



UNIVERSITY
OF
JOHANNESBURG

SPECIFICATIONS
FOR
T UJ 44/2022 NETWORK AND CABLING
SUPPORT SLA

TABLE OF CONTENTS

1. Introduction	3
2. UJ Campuses	3
3. Purpose	3
4. Scope of work.....	3
5. Support Requirements for Cabling	6
6. Equipment and Services to be covered	8
7. Service uptime and response requirements.....	20
8. Mandatory Requirements.....	22
9. Declaration of sub-contractors:	23
10. Technical Adjudication	24
11. Pricing Sheet	26
Checklist	29

1. Introduction

The University of Johannesburg (UJ)'s Information and Communications Systems department is responsible for providing IT services to the university. UJ rely on these IT resources to conduct day to day business of teaching, learning and research. These resources are consumed by all stakeholders including students, staff, and guests. Therefore, UJ is looking for a competent and capable service provider to partner with in meeting the stakeholders support requirements by ensuring a stable, highly available and reliable network through a service level agreement (SLA). The SLA will be for a period of 3 years.

2. UJ Campuses

The University of Johannesburg consists of five campuses all in Gauteng i.e. Auckland Park Kingsway Campus (APK), Auckland Park Bunting Road Campus (APB), Doornfontein Campus (DFC), Soweto Campus (SWC), and JBS Park, also there is a disaster recovery site and various remote sites and offices.

2.1 Satellite Campuses

The University of Johannesburg has five satellite campuses, One in Florida fire station and one at the South African Military Health Services Academy in Pretoria, Devland Educational Campus, UJ on Empire and UJ Island.

2.2 Remote offices and Houses

The University also owns several houses and small offices with IT services in and around the Johannesburg area.

3. Purpose

UJ is looking for a competent and capable service provider to partner with in meeting the stakeholders support requirements by ensuring a stable, highly available and reliable network through a service level agreement (SLA). The SLA will be for a period of three (3) years.

4. Scope of work

The Network and Cabling service must match or improve the functionality of UJ and must include the following minimum requirements:

4.1 Network Support and Maintenance services:

- Normal working hours are 8:00am to 5 pm, Monday to Friday excluding holidays.
- Afterhours support also required from time to time. This includes but not limited to changes, planned maintenance and major service disruption.
- To provide standby engineer for afterhours weekdays and weekends.
- A standby support resource (or resources) must be available when required for physical onsite or remote support. Remote access can be granted under special conditions determined by the university at its discretion.

- Proof of technical certification of key technical resources must be attached. With experience in supporting Enterprise LAN, WAN, WLAN, routing and switching. Service provider must have two Engineers with a minimum of Cisco CCNP Routing and Switching, Huawei HCNP Routing, and switching, HCNP WLAN and must be highly technical and skilled engineers (1 x resources CCNP R&S certified and 1x resources HCNP R&S and WLAN).
- The Service Provider is also expected to support and do software upgrades on Alcatel Equipment, if no in-house Alcatel lucent support exists, support can be subcontracted. However, responsibility lies with the winning supplier to oversee that work gets completed on time and to the quality standards as stipulated by UJ.
- SLA to be backed up by Huawei and Cisco Shared Support Services.
- Service providers must ensure Huawei portal and Cisco TAC access is provided for the University of Johannesburg staff to access documentations, release notes, software downloads as well as TAC access and support.
- As the university is constantly expanding and new services installed, the service provider must be able to extend the cover to new services. The service provider must be able to provide a process of how new services or equipment will be added to the SLA.
- The service provider must be able to assist the university in designing new services and architectural changes when required. All designs to be documented.
- The service provider must provide documented Root Cause Analysis (RCA) for all major services interruptions or when required to do so by university management.
- The university might procure different vendor equipment than the one listed in these tender specifications document. In that event, the university will ask the successful bidder to amend the scope of work and quote for inclusion of new equipment depending on skills availability.
- Provide Service Level Agreement monthly reporting.
- Attend weekly and bi-weekly operations meetings.
- It must be understood and accepted that UJ is a growing University, and this will result in an expected growth, and this will have a direct impact onto the terms of reference and cost; therefore, an acceptable percentage increase proportional to the entirety of the contract.
- This will change to 1-hour response time and 4 hours' repair time, based on the area affected, the time this occurs, for instance during Examination at Computer

Laboratories and Examination venue, and on the impact of the downtime, how many people it is affecting these seasonal activities, areas will be communicated to the successful service provider.

4.2 Cabling services

NB: The University of Johannesburg (UJ) has a number of campuses and offices in and around Gauteng which are interconnected using different connectivity services which include fiber network backbone, fiber network peripherals, CAT5-6 copper cabling network points and links. UJ's Information and Communications Systems (ICS) department is responsible to provide reliable IT services to the university. In terms of ANSI/TIA-4966 Educational Facilities Cabling Standard therefore is looking at partnering with a qualified and experienced service provider to provide maintenance and repair Service Level Agreement (SLA) for its Fiber and copper cabling infrastructure for a period of 36 months.

NB: Site Inspection

Before submitting a tender, the tenderer may inspect the sites in order to familiarise himself with regard to relevant local site conditions, site and cabling routes accessibility, the nature of operations required, availability of labour and any conditions pertaining thereto, together with conditions relating to storage of materials, equipment and tools required for the works.

The successful service provider must be able to meet the following requirements:

- 4.2.1 If no in-house cabling department exists, cabling can be subcontracted. However, responsibility lies with the winning supplier to oversee that work gets completed on time and to the quality standards as stipulated by UJ.
- 4.2.2 The Service provider must be a certified Molex Partner, Valid proof to be provided. Furthermore, a minimum of four valid Molex certificates will be needed of the qualified team members that will be doing the physical installation and repairs. Proof to be provided.
- 4.2.3 MOLEX Test results to be provided for all newly replaced data points. Certificate certifying the installation and the warrantee to be produced from Molex.
- 4.2.4 On replaced data points labeling to be done. i.e., before the patch panel and before the device box as per Molex/Global Cabling standards ANSI/TIA-606-C.
- 4.2.5 The Service provider to be a qualified fiber cable installer. Proof to be provided.
- 4.2.6 Labelling of fiber cables on the cable itself and the splice trays indicating where the cable is terminating.
- 4.2.7 Fiber Optic Test Report results to be produced on all fiber cables test and repairs.
- 4.2.8 Installation to be done during work hours unless arrangements are made with UJ ICS.
- 4.2.9 Support services strictly onsite. No telephonic or remote support.
- 4.2.10 Support staff must be based at the service provider's nearest offices. The University is not able to provide permanent office space on premises.
- 4.2.11 Should the service provider require remote view or monitoring, such must be done at service provider's own costs, and it will be sole discretion of the university to allow remote connection to the university's network.
- 4.2.12 The SLA cost must be a fixed monthly fee unless where mentioned otherwise. The fee must be inclusive of any costs to restore the service including replacement parts, travel, and labour costs. Any additional fees and exclusions must be specified in the responses.
- 4.2.13 Weekends and Holidays must be included as part of monthly fees

- 4.2.14 As part of the repair, the service provider must be able to provide all necessary accessories and cabling fixes included in the fixed monthly cost.
- 4.2.15 Service provider must provide reference for similar work done and be able to provide site visits should it be required.
- 4.2.16 The University of Johannesburg is constantly growing and changing. As a results new fiber and copper infrastructure will continually be installed or others decommissioned during the course of the SLA contract. The successful service provider must be able to amend the contract to accommodate infrastructure even if procured from a different service provider. Procedure for the additions and removal must be included.

5. Support Requirements for Cabling

The successful service provider must be able to adhere to the following support requirements:

- a. Project management of the Cabling Infrastructure. (Detailing how maintenance and support will be carried out throughout the duration of the SLA).
- b. Auditing of the existing fiber infrastructure per campus and produce a detailed professional network diagrams to be regularly updated.
- c. Support passive network cabling infrastructure, Permanent links, and Channels.

5.1 Service Hours

Weekdays from 8 am to 5 pm.

5.2 Service Response

Represent the time required to respond to a failed fiber or copper link, a test and repair. The following response times must be adhered to unless delays caused by UJ:

1 hour to respond

5.3 Replacement Stock

Service provider is required to keep replacement stock (cabling material, patch panels, splice trays and related accessories) to ensure fast replacement if required.

5.4 Afterhours

Afterhours refer to work outside required service times as in section 4.1 above. In certain cases, the service provider must be able to provide services outside specified service hours if safe to do so. Additional required costs for this must be clearly specified in the response if any.

5.5 Maintenance

The service provider must be able to perform preventative maintenance on all the fiber links within 2 months of signing the SLA contract. The preventative maintenance must be performed twice a year for the duration of the SLA contract. The preventative maintenance must include and not limited to the following.

- 5.5.1 Equipment and installation inspection.
- 5.5.2 Inspection of pathways, routes and cabinets adherence to the 70% capacity as per the ANSI/TIA-4966 standard. In the event of expansion required the Service Provider is required to advise and quote UJ accordingly.

- 5.5.3 Inspection of network rooms and cabinets and ensure they adhere to ANSI/TIA-4966 cabling standards. Where attention is required, the Service Provider is required to advise and quote UJ accordingly.
- 5.5.4 Inspection of network rooms and network cabinets ensure proper labelling of Fiber termination equipment, patch panels as per the ANSI/TIA-606-C standard.
- 5.5.5 Cleaning of Fibre connectors on both sides to ensure no dust.
- 5.5.6 Completion of a maintenance report.

5.6 Equipment Standards, Replacements and Warrantees

- 5.6.1 The Information and Communications Department (ICS) has standardised on Molex Global Standards. Should the material need to be replaced, it must be replaced strictly with Molex material.
- 5.6.2 If the fiber cannot be repaired and the cost of installing replacement fiber is beyond the scope of the SLA, the service provider must provide a detailed written report explaining why the equipment can't be fixed. Quote for approval and procured separately at UJ's costs. In this case labour and travel costs must be part of the maintenance SLA. In such cases, UJ will be responsible for the equipment costs only.

5.7 Service Management

- 5.7.1 The successful service provider must schedule and attend monthly service review meetings.
- 5.7.2 The successful service provider must provide monthly service reports by the 10th of every month to UJ.
- 5.7.3 The successful service provider must appoint a dedicated Service Manager as a central point of contact.
- 5.7.4 Call logging and escalation procedures must be included as part of the response including weekends and afterhours contacts.
- 5.7.5 The service provider must be able to assist the university in drafting new specifications and cabling architectural changes when required. All designs to be documented.

6. Equipment and Services to be covered

NB: the following equipment was recorded during the time of drafting this document. This list might change from time to time due to university's business requirements.

6.1 Cisco Inventory

Core Devices:

AUCKLAND PARK KINGSWAY CAMPUS	
NAME	Description
Chassis 1 C6807-XL	Chassis 1 Cisco Systems, Inc. Catalyst 6807 7-slot Chassis System
Chassis 1 WS-C6K-VTT-E 1	Chassis 1 VTT-E FRU 1
Chassis 1 WS-C6K-VTT-E 2	Chassis 1 VTT-E FRU 2
Chassis 1 WS-C6K-VTT-E 3	Chassis 1 VTT-E FRU 3
Chassis 1 CLK-7600 1	Chassis 1 OSR-7600 Clock FRU 1
Chassis 1 CLK-7600 2	Chassis 1 OSR-7600 Clock FRU 2
Chassis 1 C6800-XL-PS-CONV 1	Chassis 1 C6807 power converter 1
Chassis 1 C6800-XL-PS-CONV 2	Chassis 1 C6807 power converter 2
Chassis 1 1	Chassis 1 C6800-32P10G-XL DCEF2T 8 port 40GE / 32 port 10GE Rev. 1.0
Chassis 1 C6800-DFC-XL Distributed Forwarding Card 4 EARL 1 sub-module of 1	Chassis 1 C6800-DFC-XL Distributed Forwarding Card 4 Rev. 1.0
Chassis 1 C6800-DFC-XL Distributed Forwarding Card 4 EARL 2 sub-module of 1	Chassis 1 C6800-DFC-XL Distributed Forwarding Card 4 Rev. 1.1
Chassis 1 2	Chassis 1 C6800-32P10G-XL DCEF2T 8 port 40GE / 32 port 10GE Rev. 1.2
Chassis 1 C6800-DFC-XL Distributed Forwarding Card 4 EARL 1 sub-module of 2	Chassis 1 C6800-DFC-XL Distributed Forwarding Card 4 Rev. 1.2
Chassis 1 C6800-DFC-XL Distributed Forwarding Card 4 EARL 2 sub-module of 2	Chassis 1 C6800-DFC-XL Distributed Forwarding Card 4 Rev. 1.1
Chassis 1 3	Chassis 1 C6800-SUP6T-XL 20 ports Supervisor Engine 6T 10GE w/ CTS Rev. 2.0
Chassis 1 C6800-PFC-XL Policy Feature Card 4 EARL 1 sub-module of 3	Chassis 1 C6800-PFC-XL Policy Feature Card 4 Rev. 1.0
Chassis 1 5	Chassis 1 C6800-48P-TX-XL 48 ports DCEF-XL 48P 10/100/1000MB Ethernet Rev. 1.0
Chassis 1 WS-F6K-DFC4-AXL Distributed Forwarding Card 4 EARL 1 sub-module of 5	Chassis 1 WS-F6K-DFC4-AXL Distributed Forwarding Card 4 Rev. 1.0
Chassis 1 Transceiver Fo1/3/9	Chassis 1 QSFP+ Transceiver 40Gbase-H40G_AOC_10M Fo1/3/9
Chassis 1 Transceiver Fo1/3/10	Chassis 1 QSFP+ Transceiver 40Gbase-H40G_AOC_10M Fo1/3/10
Chassis 1 C6807-XL-FAN 1	Chassis 1 C6807-XL Fan Tray 1
Chassis 1 PS 1 C6800-XL-3KW-AC	Chassis 1 AC power supply, 3000 watt 1
Chassis 1 PS 2 C6800-XL-3KW-AC	Chassis 1 AC power supply, 3000 watt 2
Chassis 1 PS 3 C6800-XL-3KW-AC	Chassis 1 AC power supply, 3000 watt 3
Chassis 1 PS 4 C6800-XL-3KW-AC	Chassis 1 AC power supply, 3000 watt 4

NAME	Description
Chassis 2 C6807-XL	Chassis 2 Cisco Systems, Inc. Catalyst 6807 7-slot Chassis System
Chassis 2 WS-C6K-VTT-E 1	Chassis 2 VTT-E FRU 1
Chassis 2 WS-C6K-VTT-E 2	Chassis 2 VTT-E FRU 2
Chassis 2 WS-C6K-VTT-E 3	Chassis 2 VTT-E FRU 3
Chassis 2 CLK-7600 1	Chassis 2 OSR-7600 Clock FRU 1
Chassis 2 CLK-7600 2	Chassis 2 OSR-7600 Clock FRU 2
Chassis 2 C6800-XL-PS-CONV 1	Chassis 2 C6807 power converter 1
Chassis 2 C6800-XL-PS-CONV 2	Chassis 2 C6807 power converter 2
Chassis 2 1	Chassis 2 C6800-32P10G-XL DCEF2T 8 port 40GE / 32 port 10GE Rev. 1.2
Chassis 2 C6800-DFC-XL Distributed Forwarding Card 4 EARL 1 sub-module of 1	Chassis 2 C6800-DFC-XL Distributed Forwarding Card 4 Rev. 1.2
Chassis 2 C6800-DFC-XL Distributed Forwarding Card 4 EARL 2 sub-module of 1	Chassis 2 C6800-DFC-XL Distributed Forwarding Card 4 Rev. 1.1
Chassis 2 2	Chassis 2 C6800-32P10G-XL DCEF2T 8 port 40GE / 32 port 10GE Rev. 1.2
Chassis 2 C6800-DFC-XL Distributed Forwarding Card 4 EARL 1 sub-module of 2	Chassis 2 C6800-DFC-XL Distributed Forwarding Card 4 Rev. 1.2
Chassis 2 C6800-DFC-XL Distributed Forwarding Card 4 EARL 2 sub-module of 2	Chassis 2 C6800-DFC-XL Distributed Forwarding Card 4 Rev. 1.1
Chassis 2 3	Chassis 2 C6800-SUP6T-XL 20 ports Supervisor Engine 6T 10GE w/ CTS Rev. 2.0
Chassis 2 C6800-PFC-XL Policy Feature Card 4 EARL 1 sub-module of 3	Chassis 2 C6800-PFC-XL Policy Feature Card 4 Rev. 1.0
Chassis 2 Transceiver Fo2/3/9	Chassis 2 QSFP+ Transceiver 40Gbase-H40G_AOC_10M Fo2/3/9
Chassis 2 Transceiver Fo2/3/10	Chassis 2 QSFP+ Transceiver 40Gbase-H40G_AOC_10M Fo2/3/10
Chassis 2 5	Chassis 2 C6800-48P-TX-XL 48 ports DCEF-XL 48P 10/100/1000MB Ethernet Rev. 1.0
Chassis 2 WS-F6K-DFC4-AXL Distributed Forwarding Card 4 EARL 1 sub-module of 5	Chassis 2 WS-F6K-DFC4-AXL Distributed Forwarding Card 4 Rev. 1.0
Chassis 2 C6807-XL-FAN 1	Chassis 2 C6807-XL Fan Tray 1
Chassis 2 PS 1 C6800-XL-3KW-AC	Chassis 2 AC power supply, 3000 watt 1
Chassis 2 PS 2 C6800-XL-3KW-AC	Chassis 2 AC power supply, 3000 watt 2
Chassis 2 PS 3 C6800-XL-3KW-AC	Chassis 2 AC power supply, 3000 watt 3
Chassis 2 PS 4 C6800-XL-3KW-AC	Chassis 2 AC power supply, 3000 watt 4

SFP TYPE	Quantity
10Gbase-SR	51
10Gbase-LR	30
1000BaseLH	24
1000BaseSX	9
40Gbase-H40G_AOC_10M	4

DOORNFONTEIN CAMPUS

NAME	Description
Chassis 1 C6807-XL	Chassis 1 Cisco Systems, Inc. Catalyst 6807 7-slot Chassis System
Chassis 1 WS-C6K-VTT-E 1	Chassis 1 VTT-E FRU 1
Chassis 1 WS-C6K-VTT-E 2	Chassis 1 VTT-E FRU 2
Chassis 1 WS-C6K-VTT-E 3	Chassis 1 VTT-E FRU 3
Chassis 1 CLK-7600 1	Chassis 1 OSR-7600 Clock FRU 1
Chassis 1 CLK-7600 2	Chassis 1 OSR-7600 Clock FRU 2
Chassis 1 C6800-XL-PS-CONV 1	Chassis 1 C6807 power converter 1
Chassis 1 C6800-XL-PS-CONV 2	Chassis 1 C6807 power converter 2
Chassis 1 1	Chassis 1 C6800-32P10G-XL DCEF2T 8 port 40GE / 32 port 10GE Rev. 1.2
Chassis 1 C6800-DFC-XL Distributed Forwarding Card 4 EARL 1 sub-module of 1	Chassis 1 C6800-DFC-XL Distributed Forwarding Card 4 Rev. 1.2
Chassis 1 C6800-DFC-XL Distributed Forwarding Card 4 EARL 2 sub-module of 1	Chassis 1 C6800-DFC-XL Distributed Forwarding Card 4 Rev. 1.1
Chassis 1 2	Chassis 1 C6800-32P10G-XL DCEF2T 8 port 40GE / 32 port 10GE Rev. 1.2
Chassis 1 C6800-DFC-XL Distributed Forwarding Card 4 EARL 1 sub-module of 2	Chassis 1 C6800-DFC-XL Distributed Forwarding Card 4 Rev. 1.2
Chassis 1 C6800-DFC-XL Distributed Forwarding Card 4 EARL 2 sub-module of 2	Chassis 1 C6800-DFC-XL Distributed Forwarding Card 4 Rev. 1.1
Chassis 1 3	Chassis 1 C6800-SUP6T-XL 20 ports Supervisor Engine 6T 10GE w/ CTS Rev. 2.1
Chassis 1 C6800-PFC-XL Policy Feature Card 4 EARL 1 sub-module of 3	Chassis 1 C6800-PFC-XL Policy Feature Card 4 Rev. 1.0
Chassis 1 4	Chassis 1 C6800-SUP6T-XL 20 ports Supervisor Engine 6T 10GE w/ CTS Rev. 2.1
Chassis 1 C6800-PFC-XL Policy Feature Card 4 EARL 1 sub-module of 4	Chassis 1 C6800-PFC-XL Policy Feature Card 4 Rev. 1.0
Chassis 1 5	Chassis 1 C6800-48P-TX-XL 48 ports DCEF-XL 48P 10/100/1000MB Ethernet Rev. 1.0
Chassis 1 WS-F6K-DFC4-AXL Distributed Forwarding Card 4 EARL 1 sub-module of 5	Chassis 1 WS-F6K-DFC4-AXL Distributed Forwarding Card 4 Rev. 1.0
Chassis 1 C6807-XL-FAN 1	Chassis 1 C6807-XL Fan Tray 1
Chassis 1 PS 1 C6800-XL-3KW-AC	Chassis 1 AC power supply, 3000 watt 1
Chassis 1 PS 2 C6800-XL-3KW-AC	Chassis 1 AC power supply, 3000 watt 2
Chassis 1 PS 3 C6800-XL-3KW-AC	Chassis 1 AC power supply, 3000 watt 3
Chassis 1 PS 4 C6800-XL-3KW-AC	Chassis 1 AC power supply, 3000 watt 4

Chassis 2 C6807-XL	Chassis 2 Cisco Systems, Inc. Catalyst 6807 7-slot Chassis System
Chassis 2 WS-C6K-VTT-E 1	Chassis 2 VTT-E FRU 1
Chassis 2 WS-C6K-VTT-E 2	Chassis 2 VTT-E FRU 2
Chassis 2 WS-C6K-VTT-E 3	Chassis 2 VTT-E FRU 3
Chassis 2 CLK-7600 1	Chassis 2 OSR-7600 Clock FRU 1
Chassis 2 CLK-7600 2	Chassis 2 OSR-7600 Clock FRU 2
Chassis 2 C6800-XL-PS-CONV 1	Chassis 2 C6807 power converter 1

Chassis 2 C6800-XL-PS-CONV 2	Chassis 2 C6807 power converter 2
Chassis 2 1	Chassis 2 C6800-32P10G-XL DCEF2T 8 port 40GE / 32 port 10GE Rev. 1.2
Chassis 2 C6800-DFC-XL Distributed Forwarding Card 4 EARL 1 sub-module of 1	Chassis 2 C6800-DFC-XL Distributed Forwarding Card 4 Rev. 1.2
Chassis 2 C6800-DFC-XL Distributed Forwarding Card 4 EARL 2 sub-module of 1	Chassis 2 C6800-DFC-XL Distributed Forwarding Card 4 Rev. 1.1
Chassis 2 3	Chassis 2 C6800-SUP6T-XL 20 ports Supervisor Engine 6T 10GE w/ CTS Rev. 2.1
Chassis 2 C6800-PFC-XL Policy Feature Card 4 EARL 1 sub-module of 3	Chassis 2 C6800-PFC-XL Policy Feature Card 4 Rev. 1.0
Chassis 2 4	Chassis 2 C6800-SUP6T-XL 20 ports Supervisor Engine 6T 10GE w/ CTS Rev. 2.1
Chassis 2 C6800-PFC-XL Policy Feature Card 4 EARL 1 sub-module of 4	Chassis 2 C6800-PFC-XL Policy Feature Card 4 Rev. 1.0
Chassis 2 5	Chassis 2 C6800-48P-TX-XL 48 ports DCEF-XL 48P 10/100/1000MB Ethernet Rev. 1.0
Chassis 2 WS-F6K-DFC4-AXL Distributed Forwarding Card 4 EARL 1 sub-module of 5	Chassis 2 WS-F6K-DFC4-AXL Distributed Forwarding Card 4 Rev. 1.0
Chassis 2 C6807-XL-FAN 1	Chassis 2 C6807-XL Fan Tray 1
Chassis 2 PS 1 C6800-XL-3KW-AC	Chassis 2 AC power supply, 3000 watt 1
Chassis 2 PS 2 C6800-XL-3KW-AC	Chassis 2 AC power supply, 3000 watt 2
Chassis 2 PS 3 C6800-XL-3KW-AC	Chassis 2 AC power supply, 3000 watt 3
Chassis 2 PS 4 C6800-XL-3KW-AC	Chassis 2 AC power supply, 3000 watt 4

SFP Type	QTY
10Gbase-SR	21
10Gbase-LR	5
1000BaseSX	26
1000BaseLH	2

Auckland Park Bunting Road CAMPUS

NAME	Description
Chassis 1 C6807-XL	Chassis 1 Cisco Systems, Inc. Catalyst 6807 7-slot Chassis System
Chassis 1 WS-C6K-VTT-E 1	Chassis 1 VTT-E FRU 1
Chassis 1 WS-C6K-VTT-E 2	Chassis 1 VTT-E FRU 2
Chassis 1 WS-C6K-VTT-E 3	Chassis 1 VTT-E FRU 3
Chassis 1 CLK-7600 1	Chassis 1 OSR-7600 Clock FRU 1
Chassis 1 CLK-7600 2	Chassis 1 OSR-7600 Clock FRU 2
Chassis 1 C6800-XL-PS-CONV 1	Chassis 1 C6807 power converter 1
Chassis 1 C6800-XL-PS-CONV 2	Chassis 1 C6807 power converter 2
Chassis 1 1	Chassis 1 C6800-32P10G-XL DCEF2T 8 port 40GE / 32 port 10GE Rev. 1.2
Chassis 1 C6800-DFC-XL Distributed Forwarding Card 4 EARL 1 sub-module of 1	Chassis 1 C6800-DFC-XL Distributed Forwarding Card 4 Rev. 1.2
Chassis 1 C6800-DFC-XL Distributed Forwarding Card 4 EARL 2 sub-module of 1	Chassis 1 C6800-DFC-XL Distributed Forwarding Card 4 Rev. 1.1
Chassis 1 2	Chassis 1 C6800-32P10G-XL DCEF2T 8 port 40GE / 32 port 10GE Rev. 1.2
Chassis 1 C6800-DFC-XL Distributed Forwarding Card 4 EARL 1 sub-module of 2	Chassis 1 C6800-DFC-XL Distributed Forwarding Card 4 Rev. 1.2
Chassis 1 C6800-DFC-XL Distributed Forwarding Card 4 EARL 2 sub-module of 2	Chassis 1 C6800-DFC-XL Distributed Forwarding Card 4 Rev. 1.1
Chassis 1 3	Chassis 1 C6800-SUP6T-XL 20 ports Supervisor Engine 6T 10GE w/ CTS Rev. 2.1
Chassis 1 C6800-PFC-XL Policy Feature Card 4 EARL 1 sub-module of 3	Chassis 1 C6800-PFC-XL Policy Feature Card 4 Rev. 1.0
Chassis 1 4	Chassis 1 C6800-SUP6T-XL 20 ports Supervisor Engine 6T 10GE w/ CTS Rev. 2.1
Chassis 1 C6800-PFC-XL Policy Feature Card 4 EARL 1 sub-module of 4	Chassis 1 C6800-PFC-XL Policy Feature Card 4 Rev. 1.0
Chassis 1 5	Chassis 1 C6800-48P-TX-XL 48 ports DCEF-XL 48P 10/100/1000MB Ethernet Rev. 1.0
Chassis 1 WS-F6K-DFC4-AXL Distributed Forwarding Card 4 EARL 1 sub-module of 5	Chassis 1 WS-F6K-DFC4-AXL Distributed Forwarding Card 4 Rev. 1.0
Chassis 1 C6807-XL-FAN 1	Chassis 1 C6807-XL Fan Tray 1
Chassis 1 PS 1 C6800-XL-3KW-AC	Chassis 1 AC power supply, 3000 watt 1
Chassis 1 PS 2 C6800-XL-3KW-AC	Chassis 1 AC power supply, 3000 watt 2
Chassis 1 PS 3 C6800-XL-3KW-AC	Chassis 1 AC power supply, 3000 watt 3
Chassis 1 PS 4 C6800-XL-3KW-AC	Chassis 1 AC power supply, 3000 watt 4

SFP TYPE	Quantity
1000BaseLH	9
10Gbase-SR	12
10Gbase-LR	10
1000BaseSX	16
10Gbase-LRM	1

Soweto Campus	
NAME	DESCRIPTION
Chassis 1 C6807-XL	Chassis 1 Cisco Systems, Inc. Catalyst 6807 7-slot Chassis System
Chassis 1 WS-C6K-VTT-E 1	Chassis 1 VTT-E FRU 1
Chassis 1 WS-C6K-VTT-E 2	Chassis 1 VTT-E FRU 2
Chassis 1 WS-C6K-VTT-E 3	Chassis 1 VTT-E FRU 3
Chassis 1 CLK-7600 1	Chassis 1 OSR-7600 Clock FRU 1
Chassis 1 CLK-7600 2	Chassis 1 OSR-7600 Clock FRU 2
Chassis 1 C6800-XL-PS-CONV 1	Chassis 1 C6807 power converter 1
Chassis 1 C6800-XL-PS-CONV 2	Chassis 1 C6807 power converter 2
Chassis 1 1	Chassis 1 C6800-32P10G-XL DCEF2T 8 port 40GE / 32 port 10GE Rev. 1.2
Chassis 1 C6800-DFC-XL Distributed Forwarding Card 4 EARL 1 sub-module of 1	Chassis 1 C6800-DFC-XL Distributed Forwarding Card 4 Rev. 1.2
Chassis 1 C6800-DFC-XL Distributed Forwarding Card 4 EARL 2 sub-module of 1	Chassis 1 C6800-DFC-XL Distributed Forwarding Card 4 Rev. 1.1
Chassis 1 3	Chassis 1 C6800-SUP6T-XL 20 ports Supervisor Engine 6T 10GE w/ CTS Rev. 2.0
Chassis 1 C6800-PFC-XL Policy Feature Card 4 EARL 1 sub-module of 3	Chassis 1 C6800-PFC-XL Policy Feature Card 4 Rev. 1.0
Chassis 1 5	Chassis 1 C6800-48P-TX-XL 48 ports DCEF-XL 48P 10/100/1000MB Ethernet Rev. 1.0
Chassis 1 WS-F6K-DFC4-AXL Distributed Forwarding Card 4 EARL 1 sub-module of 5	Chassis 1 WS-F6K-DFC4-AXL Distributed Forwarding Card 4 Rev. 1.0
Chassis 1 C6807-XL-FAN 1	Chassis 1 C6807-XL Fan Tray 1
Chassis 1 PS 1 C6800-XL-3KW-AC	Chassis 1 AC power supply, 3000 watt 1
Chassis 1 PS 2 C6800-XL-3KW-AC	Chassis 1 AC power supply, 3000 watt 2

Chassis 2 C6807-X	Chassis 2 Cisco Systems, Inc. Catalyst 6807 7-slot Chassis System
Chassis 2 WS-C6K-VTT-E 1	Chassis 2 VTT-E FRU 1
Chassis 2 WS-C6K-VTT-E 2	Chassis 2 VTT-E FRU 2
Chassis 2 WS-C6K-VTT-E 3	Chassis 2 VTT-E FRU 3
Chassis 2 CLK-7600 1	Chassis 2 OSR-7600 Clock FRU 1
Chassis 2 CLK-7600 2	Chassis 2 OSR-7600 Clock FRU 2
Chassis 2 C6800-XL-PS-CONV 1	Chassis 2 C6807 power converter 1
Chassis 2 C6800-XL-PS-CONV 2	Chassis 2 C6807 power converter 2
Chassis 2 1	Chassis 2 C6800-32P10G-XL DCEF2T 8 port 40GE / 32 port 10GE Rev. 1.2
Chassis 2 C6800-DFC-XL Distributed Forwarding Card 4 EARL 1 sub-module of 1	Chassis 2 C6800-DFC-XL Distributed Forwarding Card 4 Rev. 1.2
Chassis 2 C6800-DFC-XL Distributed Forwarding Card 4 EARL 2 sub-module of 1	Chassis 2 C6800-DFC-XL Distributed Forwarding Card 4 Rev. 1.1
Chassis 2 3	Chassis 2 C6800-SUP6T-XL 20 ports Supervisor Engine 6T 10GE w/ CTS Rev. 2.0
Chassis 2 C6800-PFC-XL Policy Feature Card 4 EARL 1 sub-module of 3	Chassis 2 C6800-PFC-XL Policy Feature Card 4 Rev. 1.0
Chassis 2 C6807-XL-FAN 1	Chassis 2 C6807-XL Fan Tray 1

Chassis 2 PS 1 C6800-XL-3KW-AC	Chassis 2 AC power supply, 3000 watt 1
Chassis 2 PS 2 C6800-XL-3KW-AC	Chassis 2 AC power supply, 3000 watt 2

SFP TYPE	Quantity
10Gbase-LR	20
1000BaseLH	7
10Gbase-SR	9
1000BaseSX	10

6.2 Data Centre Switches:

APK DATA Centre

NAME	Description
N9K-C9508	Nexus9000 C9508 (8 Slot) Chassis
N9K-X97160YC-EX	48x10/25G + 4x40/100G Ethernet Module
N9K-X97160YC-EX	48x10/25G + 4x40/100G Ethernet Module
N9K-C9508-FM-E	8-slot Fabric Module
N9K-C9508-FM-E	8-slot Fabric Module
N9K-C9508-FM-E	8-slot Fabric Module
N9K-C9508-FM-E	8-slot Fabric Module
N9K-SUP-B	Supervisor Module
N9K-SC-A	System Controller
N9K-SC-A	System Controller
N9K-PAC-3000W-B	Nexus9000 C9508 (8 Slot) Chassis Power Supply 1
N9K-PAC-3000W-B	Nexus9000 C9508 (8 Slot) Chassis Power Supply 2
N9K-PAC-3000W-B	Nexus9000 C9508 (8 Slot) Chassis Power Supply 3
N9K-PAC-3000W-B	Nexus9000 C9508 (8 Slot) Chassis Power Supply 4
N9K-C9508-FAN	Nexus9000 C9508 (8 Slot) Chassis Fan Module 1
N9K-C9508-FAN	Nexus9000 C9508 (8 Slot) Chassis Fan Module 2
N9K-C9508-FAN	Nexus9000 C9508 (8 Slot) Chassis Fan Module 3

NAME	Description
N9K-C9508	Nexus9000 C9508 (8 Slot) Chassis
N9K-X97160YC-EX	48x10/25G + 4x40/100G Ethernet Module
N9K-X97160YC-EX	48x10/25G + 4x40/100G Ethernet Module
N9K-C9508-FM-E	8-slot Fabric Module
N9K-C9508-FM-E	8-slot Fabric Module
N9K-C9508-FM-E	8-slot Fabric Module
N9K-C9508-FM-E	8-slot Fabric Module
N9K-SUP-B	Supervisor Module
N9K-SC-A	System Controller
N9K-SC-A	System Controller
N9K-PAC-3000W-B	Nexus9000 C9508 (8 Slot) Chassis Power Supply 1
N9K-PAC-3000W-B	Nexus9000 C9508 (8 Slot) Chassis Power Supply 2
N9K-PAC-3000W-B	Nexus9000 C9508 (8 Slot) Chassis Power Supply 3
N9K-PAC-3000W-B	Nexus9000 C9508 (8 Slot) Chassis Power Supply 4
N9K-C9508-FAN	Nexus9000 C9508 (8 Slot) Chassis Fan Module 1
N9K-C9508-FAN	Nexus9000 C9508 (8 Slot) Chassis Fan Module 2
N9K-C9508-FAN	Nexus9000 C9508 (8 Slot) Chassis Fan Module 3

SFP TYPE	Quantity
10Gbase-SR	56
QSFP-100G-AOC25M	4
10Gbase-SR-S	17

6.3 CISCO ACCESS SWITCHES

UJ on Empire Inventory

Summary:

WS-C2960X-48LPS-L	11
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6.4 Huawei Inventory

NB! Service Providers to provide a quotation for the following equipment that will be kept onsite as replacement stock for faulty Huawei and Alcatel switches. To be quoted on a 1- year basis.

6.4.1 20x Huawei S5731-S48P4X include Power supplies, licenses

6.4.2 10x Huawei S5731-S24P4X include Power supplies, licenses

6.4.3 **Huawei Co-Care**

NB! Service Providers to provide a quotation for the renewal of Co-Care Premier over a period of 36 Months on selected Huawei Models specified on the bottom table.

APK Campus

S6730-H24X6C = Distribution	S6730-H24X6C (24*10GE SFP+ ports, 6*100GE QSFP28 ports, without power module)	8
S5731-S48P4X = 48port Access	S5731-S48P4X (48*10/100/1000 Base-T ports, 4*10Ge SFP+ ports, 1*expansion slot, POE+, without power module)	89
S5731-S24P4X = 24 port Access	S5731-S24P4X (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, PoE+, without power module)	10
S5735-L24P4X-A1	S5735-L24P4X-A1 24 x 10/100/1000BASE-T ports, 4 x 10 GE SFP+ ports, POE+, AC Power	1

APB Campus

S6720-30L-HI-24S	2
S6730-H24X6C	3
S5720-52X-PWR-LI-ACF	18
S5720-52X-PWR-SI-ACF	1
S5731-S48P4X	68
S5731-S24P4X	2

DFC Campus

S6730-H24X6C = Distribution	5
S5731-S48P4X = 48port Access	92
S5731-S24P4X = 24 port Access	17

SWC Campus

S5720-28X-PWR-LI-AC	12
S5720-52X-PWR-LI-ACF	2
S5731-S48P4X	63
S6720-26Q-SI-24S-AC	1
S6730-H24X6C	6
S6730-S24X6Q	1

JBS Park Campus

S6730-H24X6C	1
S5731-S48P4X	1
S5731-S24P4X	4

UJ Island

S5731-S48P4X	1
S5731-S24P4X	1

Huawei WLAN - Controller

Model	Quantity
AC6805	7
AC6605	1
AC6508	1

Huawei Optical Transceivers

NB! Do not quote on replacing faulty SFPs, UJ to provide replacement SFPs.

	02318170	OSX010000	Optical Transceiver, SFP+,10G, Single-mode Module (1310nm,10km, LC)	56
	02318169	OMXD30000	Optical Transceiver, SFP+,10G, Multi-mode Module (850nm,0.3km, LC)	80

6.5 Alcatel Equipment

Switches:

NB! In the event of an Alcatel switch becoming faulty and cannot be resuscitated it must be replaced with a Huawei equivalent.

E.g., Alcatel Lucent OS6450P48 equivalent to Huawei S5731-S48P4X

Model	Quantity
OS6860E-U28	1
OS6860E-P24	1
OS6860E-48	2
OS6860E-P48	1
OS6900-X72	1
OS6450-P10	20
OS6450-P24	131
OS6450-P48	284
OS6850E-C48X	20
OS6850E-P48X	25
OS6900-X20	5

OS6900-X40	6
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Modules for Alcatel Core and Distribution Switches:

Model	Quantity
OS-QNI-U3	8

Alcatel Routers

NB! Existing Alcatel ESR routers will be replaced by UJ with Cisco routers. Do not quote on replacing the current models.

Model	Quantity
OA5720	8
OA5850	1

Alcatel WLAN Controllers

NB! Do not quote on replacing the current models.

Model	Quantity
OAW-4550	3
OAW-6000	4

6.6 Monitoring and Management Tools

Type	Product Name	Version
Policy management	ClearPass Policy Manager including ClearPass Insight	6.10.7.187596 on C3000V Platform
Onboarding and Onguard	ClearPass Onboard	6.6.9.35399 on CP-VA-25K platform
Guest Provisioning	ClearPass Guest	6.6.9.35399 on CP-VA-25K platform

7. Service uptime and response requirements

Table A below describe required service response times and service scope

TABLE A:

Service	Area	Time To Respond	Time To Repair	Scope	Comments
Networking and Wi-Fi	Network Cores	1 Hour	4 Hours	Hardware swop, software upgrades, Install, Configurations, and design changes	
	Routers	1 Hour	4 Hours	Hardware replacement and software upgrades.	
	Distribution switches	1 Hour	4 hours	Hardware replacement and software upgrades.	Replacement hardware to be kept at each of the four campuses at all times

	Wi-Fi Controllers	1 Hour	4 Hours	Hardware swop, software upgrades, Install, configurations and design changes	
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Data Centre and Server Access switches	1 Hour	4 hours	Hardware swop, software upgrades, Install, Configurations, and design changes	Replacement hardware to be kept at each of the four campuses at times
ClearPass Server	1 Hours	4 Hours	Software upgrades, Install, configurations and design changes.	
User Access and DR switches	1 Hour	8 Hours	Hardware and software upgrades.	Replacement hardware to be kept at each of the four campuses at times. See 3.15

7.1 Above response times are applicable to all incidences, including network slow responses/performance issues or any service interruptions

7.1.1 Priority Levels

Priority Matrix					
		Severity (Impact)			
		Critical	High	Medium	Low
Urgency	Critical	1	1	2	3
	High	1	2	3	3
	Medium	2	3	3	4
	Low	3	3	4	5

7.1.2 Critical

A core UJ network service is unavailable, causing a direct financial, brand, or security impact on the organization.

- Response time is one (1) hour
- Resolution time four (4) hours

7.1.3 High

A network service is unavailable or degraded, impacting a large group of users.

- Response time is one (1) hour
- Resolution time four (4) hours

7.1.4 Medium

An incident impacting a VIP or a small group of users.

- Response time is one (1) hour
- Resolution time eight (8) hours

7.1.5 Low

A single user incident.

- Response time is one hour
- Resolution time (24) hours

7.1.6 Project proposal/change, design or service request

Anything that is pre-arranged.

- To be agreed by parties involved

8. Mandatory Requirements

8.1 The service provider must be a certified **Cisco Gold Partner and 4 or 5-star Huawei Partner.**

Proof of the required certification must be submitted. **Failure to provide the certification will render the submission invalid and non-compliant.**

8.2 The service provider must be a certified **MOLEX INSTALLER.** Proof of the required certification must be submitted and valid. **Failure to provide the certification will render the submission invalid and non-compliant.**

8.3 This SLA conditions are binding and should not be altered or filtered down.

9. Declaration of sub-contractors:

Please declare if some services will be subcontracted and the relationship you have with the subcontractor in a form of a letter or agreement.

Subcontractor Name	Type of Services	Agreement signed (Y/N)

10. Technical Adjudication

This Tender will be evaluated in two phases:

- Phase 1 – Compliance
- Phase 2 – Functionality
- Phase 3 - Financial and Other

10.1 Phase 2 - Functionality

Point Allocation: Bids will be evaluated and scored against the evaluation criteria set out below. A bid will be disqualified if it does not meet a “minimum rating to qualify” indicated for a criterion.

Disqualifying criteria: No or expired Cisco and Huawei Certificates

Disqualifying criteria: No or expired MOLEX Certified Installer Certificate

Criteria	Sub-criteria	Points
Bidder’s proposal must fully meet UJ requirements for this SLA (bidders must submit a proposal adhering to all UJ requirements, Bill of Quantities and pricing sheet to qualify for the points indicated)	<p>Bidder’s proposal that fully meet UJ requirements, Bill of Quantities, and pricing sheet for this SLA = 40 points</p> <p>Bidder’s proposal that partially meets or does not fully meet UJ requirements, Bill of Quantities and pricing sheet for this SLA = 0 points</p>	40
NETWORKING Bidder’s relevant experience for the assignment (The bidder must attach a signed reference letter with a letterhead from the clients where NETWORK INFRASTRUCTURE services were provided to qualify for the indicated points)	<p>The reference letter must bear the letterhead of the organisation where similar services were provided. UJ reserves the right to contact these organizations, without prior notice to the bidder.</p> <ul style="list-style-type: none"> Bidder with no and or less than two reference letters without similar services = 0 points. Bidder with two reference letters of contracts of similar services = 5 points. Bidder with three reference letters of contracts of similar services = 10 points. Bidder with four or more reference letters of contracts of similar services = 15 points. NB Reference letters must be dated and must not be older than 5 years. 	20
CABLING Bidder’s relevant experience for the assignment (The bidder must attach a signed reference letter with a letterhead from the clients where NETWORK CABLING INFRASTRUCTURE (ie copper structured cabling and fiber) services were provided	<p>The reference letter must bear the letterhead of the organisation where similar services were provided. UJ reserves the right to contact these organizations, without prior notice to the bidder.</p> <ul style="list-style-type: none"> Bidder with no and or less than two reference letters without similar services = 0 points. Bidder with two reference letters of cabling projects = 5 points. Bidder with three reference letters of cabling projects = 10 points. 	20

to qualify for the indicated points-)	<ul style="list-style-type: none"> Bidder with four or more reference letters of cabling of similar services = 15 points. <p>NB Reference letters must be dated and must not be older than 5 years.</p> <p>Type of Work to be declared ie Fibre cabling and Copper cabling</p>	
<p>Experience of bidder's two resources that will be assigned to the SLA:</p> <p>(The bidder must attach Curriculum Vitae (CV's) of the two resources assigned to this SLA and the length of experience for the two resources must meet minimum requirement to qualify for points.</p> <p>Resources must be Huawei and Cisco certified.</p>	<p>The Curriculum Vitae (CV) and relevant experience of the two resources in similar services will be used for allocation of points as follows:</p> <ul style="list-style-type: none"> Huawei and Cisco certified Resources with less than 1 year relevant working experience = 0 points Two Huawei and Cisco certified resources with 1 year relevant working experience = 5 points Two Huawei and Cisco certified resources with 2 years relevant working experience = 10 points Two Huawei and Cisco certified resources with 3 years relevant working experience = 15 points Two Huawei and Cisco certified resources with 4 and more years relevant working experience = 20 points <p>NB:</p> <p>1. UJ reserves the right to verify the authenticity of the certifications.</p> <p>2. Bidders who fail to submit CV's and certifications that meets UJ requirements will be scored zero points.</p>	20
Total points		100

A minimum of 70 points is required by any tenderer before further evaluation. All tenderers who achieve 70 points or more will be evaluated equally in terms of Phase 3.

10.2 Phase 3 - Financial and Other

Price (80 points)

BBBEE (20 points)

11. Pricing Sheet

NB: Please provide detailed itemized cost break down.

11.1 Faulty Huawei and Alcatel Equipment Replacement Stock Per Year

Network Hardware Requirements						
No	Part Number	Model	Description	Qty.	Price per Unit	Total
S5700 Series Access Switches - 48 port						
1	02353AJH-001	S5731-S48P4X	S5731-S48P4X (48*10/100/1000BASE-T ports,4*10GE SFP+ ports, PoE+, without power module)	20		
	License					
2	88035WTE	N1-S57S-M-Lic	S57XX-S Series Basic SW, Per Device	20		
3	88060RUV	N1-S57S-M-SnS	S57XX-S Series Basic SW, SnS, Per Device	20		
	Power					
4	2131727	PAC1000S56-DB	1000W AC Power Module	40		
S5700 Series Access Switches - 24 port						
5	02353AHX-001	S5731-S24P4X	S5731-S24P4X (24*10/100/1000BASE-T ports,4*10GE SFP+ ports, PoE+, without power module)	10		
	License					
6	88035WTE	N1-S57S-M-Lic	S57XX-S Series Basic SW, Per Device	10		
7	88060RUV	N1-S57S-M-SnS	S57XX-S Series Basic SW, SnS, Per Device	10		
	Power					
8	2131727	PAC1000S56-DB	1000W AC Power Module	20		
9		HUAWEI TECHNICAL SUPPORT RENEWAL (CO-CARE RENEWAL)				
9.1	88134UHD	02351YUA-88134UHD-12	AC6805 mainframe (12*GE ports, 12*10GE SFP+ ports, 2*40GE QSFP+ ports, no power)-Co-Care Premier 24x7x4H Service-36 Month(s)	7		
9.2	88134UHD	02352FSG88134UHD-12(M)	S6730-H24X6C (24*10GE SFP+ ports, 6*100GE QSFP28ports, without power module)-Co-Care Premier 24x7x4H Service-36 Month(s)	24		
			SUB TOTAL EXCL. VAT			
			VAT			
			TOTAL INCLUDING VAT			

11.2 Pricing sheet – Maintenance

Year one - Table 1

	QTY-in Months	Monthly Charge	Total
Network Maintenance (including resources, equipment, licenses with vendors, software etc.)	12		
TOTAL EXCL. VAT			
VAT			
TOTAL INCL. VAT			

YEAR one - Table 2

	QTY-in Months	Monthly Charge	Total
Cabling Maintenance (including materials, testing etc.)	12		
TOTAL EXCL. VAT			
VAT			
TOTAL INCL. VAT			

Year TWO - Table 3

	QTY-in Months	Monthly Charge	Total
Network Maintenance (including resources, equipment, licenses with vendors, software etc.) ESCALATION % =	12		
TOTAL EXCL. VAT			
VAT			
TOTAL INCL. VAT			

YEAR TWO - Table 4

	QTY-in Months	Monthly Charge	Total
Cabling Maintenance (including materials, testing etc.) Escalation % =	12		
TOTAL EXCL. VAT			
VAT			
TOTAL INCL. VAT			

Year THREE - Table 5

	QTY-in Months	Monthly Charge	Total
Network Maintenance (including resources, equipment, licenses with vendors, software etc.) ESCALATION % =	12		
TOTAL EXCL. VAT			
VAT			
TOTAL INCL. VAT			

Year THREE - Table 6	QTY-in Months	Monthly Charge	Total
Cabling Maintenance (including materials, testing etc.) Escalation % =	12		
TOTAL EXCL. VAT			
VAT			
TOTAL INCL. VAT			

11.3 Pricing sheet – Summary

Service description	Total
Year one Network Maintenance Pricing – Table 1	R
Year one Cabling Maintenance Pricing – Table 2	R
Faulty Huawei and Alcatel Equipment Replacement Stock (ie Section 11.1) for YEAR 1	R
Year two Network Maintenance Pricing – Table 3	R
Year two Cabling Maintenance Pricing – Table 4	R
Faulty Huawei and Alcatel Equipment Replacement Stock (ie Section 11.1) for YEAR 2	R
Year three Network Maintenance Pricing – Table 5	R
Year three Cabling Maintenance Pricing – Table 6	R
Faulty Huawei and Alcatel Equipment Replacement Stock (ie Section 11.1) for YEAR 3	R
Grand Total Including VAT	R

NOTES :

Escalation percentage to be declared for growth for year 2 and year 3.

CHECKLIST

Requirement	Provided Yes/No	Comments
CISCO Certified Partner - Valid Proof to be provided	Provided Yes/No:	
Huawei Certified Partner - Valid Proof to be provided	Provided Yes/No:	
Molex Certified installer - Valid Certificate indicating company is certified	Provided Yes/No:	
Fully Priced BOQ	Yes/No:	
Comply to all requirements	Yes/No:	
Company to provide CV's and team qualifications relating to the maintenance and support of Cisco and Huawei Equipment	Provided Yes/No:	
Cabling resources – Cabling personnel indicating Molex certificates (Valid) Minimum 4 resources	Provided Yes/No:	
References with contactable contacts details (Networking)	Yes/No:	
Subcontractors declared	Yes/No:	
Signed and accepted terms and conditions	Yes/No:	

