



Independent Communications Authority of South Africa

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Annexure A

Technical Specifications ICASA 10/2018

1. Purpose and Scope

With ICASA Head Office relocating to Centurion there is a need for a Service Provider to supply and install:

1. 800 Network points for Network connectivity (Cat 7 or 8).
2. 10 Gig Fibre (Bend Insensitive Fibre) from each patch room to the main server room.

Delivery time-lines

The network cabling to be completed by no later than 19 October 2018.

2. Specifications

The terms of reference/specifications are attached as Annexure A.

3. Briefing Session

There will be a compulsory briefing session at the new site. Floor layouts will be shared during this briefing session.

4. Evaluation of the Bids

The received bids will be evaluated on the 80/20 procurement principle as per the Supply Chain Management Policy and the relevant Treasury Regulations. The following evaluation approach will be applied:

Functionality Evaluation Criteria	Weights	Scoring Criteria
Provide a minimum of 3 Customer references where similar services have been rendered successfully in the last 2 years. Provide a physical address, contact numbers(s) and email address of references.	30	1 = No response 2 = 1 positive response 3 = 2 positive responses 4 = 3 positive responses 5 = 3+ positive responses
Provide accreditation or an active Certified Optical Fibre Installer Certificate(s).	25	1 = no certification 5 = Relevant certification
Cabling solution to be installed by OEM certified installers – Respondents to provide evidence	25	1 = no certification 5 = Relevant certification
Provide CV of the Project Manager that will be assigned to oversee the implementation and highlighting their experience.	20	1 = no certification 3 = only 1 certification 5 = Relevant certification
Total	100	Minimum threshold is 80

Only bidders who passed the threshold of 80/100 for functionality will be evaluated further for price and BBBEE

ANNEXURE A SCOPE OF WORK

Data Network Points					
Building	Floor	Left	Right	Total	
B	Basement		57	57	114
B	Ground		0	40	40
B	First		57	57	114
C	Basement		57	57	114
C	Ground		57	57	114
C	First		57	57	114
C	Second		57	57	114
Boardrooms Network Points					
No. of Boardrooms		Data Point			
19		4		76	
Assumptions: 4 network points per boardroom					
Cable Colours					
	Cabling	Patch leads – 1m	Fly leads - 3m	Total	
Data points	Grey	Grey	Grey	660	
Access Control	Blue	Blue	Blue	80	
Video	Red	Red	Red	40	
Wireless Access	Grey	Green	Green	20	

Grand Total Number of Network Points			800
Additional Requirements			
Brush Panel			40
Patch Panel - 48 ports			26
Floor Pedestal Data Flush Mount Outlet			496
Fibre requirements (Dual link)			
<i>Link</i>	<i>Building</i>	<i>Floor (LT = Left RT = Right)</i>	
Block B Server room	Block B	Ground Floor LT	
		Ground Floor RT	
		1st Floor LT	
		1st Floor RT	
	Block C	Ground Floor LT	
		Ground Floor RT	
		1st Floor LT	
		1st Floor RT	

Mandatory Requirements

Bidder must be a manufacturer or an authorised partner having direct purchase & support with original equipment manufacturer (OEM)

Fibre Cabling:

- Required cabling standard is EIA/TIA 586C, EN50173+4, IEC60793+4, IEC60874, ISO 11801, ITU-T G.65x, LSZH
- Required installation standard is OEM-certified EIA/TIA, BICSI
- The Distance from point A to point B is the required meters including 10 % contingency
- Service Provider to complete Site Visit and determine their requirements of Fibre Cabling and other consumables
- Service Provider to include cost for:
- OM4 SC-SC Duplex Midcouplers
- Splice organizers
- OM4 SC 1 Meter unjacketed pick tails
- Electronic Fusion splice with splice protector
- Optical Time Domain Reflection Test (printed result)
- Labelling of Fibres
- Consumables
- 4 Core to be spliced at Each Cabinet
- Test: End to End test showing total loss on link
- Test: OTDR Test indicating quality of joints

- Documentation indicating that the test results are of an acceptable standard

UTP Cabling:

- Required cabling standard is EIA/TIA 586C, EN50173+4, IEC60793+4, IEC60874, ISO 11801, ITU-T G.65x, LSZH
- Required installation standard is OEM-certified EIA/TIA, BICSI
- Cabling is under floor as the building has a risen floor.
- Floor Pedestal Data Flush Mount Outlet
- Labelling Both Ends (Patch Panel and Outlet)
- Test: End to End per each point
- All cabling installation must be tested according to the OEM and industry standard.
- Solution (installation) must be certified by the cable OEM prior to acceptance and commissioning. The successful service provider is responsible for obtaining certification.

Service Provide must provide a structured Network Cable Structured Design / Layout

1. Site Wire Layout Diagram