	30.430530°
DBN Heights to Kloof	PMP 450i	30.375750°	30.929353°
DBN Heights to Kwamakutha	PMP 450i	30.375750°	30.929353°
DBN Heights to Trenance 3	PMP 450i	- 29.801462°	30.929353°
Dennis Shepstone to Mkhondeni	PMP 450i	- 29.570652°	30.288846°
Dennis to Midmar	PMP 450i	- 29.570652°	30.288846°
FutureNet to Mhlabatshane	PMP 450i	- 30.183171°	30.032147°
Hazelmere to Trenance 3	PMP 450i	- 29.612789°	31.055261°
Hazelmere to Umhlali	PMP 450i	- 29.612789°	31.055261°
Hazelmere Tower to Hazelmere Water	PMP 450i	- 29.582854°	31.041863°
Hazelmere Water to Hazelmere Tower	PMP 450i	- 29.612789°	31.055261°
Head Office to Darvill	PMP 450i	- 29.603691°	30.384760°
Head Office Mkhondeni	PMP 450i	- 29.603691°	30.384760°
Head Office to DV Harris	PMP 450i	- 29.603691°	30.384760°

C5.102

Kloof to DBN Heights	PMP 450i	- 29.805510°	30.816020°
Kloof to Water tower	PMP 450i	- 29.805510°	30.816020°
Kloof tower to Msinsi Hillcrest	PMP 450i	- 29.805510°	30.816020°
Kloof Tower to Pineside	PMP 450i	- 29.805510°	30.816020°
KwaMahkutha to Toti	PMP 450i	- 30.031942°	30.848615°
Kwamakutha to DBN Heights	PMP 450i	- 30.031942°	30.848615°
Maphamulo to Res 5	PMP 450i	- 29.113534°	31.022739°
Mhlabatshane	PMP 450i	- 30.428700°	30.151467°
Midmar - Dennis Shepstone	PMP 450i	- 29.499623°	30.217101°
Midmar Nottingham	PMP 450i	- 29.499623°	30.217101°
Mkondeni	PMP 450i	- 29.652731°	30.418851°
Mkondeni-Dennis Shepstone	PMP 450i	- 29.652731°	30.418851°
Montibelo Hospital to Res 5	PMP 450i	- 29.440172°	30.805515°
Mpofana to The Bend	PMP 450i	- 29.222489°	30.020474°
Msinsi Hillcrest to Kloof tower	PMP 450i	- 29.788856°	30.779761°
Msinsi Nagle Conference - Cato Ridge	PMP 450i	- 29.591020°	30.635511°
Nottingham to Midmar	PMP 450i	- 29.349476°	30.009657°
PBM to Swatkop	PMP 450i	- 29.603691°	30.384760°
Pheonix Wattle - Alverstone	PMP 450i	- 29.930483°	30.475417°
Pineside	PMP 450i	- 29.809968°	30.873416°
PMB to Claridge	PMP 450i	- 29.603691°	30.384760°
Quarry to Craigeburn	PMP 450i	- 30.191533°	30.771233°
Quarry to Toti	PMP 450i	- 30.191533°	30.771233°
Quarry To Umzinto	PMP 450i	- 30.191533°	30.771233°
Res 5 to Maphamulo	PMP 450i	- 29.515240°	30.932460°
Res 5 to Montobello Hospital	PMP 450i	- 29.515240°	30.932460°
Res5 to Hazelmere Water tower	PMP 450i	- 29.515240°	30.932460°
School to Umzinto	PMP 450i	- 30.464581°	30.605369°
Shaka to Thugela Res	PMP 450i	- 29.389786°	31.153754°

Shaka To Umhlali	PMP 450i	- 29.389786°	31.153754°
Swatkop-PMB	PMP 450i	- 29.587399°	30.257115°
Swatkop-The Bend	PMP 450i	- 29.587399°	30.257115°
The Bend to Mpfana	PMP 450i	- 29.340694°	29.863310°
The Bend to Swartkop	PMP 450i	- 29.340694°	29.863310°
Toti to Kwamakuthu	PMP 450i	- 30.053220°	30.849980°
Toti to Quarry	PMP 450i	- 30.053220°	30.849980°
Trenance 3 to DN Heights	PMP 450i	- 29.652348°	30.996398°
Trenance 3 to Hazelmere	PMP 450i	- 29.652348°	30.996398°
Trustfeed to Wartburg	PMP 450i	- 29.386406°	30.522981°
Umgeni Thugela Res	PMP 450i	- 29.183954°	31.382517°
Umhlali to Hazelmere	PMP 450i	- 29.474300°	31.217717°
Umhlali To Shaka	PMP 450i	- 29.474300°	31.217717°
Umlaas Tower - D.V. Harris	PMP 450i	- 29.713961°	30.497957°
Umthalume	PMP 450i	- 30.328439°	30.671318°
Umthalume School	PMP 450i	- 30.464581°	30.605369°
Umzinto to School	PMP 450i	- 30.328439°	30.671318°
Umzinto-Quarry	PMP 450i	- 30.328439°	30.671318°
Wartberg-Trustfeed	PMP 450i	- 29.429891°	30.570744°
Water Tower - RES 5	PMP 450i	- 29.582854°	31.041863°
Water Tower to Alverstone	PMP 450i	- 29.798066°	30.713729°
Water tower to Kloof	PMP 450i	- 29.798066°	30.713729°

4.2. CAMBIUM WIRELESS

Site	Model	Latitude	Longitude
Albert Falls Msinsi to Msinsi	ePMP Force 180	-29.445090°	30.426424°
Albert Falls to Albert Falls Msinsi	ePMP Force 180	-29.426695°	30.426252°
Albert_Falls_Dam	ePMP Force 300-16	-29.426695°	30.426252°
Alverstone to Cato Ridge	ePMP Force 300-25L	-29.778091°	30.712594°
Bon Accord F300	ePMP Force 300-16	30.422940°	30.424860°
Bon Accord Office to Chalet 10	ePMP Force 180	-29.423540°	30.424860°
Cato Ridge to Alverstone	ePMP Force 300-25L	-29.688573°	30.652843°
Chalet 10	ePMP Force 180	-29.423045°	30.423383°
Chalet 4	ePMP Force 180	-29.424335°	30.422940°
Chalet 6	ePMP Force 180	-29.423783°	30.423223°
Chalet 8	ePMP Force 180	-29.423434°	30.423383°
Commander-Ilembe-Res	ePMP Force 300-16	-29.183954°	31.382517°
Confrence to Msinsi Nagle	ePMP Force 180	-29.591020°	30.635511°
Cool Air to Dalton	ePMP Force 300-16	-29.377333°	30.625367°
Dalton-Cool Air	ePMP Force 300-16	-29.343560°	30.627582°
Darvil_Head Of Works	ePMP Force 180	-29.602246°	30.430060°
Darvill New Gate House	ePMP Force 180	-29.602223°	30.429079°
Darvill Sector 1	ePMP 2000	-29.602359°	30.430530°
Darvill Sector 2	ePMP 3000L	-29.602359°	30.430530°
Darvill-Park-Home	ePMP Force 300-16	-29.601837°	30.429856°
Darvill-Reuse	ePMP Force 300-16	-29.599461°	30.431256°
DBN Heights PTP550	PTP 550	-29.801462°	30.929353°
DBN_Heights_Candy	ePMP Force 180	-29.801116°	30.930427°
DBN_Heights_Eskom	ePMP Force 180	-29.800716°	30.930798°
DBN_Heights_Lab	ePMP Force 180	-29.801462°	30.929353°
DBN_Heights_Sect1	ePMP 2000	-29.801462°	30.929353°
DBN_Heights_Sect2	ePMP 2000	-29.612789°	31.055261°
DBN_Heights_Sect3	ePMP 2000	-29.801462°	30.929353°
Dbn_Heights_Tokkies	ePMP Force 300-13	-29.801462°	30.929353°
DVHARRIS-COMP	ePMP Force 180	-29.556500°	30.323413°
dvharris-maingate	ePMP Force 180	-29.556831°	30.323671°
Hazelmere Boathouse to Msinsi Ha	ePMP Force 300-25L	-29.584091°	31.041786°
Hazelmere_Sheq	ePMP Force 180	-29.613984°	31.055063°
Hazelmere-Gate	ePMP Force 180	-29.614562°	31.055368°
Hazelmere-Sect-1	ePMP 2000	-29.612789°	31.055261°
Hazelmere-Sect-2	ePMP 2000	-29.612789°	31.055261°
Hazelmere-Sect-3	ePMP 2000	-29.612789°	31.055261°
Hillcrest_Executive_Main-Gate	ePMP Force 180	-29.788393°	30.779337°
Hillcrest_Executive-Main Building (Gate Link)	ePMP Force 180	-29.788552°	30.779435°
Howick-Midmar	ePMP Force 180	-29.493157°	30.233880°

Ilembe-Commander	ePMP Force 300-16	-29.180357°	31.406764°
Ilembe-Tungela	ePMP Force 300-16	-29.180357°	31.406764°
Ilembi Res- Mapahulo	ePMP Force 180	-29.113534°	31.022739°
Ixopo Guard House	ePMP Force 180	-30.152585°	30.074716°
Ixopo-Waste_Sec	ePMP Force 180	-30.152547°	30.074881°
LAPPA-F300-25	ePMP Force 300-25L		
Lynnfield-Gatehouse	ePMP Force 180	-29.684071°	30.465097°
Lynnfield-Mast-Access-Point	ePMP Force 180	-29.683863°	30.465103°
Lynnfield-Office2	ePMP Force 180	-29.683969°	30.465191°
Lynnfield-Office3	ePMP Force 180	-29.684050°	30.465053°
Maphamulo Pump Station	ePMP Force 190	-29.169583°	31.063504°
Midmar-Howick	ePMP Force 180	-29.499623°	30.217101°
Msinsi Haz to Hazelmere Boathous	ePMP Force 300-25L	-29.589967°	31.033831°
Msinsi HO	ePMP Force 180	-29.788856°	30.779761°
Msinsi_Nagle	ePMP Force 180	-29.581383°	30.620308°
Msinsi-Quickjack	ePMP Force 180	-29.789026°	30.779531°
Nagle_Dam_Confrence	ePMP Force 300-16	-29.591020°	30.635511°
Nagle_Dam_Office	ePMP Force 300-16	-29.592017°	30.622694°
Nottingham-Rosetta	ePMP Force 300-25L	-29.349476°	30.009657°
Rosetta Guardhouse 2 to Water Tower	ePMP Force 180	-29.319561°	29.970368°
Rosetta Pump Station	ePMP Force 180	-29.318601°	29.968644°
Rosetta Sector 1	ePMP Force 180	-29.320660°	29.971597°
Rosetta-Guard-House-1	ePMP Force 180	-29.320862°	29.970315°
Rosetta-Sector-2	ePMP Force 180	-29.320660°	29.971597°
Rosetta-Sector-3	ePMP Force 180	-29.320660°	29.971597°
Rosetta-Water-Tower-300	ePMP Force 300-16	-29.320660°	29.971597°
Rosetta-Nottingham	ePMP Force 300-16	-29.349476°	30.009657°
SECURITY-F300-25	ePMP Force 300-22L		
The-Bend-300-Rosetta	ePMP Force 300-16	-29.340694°	29.863310°
Toti_Computer_Room	ePMP Force 180	-30.053220°	30.849980°
Toti_Gate	ePMP Force 180	-30.052804°	30.850669°
Toti_Quickjack	ePMP Force 180	-30.053067°	30.850665°
Tugela Water - Ilembe Res	ePMP Force 300-16	-29.167878°	31.379811°
UMG_DBN_HEIGHTS_BOARDROOM	ePMP Force 180	-29.801274°	30.929558°
UMG_DBN_Heights_Gate	ePMP Force 180	-29.800282°	30.929447°
umg-Camper-Down	ePMP Force 300-16	-29.722217°	30.528733°
Umhlali Workshop	ePMP Force 180	-29.473860°	31.217431°
Umlaas - Camperdown	ePMP Force 300-16	-29.713961°	30.497957°
Umlaas Road	ePMP Force 180	-29.713961°	30.497957°
Umthlume-Control-Room	ePMP Force 300-16	-30.476551°	30.607529°
Umthlume-Maingate	ePMP Force 300-16	-30.476647°	30.607966°
Umzinto Chemical House	ePMP Force 180	-30.328276°	30.671337°
Umzinto Gate_House	ePMP Force 180	-30.328434°	30.671550°
Umzinto House	ePMP Force 180	-30.328793°	30.671860°

Umzinto Sector 1	ePMP 2000	-30.328439°	30.671318°
Umzinto_Old Control Room	ePMP Force 180	-30.328533°	30.671234°
Umzinto-Sector 2	ePMP 3000L	-30.328439°	30.671318°
Wiggins City Outlet	ePMP Force 180	-29.850093°	30.961516°
Wiggins Main Gate	ePMP Force 180	-29.847511°	30.962712°
Wiggins PTP550	PTP 550	-29.850019°	30.960469°
Wiggins Pump Station	ePMP Force 300-16	-29.848737°	30.959970°
Wiggins Sector 1	ePMP 2000	-29.850019°	30.960469°
Wiggins Sector 2	ePMP 2000	-29.850019°	30.960469°
Wiggins Sector 3	ePMP 2000	-29.850019°	30.960469°
Workshop-Umhlali	ePMP Force 180	-29.474300°	31.217717°

4.3. CISCO SWITCHES (MSINSI, INLAND, COASTAL & RCB)

Location	Device Name	Part No.
Global/KZN/MSI (Msinsi)/Msinsi_Albert_Falls	Msinsi-Albert-Falls	C9200L-24P-4G
Global/KZN/MSI (Msinsi)/Msinsi_Bon_Accord	Bon_Accorde	C9200L-24P-4G
Global/KZN/MSI (Msinsi)/Msinsi_Bon_Accord	Bon-Accord-Conf.uuw.local	C9200L-24P-4G
Global/KZN/MSI (Msinsi)/Msinsi_Hazelmere	Msinsi-Hazelmere-Sw1.uuw.local	C9200L-24P-4G
Global/KZN/MSI (Msinsi)/Msinsi_Head_Office	Msinsi-HO-SW3.uuw.local	C9200L-24P-4G
Global/KZN/MSI (Msinsi)/Msinsi_Head_Office	Msinsi-HO-SW6.uuw.local	C9200L-24P-4G
Global/KZN/MSI (Msinsi)/Msinsi_Head_Office	Msinsi-HO-SW4.uuw.local	C9200L-24P-4G
Global/KZN/MSI (Msinsi)/Msinsi_Head_Office	MSINSI_SW2.uuw.local	C9200L-24P-4G
Global/KZN/MSI (Msinsi)/Msinsi_Head_Office	Msinsi-HO-SW5.uuw.local	C9200L-24P-4G
Global/KZN/MSI (Msinsi)/Msinsi_Head_Office	MSINSI_HO_SW1.uuw.local	C9200-24P
Global/KZN/MSI (Msinsi)/Msinsi_Inanda/Ground Floor	Msinsi_Inanda_SW1.uuw.local	C9200L-24P-4G
Global/KZN/MSI (Msinsi)/Msinsi_Nagle	UMG_Msinsi_Conf.uuw.local	WS-C3560CX-8XPD-S
Global/KZN/MSI (Msinsi)/Msinsi_Nagle	MSI_Nagle_SW	C9200L-24P-4G
Global/KZN/PMB (Inland)/346_Burger_Street_Office	UMG-346Burger-SW2.uuw.local	C9200L-48P-4G, C9200L-24P-4G
Global/KZN/PMB (Inland)/346_Burger_Street_Office	UMG-346Burger-SW1.uuw.local	C9200L-48P-4G, C9200L-48P-4G
Global/KZN/PMB (Inland)/Albert_Falls_Office	UMG-Albert-Falls.uuw.local	C9200L-24P-4G
Global/KZN/PMB (Inland)/Appelsbosch_WWW	Appelsboch-SW1.uuw.local	C9200L-24P-4G
Global/KZN/PMB (Inland)/Camperdown_WWW/Ground Floor	UMG-Camperdown-SW1.uuw.local	C9200L-24P-4G
Global/KZN/PMB (Inland)/Cool_Air_WWW	UMG-Cool-Air.uuw.local	C9200L-24P-4G
Global/KZN/PMB (Inland)/DAR-WWW	UMG-Darvill-Sw2.uuw.local	C9200L-24P-4G
Global/KZN/PMB (Inland)/DAR-WWW	Darvill_SCADA	C9200L-24P-4G
Global/KZN/PMB (Inland)/DAR-WWW	UMG_Darvill_Sw1.uuw.local	C9200-24P, C9200-24P
Global/KZN/PMB (Inland)/DAR-WWW	UMG-Darvill-Workshop.uuw.local	C9200L-24P-4G

C5.107

Global/KZN/PMB (Inland)/DAR-WWW/1st Floor	UMG-Darvill-F1-Sw1.uuw.local	C9200L-24P-4G, C9200L-24P-4G, C9200L-24P-4G
Global/KZN/PMB (Inland)/DAR-WWW/Ground Floor	Darvil-Reuse.uuw.local	C9200L-24P-4G
Global/KZN/PMB (Inland)/DAR-WWW/Ground Floor	UMG-Darvill-F0-SW1.uuw.local	C9200L-24P-4G, C9200L-24P-4G
Global/KZN/PMB (Inland)/DAR-WWW/Ground Floor	UMG-Darvill-Parkhome.uuw.local	C9200L-24P-4G
Global/KZN/PMB (Inland)/DV_Harris_WW	DVHARRIS-CTRL.uuw.local	C9200L-24P-4G
Global/KZN/PMB (Inland)/DV_Harris_WW	UMG_DVHarris_SW1.uuw.local	C9200-24P, C9200-24P
Global/KZN/PMB (Inland)/DV_Harris_WW/1st Floor	UMG-DVHarris-Scada.uuw.local	C9200L-24P-4G
Global/KZN/PMB (Inland)/Head_Office/Phase 1	UMG_HO_P1F0_01.uuw.local	C9200-24P, C9200-48P, C9200-24P, C9200-24P, C9200-24P
Global/KZN/PMB (Inland)/Head_Office/Phase 1	UW-SYNERGY-STACK.uuw.local	C9500-12Q, C9500-12Q
Global/KZN/PMB (Inland)/Head_Office/Phase 1	UMG_HO_P2F4_01.uuw.local	C9200-24P, C9200-24P, C9200-24P
Global/KZN/PMB (Inland)/Head_Office/Phase 1	UMG-CE-Boardroom.uuw.local	WS-C2960X-24PS-L
Global/KZN/PMB (Inland)/Head_Office/Phase 1	UMG_CORE_SW1	C9407R, C9407R
Global/KZN/PMB (Inland)/Head_Office/Phase 1	9500.DMZ.uuw.local	C9500-40X, C9500-40X
Global/KZN/PMB (Inland)/Head_Office/Phase 1	UMG_HO_P2F1_01.uuw.local	C9200-24P, C9200-24P, C9200-24P
Global/KZN/PMB (Inland)/Head_Office/Phase 1	UMG_HO_CLINIC.uuw.local	WS-C3560CX-8XPD-S
Global/KZN/PMB (Inland)/Head_Office/Phase 1	9200.DMZ-2.uuw.local	C9200-24T
Global/KZN/PMB (Inland)/Head_Office/Phase 1	UMG_HO_P1F0_05.uuw.local	C9200-24P
Global/KZN/PMB (Inland)/Head_Office/Phase 1	UMG_HO_Router_SW1.172.16.1.160	WS-C3560-24PS-E
Global/KZN/PMB (Inland)/Head_Office/Phase 1	UMG_HO_P2F0_01.uuw.local	C9200-24P, C9200-24P
Global/KZN/PMB (Inland)/Head_Office/Phase 1	UMG_P1F1_01.uuw.local	C9200-24P, C9200-24P, C9200-24P, C9200-24P
Global/KZN/PMB (Inland)/Head_Office/Phase 1	UMG_HO_P2F3_01.uuw.local	C9200-24P, C9200-24P, C9200-48P
Global/KZN/PMB (Inland)/Head_Office/Phase 1	UMG_P3F0_01.uuw.local	C9200-24P, C9200-24P, C9200-24P, C9200-24P
Global/KZN/PMB (Inland)/Head_Office/Phase 1	UMG ICT_01.uuw.local	C9200-24P, C9200-24P, C9200-48P, C9200-24P, C9200-24P
Global/KZN/PMB (Inland)/Head_Office/Phase 1	UMG_HO_P3F2_01.uuw.local	C9200-48P, C9200-24P, C9200-24P
Global/KZN/PMB (Inland)/Head_Office/Phase 1/GND Floor	Treasury-SW1	C9200-48P
Global/KZN/PMB (Inland)/Head_Office/Phase 1/GND Floor	UMG_Gatehouse.uuw.local	C9200L-24P-4G
Global/KZN/PMB (Inland)/Head_Office/Phase 2/2nd Floor	UMG-P2-F2-01.uuw.local	C9200-24P, C9200-24P, C9200-24P

Global/KZN/PMB (Inland)/Head_Office/Phase 3	9200.DMZ-1.uuw.local	C9200-24T
Global/KZN/PMB (Inland)/Head_Office/Phase 3/2nd Floor	Phase3-2nd-Floor-SW3.uuw.local	C9200-24P
Global/KZN/PMB (Inland)/Howick_WWW	UMG-Howick-SW1.uuw.local	C9200-24P
Global/KZN/PMB (Inland)/Howick_WWW	Howick-Sw2.uuw.local	C9200L-24P-4G
Global/KZN/PMB (Inland)/Ixopo_WW	UMG-Ixopo-SW1.uuw.local	C9200-24P
Global/KZN/PMB (Inland)/Ixopo_WW	Ixopo-SW2.uuw.local	C9200L-24P-4G
Global/KZN/PMB (Inland)/Ixopo_WWW	UMG-Ixopo-Waste-Sw1.uuw.local	C9200L-24P-4G
Global/KZN/PMB (Inland)/Ixopo_WWW	Ixopo_Waste-Guard_House.uuw.local	C9200L-24P-4G
Global/KZN/PMB (Inland)/Jabu_Ndlovu_Office	UMG_Juba_House_SW1.uuw.local	C9200L-24P-4G
Global/KZN/PMB (Inland)/Jabu_Ndlovu_Office	Juba-Ndlovu-SW2.uuw.local	C9200L-24P-4G
Global/KZN/PMB (Inland)/Lidgetton_WW/Ground Floor	UMG-Lidgetton-SW1.uuw.local	C9200L-24P-4G
Global/KZN/PMB (Inland)/Lynnfield_WWW	LYN-ASW01.uuw.co.za	C9200L-24P-4G
Global/KZN/PMB (Inland)/Lynnfield_WWW	LYN-CSW01.uuw.co.za	C9200L-24P-4G
Global/KZN/PMB (Inland)/Lynnfield_WWW	LYN-ASW02.uuw.co.za	C9200L-24P-4G
Global/KZN/PMB (Inland)/Mearns_WW	UMG-Mearns.uuw.local	C9200L-24P-4G
Global/KZN/PMB (Inland)/Mhlabatshane_WW	UMG-Mhlabatshane-SW2.uuw.local	C9200-24P
Global/KZN/PMB (Inland)/Mhlabatshane_WW	UMG_Mhlabatshane_SW.uuw.local	C9200L-24P-4G
Global/KZN/PMB (Inland)/Midmar_WW	UMG-Midmar-Elect-Sw2.uuw.local	C9200L-24P-4G
Global/KZN/PMB (Inland)/Midmar_WW	UMG-Midmar-Scada-SW1.uuw.local	C9300L-24UXG-4X
Global/KZN/PMB (Inland)/Midmar_WW	Midmar-SW2.uuw.local	WS-C2960X-24PS-L
Global/KZN/PMB (Inland)/Midmar_WW	UMG-Midmar-Elect-Sw1.uuw.local	C9200L-24P-4G
Global/KZN/PMB (Inland)/Midmar_WW	Midmar-Security.uuw.local	C9200L-24P-4G
Global/KZN/PMB (Inland)/Midmar_WW	UMG_Midmar_SW1.uuw.local	C9200-48P
Global/KZN/PMB (Inland)/Midmar_WW	UMG-Midmar-Sludge.uuw.local	C9200L-24P-4G
Global/KZN/PMB (Inland)/Midmar_WW/Area West	UMG-Midmar-AreaWest.uuw.local	C9200L-24P-4G
Global/KZN/PMB (Inland)/Midmar_WW/Area West	Area-West-Sec-Office.uuw.local	C9200L-24P-4G
Global/KZN/PMB (Inland)/Mkondeni_Regional_Office	MKD_Construction.uuw.local	C9300L-48P-4G
Global/KZN/PMB (Inland)/Mkondeni_Regional_Office	UMG-eMthonjeni-Sw1.uuw.local	C9300-48P
Global/KZN/PMB (Inland)/Mkondeni_Regional_Office	UMG-eMthonj-Stores-1.uuw.local	C9200L-24P-4G
Global/KZN/PMB (Inland)/Mkondeni_Regional_Office	UMG-Mkondeni-Lab-SW2.uuw.local	C9200L-24P-4G
Global/KZN/PMB (Inland)/Mkondeni_Regional_Office	UMG-eMthonjeni-Sw2.uuw.local	C9300-24P
Global/KZN/PMB (Inland)/Mkondeni_Regional_Office	UMG-eMthonjeni-Sw3	C9200-48P
Global/KZN/PMB (Inland)/Mkondeni_Regional_Office	UMG-eMthonjeni-Civils.uuw.local	C9200L-24P-4G

Global/KZN/PMB (Inland)/Mkondeni_Regional_Office/Lab_3	MKD_Construction_Lab3	C9200L-24P-4G
Global/KZN/PMB (Inland)/Mkondeni_Regional_Office/Stores	MKD-Stores-SW2.uuw.local	C9300L-48P-4G
Global/KZN/PMB (Inland)/Mkondeni_Regional_Office/Stores	UMG-MKD-Sec.uuw.local	C9200L-24P-4G
Global/KZN/PMB (Inland)/Mpfana_WW/Ground_Floor	Mpfana-Water-Works.uuw.local	C9200L-24P-4G
Global/KZN/PMB (Inland)/Mpfana_WWW/Ground_Floor	UMG-Mpfana-WW-Sw2.uuw.local	C9200L-24P-4G
Global/KZN/PMB (Inland)/Mpfana_WWW/Ground_Floor	UMG-Mpfana-WW-Sw1.uuw.local	C9200L-24P-4G
Global/KZN/PMB (Inland)/Prince_Alfred_Office	Prince-Alf-SW2.uuw.local	C9200L-24P-4G
Global/KZN/PMB (Inland)/Prince_Alfred_Office/Ground_Floor	Prince-Alfred-SW3.uuw.local	C9200L-24P-4G
Global/KZN/PMB (Inland)/Prince_Alfred_Office/Ground_Floor	Prince-Alfred-SW1.uuw.local	C9200-24P
Global/KZN/PMB (Inland)/Richmond_WWW	Richmond-WWW.uuw.local	C9200L-24P-4G
Global/KZN/PMB (Inland)/Rosetta_WW	Rosetta-pump-station.uuw.local	C9200L-24P-4G
Global/KZN/PMB (Inland)/Rosetta_WW	UMG-Rosetta-Pulsator.uuw.local	WS-C2960L-16PS-LL
Global/KZN/PMB (Inland)/Rosetta_WW	UMG-Rosetta-MCC2.uuw.local	WS-C2960L-16PS-LL
Global/KZN/PMB (Inland)/Rosetta_WW	UMG-Rosetta-MCC3.uuw.local	WS-C2960L-16PS-LL
Global/KZN/PMB (Inland)/Rosetta_WW	UMG-Rosetta-MCC5.uuw.local	WS-C2960L-16PS-LL
Global/KZN/PMB (Inland)/Rosetta_WW	UMG-Rosetta-MCC9.uuw.local	WS-C2960L-16PS-LL
Global/KZN/PMB (Inland)/Rosetta_WW	UMG-Rosetta-SW1.uuw.local	C9200L-24P-4G
Global/KZN/PMB (Inland)/Rosetta_WW	UMG-Rosetta-MCC4.uuw.local	WS-C2960L-16PS-LL
Global/KZN/PMB (Inland)/Rosetta_WW	UMG-Rosetta-MCC6.uuw.local	WS-C2960L-16PS-LL
Global/KZN/PMB (Inland)/Rosetta_WW	UMG-Rosetta-MCC7.uuw.local	WS-C2960L-16PS-LL
Global/KZN/PMB (Inland)/Rosetta_WW	UMG-Rosetta-MCC1.uuw.local	WS-C2960L-16PS-LL
Global/KZN/PMB (Inland)/Rosetta_WW	UMG-Rosetta-Tower.uuw.local	WS-C2960L-16PS-LL
Global/KZN/PMB (Inland)/Rosetta_WW	UMG-Rosetta-SW2.uuw.local	C9200L-24P-4G
Global/KZN/PMB (Inland)/Rosetta_WW	UMG-Rosetta-MCC8.uuw.local	WS-C2960L-16PS-LL
Global/KZN/PMB (Inland)/Swartkop/Ground Floor Res	Swartkop	C9200L-24P-4G
Global/KZN/PMB (Inland)/Umlaas_Road_Office/Ground_Floor	UMG-Umlaas-Rd-SW1.uuw.local	C9200L-24P-4G
Global/KZN/PSD (Coastal)/Amanzimtoti_WW	AMZ-ASW02.uuw.co.za	C9200L-24P-4G
Global/KZN/PSD (Coastal)/Amanzimtoti_WW	AMZ-SCADA-ASW01.uuw.co.za	C9200L-24P-4G
Global/KZN/PSD (Coastal)/Amanzimtoti_WW	AMZ-ASW03.uuw.co.za	C9200L-24P-4G
Global/KZN/PSD (Coastal)/Amanzimtoti_WW	AMZ-ASW01.uuw.co.za	C9200L-24P-4G
Global/KZN/PSD (Coastal)/Amanzimtoti_WW	AMZ-CSW-STK01.uuw.co.za	C9200-24P, C9200-24P

C5.110

Global/KZN/PSD (Coastal)/CRB	CRB-CSW01.uuw.co.za	C9200-24P
Global/KZN/PSD (Coastal)/CRB	CRB-ASW01.uuw.co.za	C9200L-24P-4G
Global/KZN/PSD (Coastal)/Durban Heights_WW	UMG-DBN-Heights-Gate.uuw.local	C9200L-24P-4G
Global/KZN/PSD (Coastal)/Durban Heights_WW	DBN_HEIGHTS_SLUDGE.uuw.local	WS-C2960X-24PS-L
Global/KZN/PSD (Coastal)/Durban Heights_WW	UMG_DBN_Heights_Mast.uuw.local	WS-C3560CX-8XPD-S
Global/KZN/PSD (Coastal)/Durban Heights_WW	UMG_DbnHgts_Chem.uuw.local	C9200L-24P-4G
Global/KZN/PSD (Coastal)/Durban Heights_WW	DBN-TRN-ASW04.uuw.local	C9300L-48P-4G
Global/KZN/PSD (Coastal)/Durban Heights_WW	Candy_Tower_SW.uuw.local	WS-C2960X-24PS-L
Global/KZN/PSD (Coastal)/Durban Heights_WW	UMG_DBN_Training_SW2.uuw.local	C9200L-24P-4G
Global/KZN/PSD (Coastal)/Durban Heights_WW	UMG-TheBend.uuw.local	C9200L-24P-4G
Global/KZN/PSD (Coastal)/Durban Heights_WW	UMG_DbnHgts_B_room.uuw.local	C9200L-24P-4G
Global/KZN/PSD (Coastal)/Durban Heights_WW	DBN_Heights_LAB.uuw.local	C9200L-24P-4G
Global/KZN/PSD (Coastal)/Durban Heights_WW	DBN_Heights_Eskom.uuw.local	C9200L-24P-4G
Global/KZN/PSD (Coastal)/Durban Heights_WW	UMG-DBN-Scada-Sw2.uuw.local	C9300L-24UXG-4X
Global/KZN/PSD (Coastal)/Durban Heights_WW	UMG_DBN_Training_SW3.uuw.local	C9300L-48P-4G
Global/KZN/PSD (Coastal)/Durban Heights_WW	UMG-DBN-Scada-Sw1.uuw.local	C9300L-24UXG-4X
Global/KZN/PSD (Coastal)/Durban Heights_WW	UMG_DBN_Heights_SW1.uuw.local	C9200-48P, C9200-48P
Global/KZN/PSD (Coastal)/Durban Heights_WW	DBN-Scada-SW3.uuw.local	WS-C2960X-24PS-L
Global/KZN/PSD (Coastal)/Durban Heights_WW	UMG_DBN_Training_SW1.uuw.local	C9300L-48P-4G
Global/KZN/PSD (Coastal)/Eshowe_WW/Ground Floor	ESH-CSW01.uuw.co.za	C9200-24P
Global/KZN/PSD (Coastal)/Hazelmere_WW	UWU_Hazelmere_Dam.uuw.local	C9200L-24P-4G
Global/KZN/PSD (Coastal)/Hazelmere_WW	UMG-Hazelmere-SW1.uuw.local	C9200-24P, C9200-48P
Global/KZN/PSD (Coastal)/Hazelmere_WW	UMG-Hazelmere-Sheq.uuw.local	C9200L-24P-4G
Global/KZN/PSD (Coastal)/Hazelmere_WW	UMG_Hazel_Maint.uuw.local	C9200L-24P-4G
Global/KZN/PSD (Coastal)/Hazelmere_WW	UMG-Hazelmere-Scada-Sw2.uuw.local	C9300L-24UXG-4X
Global/KZN/PSD (Coastal)/Hazelmere_WW	UMG-Hazelmere-Scada-Sw1.uuw.local	C9300L-24UXG-4X
Global/KZN/PSD (Coastal)/Hazelmere_WW	Haz_Water_Tower.uuw.local	WS-C3560CX-8XPD-S
Global/KZN/PSD (Coastal)/Hillcrest_Executive_Office	UMG-eMaweni-Exec-Sw2.uuw.local	C9300L-24UXG-4X
Global/KZN/PSD (Coastal)/Hillcrest_Executive_Office	UMG-eMaweni-Exec-Sw1.uuw.local	C9300L-24UXG-4X
Global/KZN/PSD (Coastal)/Hillcrest_Executive_Office	UMG-eMaweni-Exec-Sw3.uuw.local	C9300L-24UXG-4X

C5.111

Global/KZN/PSD (Coastal)/Inadna_WW	Inanda_Scada.uuw.local	C9200L-24P-4G
Global/KZN/PSD (Coastal)/Inadna_WW	UMG_Inanda_SW1.uuw.local	C9200L-24P-4G
Global/KZN/PSD (Coastal)/KLF-WWW	KLF-WWW-CSW01.uuw.co.za	C9200-48P
Global/KZN/PSD (Coastal)/Mapamulo_WW	UMG_Maphumulo_SW1.uuw.local	C9200-24P
Global/KZN/PSD (Coastal)/Mapapethwa_WW	MAPHEPHETHA-SCADA.uuw.local	C9200L-24P-4G
Global/KZN/PSD (Coastal)/Mapapethwa_WW	UMG-Mapapethwa-SW1.uuw.local	C9200L-24P-4G
Global/KZN/PSD (Coastal)/Mapapethwa_WW/Ground Floor	UMG-Mapapethwa-SW2.uuw.local	C9200L-24P-4G
Global/KZN/PSD (Coastal)/Nagle_Dam_WW	UMG-Nagle-Dam-Sw1.uuw.local	C9200L-24P-4G
Global/KZN/PSD (Coastal)/Pineside_Regional_Office	UMG-oSebeni-Admin.uuw.local	C9200-48P, C9200-48P, C9200-48P
Global/KZN/PSD (Coastal)/Pineside_Regional_Office	UMG-Pineside-Core.uuw.local	C9500-16X, C9500-16X
Global/KZN/PSD (Coastal)/Pineside_Regional_Office	PINESIDE-DMZ-SW.uuw.local	C9300-48T, C9300-48T
Global/KZN/PSD (Coastal)/Pineside_Regional_Office	UMG-oSebeni-POD.uuw.local	C9200-24P
Global/KZN/PSD (Coastal)/Pineside_Regional_Office	UMG-oSebeni-Stores.uuw.local	C9200L-24P-4G
Global/KZN/PSD (Coastal)/Pineside_Regional_Office	UMG-oSebeni-Mech-Sw1.uuw.local	C9200L-24P-4G, C9200L-24P-4G
Global/KZN/PSD (Coastal)/Pineside_Regional_Office	UMG-Kloof-Tower.uuw.local	WS-C3560CX-8XPD-S
Global/KZN/PSD (Coastal)/Pineside_Regional_Office	UMG-oSebeni-Inst.uuw.local	C9200L-24P-4G
Global/KZN/PSD (Coastal)/Pineside_Regional_Office/Ground Floor	UUW-PTN-SYNERGY-STACK.uuw.local	C9500-12Q, C9500-12Q
Global/KZN/PSD (Coastal)/RES5	UMG_RES5.uuw.local	C9200L-24P-4G
Global/KZN/PSD (Coastal)/Tugela_WW	UMG_Tugela_Scada	C9300L-48T-4G
Global/KZN/PSD (Coastal)/Tugela_WW	UMG-Tugela-Gate.uuw.local	WS-C2960L-8TS-LL
Global/KZN/PSD (Coastal)/Tugela_WW	UMG_Thugela_SW1.uuw.local	C9200L-24P-4G
Global/KZN/PSD (Coastal)/Tugela_WW	UMG_Thugela_SW2.uuw.local	C9200L-24P-4G
Global/KZN/PSD (Coastal)/Tugela_WW	UMG_Thugela_SW3.uuw.local	C9200L-24P-4G
Global/KZN/PSD (Coastal)/Umathalume_WW	UMG_Umthalume_SW1.uuw.local	C9200L-24P-4G
Global/KZN/PSD (Coastal)/Umhlali_Regional_Office	UMG_Umhlali_SW1	C9200-48P, C9200-24P
Global/KZN/PSD (Coastal)/Umhlali_Regional_Office	Umhlali-SW3.uuw.local	C9200L-24P-4G
Global/KZN/PSD (Coastal)/Umzinto_WW	UMG-Quarry-SW1	WS-C3560CX-8XPD-S
Global/KZN/PSD (Coastal)/Umzinto_WW	Umzinto-SW1.uuw.local	C9200-24P
Global/KZN/PSD (Coastal)/Umzinto_WW	Uzinto_SW3	WS-C2960X-24PS-L
Global/KZN/PSD (Coastal)/Umzinto_WW	UMG-Umzinto-Sw2.uuw.local	C9200L-24P-4G
Global/KZN/PSD (Coastal)/Westway_Office_Park/Ground Floor	UUWS-CSW01.uuw.local	C9200-48P, C9200-48P, C9200-48P

Global/KZN/PSD (Coastal)/Wiggins_WW	UMG-Wiggins-Scada-Sw2.uuw.local	C9300L-24UXG-4X
Global/KZN/PSD (Coastal)/Wiggins_WW	UMG_Wiggins_Chem.uuw.local	C9200L-24P-4G
Global/KZN/PSD (Coastal)/Wiggins_WW	UMG_Workshop_Offices.uuw.local	C9200L-24P-4G
Global/KZN/PSD (Coastal)/Wiggins_WW	UMG-Wiggins-Admin-SW1.uuw.local	C9300L-24UXG-4X
Global/KZN/PSD (Coastal)/Wiggins_WW	UMG_Wiggins_PEF-SW1.uuw.local	C9300L-24UXG-4X
Global/KZN/PSD (Coastal)/Wiggins_WW	UMG-Wiggins-PEF-SW2.uuw.local	C9300L-24UXG-4X
Global/KZN/PSD (Coastal)/Wiggins_WW	UMG-Wiggins-Gate.uuw.local	C9200L-24P-4G
Global/KZN/PSD (Coastal)/Wiggins_WW	UMG-Wiggins-Scada-Sw1.uuw.local	C9300L-24UXG-4X
Global/KZN/PSD (Coastal)/Wiggins_WW	UMG-Wiggins-PEF-LAB.uuw.local	C9200L-24P-4G
Global/KZN/PSD (Coastal)/Wiggins_WW	UMG_Wiggins_Workshop.uuw.local	C9200L-24P-4G
Global/KZN/PSD (Coastal)/Wiggins_WW/Ground Floor	WIG-ADM-CSW2	C9200-48P
Global/KZN/RBY (Richards Bay)/Alkandstrand	UMH-Pump-Station-Sw1.uuw.local	C9200-24P
Global/KZN/RBY (Richards Bay)/Jozini	Jozin-WTP-SW1	C9200-24P
Global/KZN/RBY (Richards Bay)/Madungela	Madungela_SW1	C9200-24P
Global/KZN/RBY (Richards Bay)/Mkhalazi	Mkhalazi_SW1.uuw.local	C9200-24P
Global/KZN/RBY (Richards Bay)/Nsezi	Nsezi-WORKSHOP-SW1.uuw.local	C9200-24P
Global/KZN/RBY (Richards Bay)/Nsezi	Nsezi-SEC-Sw1	C9200-24P
Global/KZN/RBY (Richards Bay)/Richards Bay Regional Office	MW-Workshop.uuw.local	C9200-24P
Global/KZN/RBY (Richards Bay)/Richards Bay Regional Office	MW-CE-SW1.uuw.local	C9200-48P
Global/KZN/RBY (Richards Bay)/Richards Bay Regional Office	MW-NEW-LAB-SW1.uuw.local	C9200-48P
Global/KZN/RBY (Richards Bay)/Richards Bay Regional Office	RBRO-CSW1.uuw.local	C9200-24P, C9200-24P
Global/KZN/RBY (Richards Bay)/Richards Bay Regional Office	MW-SEC-SW01.uuw.local	C9200-24P
Global/KZN/RBY (Richards Bay)/Richards Bay Regional Office	MW-HR-SW1.uuw.local	C9200-48P
Global/KZN/RBY (Richards Bay)/Richards Bay Regional Office	MW-Training.uuw.local	C9200-24P
Global/KZN/RBY (Richards Bay)/Richards Bay Regional Office	MW-MAINTENANCE.uuw.local	C9200-24P
Global/KZN/RBY (Richards Bay)/Richards Bay Regional Office	MW-ENG-SW1.uuw.local	C9200-24P, C9200-24P
Global/KZN/RBY (Richards Bay)/Richards Bay Regional Office	MW-Social-Lappa-SW1.uuw.local	C9200-24P
Global/KZN/RBY (Richards Bay)/Richards Bay Regional Office	RBRO-SFSW1.uuw.local	C9500-16X
Global/KZN/RBY (Richards Bay)/Richards Bay Regional Office	MW-LAB-SW02.uuw.local	C9200-24P
Global/KZN/RBY (Richards Bay)/Richards Bay Regional Office	MW-Finance-Sw1.uuw.local	C9200-24P, C9200-24P
Global/KZN/RBY (Richards Bay)/Richards Bay Regional Office	MW-SCM.uuw.local	C9200-48P

Global/KZN/RBY (Richards Bay)/Weir	UMH-Weir.uuw.local	C9200-24P
------------------------------------	--------------------	-----------

4.4. CISCO SWITCH MODULES AND STACKING KITS

Switch Type	40G Module	10G Module	1G /Module	Stacking Modules
C9200-24P		1		
C9200-48P		1		
C9200-48P		1		
C9200-24P		2		Yes
C9200-24P				Yes
C9200-24P		1		
C9200-48P		1		
C9200-24P				
C9200L-24P-4G			1	Yes
C9200L-24P-4G			1	
WS-C2960L-16PS-LL				
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9200L-24P-4G			1	Yes
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9200-24P		1		
C9200L-24P-4G			1	
C9200L-24P-4G			1	Yes
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9200-24P		1		Yes
C9200-48P				Yes
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9200L-24P-4G			1	Yes
C9300L-24UXG-4X				
C9200L-24P-4G			1	Yes
C9300L-24UXG-4X				
C9200L-24P-4G			1	
WS-C3560CX-8XPD-S				
C9200L-24P-4G			1	
C9300L-24UXG-4X				

C5.114

C9200-24P		1		Yes
WS-C3560CX-8XPD-S				
C9200L-24P-4G			1	Yes
C9200L-24P-4G			1	Yes
C9200L-24P-4G			1	Yes
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9200-24P		1		Yes
C9200-24P		1		
C9200-24P		1		Yes
C9200-24P				Yes
C9200-24P				Yes
C9200-24P				
C9200L-48P-4G			1	Yes
C9200L-24P-4G			1	Yes
WS-C2960L-16PS-LL				
WS-C2960L-16PS-LL				
WS-C2960L-16PS-LL				
WS-C2960L-16PS-LL				
C9200L-24P-4G			1	
WS-C2960L-16PS-LL				
WS-C2960L-16PS-LL				
WS-C2960L-16PS-LL				
WS-C2960L-16PS-LL				
WS-C2960L-16PS-LL				
C9200-24P		1		Yes
C9200-48P				Yes
C9200-24P				Yes
C9200-24P				Yes
C9200-24P				Yes
C9200L-48P-4G			1	Yes
C9200L-48P-4G				Yes
C9500-12Q	12			Yes
C9500-12Q	12			Yes
C9200L-24P-4G			1	
C9200-24P		1		Yes
C9200-24P				Yes
C9200-24P				Yes
C9200-24P				
WS-C2960X-24PS-L				
C9200L-24P-4G			1	
C9407R				Yes
C9407R				Yes
C9200-24P				Yes

C5.115

C9200-24P				Yes
C9300L-24UXG-4X		1		
C9300L-24UXG-4X		1		
C9200-24P		1		Yes
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9200-24P		1		Yes
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9200-24P		1		Yes
C9200-24P				Yes
C9200L-24P-4G			1	
C9200L-24P-4G			1	
WS-C2960X-24PS-L				
WS-C3560CX-8XPD-S				
C9200L-24P-4G			1	
C9300L-48P-4G			1	
WS-C2960X-24PS-L				
C9200L-24P-4G			1	
C9200L-24P-4G			1	
WS-C2960L-16PS-LL				
C9300L-48P-4G			1	
C9200L-24P-4G			1	
C9300L-48T-4G			1	
WS-C2960L-8TS-LL				
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9500-40X	1	40		Yes
C9500-40X	1	40		Yes
C9200-24P		1		Yes
C9200-24P				Yes
C9200-24P				Yes
WS-C3560CX-8XPD-S				
C9200-24T				
C9200-24P				Yes
WS-C3560-24PS-E				
C9200-24P		1		Yes
C9200-24P				Yes
C9200-24P		1		Yes
C9200-24P				Yes

C9200-24P				Yes
C9200-24P				Yes
C9200-24P		1		Yes
C9200-24P				Yes
C9200-48P				Yes
C9200-24P		1		Yes
C9200-24P				Yes
C9200-24P				Yes
C9200-24P				Yes
C9200L-24P-4G				
C9200L-24P-4G				
C9200-24P				
C9200-48P				
C9200L-24P-4G				
C9200L-24P-4G				
C9200L-24P-4G				
C9200L-24P-4G				
C9200-24P				
C9200-24P		1		Yes
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9300L-24UXG-4X				
C9300L-48P-4G			1	
C9300L-24UXG-4X				
C9200-48P		1		Yes
C9200-48P				Yes
WS-C2960X-24PS-L				
C9300L-48P-4G			1	
C9200-48P				Yes
C9200-24P				Yes
C9200L-24P-4G			1	
WS-C3560CX-8XPD-S				
C9200-24P				
WS-C2960X-24PS-L				
C9200L-24P-4G			1	
C9200-24P		1		
C9300L-24UXG-4X				
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9200-24P		1		Yes
C9200-24P				Yes
C9200-48P				Yes
C9200-24P				Yes

C5.117

C9200-24P				Yes
C9200-48P				Yes
C9200-24P				Yes
C9200-24P				Yes
C9200-24T		1		
C9200-48P		1		Yes
C9200-48P				Yes
C9200-48P				Yes
C9500-16X		16		Yes
C9500-16X		16		Yes
C9300-48T				Yes
C9300-48T				Yes
C9200-24P		1		Yes
C9200L-24P-4G			1	
C9200L-24P-4G			1	Yes
C9200L-24P-4G			1	Yes
WS-C3560CX-8XPD-S				
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9200-24P				
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9300L-24UXG-4X				
WS-C2960X-24PS-L				
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9200-24P		1		Yes
C9200-24P				Yes
C9200-48P		1		
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9200L-24P-4G			1	Yes
C9200L-24P-4G			1	Yes
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9300L-24UXG-4X				
C9300L-24UXG-4X				
C9300L-24UXG-4X				
C9200L-24P-4G			1	
C9300L-24UXG-4X				
C9200L-24P-4G			1	

C5.118

C9200L-24P-4G			1	
C9200-48P		1		
C9200L-24P-4G			1	
C9200-24P				
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9200-24P		1		
C9200-24P		1		Yes
C9200-24P				Yes
C9200-24P		1		
C9500-16X		16		
C9500-16X		16		
C9200-24P		1		
C9200-24P		1		Yes
C9200-24P				Yes
C9200-48P		1		
C9300L-48P-4G			1	
C9300-48P				
C9200L-24P-4G			1	Yes
C9200L-24P-4G			1	
C9300-24P				
C9200-48P				
C9200L-24P-4G			1	
C9200L-24P-4G			1	Yes
C9200-48P				
C9200-48P				Yes
C9200-48P				Yes
C9200-48P				Yes
C9200-24P				
C9500-12Q	12			Yes
C9500-12Q	12			Yes
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9200L-24P-4G			1	
C9200-24P		1		Yes
C9407R				
C9400-LC-48T				
C9400-SUP-1XL	2			
C9400-SUP-1XL/2				
C9400-LC-24XS		48		
C9400-PWR-2100AC				
C9400-PWR-2100AC				
C9400-PWR-2100AC				

C9400-PWR-2100AC				
C9407R				
C9400-LC-48T				
C9400-SUP-1XL	2			
C9400-SUP-1XL/2				
C9400-LC-24XS		48		
C9400-PWR-2100AC				
C9400-PWR-2100AC				
C9400-PWR-2100AC				
C9400-PWR-2100AC				

4.5. CISCO WIRELESS APS

Location	Device Name	Part No.
Global/KZN/MSI (Msinsi)/Msinsi_Bon_Accord/Bon_Accord_Conferenc e	Bon-Accord-Conf	C9120AXI-E
Global/KZN/MSI (Msinsi)/Msinsi_Head_Office/Block_A	Msinsi-Head-Office-Boardroom	C9120AXI-E
Global/KZN/MSI (Msinsi)/Msinsi_Head_Office/Block_A	Msinsi-Head-Office-AP2	C9120AXI-E
Global/KZN/MSI (Msinsi)/Msinsi_Head_Office/Block_A	Msinsi-Head-Office-AP1	C9120AXI-E
Global/KZN/MSI (Msinsi)/Msinsi_Head_Office/Block_C	Msinsi-Block-C-AP2	C9120AXI-E
Global/KZN/MSI (Msinsi)/Msinsi_Head_Office/Block_C	Msinsi-Block-C-AP1	C9120AXI-E
Global/KZN/MSI (Msinsi)/Msinsi_Head_Office/Block_C	Msinsi-Block-C-AP3	C9120AXI-E
Global/KZN/PMB (Inland)/346_Burger_Street_Office/Ground Floor	346-Burger-AP4	C9120AXI-E
Global/KZN/PMB (Inland)/346_Burger_Street_Office/Ground Floor	346-Burger-AP5	C9120AXI-E
Global/KZN/PMB (Inland)/346_Burger_Street_Office/Ground Floor	346-Burger-AP1	AIR- AP2802I-E- K9
Global/KZN/PMB (Inland)/346_Burger_Street_Office/Ground Floor	346-Burger-Boardroom	AIR- AP2802I-E- K9
Global/KZN/PMB (Inland)/346_Burger_Street_Office/Ground Floor	346-Burger-Back-Office	C9120AXI-E
Global/KZN/PMB (Inland)/346_Burger_Street_Office/Ground Floor	346-Burger-AP2	AIR- AP2802I-E- K9
Global/KZN/PMB (Inland)/346_Burger_Street_Office/Ground Floor	346-Burger-AP3	C9120AXI-E
Global/KZN/PMB (Inland)/Albert_Falls_Office/Ground Floor	Albert-Falls	C9120AXI-E
Global/KZN/PMB (Inland)/Appelsbosch_WWW/Ground Floor	Appelsbosch-AP	C9120AXI-E
Global/KZN/PMB (Inland)/Camperdown_WWW/Ground Floor	Camperdown-AP	C9120AXI-E
Global/KZN/PMB (Inland)/Cool_Air_WWW/Ground Floor	Cool-Air-AP1	C9120AXI-E

Global/KZN/PMB (Inland)/DAR-WWW/1st Floor	Darvill-AP7	C9120AXI-E
Global/KZN/PMB (Inland)/DAR-WWW/1st Floor	Darvill-AP5	C9120AXI-E
Global/KZN/PMB (Inland)/DAR-WWW/1st Floor	Darvill-AP4	C9120AXI-E
Global/KZN/PMB (Inland)/DAR-WWW/1st Floor	Darvill-AP6	C9120AXI-E
Global/KZN/PMB (Inland)/DAR-WWW/1st Floor	Darvill-AP8	C9120AXI-E
Global/KZN/PMB (Inland)/DAR-WWW/Ground Floor	Darvill-AP3	AIR-AP1852I-E-K9
Global/KZN/PMB (Inland)/DAR-WWW/Ground Floor	Darvil-Workshop-AP1	C9120AXI-E
Global/KZN/PMB (Inland)/DAR-WWW/Ground Floor	Darvill-Workshop-AP2	C9120AXI-E
Global/KZN/PMB (Inland)/DV_Harris_WW/1st Floor	DV-Harris-Offices	C9120AXI-E
Global/KZN/PMB (Inland)/DV_Harris_WW/1st Floor	DV-Harris-AP1	AIR-AP1852I-E-K9
Global/KZN/PMB (Inland)/DV_Harris_WW/1st Floor	DV-Harris-Comp-Room	C9120AXI-E
Global/KZN/PMB (Inland)/DV_Harris_WW/Control Room	DV-Harris-Control-Room-AP	AIR-AP1852I-E-K9
Global/KZN/PMB (Inland)/DV_Harris_WW/Control Room	DV-Harris-LAB	C9120AXI-E
Global/KZN/PMB (Inland)/DV_Harris_WW/Control Room	DV-Harris-Control-Room	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 1/1st Floor	Finance-AP1	AIR-AP1852I-E-K9
Global/KZN/PMB (Inland)/Head_Office/Phase 1/1st Floor	Phase-1-1st-AP1	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 1/1st Floor	Exco-3	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 1/1st Floor	Phase-1-1st-AP2	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 1/1st Floor	Exco-1	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 1/1st Floor	SCM-Open-Plan-AP2	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 1/1st Floor	Finance-AP2	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 1/1st Floor	P1-121-Offices	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 1/1st Floor	Exco-2	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 1/GND Floor	P1-F0-Gatehouse	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 1/GND Floor	P1-G03	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 1/GND Floor	Strategy-Office-AP2	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 1/GND Floor	P1-G08-Office	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 1/GND Floor	Strategy-Office-AP1	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 1/GND Floor	SCM-Boardroom	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 2/1st Floor	P2-Gangway	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 2/1st Floor	P2-108-Offices	C9120AXI-E

C5.121

Global/KZN/PMB (Inland)/Head_Office/Phase 2/1st Floor	P2-Control-Room	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 2/1st Floor	P2-102-Offices	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 2/1st Floor	P2-106-Office	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 2/1st Floor	Exec-Science-Serv	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 2/1st Floor	Scientific-Services	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 2/2nd Floor	P2-204-Office	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 2/2nd Floor	P2-F2-Exec-Operations	AIR-AP1852I-E-K9
Global/KZN/PMB (Inland)/Head_Office/Phase 2/2nd Floor	P2-214-Office	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 2/2nd Floor	P2-207-Offices	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 2/2nd Floor	P2-212-Office	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 2/3rd Floor	P2-303-Office	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 2/3rd Floor	P2-308-Office	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 2/3rd Floor	P2-F3-Lab3	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 2/3rd Floor	P2-306-Office	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 2/3rd Floor	P2-F3-Lab1	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 2/3rd Floor	P2-311-Office	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 2/4th Floor	P2-4-Lab2	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 2/4th Floor	P2-4-02	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 2/4th Floor	P2-4-Lab4	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 2/4th Floor	P2-4-Lab3	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 2/4th Floor	P2-4-05	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 2/4th Floor	P2-4-Lab1	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 2/GND Floor	P2-GND-Lab2	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 2/GND Floor	P2-Library	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 2/GND Floor	P2-Library-Office	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 2/GND Floor	P2-F0-01	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 2/GND Floor	P2-Lab-Receiving	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 2/GND Floor	P2-Library-Rec	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 2/GND Floor	P2-Gnd-Lab1	C9120AXI-E

C5.122

Global/KZN/PMB (Inland)/Head_Office/Phase 3/1st Floor	ICT-AP1	AIR-AP1852I-E-K9
Global/KZN/PMB (Inland)/Head_Office/Phase 3/1st Floor	P3-1-05	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 3/1st Floor	P3-1-ICT-Manager	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 3/1st Floor	P3-1-Umgeni-Room	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 3/1st Floor	ICT-Meeting-Room-Jad	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 3/1st Floor	ICT-Support	AIR-AP1852I-E-K9
Global/KZN/PMB (Inland)/Head_Office/Phase 3/1st Floor	ICT-AP2	AIR-AP1852I-E-K9
Global/KZN/PMB (Inland)/Head_Office/Phase 3/1st Floor	P3-1-Lift-Foyer	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 3/1st Floor	UMG-PMB-WLC.uuw.local	C9800-CL-K9
Global/KZN/PMB (Inland)/Head_Office/Phase 3/1st Floor	P3-F1-05	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 3/1st Floor	P3-1-16	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 3/1st Floor	P3-1-1.14-Office	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 3/Ground Floor	P3-G-Foyer	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 3/Ground Floor	P3-G-Training-Room	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 3/Ground Floor	Head-Office-Canteen	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 3/Ground Floor	P3-G-09	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 3/Ground Floor	P3-G-15	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 3/Ground Floor	P3-F0-AP	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 3/Ground Floor	P3-G-01	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 3/Ground Floor	P3-G-07	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 3/Ground Floor	HR-Records-Room	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 3/Ground Floor	P3-G-12	C9120AXI-E
Global/KZN/PMB (Inland)/Head_Office/Phase 3/Ground Floor	P3-G-04	C9120AXI-E
Global/KZN/PMB (Inland)/Howick_WWW/Ground Floor	Howick-AP1	C9120AXI-E
Global/KZN/PMB (Inland)/Howick_WWW/Ground Floor	Howick-AP2	C9120AXI-E
Global/KZN/PMB (Inland)/Ixopo_WW/Ground Floor	Ixopo-Offices	C9120AXI-E
Global/KZN/PMB (Inland)/Ixopo_WW/Ground Floor	Ixopo-Lab	C9120AXI-E
Global/KZN/PMB (Inland)/Jabu_Ndlovu_Office/Left Building	Jabu-AP1	C9120AXI-E
Global/KZN/PMB (Inland)/Jabu_Ndlovu_Office/Left Building	Jabu-AP2	C9115AXI-E

Global/KZN/PMB (Inland)/Lidgetton_WW/Ground Floor	Lidgetton-Office	C9120AXI-E
Global/KZN/PMB (Inland)/Lynnfield_WWW/Ground Floor	Lynnfield-AP2	C9120AXI-E
Global/KZN/PMB (Inland)/Lynnfield_WWW/Ground Floor	Lynnfield-AP1	C9120AXI-E
Global/KZN/PMB (Inland)/Mearns_WW/Ground Floor	Mearns-AP	C9120AXI-E
Global/KZN/PMB (Inland)/Mhlabatshane_WW/Ground Floor	Mhlabatshane-New-Office	C9120AXI-E
Global/KZN/PMB (Inland)/Mhlabatshane_WW/Ground Floor	Mhlabatshane-Office	C9120AXI-E
Global/KZN/PMB (Inland)/Midmar_WW/1st_Floor	Midmar-Comp-Room	C9120AXI-E
Global/KZN/PMB (Inland)/Midmar_WW/1st_Floor	Midmar-1st-Floor-Offices	C9120AXI-E
Global/KZN/PMB (Inland)/Midmar_WW/Area West	Midmar-Area-West-B-Room	C9120AXI-E
Global/KZN/PMB (Inland)/Midmar_WW/Area West	Midmar-Area-West-AP	AIR-AP1852I-E-K9
Global/KZN/PMB (Inland)/Midmar_WW/Electrical Workshop	Midmar-Elect-AP1	C9120AXI-E
Global/KZN/PMB (Inland)/Midmar_WW/Electrical Workshop	Midmar-Elect-AP2	C9120AXI-E
Global/KZN/PMB (Inland)/Midmar_WW/Ground Floor	Midmar-Training-Centre	C9120AXI-E
Global/KZN/PMB (Inland)/Midmar_WW/Ground Floor	Midmar-Canteen	C9120AXI-E
Global/KZN/PMB (Inland)/Midmar_WW/Ground Floor	Midmar-Office-AP	C9120AXI-E
Global/KZN/PMB (Inland)/Midmar_WW/Sludge Plant	Midmar-Sludge-AP1	C9120AXI-E
Global/KZN/PMB (Inland)/Midmar_WW/Sludge Plant	Midmar-Sludge-AP2	C9120AXI-E
Global/KZN/PMB (Inland)/Mkondeni_Regional_Office/1st_Floor	Mkondeni-G15-Offices	C9120AXI-E
Global/KZN/PMB (Inland)/Mkondeni_Regional_Office/1st_Floor	Mkondeni-Office-AP1	AIR-AP1852I-E-K9
Global/KZN/PMB (Inland)/Mkondeni_Regional_Office/Civils	Mkondeni-Civils-1	C9120AXI-E
Global/KZN/PMB (Inland)/Mkondeni_Regional_Office/Civils	Mkondeni-Civils-3	C9120AXI-E
Global/KZN/PMB (Inland)/Mkondeni_Regional_Office/Civils	Mkondeni-Civils-2	C9120AXI-E
Global/KZN/PMB (Inland)/Mkondeni_Regional_Office/Construction	Mkondeni-Construct-AP6	C9120AXI-E
Global/KZN/PMB (Inland)/Mkondeni_Regional_Office/Construction	Mkondeni-Construct-AP3	C9120AXI-E
Global/KZN/PMB (Inland)/Mkondeni_Regional_Office/Construction	Mkondeni-Construct-AP2	C9120AXI-E
Global/KZN/PMB (Inland)/Mkondeni_Regional_Office/Construction	Mkondeni-Construct-AP5	C9120AXI-E
Global/KZN/PMB (Inland)/Mkondeni_Regional_Office/Construction	Mkondeni-Construct-AP4	C9120AXI-E
Global/KZN/PMB (Inland)/Mkondeni_Regional_Office/Ground Floor	Mkondeni-Ground-Floor-3	C9120AXI-E
Global/KZN/PMB (Inland)/Mkondeni_Regional_Office/Ground Floor	Maintenance-Office	C9120AXI-E
Global/KZN/PMB (Inland)/Mkondeni_Regional_Office/Ground Floor	Mkondeni-Canteen	C9120AXI-E
Global/KZN/PMB (Inland)/Mkondeni_Regional_Office/Ground Floor	Mkondeni-Ground-Floor-2	C9120AXI-E

Global/KZN/PMB (Inland)/Mkondeni_Regional_Office/Ground_Floor	Mkondeni-Foyer	C9120AXI-E
Global/KZN/PMB (Inland)/Mkondeni_Regional_Office/Ground_Floor	Mkondeni-Ground-Floor-4	C9120AXI-E
Global/KZN/PMB (Inland)/Mkondeni_Regional_Office/Ground_Floor	Mkondeni-Ground-Floor-1	C9120AXI-E
Global/KZN/PMB (Inland)/Mkondeni_Regional_Office/Ground_Floor	Mkondeni-Canteen1	C9120AXI-E
Global/KZN/PMB (Inland)/Mkondeni_Regional_Office/Ground_Floor	Mkondeni-Boardroom	C9120AXI-E
Global/KZN/PMB (Inland)/Mkondeni_Regional_Office/Instruments	Mkonden-Instruments	C9120AXI-E
Global/KZN/PMB (Inland)/Mkondeni_Regional_Office/Lab_1	Mkondeni-Lab-AP1	C9115AXI-E
Global/KZN/PMB (Inland)/Mkondeni_Regional_Office/Mkondeni Workshop Offices	Mkondeni-Workshop-Office-3	C9120AXI-E
Global/KZN/PMB (Inland)/Mkondeni_Regional_Office/Mkondeni Workshop Offices	Mkondeni-Workshop-Office-2	C9120AXI-E
Global/KZN/PMB (Inland)/Mkondeni_Regional_Office/Mkondeni Workshop Offices	Mkondeni-Workshop-Office	C9120AXI-E
Global/KZN/PMB (Inland)/Mkondeni_Regional_Office/Mkondeni Workshop Offices	Mkondeni-Workshop-Office-4	C9120AXI-E
Global/KZN/PMB (Inland)/Mkondeni_Regional_Office/Stores	Mkondeni-Stores-AP1	C9120AXI-E
Global/KZN/PMB (Inland)/Mkondeni_Regional_Office/Stores	Mkondeni-Stores-AP2	C9120AXI-E
Global/KZN/PMB (Inland)/Mkondeni_Regional_Office/Stores	Mkondeni-Stores-Front	C9120AXI-E
Global/KZN/PMB (Inland)/Mkondeni_Regional_Office/Stores	Mkondeni-Stores	AIR- AP1852I-E- K9
Global/KZN/PMB (Inland)/Mkondeni_Regional_Office/Stores	Mkondeni-Stores-Office	C9120AXI-E
Global/KZN/PMB (Inland)/Mkondeni_Regional_Office/Workshop	Mkondeni-Workshop-AP1	C9120AXI-E
Global/KZN/PMB (Inland)/Mkondeni_Regional_Office/Workshop	Mkondeni-Workshop-AP2	C9120AXI-E
Global/KZN/PMB (Inland)/Mpofana WW/Ground Floor	Mpofana-Water-Works	C9120AXI-E
Global/KZN/PMB (Inland)/Mpofana WWW/Ground Floor	Mpofana-Waste-AP1	C9120AXI-E
Global/KZN/PMB (Inland)/Prince Alfred Office/1st Floor	Prince-Afred-AP10	C9115AXI-E
Global/KZN/PMB (Inland)/Prince Alfred Office/1st Floor	Prince-Alfred-AP7	C9115AXI-E
Global/KZN/PMB (Inland)/Prince Alfred Office/1st Floor	Prince-Alfred-AP6	C9115AXI-E
Global/KZN/PMB (Inland)/Prince Alfred Office/1st Floor	Prince-Alfred-AP8	C9115AXI-E
Global/KZN/PMB (Inland)/Prince Alfred Office/Ground Floor	Prince-Alfred-AP3	C9115AXI-E
Global/KZN/PMB (Inland)/Prince Alfred Office/Ground Floor	Prince-Alfred-AP9	C9115AXI-E
Global/KZN/PMB (Inland)/Prince Alfred Office/Ground Floor	Prince-Alfred-AP2	C9115AXI-E

Global/KZN/PMB (Inland)/Prince Alfred Office/Ground Floor	Prince-Alfred-AP4	C9115AXI-E
Global/KZN/PMB (Inland)/Prince Alfred Office/Ground Floor	Prince-Alfred-AP5	C9115AXI-E
Global/KZN/PMB (Inland)/Prince Alfred Office/Ground Floor	Prince-Alfred-AP1	C9115AXI-E
Global/KZN/PMB (Inland)/Richmond WWW/Ground Floor	Richmond-Waste-AP1	C9120AXI-E
Global/KZN/PMB (Inland)/Rosetta WW/Ground Floor	Rosetta-Offices	C9115AXI-E
Global/KZN/PMB (Inland)/Rosetta WW/Ground Floor	Rosetta-Boardroom	C9115AXI-E
Global/KZN/PMB (Inland)/Rosetta WW/Ground Floor	Rosetta-Pump-Station	C9120AXI-E
Global/KZN/PMB (Inland)/Rosetta WW/Ground Floor	Rosetta-Comp	C9115AXI-E
Global/KZN/PMB (Inland)/Rosetta WW/Ground Floor	Rosetta-Reception	C9115AXI-E
Global/KZN/PMB (Inland)/Umlaas Road Office/Ground Floor	Umlaas-AP1	C9120AXI-E
Global/KZN/PSD (Coastal)/Amanzimtoti_WW/1st Floor	Amanzimtoti-Control-Room	C9120AXI-E
Global/KZN/PSD (Coastal)/Amanzimtoti_WW/1st Floor	Amanzimtoti-Admin-AP	AIR-AP1852I-E-K9
Global/KZN/PSD (Coastal)/Amanzimtoti_WW/Boardroom	Amanzimtoti-Boardroom	AIR-AP1852I-E-K9
Global/KZN/PSD (Coastal)/Amanzimtoti_WW/Toti Quickjack-1	Amanzimtoti-Quickjack-1	C9120AXI-E
Global/KZN/PSD (Coastal)/Amanzimtoti_WW/Toti Quickjack-2	Amanzimtoti-Quickjack-2	C9120AXI-E
Global/KZN/PSD (Coastal)/Amanzimtoti_WW/Toti Sheq	Amanzimtoti-Sheq	C9120AXI-E
Global/KZN/PSD (Coastal)/CRB/Admin	Craieburn.Office	C9120AXI-E
Global/KZN/PSD (Coastal)/CRB/Control Room	Craieburn-Control-Room	C9120AXI-E
Global/KZN/PSD (Coastal)/Durban Heights_WW/Admin 2nd Floor	DBN-Control-Room-2	C9120AXI-E
Global/KZN/PSD (Coastal)/Durban Heights_WW/Admin 2nd Floor	DBN-Admin-2nd-Floor	C9120AXI-E
Global/KZN/PSD (Coastal)/Durban_Heights_WW/Admin 2nd Floor	DBN-Control-Room	AIR-AP1852I-E-K9
Global/KZN/PSD (Coastal)/Durban_Heights_WW/Admin Ground Floor	DBN-Heights-NewB	AIR-AP1852I-E-K9
Global/KZN/PSD (Coastal)/Durban_Heights_WW/Admin Ground Floor	DBN-Reception-GND	C9120AXI-E
Global/KZN/PSD (Coastal)/Durban_Heights_WW/Admin_1st_Floor	DBN-Eskom-AP2	C9120AXI-E
Global/KZN/PSD (Coastal)/Durban_Heights_WW/Admin_1st_Floor	DBN-Heights-1stFloor	AIR-AP1852I-E-K9
Global/KZN/PSD (Coastal)/Durban Heights_WW/Admin 1st Floor	DBN-Training-Upper-Offices	C9120AXI-E
Global/KZN/PSD (Coastal)/Durban Heights_WW/Admin 1st Floor	DBN-Training-Centre-Reception	C9120AXI-E
Global/KZN/PSD (Coastal)/Durban Heights_WW/Admin 1st Floor	DBN-Offices-1st-Floor	C9120AXI-E

Global/KZN/PSD (Coastal)/Durban_Heights_WW/Admin_1st_Floor	DBN-Sludge-AP	AIR- AP1852I-E- K9
Global/KZN/PSD (Coastal)/Durban_Heights_WW/Admin_1st_Floor	DBN-Lab-AP1	C9120AXI-E
Global/KZN/PSD (Coastal)/Durban_Heights_WW/Admin_1st_Floor	DBN-Eskom-AP1	C9120AXI-E
Global/KZN/PSD (Coastal)/Durban_Heights_WW/Admin_1st_Floor	DBN-Training-Centre-1A	C9120AXI-E
Global/KZN/PSD (Coastal)/Durban_Heights_WW/Admin_1st_Floor	DBN-Training-Centre-1st	C9120AXI-E
Global/KZN/PSD (Coastal)/Durban_Heights_WW/Boardroom	DBN-Heights-Boardroom-AP	C9120AXI-E
Global/KZN/PSD (Coastal)/Durban_Heights_WW/Chem_House	DBN-Heights-Chem-House	C9120AXI-E
Global/KZN/PSD (Coastal)/Durban_Heights_WW/Stores	DBN-Stores	C9120AXI-E
Global/KZN/PSD (Coastal)/Durban_Heights_WW/Training_1st_Floor	DBN-Training-1B	C9120AXI-E
Global/KZN/PSD (Coastal)/Durban_Heights_WW/Training_1st_Floor	DBN-Training-1st-Passage	C9120AXI-E
Global/KZN/PSD (Coastal)/Durban_Heights_WW/Training_Ground Floor	DBN-Training-GND-AP1	C9120AXI-E
Global/KZN/PSD (Coastal)/Durban_Heights_WW/Workshops	DBN-Mech-Workshop	C9120AXI-E
Global/KZN/PSD (Coastal)/Durban_Heights_WW/Workshops	DBN-Electrical-W-shop	C9120AXI-E
Global/KZN/PSD (Coastal)/Durban_Heights_WW/Workshops	DBN-Handyman-W-Shop	C9120AXI-E
Global/KZN/PSD (Coastal)/Eshowe_WW/Ground Floor	Eshowe-AP2	C9120AXI-E
Global/KZN/PSD (Coastal)/Eshowe_WW/Ground Floor	Eshowe-AP1	C9120AXI-E
Global/KZN/PSD (Coastal)/Hazelmeres_WW/1st Floor	Hazelmeres-Control-Room	AIR- AP1852I-E- K9
Global/KZN/PSD (Coastal)/Hazelmeres_WW/1st Floor	Hazelmeres-Offices	C9120AXI-E
Global/KZN/PSD (Coastal)/Hazelmeres_WW/1st Floor	Hazelmeres-Boardroom	C9120AXI-E
Global/KZN/PSD (Coastal)/Hazelmeres_WW/1st Floor	Hazelmeres-Superintendent	C9120AXI-E
Global/KZN/PSD (Coastal)/Hazelmeres_WW/1st Floor	Hazelmeres-Reception	C9120AXI-E
Global/KZN/PSD (Coastal)/Hazelmeres_WW/Hazelmeres Dam	Hazelmeres-Dam	C9120AXI-E
Global/KZN/PSD (Coastal)/Hazelmeres_WW/Hazelmeres Sheq	Hazelmeres-Sheq	C9120AXI-E
Global/KZN/PSD (Coastal)/Hazelmeres_WW/Instruments	Hazelmeres-Instruments	C9120AXI-E
Global/KZN/PSD (Coastal)/Hazelmeres_WW/Maintenance	Hazelmeres-Maintenance	C9120AXI-E
Global/KZN/PSD (Coastal)/Hillcrest_Executive_Office/1st Floor	Hillcrest-Upper-Left	C9115AXI-E
Global/KZN/PSD (Coastal)/Hillcrest_Executive_Office/1st Floor	Hillcrest-Upper-Right	C9115AXI-E
Global/KZN/PSD (Coastal)/Hillcrest_Executive_Office/1st Floor	Hillcrest-Canteen	C9120AXI-E
Global/KZN/PSD (Coastal)/Hillcrest_Executive_Office/Ground Floor	Hillcrest-Reception	C9115AXI-E

Global/KZN/PSD (Coastal)/Hillcrest_Executive_Office/Ground Floor	Hillcrest-Main-Boardrrom	C9115AXI-E
Global/KZN/PSD (Coastal)/Hillcrest_Executive_Office/Ground Floor	Hillcrest-Small-Boardroom	C9115AXI-E
Global/KZN/PSD (Coastal)/Inadna_WW/Ground Floor	UMG-Inanda-Dam	C9120AXI-E
Global/KZN/PSD (Coastal)/KLF-WWW/Ground Floor	KLOOF-AP1	C9120AXI-E
Global/KZN/PSD (Coastal)/KLF-WWW/Ground Floor	KLOOF-AP2	C9120AXI-E
Global/KZN/PSD (Coastal)/Mapamulo_WW/Ground Floor	MAP-AP-CONTROL	C9120AXI-E
Global/KZN/PSD (Coastal)/Mapapethwa_WW/Boardroom	Mapapethwa-B-Room	C9120AXI-E
Global/KZN/PSD (Coastal)/Mapapethwa_WW/Control Room	Mapapethwa-Control	C9120AXI-E
Global/KZN/PSD (Coastal)/Nagle_Dam_WW/Ground Floor	Nagle-Dam	C9120AXI-E
Global/KZN/PSD (Coastal)/Pineside_Regional_Office/Ground Floor	Pineside-Sec-AP	C9120AXI-E
Global/KZN/PSD (Coastal)/Pineside_Regional_Office/Ground Floor	Pineside-Main-Boardroom	C9120AXI-E
Global/KZN/PSD (Coastal)/Pineside_Regional_Office/Ground Floor	Pineside-Office-10	C9120AXI-E
Global/KZN/PSD (Coastal)/Pineside_Regional_Office/Ground Floor	Pineside-Office-25	C9120AXI-E
Global/KZN/PSD (Coastal)/Pineside_Regional_Office/Ground Floor	Pineside-Workshop-AP	AIR- AP1852I-E- K9
Global/KZN/PSD (Coastal)/Pineside_Regional_Office/Ground Floor	UMG-PTN-WLC.uuw.local	C9800-CL- K9
Global/KZN/PSD (Coastal)/Pineside_Regional_Office/Ground Floor	Pineside-Instruments	C9120AXI-E
Global/KZN/PSD (Coastal)/Pineside_Regional_Office/Ground Floor	Pinside-Canteen-2	C9120AXI-E
Global/KZN/PSD (Coastal)/Pineside_Regional_Office/Ground Floor	Pineside-Canteen-1	C9120AXI-E
Global/KZN/PSD (Coastal)/Pineside_Regional_Office/Ground Floor	Pineside-Office-24	C9120AXI-E
Global/KZN/PSD (Coastal)/Pineside_Regional_Office/Ground Floor	Pineside-Workshop-AP2	C9120AXI-E
Global/KZN/PSD (Coastal)/Pineside_Regional_Office/Ground Floor	Pineside-Upper-Left-AP	AIR- AP1852I-E- K9
Global/KZN/PSD (Coastal)/Pineside_Regional_Office/Ground Floor	Pineside-Civil-Maint	C9120AXI-E
Global/KZN/PSD (Coastal)/Pineside_Regional_Office/Ground Floor	Pineside-Loss-Water	C9120AXI-E
Global/KZN/PSD (Coastal)/Pineside_Regional_Office/Ground Floor	Pineside-GND-Boardroom	C9120AXI-E
Global/KZN/PSD (Coastal)/Pineside_Regional_Office/Ground Floor	Pineside-Office-31	C9120AXI-E
Global/KZN/PSD (Coastal)/Pineside_Regional_Office/Ground Floor	Pineside-Office-12	C9120AXI-E
Global/KZN/PSD (Coastal)/Pineside_Regional_Office/Ground Floor	Pineside-Stores-1	C9120AXI-E
Global/KZN/PSD (Coastal)/Pineside_Regional_Office/Ground Floor	Pineside-Office-7	C9120AXI-E
Global/KZN/PSD (Coastal)/Pineside_Regional_Office/Ground Floor	Pineside-Office-15	C9120AXI-E

Global/KZN/PSD (Coastal)/Pineside_Regional_Office/Ground Floor	Pineside-Electrical	C9120AXI-E
Global/KZN/PSD (Coastal)/Pineside_Regional_Office/Ground Floor	Pineside-POD-AP	AIR- AP1852I-E- K9
Global/KZN/PSD (Coastal)/Pineside_Regional_Office/Ground Floor	Pineside-Stores-2	C9120AXI-E
Global/KZN/PSD (Coastal)/Pineside_Regional_Office/Ground Floor	Pineside-Upper-Right-AP	AIR- AP1852I-E- K9
Global/KZN/PSD (Coastal)/Tugela_WW/1st Floor	Tugela-Reception-AP1	AIR- AP1852I-E- K9
Global/KZN/PSD (Coastal)/Tugela_WW/1st Floor	Tugela-1st-Floor-Offices	C9120AXI-E
Global/KZN/PSD (Coastal)/Tugela_WW/1st Floor	Tugela-Boardroom	C9120AXI-E
Global/KZN/PSD (Coastal)/Tugela_WW/1st Floor	Tugela-Offices-AP2	AIR- AP1852I-E- K9
Global/KZN/PSD (Coastal)/Tugela_WW/Ground Floor	Tugela-Ground-Floor	C9120AXI-E
Global/KZN/PSD (Coastal)/Tugela_WW/Ground Floor	Tugela-Comp-Room	C9120AXI-E
Global/KZN/PSD (Coastal)/Tugela_WW/Ground Floor	Tugela-Chem-House	C9120AXI-E
Global/KZN/PSD (Coastal)/Umthlume_WW/Control Room	Umthlume-Control-Room	C9120AXI-E
Global/KZN/PSD (Coastal)/Umthlume_WW/Offices	Umthlume-Office-AP	AIR- AP1852I-E- K9
Global/KZN/PSD (Coastal)/Umhlali_Regional_Office/1st Floor	Umhlali-1st-Floor-AP2	C9120AXI-E
Global/KZN/PSD (Coastal)/Umhlali_Regional_Office/1st Floor	Umhlali-1st-Floor-AP1	C9120AXI-E
Global/KZN/PSD (Coastal)/Umhlali_Regional_Office/1st Floor	Umhlali-AP1	AIR- AP1852I-E- K9
Global/KZN/PSD (Coastal)/Umhlali_Regional_Office/1st Floor	Umhlali-AP2	AIR- AP1852I-E- K9
Global/KZN/PSD (Coastal)/Umhlali_Regional_Office/Ground Floor	Umhlali-GND-AP2	C9120AXI-E
Global/KZN/PSD (Coastal)/Umhlali_Regional_Office/Ground Floor	Umhlali-GND-AP1	C9120AXI-E
Global/KZN/PSD (Coastal)/Umhlali_Regional_Office/Ground Floor	Umhlali-Reception	C9120AXI-E
Global/KZN/PSD (Coastal)/Umhlali_Regional_Office/Ground Floor	Umhlali-Boardroom	C9120AXI-E
Global/KZN/PSD (Coastal)/Umhlali_Regional_Office/Workshop	Umhlali-Workshop-AP2	C9120AXI-E
Global/KZN/PSD (Coastal)/Umhlali_Regional_Office/Workshop	Umhlali-Workshop-Offices	C9120AXI-E
Global/KZN/PSD (Coastal)/Umhlali_Regional_Office/Workshop	Umhlali-Workshop-AP1	AIR- AP1852I-E- K9
Global/KZN/PSD (Coastal)/Umzinto_WW/Control Room	Umzinto-Control	C9120AXI-E
Global/KZN/PSD (Coastal)/Umzinto_WW/Offices	Umzinto-AP	AIR- AP1852I-E- K9
Global/KZN/PSD (Coastal)/Westway_Office_Park/Ground Floor	Westway-AP2-RECEPTION	C9120AXI-E

Global/KZN/PSD (Coastal)/Westway Office Park/Ground Floor	Westway-AP3-OPEN-PLAN	C9120AXI-E
Global/KZN/PSD (Coastal)/Westway Office Park/Ground Floor	Westway-AP1-COMP-ROOM	C9120AXI-E
Global/KZN/PSD (Coastal)/Westway Office Park/Ground Floor	Westway-AP4-SAFE	C9120AXI-E
Global/KZN/PSD (Coastal)/Westway Office Park/Ground Floor	Westway-AP5	C9120AXI-E
Global/KZN/PSD (Coastal)/Wiggins_WW/Ground Floor	Wiggins-PEF-2	C9120AXI-E
Global/KZN/PSD (Coastal)/Wiggins_WW/Ground Floor	Wiggins-PEF-Boardroom	AIR-AP1852I-E-K9
Global/KZN/PSD (Coastal)/Wiggins_WW/Ground Floor	Wiggins-Wshop-Canteen	C9120AXI-E
Global/KZN/PSD (Coastal)/Wiggins_WW/Ground Floor	Wiggins-Control-Room-AP	AIR-AP1852I-E-K9
Global/KZN/PSD (Coastal)/Wiggins_WW/Ground Floor	Wiggins-Admin-GND	AIR-AP1852I-E-K9
Global/KZN/PSD (Coastal)/Wiggins_WW/Ground Floor	Wiggins-PEF-Offices	C9120AXI-E
Global/KZN/PSD (Coastal)/Wiggins_WW/Ground Floor	Wiggins-PEF-Lab	C9120AXI-E
Global/KZN/PSD (Coastal)/Wiggins_WW/Ground Floor	Wiggins-PEF-Entrance	AIR-AP1852I-E-K9
Global/KZN/PSD (Coastal)/Wiggins_WW/Ground Floor	Wiggins-Boardroom	AIR-AP1852I-E-K9
Global/KZN/PSD (Coastal)/Wiggins_WW/Ground Floor	Wiggins-Admin-Offices	C9120AXI-E
Global/KZN/PSD (Coastal)/Wiggins_WW/Ground Floor	Wiggin-Wshop-Office	C9120AXI-E
Global/KZN/PSD (Coastal)/Wiggins_WW/Ground Floor	Wiggins-1st-Floor	C9120AXI-E
Global/KZN/PSD (Coastal)/Wiggins_WW/Ground Floor	Wiggins-Chem-House	C9120AXI-E
Global/KZN/PSD (Coastal)/Wiggins_WW/Ground Floor	Wiggins-Admin-2	AIR-AP1852E-E-K9
Global/KZN/RBY (Richards Bay)/Alkandstrand/Ground Floor	RBAY-ALKANDSTAND	C9120AXI-E
Global/KZN/RBY (Richards Bay)/Jozini/Ground Floor	RBAY-JOZINI	C9120AXI-E
Global/KZN/RBY (Richards Bay)/Madungela/Ground Floor	RBAY-MADUNGELA	C9120AXI-E
Global/KZN/RBY (Richards Bay)/Mkhalazi/Ground Floor	RBAY-MKHALAZI	C9120AXI-E
Global/KZN/RBY (Richards Bay)/Nsezi/1st Floor	RBAY-NSEZI-UPSTAIRS	C9120AXI-E
Global/KZN/RBY (Richards Bay)/Nsezi/1st Floor	RBAY-NSEZI-PASSAGE	C9124AXE-E
Global/KZN/RBY (Richards Bay)/Nsezi/Ground Floor	RBAY-NSEZI-OUTDOOR	C9124AXE-E
Global/KZN/RBY (Richards Bay)/Richards Bay Regional Office/1st Floor	RBAY-F1-ENG-Ops	C9120AXI-E
Global/KZN/RBY (Richards Bay)/Richards Bay Regional Office/1st Floor	RBAY-F1-ENG-Projects	C9120AXI-E
Global/KZN/RBY (Richards Bay)/Richards Bay Regional Office/1st Floor	RBAY-F1-FIN-Creditors	C9120AXI-E

Global/KZN/RBY Bay)/Richards Bay Regional Office/1st Floor	(Richards Bay)	RBAY-F1-FIN-Passage	C9120AXI-E
Global/KZN/RBY Bay)/Richards Bay Regional Office/2nd Floor	(Richards Bay)	RBAY-F2-ENG-Training	C9120AXI-E
Global/KZN/RBY Bay)/Richards Bay Regional Office/Ground Floor	(Richards Bay)	RBAY-F0-CE-Broom	C9120AXI-E
Global/KZN/RBY Bay)/Richards Bay Regional Office/Ground Floor	(Richards Bay)	RBAY-LAPPA	C9120AXI-E
Global/KZN/RBY Bay)/Richards Bay Regional Office/Ground Floor	(Richards Bay)	RBAY-WORKSHOP-PASSAGE	C9120AXI-E
Global/KZN/RBY Bay)/Richards Bay Regional Office/Ground Floor	(Richards Bay)	RBAY-MAINT-INT	C9120AXI-E
Global/KZN/RBY Bay)/Richards Bay Regional Office/Ground Floor	(Richards Bay)	RBAY-MAINT-EXT	C9124AXE-E
Global/KZN/RBY Bay)/Richards Bay Regional Office/Ground Floor	(Richards Bay)	RBAY-F0-HR-Lounge	C9120AXI-E
Global/KZN/RBY Bay)/Richards Bay Regional Office/Ground Floor	(Richards Bay)	RBAY-HR-RECEPTION	C9120AXI-E
Global/KZN/RBY Bay)/Richards Bay Regional Office/Ground Floor	(Richards Bay)	RBAY-F0-HR-Passage	C9120AXI-E
Global/KZN/RBY Bay)/Richards Bay Regional Office/Ground Floor	(Richards Bay)	RBAY-COMPUTER-ROOM	C9120AXI-E
Global/KZN/RBY Bay)/Richards Bay Regional Office/Ground Floor	(Richards Bay)	RBAY-F1-FIN-NEW_AP	C9124AXE-E
Global/KZN/RBY Bay)/Richards Bay Regional Office/Ground Floor	(Richards Bay)	RBAY-SEC-AP	C9120AXI-E
Global/KZN/RBY Bay)/Richards Bay Regional Office/Ground Floor	(Richards Bay)	RBAY-F0-CE-Passage	C9120AXI-E
Global/KZN/RBY Bay)/Richards Bay Regional Office/Lab	(Richards Bay)	RBAY-LAB-AP2	C9120AXI-E
Global/KZN/RBY Bay)/Richards Bay Regional Office/Lab	(Richards Bay)	RBAY-LAB-EXT	C9124AXE-E
Global/KZN/RBY Bay)/Richards Bay Regional Office/Lab	(Richards Bay)	RBAY-LAB-AP1	C9120AXI-E
Global/KZN/RBY Bay)/Richards Bay Regional Office/SCM	(Richards Bay)	RBAY-SCM-PASSAGE	C9120AXI-E
Global/KZN/RBY Bay)/Richards Bay Regional Office/SCM	(Richards Bay)	RBAY-SCM-RECPTION	C9120AXI-E
Global/KZN/RBY Bay)/Richards Bay Regional Office/SCM	(Richards Bay)	RBAY-SCM-STORES	C9120AXI-E
Global/KZN/RBY Bay)/Richards Bay Regional Office/SCM	(Richards Bay)	RBAY-SCM-BUYERS	C9120AXI-E

4.6. UBIQUITI WIRELESS

Site	Model	Latitude	Longitude
Albert Falls	Nano Station M2	-29.426695°	30.426252°
Appelbosch Res	Power Beam M5 620	-29.391306°	30.845550°
Appelbosch Res	M5 Loco	-29.391306°	30.845550°
Appelbosch Waste water	M5 Loco	-29.387524°	30.843565°
Craigeburn Control Room	M5 Loco	-30.182727°	30.766295°
Craigeburn Main Gate	M5 Loco	-30.182405°	30.766362°
Darvill Comp Room	Nano Station M2	-29.602359°	30.430530°
Darvill Main Gate	Nano Station M2	-29.602779°	30.431232°
Hazelmere Water Tower	Nano Station M5	-29.582854°	31.041863°

Msinsi Albert Falls- Chalets	Nano Station 5AC loco	-29.465830°	30.398852°
Msinsi Albert Falls- Chalets	Nano Station 5AC loco	-29.465830°	30.398852°
Msinsi Hazelmere	Nano Station M5	-29.589967°	31.033831°
Msinsi Nagle Dam	M5 Loco	-29.581383°	30.620308°
Msinsi Nagle Gate	M5 Loco	-29.583886°	30.622153°
Richmond Res	Nano Beam M5 19	-29.875965°	30.275325°
Richmond Waste Water	Nano Beam M5 19	-29.885213°	30.266277°
Umthalume Control Room	Nano Station M2	-30.476551°	30.607529°
Umthalume Office	Nano Station M2	-30.476337°	30.607725°

4.7. FIREWALLS AND SECURITY APPLIANCES

Device Name	Location	Model
AMANZIMTOTO-SCADA-FW01	Amanzimtoti	Cisco Firepower 2110 Threat Defense
DARVILL-SCADA-FW01	Darvill	Cisco Firepower 2110 Threat Defense
DBN-HEIGHTS-SCADA-FW01	Durban Heights	Cisco Firepower 2110 Threat Defense
DVHARRIS-SCADA-FW01	DV Harris	Cisco Firepower 2110 Threat Defense
HAZELMERE-SCADA-FW01	Hazelmere	Cisco Firepower 2110 Threat Defense
HO-FW01	Head Office	Cisco Secure Firewall 3140 NGFW
HO-FW02	Head Office	Cisco Secure Firewall 3140 NGFW
MIDMAR-SCADA-FW01	Midmar	Cisco Firepower 2110 Threat Defense
MSINSI-INSIDE-FW01	Msinsi Head Office	Cisco Firepower 2110 Threat Defense
MSINSI-INSIDE-FW02	Msinsi Head Office	Cisco Firepower 2110 Threat Defense
PTN-FW01	Pineside Regional Office	Cisco Firepower 2140 Threat Defense
PTN-FW02	Pineside Regional Office	Cisco Firepower 2140 Threat Defense
TUGELA-SCADA-FW01	Tugela	Cisco Firepower 2110 Threat Defense
WIGGINS-SCADA-FW01	Wiggins	Cisco Firepower 2110 Threat Defense
RBRO-FW01	Richards Bay Regional Office	Cisco Secure Firewall 3140 NGFW
RBRO-FW02	Richards Bay Regional Office	Cisco Secure Firewall 3140 NGFW

Product Number	Description	Quantity
	Cisco Stealthwatch	
ST-FR-BUN	Cisco Stealthwatch Flow Rate Bundle	1
L-ST-FR-LIC=	Cisco Stealthwatch Flow Rate License	10000
L-ST-FR-3Y-S5	Cisco Stealthwatch Flow Rate 3 YR Subs, 10,000-24,999	10000
L-ST-SMC-VE-K9	Cisco Stealthwatch Management Console Virtual Edition	1
ST-SMC2200-K9	Cisco Stealthwatch Management Console 2200	1
CON-SNT-STSMC220	SNTC-8X5XNBD Cisco Stealthwatch Management Console 22	1
ST-PWR-AC-770W	Cisco Stealthwatch AC Power Supply 770W	2
CAB-C13-C14-2M	Power Cord Jumper, C13-C14 Connectors, 2 Meter Length	2

ST-10G-NIC-2FI	Cisco Stealthwatch X520 Dual Port 10G Base-SFP+ NIC	1
ST-SMC-6.9-K9	Cisco Stealthwatch Management Console Software v6.9	1
ST-CPU-E52680E	Cisco Stealthwatch CPU 2.40 GHz E52680 v4 - Cache 14C/35MB	2
ST-MEM-1X322RV-A	Cisco Stealthwatch 32GB DDR4-2400 MHz RDIMM/PC4-19200	16
ST-MRAID12G	Cisco Stealthwatch 12G SAS Modular Raid Controller	1
ST-MRAID12G-4GB	Cisco Stealthwatch 12Gbps SAS 4GB FBWC Cache module	1
ST-HDD-1.2TB	Cisco Stealthwatch 1.2 TB 12G SAS 10K RPM SFF HDD	8
R2XX-RAID6	Enable RAID 6 Setting	1
L-ST-FC-VE-K9	Cisco Stealthwatch Flow Collector Virtual Edition	1
ST-FS1200-K9	Cisco Stealthwatch Flow Sensor 1200	1
CON-SNT-STFS120K	SNTC-8X5XNBD Cisco Stealthwatch Flow Sensor 1200	1
ST-PWR-AC-770W	Cisco Stealthwatch AC Power Supply 770W	2
CAB-C13-C14-2M	Power Cord Jumper, C13-C14 Connectors, 2 Meter Length	2
ST-1G-NIC-4CU	Cisco Stealthwatch i350 Quad Port 1G Copper NIC	1
ST-FS-6.9-K9	Cisco Stealthwatch Flow Sensor Software v6.9	1
ST-CPU-E52609E	Cisco Stealthwatch CPU 1.70 GHz E52609 v4 - Cache 8C/20MB	1
ST-MEM-1X081RV-A	Cisco Stealthwatch 8 GB DDR4-2400 MHz RDIMM/PC4-19200	2
ST-MRAID12G	Cisco Stealthwatch 12G SAS Modular Raid Controller	1
ST-HDD-300GB	Cisco Stealthwatch 300 GB 12G SAS 10K RPM SFF HDD	2
R2XX-RAID1	Enable RAID 1 Setting	1
N20-BBLKD	UCS 2.5 inch HDD blanking panel	6
L-ST-EP-LIC=	Cisco Stealthwatch Endpoint License	2000
L-ST-EP-3Y-S5	Cisco Stealthwatch Endpoint Subs 3YR, 1,000-2,499 Users	2000
	Cisco Identity Services Engine - Servers	
SNS-3515-K9	Small Secure Network Server for ISE Applications	4
CON-SSSNT-SNS3515K	SOLN SUPP 8X5XNBD Small Secure Network Server for ISE Appl	4
SFS-250V-10A-ID	SFS Power Cord - 250V, 10A , India	4
SNS-MLOM-IRJ45	MLOM Intel -Quad Port 1Gb RJ45	4

SNS-MR-1X081RV-A	8GB DDR4-2400	8
SNS-HD600G10K12G	600GB SAS 10K RPM HDD	4
SNS-MRAID12G	Avila Cisco 12G SAS Modular Raid Controller	4
SNS-CPU-E52620D	2.40 GHz E5-2620 v3/6C	4
SNS-MRAID12G-1GB	1GB FBWC for Cisco 12G SAS Modular RAID	4
R2XX-RAID0	Enable RAID 0 Setting	4
SNS-PSU1-770W	770W power supply	4
SW-3515-ISE-K9	Cisco ISE Software for the SNS-3515-K9 appliance	4
	Cisco Identity Services Engine - Licensing	
L-ISE-BSE-PLIC	Cisco ISE Base License	1
L-ISE-BSE-P6	Cisco ISE Base License - Sessions 5000 to 9999	5000
L-ISE-PLS-LIC=	Cisco ISE Plus License	5000
L-ISE-PLS-3Y-S6	Cisco ISE Plus License, 3Y, 5000 - 9999 Sessions	5000
L-ISE-APX-LIC=	Cisco ISE Apex License	5000
L-ISE-APX-3Y-S6	Cisco ISE Apex License, 3Y, 5000 - 9999 Sessions	5000
	Cisco FIREPOWER - Head Office Firewalls	
PWR-CC1-400WDC	Cisco C8300 1RU DC Power supply	4
QSFP-H40G-CU5M	40GBASE CR4 Passive Copper Cable 5m	8
CON-SNT-FPR3140N	SNTC 8X5XNBD Cisco Secure Firewall 3140 NGFW Applianc	2
CON-SNT-FPR40KXN	SNTC 8X5XNBD Cisco FPR3K 4 port 40G QSFP Netmod	2
FPR3140-NGFW-K9	Cisco Secure Firewall 3140 NGFW Appliance 1U	2
FPR3K-XNM-4X40G	Cisco Secure Firewall 3100 4X40G QSFP+ Netmod	2
L-FPR3140T-TMC-1Y	Cisco Secure Firewall 3140 TD AMP & URL Filtering 1Y Subs	2
	Cisco FIREPOWER - Pineside Firewalls	
PWR-CC1-400WDC	Cisco C8300 1RU DC Power supply	4
QSFP-H40G-CU5M	40GBASE CR4 Passive Copper Cable 5m	8
CON-SNT-FPR3140N	SNTC 8X5XNBD Cisco Secure Firewall 3140 NGFW Applianc	2
CON-SNT-FPR40KXN	SNTC 8X5XNBD Cisco FPR3K 4 port 40G QSFP Netmod	2
FPR3140-NGFW-K9	Cisco Secure Firewall 3140 NGFW Appliance 1U	2
FPR3K-XNM-4X40G	Cisco Secure Firewall 3100 4X40G QSFP+ Netmod	2

L-FPR3140T-TMC-1Y	Cisco Secure Firewall 3140 TD AMP & URL Filtering 1Y Subs	2
	Cisco FIREPOWER – Richards Bay Firewalls	
PWR-CC1-400WDC	Cisco C8300 1RU DC Power supply	4
QSFP-H40G-CU5M	40GBASE CR4 Passive Copper Cable 5m	8
CON-SNT-FPR3140N	SNTC 8X5XNBD Cisco Secure Firewall 3140 NGFW Applianc	2
CON-SNT-FPR40KXN	SNTC 8X5XNBD Cisco FPR3K 4 port 40G QSFP Netmod	2
FPR3140-NGFW-K9	Cisco Secure Firewall 3140 NGFW Appliance 1U	2
FPR3K-XNM-4X40G	Cisco Secure Firewall 3100 4X40G QSFP+ Netmod	2
L-FPR3140T-TMC-1Y	Cisco Secure Firewall 3140 TD AMP & URL Filtering 1Y Subs	2
	Cisco FIREPOWER -Msinsi Firewalls	
FPR2110-FTD-HA-BUN	Cisco Firepower 2110 Threat Defense Chss,Subs HA Bundle	1
FPR2110-NGFW-K9	Cisco Firepower 2110 NGFW Appliance, 1U	2
CON-SSSNT-FPR21FWN	SOLN SUPP 8X5XNBD Cisco Firepower 2110 NGFW Appliance, 1U	2
FPR2K-SSD-BBLKD	Firepower 2000 Series SSD Slot Carrier	2
SF-F2K-TD6.2.3-K9	Cisco Firepower Threat Defense software v6.2.3 for FPR2100	2
CAB-ACSA	AC Power Cord (South Africa), C13, BS 546, 1.8m	2
FPR2K-SSD100	Firepower 2000 Series SSD for FPR-2110/2120	2
L-FPR2110T-TMC=	Cisco FPR2110 Threat Defense Threat, Malware and URL License	2
L-FPR2110T-TMC-3Y	Cisco FPR2110 Threat Defense Threat, Malware and URL 3Y Subs	2
	Cisco FIREPOWER - SCADA Systems - Durban Heights	
FPR2110-ASA-K9	Cisco Firepower 2110 ASA Appliance, 1U	1
CON-SSSNT-FPR2110S	SOLN SUPP 8X5XNBD Cisco Firepower 2110 ASA Appliance, 1U	1
FPR2100-ASA	Cisco Firepower 2100 Standard ASA License	1
SF-F2K-ASA9.8-K9	Cisco ASA 9.8 Software for Firepower 2100 appliance series	1
FPR2K-SSD-BBLKD	Firepower 2000 Series SSD Slot Carrier	1
FPR2K-SSD100	Firepower 2000 Series SSD for FPR-2110/2120	1
CAB-ACSA	AC Power Cord (South Africa), C13, BS 546, 1.8m	1

L-FPR2110T-TM=	Cisco FPR2110 Threat Defense Threat and Malware License	1
L-FPR2110T-TM-3Y	Cisco FPR2110 Threat Defense Threat and Malware 3Y Subs	1
	Cisco FIREPOWER - SCADA Systems - Wiggins	
FPR2110-ASA-K9	Cisco Firepower 2110 ASA Appliance, 1U	1
CON-SSSNT-FPR2110S	SOLN SUPP 8X5XNBD Cisco Firepower 2110 ASA Appliance, 1U	1
FPR2100-ASA	Cisco Firepower 2100 Standard ASA License	1
SF-F2K-ASA9.8-K9	Cisco ASA 9.8 Software for Firepower 2100 appliance series	1
FPR2K-SSD-BBLKD	Firepower 2000 Series SSD Slot Carrier	1
FPR2K-SSD100	Firepower 2000 Series SSD for FPR-2110/2120	1
CAB-ACSA	AC Power Cord (South Africa), C13, BS 546, 1.8m	1
L-FPR2110T-TM=	Cisco FPR2110 Threat Defense Threat and Malware License	1
L-FPR2110T-TM-3Y	Cisco FPR2110 Threat Defense Threat and Malware 3Y Subs	1
	Cisco FIREPOWER - SCADA Systems - Hazelmere	
FPR2110-ASA-K9	Cisco Firepower 2110 ASA Appliance, 1U	1
CON-SSSNT-FPR2110S	SOLN SUPP 8X5XNBD Cisco Firepower 2110 ASA Appliance, 1U	1
FPR2100-ASA	Cisco Firepower 2100 Standard ASA License	1
SF-F2K-ASA9.8-K9	Cisco ASA 9.8 Software for Firepower 2100 appliance series	1
FPR2K-SSD-BBLKD	Firepower 2000 Series SSD Slot Carrier	1
FPR2K-SSD100	Firepower 2000 Series SSD for FPR-2110/2120	1
CAB-ACSA	AC Power Cord (South Africa), C13, BS 546, 1.8m	1
L-FPR2110T-TM=	Cisco FPR2110 Threat Defense Threat and Malware License	1
L-FPR2110T-TM-3Y	Cisco FPR2110 Threat Defense Threat and Malware 3Y Subs	1
	Cisco FIREPOWER - SCADA Systems - Amanzimtoti	
FPR2110-ASA-K9	Cisco Firepower 2110 ASA Appliance, 1U	1
CON-SSSNT-FPR2110S	SOLN SUPP 8X5XNBD Cisco Firepower 2110 ASA Appliance, 1U	1
FPR2100-ASA	Cisco Firepower 2100 Standard ASA License	1
SF-F2K-ASA9.8-K9	Cisco ASA 9.8 Software for Firepower 2100 appliance series	1
FPR2K-SSD-BBLKD	Firepower 2000 Series SSD Slot Carrier	1

FPR2K-SSD100	Firepower 2000 Series SSD for FPR-2110/2120	1
CAB-ACSA	AC Power Cord (South Africa), C13, BS 546, 1.8m	1
L-FPR2110T-TM=	Cisco FPR2110 Threat Defense Threat and Malware License	1
L-FPR2110T-TM-3Y	Cisco FPR2110 Threat Defense Threat and Malware 3Y Subs	1
Cisco FIREPOWER - SCADA Systems - Midmar		
FPR2110-ASA-K9	Cisco Firepower 2110 ASA Appliance, 1U	1
CON-SSSNT-FPR2110S	SOLN SUPP 8X5XNBD Cisco Firepower 2110 ASA Appliance, 1U	1
FPR2100-ASA	Cisco Firepower 2100 Standard ASA License	1
SF-F2K-ASA9.8-K9	Cisco ASA 9.8 Software for Firepower 2100 appliance series	1
FPR2K-SSD-BBLKD	Firepower 2000 Series SSD Slot Carrier	1
FPR2K-SSD100	Firepower 2000 Series SSD for FPR-2110/2120	1
CAB-ACSA	AC Power Cord (South Africa), C13, BS 546, 1.8m	1
L-FPR2110T-TM=	Cisco FPR2110 Threat Defense Threat and Malware License	1
L-FPR2110T-TM-3Y	Cisco FPR2110 Threat Defense Threat and Malware 3Y Subs	1
Cisco FIREPOWER - SCADA Systems - Darvill		
FPR2110-ASA-K9	Cisco Firepower 2110 ASA Appliance, 1U	1
CON-SSSNT-FPR2110S	SOLN SUPP 8X5XNBD Cisco Firepower 2110 ASA Appliance, 1U	1
FPR2100-ASA	Cisco Firepower 2100 Standard ASA License	1
SF-F2K-ASA9.8-K9	Cisco ASA 9.8 Software for Firepower 2100 appliance series	1
FPR2K-SSD-BBLKD	Firepower 2000 Series SSD Slot Carrier	1
FPR2K-SSD100	Firepower 2000 Series SSD for FPR-2110/2120	1
CAB-ACSA	AC Power Cord (South Africa), C13, BS 546, 1.8m	1
L-FPR2110T-TM=	Cisco FPR2110 Threat Defense Threat and Malware License	1
L-FPR2110T-TM-3Y	Cisco FPR2110 Threat Defense Threat and Malware 3Y Subs	1
Cisco FIREPOWER - SCADA Systems - DV Harris		
FPR2110-ASA-K9	Cisco Firepower 2110 ASA Appliance, 1U	1
CON-SSSNT-FPR2110S	SOLN SUPP 8X5XNBD Cisco Firepower 2110 ASA Appliance, 1U	1
FPR2100-ASA	Cisco Firepower 2100 Standard ASA License	1

SF-F2K-ASA9.8-K9	Cisco ASA 9.8 Software for Firepower 2100 appliance series	1
FPR2K-SSD-BBLKD	Firepower 2000 Series SSD Slot Carrier	1
FPR2K-SSD100	Firepower 2000 Series SSD for FPR-2110/2120	1
CAB-ACSA	AC Power Cord (South Africa), C13, BS 546, 1.8m	1
L-FPR2110T-TM=	Cisco FPR2110 Threat Defense Threat and Malware License	1
L-FPR2110T-TM-3Y	Cisco FPR2110 Threat Defense Threat and Malware 3Y Subs	1
	Cisco FIREPOWER - SCADA Systems - Tugela	
FPR2110-ASA-K9	Cisco Firepower 2110 ASA Appliance, 1U	1
CON-SSSNT-FPR2110S	SOLN SUPP 8X5XNBD Cisco Firepower 2110 ASA Appliance, 1U	1
FPR2100-ASA	Cisco Firepower 2100 Standard ASA License	1
SF-F2K-ASA9.8-K9	Cisco ASA 9.8 Software for Firepower 2100 appliance series	1
FPR2K-SSD-BBLKD	Firepower 2000 Series SSD Slot Carrier	1
FPR2K-SSD100	Firepower 2000 Series SSD for FPR-2110/2120	1
CAB-ACSA	AC Power Cord (South Africa), C13, BS 546, 1.8m	1
L-FPR2110T-TM=	Cisco FPR2110 Threat Defense Threat and Malware License	1
L-FPR2110T-TM-3Y	Cisco FPR2110 Threat Defense Threat and Malware 3Y Subs	1
	Cisco FireSIGHT Manager	
FMC2500-K9	Cisco Firepower Management Center 2500 Chassis	2
CON-SNT-FMC2500K	SNTC-8X5XNBD Cisco Firepower Management Center 2500 C	2
FMC-PWR-AC-770W	Cisco AC Power Supply 770W for FMC	4
CAB-C13-C14-2M	Power Cord Jumper, C13-C14 Connectors, 2 Meter Length	4
SF-FMC-6.2.3-K9	Cisco Firepower Management Center Software v6.2.3	2
FS2K-10G-NIC	Cisco FMC X520-DA2 10 Gbps 2 port NIC	2
FS2K-NIC-SFP	Cisco FMC 10 Gbps Ethernet SFP SR	4
FMC-MRAID12G	Cisco FMC 12G SAS Modular Raid Controller	2
FMC2K-HDD-600G	Cisco FMC 600GB 12GB 10K 2.5" SAS	8
FMC-SD-32G-S	Cisco FMC 32GB SD Card Module	2
R2XX-RAID5	Enable RAID 5 Setting	2
FMC-CPU-E52620E	Cisco 2.10 GHz E5-2620 v4/85W 8C/20MB Cache/DDR4 2133MHz	4

FMC-MRAID-1G	Cisco FMC 12Gbps SAS 1GB FBWC Cache module (Raid 0/1/5/6)	2
FMC4K-MEM-16GB	Cisco 16GB DDR4-2400-MHz RDIMM/PC4-19200/single rank/x4/1.2v	4
Cisco Catalyst 9K Core Switches - Head Office		
C9407R	Cisco Catalyst 9400 Series 7 slot chassis	2
CON-SSSNT-C9407R	SOLN SUPP 8X5XNBD Cisco Catalyst 9400	2
C9400-LC-48T	Cisco Catalyst 9400 Series 48-Port 10/100/1000 (RJ-45)	2
C9400-NW-A	Cisco Catalyst 9400 Network Advantage License	4
C9400-S-BLANK	Cisco Catalyst 9400 Series Slot Blank Cover	4
C9400-SUP-1XL	Cisco Catalyst 9400 Series Supervisor 1XL Module	2
C9400-SSD-240GB	Cisco Catalyst 9400 Series 240GB M2 SATA memory (Supervisor)	2
C9400-SUP-1XL/2	Cisco Catalyst 9400 Series Redundant Supervisor 1XL Module	2
CAB-SABS-C19-IND	SABS 164-1 to IEC-C19 India	8
C9400-LC-24XS	Cisco Catalyst 9400 Series 24-Port 10 Gigabit Ethernet(SFP+)	2
C9400-SSD-240GB	Cisco Catalyst 9400 Series 240GB M2 SATA memory (Supervisor)	2
C9400-PWR-BLANK	Cisco Catalyst 9400 Series Power Supply Blank Cover	8
C9400-PWR-2100AC	Cisco Catalyst 9400 Series 2100W AC Power Supply	8
C9400-DNA-A	Cisco Catalyst 9400 DNA Advantage Term License	2
C9400-DNA-A-3Y	Cisco Catalyst 9400 DNA Advantage 3 Year License	2
S9400UK9-169	UNIVERSAL	2
C9400-LC-24XS	Cisco Catalyst 9400 Series 24-Port 10 Gigabit Ethernet(SFP+)	2
Cisco Catalyst 9K DMZ Switches - Head Office		
C9500-40X-A	Catalyst 9500 40-port 10Gig switch, Network Advantage	2
CON-SSSNT-C95004XA	SOLN SUPP 8X5XNBD Catalyst 9500 40-port 10Gig switch, Netw	2
C9500-NM-BLANK	Catalyst 9500 network module blank cover	2
S9500UK9-166	CAT9500 Universal image	2
C9500-NW-A	C9500 Network Stack, Advantage	2
PWR-C4-950WAC-R	950W AC Config 4 Power Supply front to back cooling	2

C9500-DNA-40X-A	C9500 DNA Advantage, Term licenses	2
C9500-DNA-A-3Y	Cisco Catalyst 9500 DNA Advantage 3 Year License	2
PWR-C4-950WAC-R/2	950W AC Config 4 Power Supply front to back cooling	2
CAB-TA-IN	India AC Type A Power Cable	4
C9200-24T-A	Catalyst 9200 24-port data only, Network Advantage	2
CON-SSSNT-C920024A	SOLN SUPP 8X5XNBD Catalyst 9200 24-port data only, Network	2
CAB-TA-IN	India AC Type A Power Cable	2
PWR-C5-BLANK	Config 5 Power Supply Blank	2
C9200-DNA-A-24	C9200 Cisco DNA Advantage, 24-port Term Licenses	2
C9200-DNA-A-24-3Y	C9200 Cisco DNA Advantage, 24-Port, 3 Year Term License	2
C9200-NW-A-24	C9200 Network Advantage, 24-port license	2
C9200-NM-4X	Catalyst 9200 4 x 10G Network Module	2
	Cisco Catalyst 9K Core Switches - Pineside	
C9300-48T-A	Catalyst 9300 48-port data only, Network Advantage	2
CON-SSSNT-C93004TA	SOLN SUPP 8X5XNBD Catalyst 9300 48-port data only, Network	2
STACK-T1-50CM	50CM Type 1 Stacking Cable	2
CAB-TA-IN	India AC Type A Power Cable	4
C9300-NM-8X	Catalyst 9300 8 x 10GE Network Module	2
CAB-SPWR-30CM	Catalyst Stack Power Cable 30 CM	2
PWR-C1-350WAC	350W AC Config 1 Power Supply	2
PWR-C1-350WAC/2	350W AC Config 1 Secondary Power Supply	2
C9300-NW-A-48	C9300 Network Advantage, 48-port license	2
C9300-DNA-A-48	C9300 DNA Advantage, 48-Port Term Licenses	2
C9300-DNA-A-48-3Y	C9300 DNA Advantage, 48-Port, 3 Year Term License	2
C1-ADD-OPTOUT	Cisco ONE Add-On Session Opt Out (No Fulfilment)	2
S9300UK9-168	UNIVERSAL	2
	Cisco Catalyst 9K DMZ Switches - Pineside	
C9300-24T-A	Catalyst 9300 24-port data only, Network Advantage	2

CON-SSSNT-C93002TA	SOLN SUPP 8X5XNBD Catalyst 9300 24-port data only, Network	2
C9300-DNA-A-24	C9300 DNA Advantage, 24-port Term Licenses	2
C9300-DNA-A-24-3Y	C9300 DNA Advantage, 24-Port, 3 Year Term License	2
PWR-C1-350WAC/2	350W AC Config 1 Secondary Power Supply	2
PWR-C1-350WAC	350W AC Config 1 Power Supply	2
STACK-T1-50CM	50CM Type 1 Stacking Cable	2
C9300-NW-A-24	C9300 Network Advantage, 24-port license	2
CAB-SPWR-30CM	Catalyst Stack Power Cable 30 CM	2
CAB-TA-IN	India AC Type A Power Cable	4
S9300UK9-168	UNIVERSAL	2
C9300-NM-8X	Catalyst 9300 8 x 10GE Network Module	2
	Cisco AnyConnect Licensing	
L-AC-APX-LIC=	Cisco AnyConnect Apex Term License, Total Authorized Users	1
L-AC-APX-5Y-S4	Cisco AnyConnect Apex License, 5YR, 500-999 Users	500
	Cisco AMP Licensing	
FP-AMP-LIC=	Cisco Advanced Malware Protection Service License	1
FP-AMP-3Y-S4	Cisco Advanced Malware Protection 3YR, 1K-4999 Nodes	2000
	Cisco Prime Infrastructure	
R-MGMT3X-N-K9	Cisco Ent MGMT: Lic For Prime Infrastructure 3.x	1
CON-ECMUS-RMGMT3XN	SOLN SUPP SWSS, Cisco Ent MGMT Lic For PI 3 x And APIC EM S	1
R-PI35-SW-K9	Prime Infrastructure 3.5 Software	1
CON-ECMUS-RPI35SWK	SOLN SUPP SWSS Prime Infrastructure 3.5 Software	1
L-MGMT3X-PI-BASE	Cisco Ent MGMT: PI 3.x Platform Base Lic	1
CON-ECMUS-LMGMBASE	SOLN SUPP SWSS,Cisco Ent MGMT: PI 3.x Platform Base Lic	1
L-MGMT3X-AP-K9	Cisco Ent MGMT: PI 3.x LF, AS , 1 AP	20
CON-ECMUS-LMGMTAPK	SOLN SUPP SWSS,Cisco Ent MGMT: PI 3.x LF, AS APIC-EM Lic	20
L-MGMT3X-92XX-K9	Cisco Ent MGMT: PI 3.x LF,AS, 1 Cat 9200 Switch	50
CON-ECMUS-LGMT3X93	SOLN SUPP SWSS Cisco Ent MGMT: PI 3.x LF,AS, 1 Cat 9200	50

L-MGMT3X-93XX-K9	Cisco Ent MGMT: PI 3.x LF,AS,1 Cat 93xx	4
CON-ECMUS-LMGKMT3X	SOLN SUPP SWSS Cisco Ent MGMT: PI 3.x LF,AS APIC-EM L	4
L-MGMT3X-94XX-K9	Cisco Ent MGMT: PI 3.x LF,AS,1 Cat 94xx	2
CON-ECMUS-LMGMT3K4	SOLN SUPP SWSS Cisco Ent MGMT: PI 3.x LF,AS APIC-EM L	2
L-MGMT3X-95XX-K9	Cisco Ent MGMT: PI 3.x LF,AS,1 Cat 95xx	2
CON-ECMUS-LMGMT35K	SOLN SUPP SWSS Cisco Ent MGMT: PI 3.x LF,AS APIC-EM L	2
L-MGMT3X-OPRCTR-B	Cisco Ent MGMT: PI 3.x Oper Cntr, BASE Lic	1
CON-ECMUS-LMGMTOPR	SOLN SUPP SWSS,Cisco Ent MGMT: PI 3.x Oper Cntr, BASE Lic	1
L-MGMT3X-2K-K9	Cisco Ent MGMT: PI 3.x LF,AS , 1 Cat 2K	14
CON-ECMUS-LMGMT32X	SOLN SUPP SWSS,Cisco Ent MGMT: PI 3.x LF,AS APIC-EM Lic,	14
L-MGMT3X-3K-K9	Cisco Ent MGMT: PI 3.x LF,AS , 1 Cat 3K	26
CON-ECMUS-LMGMT3XM	SOLN SUPP SWSS,Cisco Ent MGMT: PI 3.x LF,AS APIC-EM Lic,	26
	Cisco Umbrella Licensing	
UMBRELLA-SUB	Umbrella Cloud Security Subscription	1
UMB-INSIGHTS-K9	Umbrella Insights	2000
UMB-SUPT-B	Umbrella Support - Basic	1
	Cisco DNA Appliance	
DN2-HW-APL	Cisco DNA Center Appliance (Gen 2)	2
CON-SSSNT-DN2HWPL	SOLN SUPP 8X5XNBD DNA Center Appliance (Gen 2)	2
DNA-SW-1.2	Cisco DNA Center SW 1.2	2
CAB-C13-C14-2M	Power Cord Jumper, C13-C14 Connectors, 2 Meter Length	4
SFP-10G-SR-S	10GBASE-SR SFP Module, Enterprise-Class	4
DN2-SD480GM1X-EV	480 GB 2.5 inch Enterprise Value 6G SATA SSD	4
DN2-SD-64G-S	64GB SD Card for UCS Servers	2
DN2-TPM2-002	Trusted Platform Module 2.0 for UCS servers	2
DN2-PCIE-IQ10GF	Intel X710 quad-port 10G SFP+ NIC	2
DN2-PSU1-770W	Cisco UCS 770W AC Power Supply for Rack Server	4

C5.143

DN2-MSTOR-SD	Mini Storage Carrier for SD (holds up to 2)	2
DN2-MR-X32G2RS-H	32GB DDR4-2666-MHz RDIMM/PC4-21300/dual rank/x4/1.2v	16
DN2-CPU-6152	2.1 GHz 6152/140W 22C/30.25MB Cache/DDR4 2666MHz	4
DN2-PCIE-ID10GF	Intel X710-DA2 dual-port 10G SFP+ NIC	2
DN2-SD19TM1X-EV	1.9TB 2.5 inch Enterprise Value 6G SATA SSD	16
DN2-RAID-M5	Cisco 12G Modular RAID controller with 2GB cache	2
	Cisco Catalyst 9K - Edge Switches - 24 Port PoE	
C9200-24P-A	Catalyst 9200 24-port PoE+, Network Advantage	172
CON-SSSNT-C92024PA	SOLN SUPP 8X5XNBD Catalyst 9200 24-port PoE+, Network Adva	172
C9200-NW-A-24	C9200 Network Advantage, 24-port license	172
C9200-NM-4X	Catalyst 9200 4 x 10G Network Module	172
CAB-TA-IN	India AC Type A Power Cable	172
PWR-C5-BLANK	Config 5 Power Supply Blank	172
C9200-DNA-A-24	C9200 Cisco DNA Advantage, 24-port Term Licenses	172
C9200-DNA-A-24-3Y	C9200 Cisco DNA Advantage, 24-Port, 3 Year Term License	172
C9200-STACK-KIT	Cisco Catalyst 9200 and 9200L Stack Module	172
C9200-STACK	Catalyst 9200 Stack Module	96
STACK-T4-50CM	50CM Type 4 Stacking Cable	172
	Cisco Catalyst 9K - Edge Switches - 48 Port PoE	
C9200-48P-A	Catalyst 9200 48-port PoE+, Network Advantage	26
CON-SSSNT-C920048P	SOLN SUPP 8X5XNBD Catalyst 9200 48-port PoE+, Network Adva	26
C9200-NW-A-48	C9200 Network Advantage, 48-port license	26
C9200-NM-4X	Catalyst 9200 4 x 10G Network Module	26
CAB-TA-IN	India AC Type A Power Cable	26
PWR-C5-BLANK	Config 5 Power Supply Blank	26
C9200-DNA-A-48	C9200 Cisco DNA Advantage, 48-Port Term Licenses	26
C9200-DNA-A-48-3Y	C9200 Cisco DNA Advantage, 48-Port, 3 Year Term License	26
C9200-STACK-KIT	Cisco Catalyst 9200 and 9200L Stack Module	26
C9200-STACK	Catalyst 9200 Stack Module	16

STACK-T4-50CM	50CM Type 4 Stacking Cable	26
	Cisco Catalyst 3K - Edge Switches - 8 Port PoE	
WS-C3560CX-8XPD-S	Cisco Catalyst 3560-CX 2 x mGig, 6 x 1G PoE, IP Base	8
CON-SSSNT-WSC356CD	SOLN SUPP 8X5XNBD Cisco Catalyst 3560-CX 2 x mGig, 6 x 1G	8
CAB-TA-IN	India AC Type A Power Cable	8
CMPCT-CBLE-GRD	Cable Guard for the 3560-CX and 2960-CX Compact Switches	8
PWR-CLP	Power Retainer Clip For 3560-C, 2960-C and 2960-L Switches	8
C3560CX-DNA-A-8	C3560CX DNA Advantage, 8-port Term license	8
C3560CX-DNA-A-8-3	C3560CX DNA Advantage, 8-port, 3 Year Term license	8
	Cisco Catalyst 9K - Edge Switches - 8 Port PoE	
SFP-10G-LR-S=	10GBASE-LR SFP Module, Enterprise-Class	280
SFP-10G-SR-S=	10GBASE-SR SFP Module, Enterprise-Class	6
SFP-H10GB-CU3M=	10GBASE-CU SFP+ Cable 3 Meter	1
SFP-H10GB-CU5M=	10GBASE-CU SFP+ Cable 5 Meter	6

List of GFI Languard

Product Number	Description	Quantity
LANSS250-2999-3Y	GFI Languard for 3 years SMA	2000

List of Stealthwatch		
Product Number	Description	Quantity
	Cisco Stealwatch	
ST-FR-BUN	Cisco Stealthwatch Flow Rate Bundle	1
L-ST-FR-LIC=	Cisco Stealthwatch Flow Rate License	10000
L-ST-FR-3Y-S5	Cisco Stealthwatch Flow Rate 3 YR Subs, 10,000-24,999	10000
L-ST-SMC-VE-K9	Cisco Stealthwatch Management Console Virtual Edition	1
ST-SMC2210-K9	Cisco Stealthwatch Management Console 2210	1
CON-SNT-STSMC220	SNTC-8X5XNBD Cisco Stealthwatch Management Console 22	1

C5.146

ST-MEM-1X322RV-A	Cisco Stealthwatch 32GB DDR4-2400 MHz RDIMM/PC4-19200	1
ST-MEM-1X322RV-A	Cisco Stealthwatch 32GB DDR4-2400 MHz RDIMM/PC4-19200	1
ST-MEM-1X322RV-A	Cisco Stealthwatch 32GB DDR4-2400 MHz RDIMM/PC4-19200	1
ST-MRAID12G	Cisco Stealthwatch 12G SAS Modular Raid Controller	1
ST-MRAID12G-4GB	Cisco Stealthwatch 12Gbps SAS 4GB FBWC Cache module	1
ST-HDD-1.2TB	Cisco Stealthwatch 1.2 TB 12G SAS 10K RPM SFF HDD	1
ST-HDD-1.2TB	Cisco Stealthwatch 1.2 TB 12G SAS 10K RPM SFF HDD	1
ST-HDD-1.2TB	Cisco Stealthwatch 1.2 TB 12G SAS 10K RPM SFF HDD	1
ST-HDD-1.2TB	Cisco Stealthwatch 1.2 TB 12G SAS 10K RPM SFF HDD	1
ST-HDD-1.2TB	Cisco Stealthwatch 1.2 TB 12G SAS 10K RPM SFF HDD	1
ST-HDD-1.2TB	Cisco Stealthwatch 1.2 TB 12G SAS 10K RPM SFF HDD	1
ST-HDD-1.2TB	Cisco Stealthwatch 1.2 TB 12G SAS 10K RPM SFF HDD	1
ST-HDD-1.2TB	Cisco Stealthwatch 1.2 TB 12G SAS 10K RPM SFF HDD	1
R2XX-RAID6	Enable RAID 6 Setting	1
L-ST-FC-VE-K9	Cisco Stealthwatch Flow Collector Virtual Edition	1
ST-FS1210-K9	Cisco Stealthwatch Flow Sensor 1210	1
CON-SNT-STFS120K	SNTC-8X5XNBD Cisco Stealthwatch Flow Sensor 1200	1
ST-M5-PWR-AC-770W	Cisco Stealthwatch AC Power Supply 770W	1
ST-M5-PWR-AC-770W	Cisco Stealthwatch AC Power Supply 770W	1
CAB-C13-C14-2M	Power Cord Jumper, C13-C14 Connectors, 2 Meter Length	2
ST-1G-NIC-4CU	Cisco Stealthwatch i350 Quad Port 1G Copper NIC	1
ST-FS-6.9-K9	Cisco Stealthwatch Flow Sensor Software v6.9	1
ST-CPU-E52609E	Cisco Stealthwatch CPU 1.70 GHz E52609 v4 - Cache 8C/20MB	1
ST-M5-MEM-16GB	Cisco Stealthwatch 16 GB DDR4-2666 MHz RDIMM/PC4-21300	1
ST-M5-TPM-2.0	Cisco Stealthwatch Trusted Platform Module 2.0	1
ST-MRAID12G	Cisco Stealthwatch 12G SAS Modular Raid Controller	1
ST-M5-HDD-600GB	Cisco Stealthwatch 600 GB 12G SAS 10K RPM SFF HDD	1

C5.147

ST-M5-HDD-600GB	Cisco Stealthwatch 600 GB 12G SAS 10K RPM SFF HDD	1
R2XX-RAID1	Enable RAID 1 Setting	1
N20-BBLKD	UCS 2.5 inch HDD blanking panel	6
L-ST-EP-LIC=	Cisco Stealthwatch Endpoint License	2000
L-ST-EP-3Y-S5	Cisco Stealthwatch Endpoint Subs 3YR, 1,000-2,499 Users	2000

List of FireSIGHT		
<u>Product Number</u>	<u>Description</u>	<u>Quantity</u>
	Cisco FireSIGHT Manager	
FMC2600-K9	5172.16.6.1	1
FMC2600-K9	Cisco Firepower Management Center 2600 Chassis	1
CON-SNT-FMC2500K	SNTC-8X5XNBD Cisco Firepower Management Center 2500 C	2
FMC-PWR-AC-770W	Cisco AC Power Supply 770W for FMC	1
FMC-PWR-AC-770W	Cisco AC Power Supply 770W for FMC	1
FMC-PWR-AC-770W	Cisco AC Power Supply 770W for FMC	1
FMC-PWR-AC-770W	Cisco AC Power Supply 770W for FMC	1
FMC-M5-TPM-2.0	Cisco FMC Trusted Platform Module 2.0	1
FMC-M5-TPM-2.0	Cisco FMC Trusted Platform Module 2.0	1
FMC-M5-MSTOR-SD	Cisco FMC Mini Storage Carrier Card for SD (holds up to 2)	1
FMC-M5-MSTOR-SD	Cisco FMC Mini Storage Carrier Card for SD (holds up to 2)	1
CAB-C13-C14-2M	Power Cord Jumper, C13-C14 Connectors, 2 Meter Length	4
SF-FMC-6.2.3-K9	Cisco Firepower Management Center Software v6.2.3	2
FS2K-10G-NIC	Cisco FMC X520-DA2 10 Gbps 2 port NIC	1
FS2K-10G-NIC	Cisco FMC X520-DA2 10 Gbps 2 port NIC	1
FS2K-NIC-SFP	Cisco FMC 10 Gbps Ethernet SFP SR	4
FMC-MRAID12G	Cisco FMC 12G SAS Modular Raid Controller	1
FMC-MRAID12G	Cisco FMC 12G SAS Modular Raid Controller	1
FMC2K-HDD-600G	Cisco FMC 600GB 12GB 10K 2.5" SAS	1
FMC2K-HDD-600G	Cisco FMC 600GB 12GB 10K 2.5" SAS	1
FMC2K-HDD-600G	Cisco FMC 600GB 12GB 10K 2.5" SAS	1
FMC2K-HDD-600G	Cisco FMC 600GB 12GB 10K 2.5" SAS	1

C5.148

FMC2K-HDD-600G	Cisco FMC 600GB 12GB 10K 2.5" SAS	1
FMC2K-HDD-600G	Cisco FMC 600GB 12GB 10K 2.5" SAS	1
FMC2K-HDD-600G	Cisco FMC 600GB 12GB 10K 2.5" SAS	1
FMC2K-HDD-600G	Cisco FMC 600GB 12GB 10K 2.5" SAS	1
FMC-SD-32G-S	Cisco FMC 32GB SD Card Module	1
FMC-SD-32G-S	Cisco FMC 32GB SD Card Module	1
R2XX-RAID5	Enable RAID 5 Setting	2
FMC-CPU-E52620E	Cisco 2.10 GHz E5-2620 v4/85W 8C/20MB Cache/DDR4 2133MHz	1
FMC-CPU-E52620E	Cisco 2.10 GHz E5-2620 v4/85W 8C/20MB Cache/DDR4 2133MHz	1
FMC-CPU-E52620E	Cisco 2.10 GHz E5-2620 v4/85W 8C/20MB Cache/DDR4 2133MHz	1
FMC-CPU-E52620E	Cisco 2.10 GHz E5-2620 v4/85W 8C/20MB Cache/DDR4 2133MHz	1
FMC-MRAID-1G	Cisco FMC 12Gbps SAS 1GB FBWC Cache module (Raid 0/1/5/6)	2
FMC4K-MEM-16GB	Cisco 16GB DDR4-2400-MHz RDIMM/PC4-19200/single rank/x4/1.2v	1
FMC4K-MEM-16GB	Cisco 16GB DDR4-2400-MHz RDIMM/PC4-19200/single rank/x4/1.2v	1
FMC4K-MEM-16GB	Cisco 16GB DDR4-2400-MHz RDIMM/PC4-19200/single rank/x4/1.2v	1
FMC4K-MEM-16GB	Cisco 16GB DDR4-2400-MHz RDIMM/PC4-19200/single rank/x4/1.2v	1
FMC4K-MEM-16GB	Cisco 16GB DDR4-2400-MHz RDIMM/PC4-19200/single rank/x4/1.2v	1
FMC4K-MEM-16GB	Cisco 16GB DDR4-2400-MHz RDIMM/PC4-19200/single rank/x4/1.2v	1
FMC4K-MEM-16GB	Cisco 16GB DDR4-2400-MHz RDIMM/PC4-19200/single rank/x4/1.2v	1
FMC4K-MEM-16GB	Cisco 16GB DDR4-2400-MHz RDIMM/PC4-19200/single rank/x4/1.2v	1

List of ISE Equipment		
Product Number	Description	Quantity
	Cisco Identity Services Engine - Servers	

R2XX-RAID0	Enable RAID 0 Setting	4
SNS-PSU1-770W	770W power supply	1
SNS-PSU1-770W	770W power supply	1
SNS-PSU1-770W	770W power supply	1
SNS-PSU1-770W	770W power supply	1
SW-3515-ISE-K9	Cisco ISE Software for the SNS-3515-K9 appliance	4
	Cisco Identity Services Engine - Licensing	
L-ISE-BSE-PLIC	Cisco ISE Base License	1
L-ISE-BSE-P6	Cisco ISE Base License - Sessions 5000 to 9999	5000
L-ISE-PLS-LIC=	Cisco ISE Plus License	5000
L-ISE-PLS-3Y-S6	Cisco ISE Plus License, 3Y, 5000 - 9999 Sessions	5000
L-ISE-APX-LIC=	Cisco ISE Apex License	5000
L-ISE-APX-3Y-S6	Cisco ISE Apex License, 3Y, 5000 - 9999 Sessions	5000

Firewalls at Pineside		
Product Number	Description	Quantity
	Cisco FIREPOWER - Pineside Inside Firewalls	
FPR2140-FTD-HA-BUN	Cissco Firepower 2140 Threat Defense Chss,Subs HA Bundle	1
FPR2140-NGFW-K9	Cisco Firepower 2140 NGFW Appliance, 1U, 1 x NetMod Bay	1
FPR2140-NGFW-K9	Cisco Firepower 2140 NGFW Appliance, 1U, 1 x NetMod Bay	1
CON-SSSNT-FPR2140N	SOLN SUPP 8X5XNBD Cisco Firepower 2140 NGFW Appliance, 1U,	2
FPR2K-SSD200	Firepower 2000 Series SSD for FPR-2130/2140	1
FPR2K-SSD200	Firepower 2000 Series SSD for FPR-2130/2140	1
FPR2K-SLIDE-RAILS	Firepower 2000 Slide Rail Kit	2
CAB-ACSA	AC Power Cord (South Africa), C13, BS 546, 1.8m	4
SF-F2K-TD6.2.3-K9	Cisco Firepower Threat Defense software v6.2.3 for FPR2100	2
FPR2K-PWR-AC-400	Firepower 2000 Series 400W AC Power Supply	1
FPR2K-PWR-AC-400	Firepower 2000 Series 400W AC Power Supply	1
FPR2K-PWR-AC-400	Firepower 2000 Series 400W AC Power Supply	1
FPR2K-PWR-AC-400	Firepower 2000 Series 400W AC Power Supply	1

C5.151

FPR2K-NM-BLANK	Firepower 2000 Series Network Module Blank Slot Cover	2
FPR2K-SSD-BBLKD	Firepower 2000 Series SSD Slot Carrier	2
FPR2K-FAN	Firepower 2000 Series Fan Tray	2
L-FPR2140T-TMC=	Cisco FPR2140 Threat Defense Threat, Malware and URL License	2
L-FPR2140T-TMC-3Y	Cisco FPR2140 Threat Defense Threat, Malware and URL 3Y Subs	2
Cisco FIREPOWER - Pineside Outside Firewalls		
FPR2120-FTD-HA-BUN	Cisco Firepower 2120 Threat Defense Chss, Subs HA Bundle	1
FPR2120-NGFW-K9	Cisco Firepower 2120 NGFW Appliance, 1U	1
FPR2120-NGFW-K9	Cisco Firepower 2120 NGFW Appliance, 1U	1
CON-SSSNT-FPR21GFN	SOLN SUPP 8X5XNBD Cisco Firepower 2120 NGFW Appliance, 1U	2
SF-F2K-TD6.2.3-K9	Cisco Firepower Threat Defense software v6.2.3 for FPR2100	2
FPR2K-SSD100	Firepower 2000 Series SSD for FPR-2110/2120	1
FPR2K-SSD100	Firepower 2000 Series SSD for FPR-2110/2120	1
FPR2K-SSD-BBLKD	Firepower 2000 Series SSD Slot Carrier	2
CAB-ACSA	AC Power Cord (South Africa), C13, BS 546, 1.8m	2
L-FPR2120T-TM=	Cisco FPR2120 Threat Defense Threat and Malware License	2
L-FPR2120T-TM-3Y	Cisco FPR2120 Threat Defense Threat and Malware 3Y Subs	2

Licensing		
Product Number	Description	Quantity
Cisco AnyConnect Licensing		
L-AC-APX-LIC=	Cisco AnyConnect Apex Term License, Total Authorized Users	1
L-AC-APX-5Y-S4	Cisco AnyConnect Apex License, 5YR, 500-999 Users	500
Cisco AMP Licensing		
FP-AMP-LIC=	Cisco Advanced Malware Protection Service License	1
FP-AMP-3Y-S4	Cisco Advanced Malware Protection 3YR, 1K-4999 Nodes	2000
Cisco Prime Infrastructure		
R-MGMT3X-N-K9	Cisco Ent MGMT: Lic For Prime Infrastructure 3.x	1
CON-ECMUS-RMGMT3XN	SOLN SUPP SWSS, Cisco Ent MGMT Lic For PI 3 x And APIC EM S	1

R-PI35-SW-K9	Prime Infrastructure 3.5 Software	1
CON-ECMUS-RPI35SWK	SOLN SUPP SWSS Prime Infrastructure 3.5 Software	1
L-MGMT3X-PI-BASE	Cisco Ent MGMT: PI 3.x Platform Base Lic	1
CON-ECMUS-LMGMBASE	SOLN SUPP SWSS,Cisco Ent MGMT: PI 3.x Platform Base Lic	1
L-MGMT3X-AP-K9	Cisco Ent MGMT: PI 3.x LF, AS , 1 AP	20
CON-ECMUS-LMGMTAPK	SOLN SUPP SWSS,Cisco Ent MGMT: PI 3.x LF, AS APIC-EM Lic	20
L-MGMT3X-92XX-K9	Cisco Ent MGMT: PI 3.x LF,AS, 1 Cat 9200 Switch	50
CON-ECMUS-LGMT3X93	SOLN SUPP SWSS Cisco Ent MGMT: PI 3.x LF,AS, 1 Cat 9200	50
L-MGMT3X-93XX-K9	Cisco Ent MGMT: PI 3.x LF,AS,1 Cat 93xx	4
CON-ECMUS-LMGKMT3X	SOLN SUPP SWSS Cisco Ent MGMT: PI 3.x LF,AS APIC-EM L	4
L-MGMT3X-94XX-K9	Cisco Ent MGMT: PI 3.x LF,AS,1 Cat 94xx	2
CON-ECMUS-LMGMT3K4	SOLN SUPP SWSS Cisco Ent MGMT: PI 3.x LF,AS APIC-EM L	2
L-MGMT3X-95XX-K9	Cisco Ent MGMT: PI 3.x LF,AS,1 Cat 95xx	2
CON-ECMUS-LMGMT35K	SOLN SUPP SWSS Cisco Ent MGMT: PI 3.x LF,AS APIC-EM L	2
L-MGMT3X-OPRCTR-B	Cisco Ent MGMT: PI 3.x Oper Cntr, BASE Lic	1
CON-ECMUS-LMGMTOPR	SOLN SUPP SWSS,Cisco Ent MGMT: PI 3.x Oper Cntr, BASE Lic	1
L-MGMT3X-2K-K9	Cisco Ent MGMT: PI 3.x LF,AS , 1 Cat 2K	14
CON-ECMUS-LMGMT32X	SOLN SUPP SWSS,Cisco Ent MGMT: PI 3.x LF,AS APIC-EM Lic,	14
L-MGMT3X-3K-K9	Cisco Ent MGMT: PI 3.x LF,AS , 1 Cat 3K	26
CON-ECMUS-LMGMT3XM	SOLN SUPP SWSS,Cisco Ent MGMT: PI 3.x LF,AS APIC-EM Lic,	26
	Cisco Umbrella Licensing	
UMBRELLA-SUB	Umbrella Cloud Security Subscription	1
UMB-INSIGHTS-K9	Umbrella Insights	2000
UMB-SUPT-B	Umbrella Support - Basic	1

SFP-H10GB-CU3M=	10GBASE-CU SFP+ Cable 3 Meter	1
SFP-H10GB-CU3M=	10GBASE-CU SFP+ Cable 3 Meter	1
SFP-H10GB-CU3M=	10GBASE-CU SFP+ Cable 3 Meter	1
SFP-H10GB-CU3M=	10GBASE-CU SFP+ Cable 3 Meter	1
SFP-H10GB-CU3M=	10GBASE-CU SFP+ Cable 3 Meter	1
SFP-H10GB-CU3M=	10GBASE-CU SFP+ Cable 3 Meter	1
SFP-H10GB-CU3M=	10GBASE-CU SFP+ Cable 3 Meter	1
SFP-H10GB-CU3M=	10GBASE-CU SFP+ Cable 3 Meter	1
SFP-H10GB-CU3M=	10GBASE-CU SFP+ Cable 3 Meter	1
SFP-H10GB-CU3M=	10GBASE-CU SFP+ Cable 3 Meter	1
SFP-H10GB-CU3M=	10GBASE-CU SFP+ Cable 3 Meter	1
SFP-H10GB-CU3M=	10GBASE-CU SFP+ Cable 3 Meter	1
SFP-H10GB-CU3M=	10GBASE-CU SFP+ Cable 3 Meter	1
SFP-H10GB-CU5M=	10GBASE-CU SFP+ Cable 5 Meter	1
SFP-H10GB-CU5M=	10GBASE-CU SFP+ Cable 5 Meter	1
SFP-H10GB-CU5M=	10GBASE-CU SFP+ Cable 5 Meter	1
SFP-H10GB-CU5M=	10GBASE-CU SFP+ Cable 5 Meter	1
SFP-H10GB-CU5M=	10GBASE-CU SFP+ Cable 5 Meter	1
SFP-H10GB-CU5M=	10GBASE-CU SFP+ Cable 5 Meter	1

DNA - List		
<u>Product Number</u>	<u>Description</u>	<u>Quantity</u>

	Cisco DNA Appliance	
DN2-HW-APL	Cisco DNA Center Appliance (Gen 2)	1
DN2-HW-APL	Cisco DNA Center Appliance (Gen 2)	1
CON-SSSNT-DN2HWPL	SOLN SUPP 8X5XNBD DNA Center Appliance (Gen 2)	2
DNA-SW-1.2	Cisco DNA Center SW 1.2	2
CAB-C13-C14-2M	Power Cord Jumper, C13-C14 Connectors, 2 Meter Length	4
SFP-10G-SR-S	10GBASE-SR SFP Module, Enterprise-Class	1
SFP-10G-SR-S	10GBASE-SR SFP Module, Enterprise-Class	1
SFP-10G-SR-S	10GBASE-SR SFP Module, Enterprise-Class	1
SFP-10G-SR-S	10GBASE-SR SFP Module, Enterprise-Class	1
DN2-SD480GM1X-EV	480 GB 2.5 inch Enterprise Value 6G SATA SSD	1
DN2-SD480GM1X-EV	480 GB 2.5 inch Enterprise Value 6G SATA SSD	1
DN2-SD480GM1X-EV	480 GB 2.5 inch Enterprise Value 6G SATA SSD	1
DN2-SD480GM1X-EV	480 GB 2.5 inch Enterprise Value 6G SATA SSD	1
DN2-SD-64G-S	64GB SD Card for UCS Servers	1
DN2-SD-64G-S	64GB SD Card for UCS Servers	1
DN2-TPM2-002	Trusted Platform Module 2.0 for UCS servers	1
DN2-TPM2-002	Trusted Platform Module 2.0 for UCS servers	1
DN2-PCIE-IQ10GF	Intel X710 quad-port 10G SFP+ NIC	1
DN2-PCIE-IQ10GF	Intel X710 quad-port 10G SFP+ NIC	1
DN2-PSU1-770W	Cisco UCS 770W AC Power Supply for Rack Server	1
DN2-PSU1-770W	Cisco UCS 770W AC Power Supply for Rack Server	1
DN2-PSU1-770W	Cisco UCS 770W AC Power Supply for Rack Server	1
DN2-PSU1-770W	Cisco UCS 770W AC Power Supply for Rack Server	1
DN2-MSTOR-SD	Mini Storage Carrier for SD (holds up to 2)	1
DN2-MSTOR-SD	Mini Storage Carrier for SD (holds up to 2)	1
DN2-MR-X32G2RS-H	32GB DDR4-2666-MHz RDIMM/PC4-21300/dual rank/x4/1.2v	1
DN2-MR-X32G2RS-H	32GB DDR4-2666-MHz RDIMM/PC4-21300/dual rank/x4/1.2v	1
DN2-MR-X32G2RS-H	32GB DDR4-2666-MHz RDIMM/PC4-21300/dual rank/x4/1.2v	1
DN2-MR-X32G2RS-H	32GB DDR4-2666-MHz RDIMM/PC4-21300/dual rank/x4/1.2v	1
DN2-MR-X32G2RS-H	32GB DDR4-2666-MHz RDIMM/PC4-21300/dual rank/x4/1.2v	1
DN2-MR-X32G2RS-H	32GB DDR4-2666-MHz RDIMM/PC4-21300/dual rank/x4/1.2v	1

DN2-RAID-M5	Cisco 12G Modular RAID controller with 2GB cache	1
DN2-RAID-M5	Cisco 12G Modular RAID controller with 2GB cache	1

5. SELF SERVICE KIOSKS

No.	Site	Type
1	Pineside Regional Office	Self Service Touch Screen Kiosk
2	Mkondeni Regional Office	Self Service Touch Screen Kiosk
3	uMhlali Regional Office	Self Service Touch Screen Kiosk
4	Amanzimtoti Waterworks	Self Service Touch Screen Kiosk
5	Ixopo Waterworks	Self Service Touch Screen Kiosk
6	Midmar Waterworks	Self Service Touch Screen Kiosk
7	Richards Bay Office	Self Service Touch Screen Kiosk

6. DSTV

No.	Location	Active
1	Head Office Fiona's Office	✓
2	Hillcrest 1	✓
3	Hillcrest Main	✓
4	UUW 1	✓
5	UUW 2	✓
6	UUW 3	✓
7	UUW 4	✓
8	Head Office EXCO	✓
9	Head Office	✓
10	Richards Bay - Chief Executive office	✓

7. TREND

7.1.

8. QUALYS

8.1.

9. TELEPHONY

9.1. LICENCE DISTRIBUTION

Umgeni Water Licence Allocation for December / January 2026							
Site	IP Address	Equipped User Licences	Used Licences	Available for Re-allocation	SIP Trunks (LCR)	Multi Device	Consoles s/w
Head Office*	172.16.1.100	439	429	10	30	39 out of 40	3
Pineside*	10.17.10.100	123	123		30	8 out of 8	1
Mkondeni*	10.18.110.100	73	73		10		1
Wiggins*	10.19.110.100	83	83		20	2 out of 2	1
Durban Heights*	10.19.220.100	61	61		10		1
Midmar*	10.18.120.100	41	41		10		
Darvil*	10.18.40.100	40	40				
DV Harris*	10.18.30.100	21	21				
Ixopo*	10.18.50.100	8	7 ****				
Tugela*	10.19.140.100	15	14				
Craigieburn*	10.19.60.100	16	8****				
Umthwalume*	10.19.90.100	8	3****				
Inanda Dam*	10.19.30.100	8	5****				
Nagle Dam*	10.19.40.100	8	4****				
Hazelmere*	10.19.50.100	29	29				
Umhlali*	10.19.130.100	27	27		10		
Amanzimtoti*	10.19.70.100	16	16				
Umzinto*	10.19.100.100	8	4****				
Park Rynie	10.19.80.100	0	0				
Westwood	10.19.176.100 / 101	50	50		12		1
TOTAL		1074		10	132		8

9.2. SIP Trunks – LIQUID TELECOM

Umgeni Water SIP TRUNKS			
Site	IP Address	SIP Trunks (LCR)	Circuit Number
Head Office*	172.16.1.100	30	033 812 3200
Pineside*	10.17.10.100	30	031 816 3900
Mkondeni*	10.18.110.100	10	033 812 5038
Wiggins*	10.19.110.100	20	031 828 9700
Durban Heights*	10.19.220.100	10	031 823 0900
Midmar*	10.18.120.100	10	033 814 1490
Westwood	10.19.176.100	12	tba
TOTAL		122	

9.3. MITEL EQUIPMENT

Umgeni Water - MITEL Equipment Schedule - 15 October 2025						
HEAD OFFICE						
Line No	Part Number	Part Description	Asset / Component	Qty	System Identification	
					Hardware	Software
		3300 Controller				
	50006269	3300 Mx6 III Controller	Asset	1	0000002772e2	MiVB Vers. 8
	50006431	Mx6 III Raid Subsystem	Component	1		(Service Pack 3)
	50006489	Mx6 III Redundant Hard Drive	Component	1		
	50005084	Mx6 AC PSU	Component	1		
	50002581	Mx6 III Expansion Kit	Component	1		
	50003560	3300 Dual E1 Module (PRI / Qsig)	Component	1		
	50005751	DSP II Card	Component	2		
	50005105	ASU II with AC Powe	Component	2		
	50005731	24 Port ONSp Analogue Extension Card	Component	4		
		TJFCABLE 1+0	Component	1		
		TJFCABLE (male to female)	Component	1		
		Licences				
	54005968	MCD Enterprise PBX Software	Component	1		49353635
	54004975	MCD Enterprise User Licences	Component	431		
	54000297	Voice Mail Licences	Component	332		
	54000540	3300 IP Networking Licences	Component	1		
	54000650	3300 IP to TDM Compression Licences (8 Channels)	Component	4		
	54000303	Digital Link Licences (Per PRI Port)	Component	2		
		Multi Device Licence	Component	39		
	54002891	MCD ONS Licence	Component	48		
	54005400	MCD SIP Trunking Licence	Component	30		
	54006069	M Voice Business Console Licence	Component	3		
		Unified Communications				
	54004571	Mitel Border Gateway Base	component	1		24484014
	54005339	MBG Virtual Appliance	component	1		
	54006545	UCCv4 PREM User for Enterprise x1 (50 Pack) -ULM	component	1		20012444
	54005442	MICollab Base	component	1		70743893
	WS-C3750G-24T-S	VSA Rampage Telephone Management System	Asset	1		
		Extended Graphical Reports				
		VSA Active Directory Synchronisation				
		Quota Management				
PINESIDE						
Line No	Part Number	Part Description	Asset / Component	Qty	System Identification	
					Hardware	Software
		3300 Controller				
	50006211	Mx6 II Controller	Asset	1	#00003512F4	MiVB Vers. 8
	50003560	3300 Dual E1 Module (PRI / Qsig) Embedded	Bundle	1		(Service Pack 3)
	50001269	Analogue Service Unit - 24 extensions	Asset			
	50002979	3300 DSP Card (Up to 32 Channels of Compression)	Component	1		
		Analogue Patch Panel	Component			
		TJFCABLE (male to male)	Component			
		Licences				
	54005968	MCD Enterprise PBX Software	Component	1		17007812
	54004975	MCD Enterprise User Licences	Component	116		
	54000297	Voice Mail Licences	Component	108		
	54000540	3300 IP Networking Licences	Component	1		
	54000650	3300 IP to TDM Compression Licences (8 Channels)	Component	3		
	54000303	Digital Link Licences (Per PRI Port)	Component	1		
		Multi Device Licence	Component	8		
	54002390	MCD SIP Trunking Licence	Component	30		

MA69:L138KONDENI						
Line No	Part Number	Part Description	Asset / Component	Qty	System Identification	
					Hardware	Software
		3300 Controller				
	50006211	MXe II Controller	Asset	1	#000035B9BC	MiVB Vers. 8
	50004070	3300 QUAD BRI Module (8 ISDN Channels)	Component			(Service Pack 3)
	50003560	3300 Dual E1 Module (PRI / Qsig) Embedded	Component	1		
	50002979	3300 DSP Card (Up to 32 Channels of Compression)	Component	1		
	50005105	ASU II with AC Power	Asset	1		
	50005731	24 Port ONS Card	Component	1		
		5 meter fibre cable	Component			
		TJF510 1+0	Component			
		TJF CABLE (male to female)	Component			
		Licences				
	54005968	MCD Enterprise PBX Software	Component	1		79879418
	54004975	MCD Enterprise User Licences	Component	73		
	54000297	Voice Mail Licences	Component	64		
	50002891	MCD Single ONS Licences	Component	10		
	54000540	3300 IP Networking Licences	Bundle	1		
	54000650	3300 IP to TDM Compression Licences (8 Channels)	Component	1		
	54000303	Digital Link Licences (Per PRI Port)	Component	1		
	54002390	MCD SIP Trunking Licence		10		
WIGGENS						
Line No	Part Number	Part Description	Asset / Component	Qty	System Identification	
					Hardware	Software
		3300 Controller				
	50006211	MXe II Controller	Asset	1	#0000353F76	MiVB Vers. 8
	50004070	3300 QUAD BRI Module (8 ISDN Channels)	Component	2		(Service Pack 3)
	50002979	3300 DSP Card (Up to 32 Channels of Compression)	Component	1		
	50005105	ASU II with AC Power	Asset	1		
	50005731	24 Port ONS Card	Component	1		
		5 meter fibre cable	Component			
		TJF510 1+0	Component			
		TJF CABLE (male to female)	Component			
		Licences				
	54005968	MCD Enterprise PBX Software	Component	1		6010672
	54004975	MCD Enterprise User Licences	Component	83		
	54000297	Voice Mail Licences	Component	92		
		Multi Device Licence	Component	2		
	54000540	3300 IP Networking Licences	Component	1		
	54000650	3300 IP to TDM Compression Licences (8 Channels)	Component	1		
	54002390	MCD SIP Trunking Licence	Component	20		
DURBAN HEIGHTS						
Line No	Part Number	Part Description	Asset / Component	Qty	System Identification	
					Hardware	Software
		3300 Controller				
	50006211	MXe II Controller	Asset	1	#00003541D2	MiVB Vers. 8
	50004070	3300 QUAD BRI Module (8 ISDN Channels)	Component			(Service Pack 3)
	50003560	3300 Dual E1 Module (PRI / Qsig) Embedded	Component	1		
	50005105	ASU II with AC Power	Asset	1		
	50005731	24 Port ONS Card	Component	1		
	50002979	3300 DSP Card (Up to 32 Channels of Compression)	Component	1		
		Licences				
	52001672	MCD Enterprise PBX Software - 3340 ICP: BRI	Component	1		17472609
	54004975	MCD Enterprise User Licences	Component	64		
	54000297	Voice Mail Licences	Component	33		
	50002891	MCD Single ONS Licences	Component	17		
	54000540	3300 IP Networking Licences	Component	1		
	54000650	3300 IP to TDM Compression Licences (8 Channels)	Component	1		
	54000303	Digital Link Licences (Per PRI Port)	Component	1		
	54002390	MCD SIP Trunking Licence	Component	10		

MIDMAR						
Line No	Part Number	Part Description	Asset / Component	Qty	System Identification	
					Hardware	Software
		3300 Controller				
	52001833	CXi Controller	Asset	1	#0000276939	MiVB Vers. 8
	50004070	3300 QUAD BRI Module (8 ISDN channels)	Component	1		(Service Pack 3)
	50004871	Analogue Expansion Unit	Component	1		
	50003728	3300 DUAL DSP Card	Component	1		
		Licences				
	52001833	MCD Enterprise PBX Software - 16 user SMB	Component	1		66926571
	54004975	MCD Enterprise User Licences	Component	42		
	54000297	Voice Mail Licences	Component	35		
	54000540	3300 IP Networking Licences	Component	1		
	54000650	3300 IP to TDM Compression Licences (8 Channels)	Component	1		
	54002390	MCD SIP Trunking Licence	Component	10		
HAZELMERE						
Line No	Part Number	Part Description	Asset / Component	Qty	System Identification	
					Hardware	Software
		3300 Controller				
	52001833	CXi Controller	Asset	1	#00002766F5	MiVB Vers. 8
	50004070	3300 QUAD BRI Module (8 ISDN channels)	Component	1		(Service Pack 3)
	50004871	Analogue Expansion Unit	Component	1		
	50003728	3300 DUAL DSP Card	Component	1		
		Licences				
	54005968	MCD Enterprise PBX Software	Component	1		81398497
	54004975	MCD Enterprise User Licences	Component	29		
	54000297	Voice Mail Licences	Component	32		
	54000540	3300 IP Networking Licences	Component	1		
	54000650	3300 IP to TDM Compression Licences (8 Channels)	Component	1		
TOTI						
Line No	Part Number	Part Description	Asset / Component	Qty	System Identification	
					Hardware	Software
		3300 Controller				
	52001833	CXi Controller	Asset	1	#00002b034b	MiVB Vers. 8
	50003728	3300 DUAL DSP Card	Component	1		(Service Pack 3)
		Licences				
	52001831	MCD Enterprise PBX Software - 8 User SMB	Component	1		33589437
	54004975	MCD Enterprise User Licences	Component	16		
	54000297	Voice Mail Licences	Component	12		
	54000540	3300 IP Networking Licences	Component	1		
	54000650	3300 IP to TDM Compression Licences (2 Channels)	Component	1		

DARVILL						
Line No	Part Number	Part Description	Asset / Component	Qty	System Identification	
					Hardware	Software
		3300 Controller				
	52001833	CXi Controller	Asset	1	#0000554e32	MiVB Vers . 8
	50004070	3300 QUAD BRI Module (8 ISDN channels)	Component	1		(Service Pack 3)
	50004871	Analogue Expansion Unit	Component	1		
	50003728	3300 DUAL DSP Card	Component	1		
		Licences				
	52001833	MCD Enterprise PBX Software - 16 User SMB	Component	1		85843210
	54004975	MCD Enterprise User Licences	Component	40		
	54000297	Voice Mail Licences	Component	28		
	54000540	3300 IP Networking Licences	Component	1		
	54000650	3300 IP to TDM Compression Licences (8 Channels)	Component	1		
DV HARRIS						
Line No	Part Number	Part Description	Asset / Component	Qty	System Identification	
					Hardware	Software
		3300 Controller				
	52001833	CXi Controller	Asset	1	#000027567E	MiVB Vers . 8
	50003728	3300 DUAL DSP Card	Component	1		(Service Pack 3)
		Licences				
	52001833	MCD Enterprise PBX Software - 8 User SMB	Component	1		2961823
	54004975	MCD Enterprise User Licences	Component	24		
	54000297	Voice Mail Licences	Component	12		
	54000540	3300 IP Networking Licences	Component	1		
	54000650	3300 IP to TDM Compression Licences (8 Channels)	Component	1		
IXOPO						
Line No	Part Number	Part Description	Asset / Component	Qty	System Identification	
					Hardware	Software
		3300 Controller				
	52001833	CXi Controller	Asset	1	#0000275711	MiVB Vers . 8
	50003728	3300 DUAL DSP Card	Component	1		(Service Pack 3)
		Licences				
	52001833	MCD Enterprise PBX Software - 8 User SMB	Component	1		62223953
	54004975	MCD Enterprise User Licences	Component	8		
	54000297	Voice Mail Licences	Component	12		
	54000540	3300 IP Networking Licences	Component	1		
	54000650	3300 IP to TDM Compression Licences (8 Channels)	Component	1		

CRAIGIEBURN						
Line No	Part Number	Part Description	Asset / Component	Qty	System Identification	
					Hardware	Software
		3300 Controller				
	52001833	CXi Controller	Asset	1	#00003C459	MiVB Vers. 8
	50003728	3300 DUAL DSP Card	Component	1		(Service Pack 3)
		Licences				
	52001833	MCD Enterprise PBX Software - 16 User SMB	Component	1		78196768
	54004975	MCD Enterprise User Licences	Component	16		
	54000297	Voice Mail Licences	Component	16		
	54000540	3300 IP Networking Licences	Component	1		
	54000650	3300 IP to TDM Compression Licences (8 Channels)	Component	1		
INANDA						
Line No	Part Number	Part Description	Asset / Component	Qty	System Identification	
					Hardware	Software
		3300 Controller				
	52001833	CXi Controller	Asset	1	#000027714B	MiVB Vers. 8
	50003728	3300 DUAL DSP Card	Component	1		(Service Pack 3)
		Licences				
	52001833	MCD Enterprise PBX Software - 8 User SMB	Component	1		88811350
	54004975	MCD Enterprise User Licences	Component	8		
	54000297	Voice Mail Licences	Component	12		
	54000540	3300 IP Networking Licences	Component	1		
	54000650	3300 IP to TDM Compression Licences (8 Channels)	Component	1		
NAGLE						
Line No	Part Number	Part Description	Asset / Component	Qty	System Identification	
					Hardware	Software
		3300 Controller				
	52001833	CXi Controller	Asset	1	#000031145e	MiVB Vers. 8
	50003728	3300 DUAL DSP Card	Component	1		(Service Pack 3)
		Licences				
	52001833	MCD Enterprise PBX Software - 8 User SMB	Component	1		56580293
	54004975	MCD Enterprise User Licences	Component	8		
	54000297	Voice Mail Licences	Component	12		
	54000540	3300 IP Networking Licences	Component	1		
	54000650	3300 IP to TDM Compression Licences (8 Channels)	Component	1		

MTHWALUME						
Line No	Part Number	Part Description	Asset / Component	Qty	System Identification	
					Hardware	Software
		3300 Controller				
	52001833	CXi Controller	Asset	1	#0000275B25	MiVB Vers. 8
	50003728	3300 DUAL DSP Card	Component	1		(Service Pack 3)
		Licences				
	52001833	MCD Enterprise PBX Software - 8 User SMB	Component	1		75527207
	54004975	MCD Enterprise User Licences	Component	8		
	54000297	Voice Mail Licences	Component	12		
	54000540	3300 IP Networking Licences	Component	1		
	54000650	3300 IP to TDM Compression Licences (8 Channels)	Component	1		
UMZINTO						
Line No	Part Number	Part Description	Asset / Component	Qty	System Identification	
					Hardware	Software
		3300 Controller				
	52001833	CXi Controller	Asset	1	#00003A8F8	MiVB Vers. 8
	50004070	3300 QUAD BRI Module (8 ISDN channels)	Component			(Service Pack 3)
	50004871	Analogue Expansion Unit	Component			
	50003728	3300 DUAL DSP Card	Component	1		
		Licences				
	52001833	MCD Enterprise PBX Software - 8 User SMB	Component	1		70360255
	54004975	MCD Enterprise User Licences	Component	8		
	54000297	Voice Mail Licences	Component	12		
	54000540	3300 IP Networking Licences	Component	1		
	54000650	3300 IP to TDM Compression Licences (8 Channels)	Component	1		
UMHLALI						
Line No	Part Number	Part Description	Asset / Component	Qty	System Identification	
					Hardware	Software
		3300 Controller				
	52001833	CXi Controller	Asset	1	#00002ACE77	MiVB Vers. 8
	50004070	3300 QUAD BRI Module (8 ISDN channels)	Component	1		(Service Pack 3)
	50003728	3300 DUAL DSP Card	Component	1		
		Licences				
	54005968	MCD Enterprise PBX Software	Component	1		28272832
	54004975	MCD Enterprise User Licences	Component	27		
	54000297	Voice Mail Licences	Component	12		
	54000540	3300 IP Networking Licences	Component	1		
	54000650	3300 IP to TDM Compression Licences (8 Channels)	Component	1		

TUGELA						
Line No	Part Number	Part Description	Asset / Component	Qty	System Identification	
					Hardware	Software
		3300 Controller				
	52001833	CXi Controller	Asset	1	#000054a62f	MiVB Vers. 8
	50003728	3300 DUAL DSP Card	Component	1		(Service Pack 3)
		Licences				
	54002536	MCD Enterprise PBX Software - Gateway 64 Devices	Component	1		65333018
	54004975	MCD Enterprise User Licences	Component	15		
	54000297	Voice Mail Licences	Component	8		
	54000540	3300 IP Networking Licences	Component	1		
	54000650	3300 IP to TDM Compression Licences (8 Channels)	Component	1		
WESTWOOD						
Line No	Part Number	Part Description	Asset / Component	Qty	System Identification	
					Hardware	Software
		SMB Controller 8/38	Asset			
	50008381	DSPX Module	Component	1	AMEFW2246A04107	
		Licences				
		Small Business Package	Component	1		37347410
	54002390	MCD SIP Trunking Licence	Component	12		
	52002842	MiVoice Business Console Licence	Component	1		
	54004975	MCD Enterprise User Licences	Component	54		

10. CCTV

10.1.

11. SOC/SIEM (TREND)

11.1.

12. NETWORK CABLING (KRONE) AND AXIL CABINETS

12.1.

13. AXIL CABINETS (ENVIROMENTAL CABINETS)

PMB - MAIN SERVER ROOM

Annual Axil monitoring fees (includes SMS and sim costs, reports, dual monitoring, licence, programming)

4x In-row cooling units

1x Axil P194 monitoring unit (includes fire system maintenance and possible gas replenishment)

14x Biometric unit, locks and power supply

24x Full cabinet management PDU

PINESIDE - MAIN SERVER ROOM

Annual Axil monitoring fees (includes SMS and sim costs, reports, dual monitoring, licence, programming)

1x Axil P194 monitoring unit (includes fire system maintenance and possible gas replenishment)

1x Biometric unit, locks and power supply

RICHARDS BAY - MAIN SERVER ROOM

Annual Axil monitoring fees (includes SMS and sim costs, reports, dual monitoring, licence, programming)

1x Axil P194 monitoring unit (includes fire system maintenance and possible gas replenishment)

1x Biometric unit, locks and power supply

MICRO DC - ALKANSTRAND

Annual Axil monitoring fees (includes SMS and sim costs, reports, dual monitoring, licence, programming)

1x Full house Micro DC (Includes Axil P194, fire system, gas, biometrics & Aircon. Excludes UPS)

1x 6Kva Axil RT UPS

1x Full cabinet management PDU

MICRO DC - AMANZIMTOTI

Annual Axil monitoring fees (includes SMS and sim costs, reports, dual monitoring, licence, programming)

1x Full house Micro DC (Includes Axil P194, fire system, gas, biometrics & Aircon. Excludes UPS)

1x 6Kva Axil RT UPS

1x Full cabinet management PDU

MICRO DC - CRAIGIEBURN

Annual Axil monitoring fees (includes SMS and sim costs, reports, dual monitoring, licence, programming)

1x Full house Micro DC (Includes Axil P194, fire system, gas, biometrics & Aircon. Excludes UPS)

1x 6Kva Axil RT UPS

1x Full cabinet management PDU

MICRO DC - DARVILL

Annual Axil monitoring fees (includes SMS and sim costs, reports, dual monitoring, licence, programming)

1x Full house Micro DC (Includes Axil P194, fire system, gas, biometrics & Aircon. Excludes UPS)

1x 6Kva Axil RT UPS

1x Full cabinet management PDU

MICRO DC – DARVILL WW1

Annual Axil monitoring fees (includes SMS and sim costs, reports, dual monitoring, licence, programming)

1x Full house Micro DC (Includes Axil P194, fire system, gas, biometrics & Aircon. Excludes UPS)

1x 6Kva Axil RT UPS

1x Full cabinet management PDU

MICRO DC – DARVILL WW2

Annual Axil monitoring fees (includes SMS and sim costs, reports, dual monitoring, licence, programming)

1x Full house Micro DC (Includes Axil P194, fire system, gas, biometrics & Aircon. Excludes UPS)

1x 6Kva Axil RT UPS

1x Full cabinet management PDU

MICRO DC - DURBAN HEIGHTS

Annual Axil monitoring fees (includes SMS and sim costs, reports, dual monitoring, licence, programming)

1x Full house Micro DC (Includes Axil P194, fire system, gas, biometrics & Aircon. Excludes UPS)

1x 6Kva Axil RT UPS

1x Full cabinet management PDU

MICRO DC - DV HARRIS

Annual Axil monitoring fees (includes SMS and sim costs, reports, dual monitoring, licence, programming)

1x Full house Micro DC (Includes Axil P194, fire system, gas, biometrics & Aircon. Excludes UPS)

1x 6Kva Axil RT UPS

1x Full cabinet management PDU

MICRO DC - HAZELMERE

Annual Axil monitoring fees (includes SMS and sim costs, reports, dual monitoring, licence, programming)

1x Full house Micro DC (Includes Axil P194, fire system, gas, biometrics & Aircon. Excludes UPS)

1x 6Kva Axil RT UPS

1x Full cabinet management PDU

MICRO DC – HOWICK/MIDMAR

Annual Axil monitoring fees (includes SMS and sim costs, reports, dual monitoring, licence, programming)

1x Full house Micro DC (Includes Axil P194, fire system, gas, biometrics & Aircon. Excludes UPS)

1x 6Kva Axil RT UPS

1x Full cabinet management PDU

MICRO DC - IXOPO

Annual Axil monitoring fees (includes SMS and sim costs, reports, dual monitoring, licence, programming)

1x Full house Micro DC (Includes Axil P194, fire system, gas, biometrics & Aircon. Excludes UPS)

1x 6Kva Axil RT UPS

1x Full cabinet management PDU

MICRO DC - LADYSMITH

Annual Axil monitoring fees (includes SMS and sim costs, reports, dual monitoring, licence, programming)

1x Full house Micro DC (Includes Axil P194, fire system, gas, biometrics & Aircon. Excludes UPS)

1x 6Kva Axil RT UPS

1x Full cabinet management PDU

MICRO DC – MAPHUMULO

Annual Axil monitoring fees (includes SMS and sim costs, reports, dual monitoring, licence, programming)

1x Full house Micro DC (Includes Axil P194, fire system, gas, biometrics & Aircon. Excludes UPS)

1x 6Kva Axil RT UPS

1x Full cabinet management PDU

MICRO DC – MKONDENI LAB

Annual Axil monitoring fees (includes SMS and sim costs, reports, dual monitoring, licence, programming)

1x Full house Micro DC (Includes Axil P194, fire system, gas, biometrics & Aircon. Excludes UPS)

1x 6Kva Axil RT UPS

1x Full cabinet management PDU

MICRO DC – MKONDENI MICRO DC

Annual Axil monitoring fees (includes SMS and sim costs, reports, dual monitoring, licence, programming)

1x Full house Micro DC (Includes Axil P194, fire system, gas, biometrics & Aircon. Excludes UPS)

1x 6Kva Axil RT UPS

1x Full cabinet management PDU

MICRO DC - MSINI (BLOCK A)

1 x Annual Axil monitoring fees (includes SMS and sim costs, reports, dual monitoring, licence, programming)

1x Full house Micro DC (Includes Axil P194, fire system, gas, biometrics & Aircon. Excludes UPS)
 1x 6Kva Axil RT UPS
 1x Full cabinet management PDU

MICRO DC - MSINI (BLOCK C)

1 x Annual Axil monitoring fees (includes SMS and sim costs, reports, dual monitoring, licence, programming)
 1x Full house Micro DC (Includes Axil P194, fire system, gas, biometrics & Aircon. Excludes UPS)
 1x 6Kva Axil RT UPS
 1x Full cabinet management PDU

MICRO DC - NSEZI

1 x Annual Axil monitoring fees (includes SMS and sim costs, reports, dual monitoring, licence, programming)
 1x Full house Micro DC (Includes Axil P194, fire system, gas, biometrics & Aircon. Excludes UPS)
 1x 6Kva Axil RT UPS
 1x Full cabinet management PDU

MICRO DC - PINESIDE

Annual Axil monitoring fees (includes SMS and sim costs, reports, dual monitoring, licence, programming)
 1x Full house Micro DC (Includes Axil P194, fire system, gas, biometrics & Aircon. Excludes UPS)
 1x 6Kva Axil RT UPS
 1x Full cabinet management PDU

MICRO DC - PMB 321 PRINCE ALFRED

Annual Axil monitoring fees (includes SMS and sim costs, reports, dual monitoring, licence, programming)
 1x Full house Micro DC (Includes Axil P194, fire system, gas, biometrics & Aircon. Excludes UPS)
 1x 6Kva Axil RT UPS
 1x Full cabinet management PDU

MICRO DC - PMB 346 BURGER STREET

Annual Axil monitoring fees (includes SMS and sim costs, reports, dual monitoring, licence, programming)
 1x Full house Micro DC (Includes Axil P194, fire system, gas, biometrics & Aircon. Excludes UPS)
 1x 6Kva Axil RT UPS
 1x Full cabinet management PDU

MICRO DC - PMB

Annual Axil monitoring fees (includes SMS and sim costs, reports, dual monitoring, licence, programming)
 1x Full house Micro DC (Includes Axil P194, fire system, gas, biometrics & Aircon. Excludes UPS)

1x 6Kva Axil RT UPS
1x Full cabinet management PDU

MICRO DC - RICHARDS BAY (LAB)

1 x Annual Axil monitoring fees (includes SMS and sim costs, reports, dual monitoring, licence, programming)
1x Full house Micro DC (Includes Axil P194, fire system, gas, biometrics & Aircon. Excludes UPS)
1x 6Kva Axil RT UPS
1x Full cabinet management PDU

MICRO DC - RICHARDS BAY (OLD COMPUTER ROOM)

1 x Annual Axil monitoring fees (includes SMS and sim costs, reports, dual monitoring, licence, programming)
1x Full house Micro DC (Includes Axil P194, fire system, gas, biometrics & Aircon. Excludes UPS)
1x 6Kva Axil RT UPS
1x Full cabinet management PDU

MICRO DC - ROSETTA (1)

1x Annual Axil monitoring fees (includes SMS and sim costs, reports, dual monitoring, licence, programming)
1x Full house Micro DC (Includes Axil P194, fire system, gas, biometrics & Aircon. Excludes UPS)
1x 6Kva Axil RT UPS
1x Full cabinet management PDU

MICRO DC - ROSETTA (2)

1x Annual Axil monitoring fees (includes SMS and sim costs, reports, dual monitoring, licence, programming)
1x Full house Micro DC (Includes Axil P194, fire system, gas, biometrics & Aircon. Excludes UPS)
1x 6Kva Axil RT UPS

MICRO DC - TRUSTFEED

Annual Axil monitoring fees (includes SMS and sim costs, reports, dual monitoring, licence, programming)
1x Full house Micro DC (Includes Axil P194, fire system, gas, biometrics & Aircon. Excludes UPS)
1x 6Kva Axil RT UPS
1x Full cabinet management PDU

MICRO DC - TUGELA

Annual Axil monitoring fees (includes SMS and sim costs, reports, dual monitoring, licence, programming)
1x Full house Micro DC (Includes Axil P194, fire system, gas, biometrics & Aircon. Excludes UPS)
1x 6Kva Axil RT UPS
1x Full cabinet management PDU

MICRO DC - UMHLALI

Annual Axil monitoring fees (includes SMS and sim costs, reports, dual monitoring, licence, programming)

1x Full house Micro DC (Includes Axil P194, fire system, gas, biometrics & Aircon. Excludes UPS)

1x 6Kva Axil RT UPS

1x Full cabinet management PDU

MICRO DC - WESTWAY

Annual Axil monitoring fees (includes SMS and sim costs, reports, dual monitoring, licence, programming)

1x Full house Micro DC (Includes Axil P194, fire system, gas, biometrics & Aircon. Excludes UPS)

1x 6Kva Axil RT UPS

1x Full cabinet management PDU

MICRO DC - WIGGINS

Annual Axil monitoring fees (includes SMS and sim costs, reports, dual monitoring, licence, programming)

1x Full house Micro DC (Includes Axil P194, fire system, gas, biometrics & Aircon. Excludes UPS)

1x 6Kva Axil RT UPS

1x Full cabinet management PDU

14. HUAWEI CLOUD BACKUP AND RECOVERY

Site	Location Code	Number of VMs	Data Volume
Headquarters	PMB	194 VMs	330.2 TB
Satellite Site 1	PSD	89 VMs	167.5 TB
Satellite Site 2	RBY	26 VMs	21.4 TB

The existing solution includes:

- Huawei Cloud–hosted backup and DR infrastructure (South Africa region).
- Hub-and-spoke replication topology with PSD as the central replication hub.
- Veeam Backup & Replication as the backup software platform.
- Dedicated 1 Gbps connectivity to Huawei Cloud.The Service Provider will assume operational support and management of this environment.