KENYA REVENUE AUTHORITY

ISO 9001:2008 CERTIFIED

17th February, 2017

KRA /HQS/NCB/-035/2016-2017: PROVISION OF NETWORK CONNECTIVITY SERVICES BETWEEN LUNGALUNGA & HOROHORO ONE STOP BOARDER POSTS (OSBPS)

To all bidders,

RE: ADDENDUM/CLARIFICATIONS FOR THE ABOVE TENDER.

1. The router specifications have been amended to incorporate immediate support for voice as per the attached specs (**APPENDIX I**).
2. Layout and fiber end points sketch for inter-OSBP connectivity is as per the attached (**APPENDIX II**);
3. Distributions of data points at both Horohoro OSBP facility and LungaLunga OSBP facility as per attached (**APPENDIX III**)
4. All UTP cables required **MUST** be a minimum category CAT 6e.
5. Additional fiber (4-core) connectivity between the Ground floor cabinet and the IT Kenya Room will be required.
6. On Lot I, Price Schedule, item No.1, pg 47 of the tender document; the required fiber is 8-core instead of 6-core armored cable.
7. On Lot I, Price Schedule, item No.15, pg 47 of the tender document; the required number of 32U free standing cabinets are five(5) instead of ten(10) as indicated in the tender document.
8. On Lot II, Price Schedule, item No. 6, pg 49 of the tender document, the number of 24-port patch panels required is one(1) instead of ten(10) as indicated in the tender document.

The addendum form part of the bidding document and is binding on all bidders. All other terms and conditions of the tender remain the same. Bidders who have already purchased/downloaded the bidding document are required to immediately acknowledge the receipt of this addendum

Benson Kiruja
For: Deputy Commissioner –P&SS

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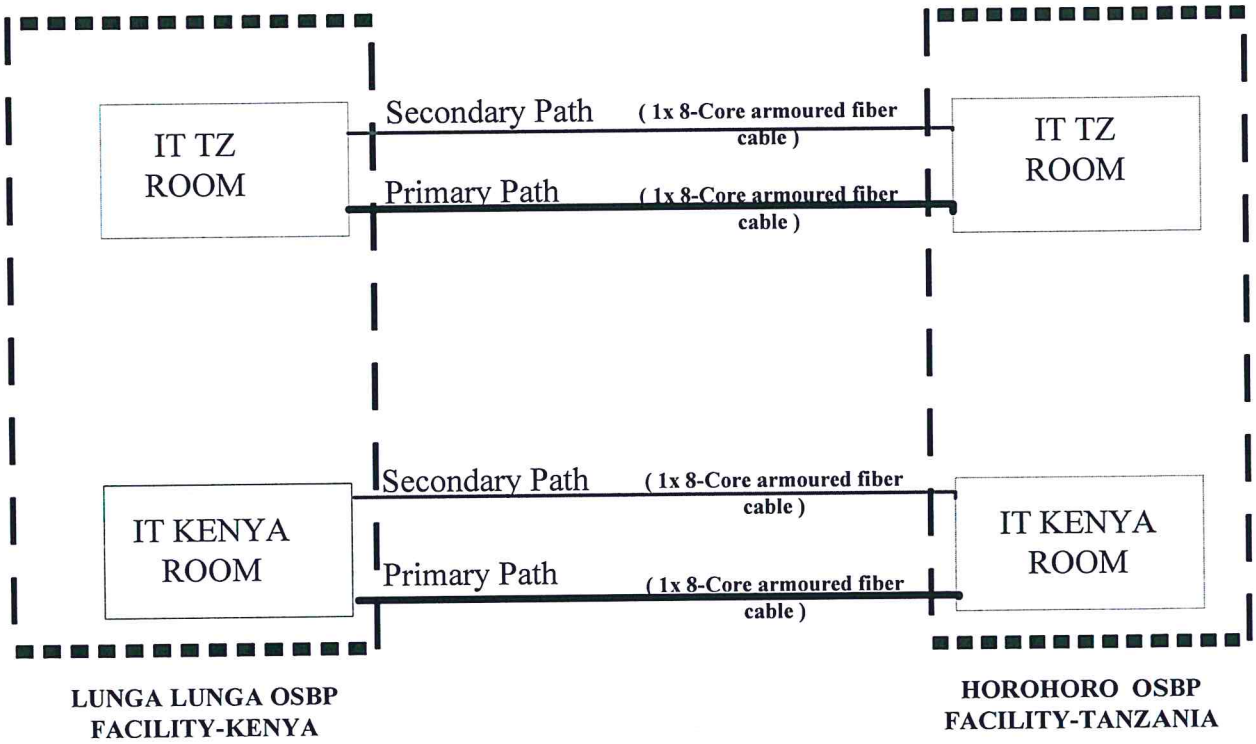
APPENDIX I: ROUTER SPECIFICATIONS

	Features	Minimum Requirements	Bidder's Response
1.	General Descriptive Requirement	Integrated Services Router (ISR) that delivers highly secure data, voice, video, and application service	
2.	Model/Brand	Internationally recognized tested mature brand/model.	
3.	Processor	High-performance multi-core processors that supports high-speed WAN and multiple concurrent services.	
4.	DRAM	512 MB, expandable to 2GB	
5.	Flash memory modules	Internal : at least 256 MB upgradable to 8GB	
		External : at least 256MB upgradable to 8GB	
6.	Onboard LAN standards	At least three (3) Integrated WAN 10/100/1000 Ports that support up to 75Mbps	
		IEEE 802.3 CSMA/CD or Ethernet	
		IEEE 802.3u 100Mbps(Fast Ethernet)	
7.	Interface card slots	4 slots each for support of EHWIC, HWIC, WIC, VIC, VWIC, wireless LAN controllers, 2 x Onboard DSP (PVDM) Slots. The router **MUST** be populated with voice expansion modules , 64-channel high-density voice DSP module and Four-port Voice Interface Card - FXO (Universal)	
8.	Software IOS release	Should be delivered with the latest version and supported IOS release running capable of supporting Gigabit Ethernet EHWIC. The provided IOS ***MUST*** be installed with the ***initial product activated license*** that supports advanced IP services i.e. Data, Unified Communications and Security (SEC).	
9.	Remote Management Protocol	Support SNMP 3, HTTP, SSH-2	
10	Module support	Enhanced network modular slots	
		High performance WIC slots	
		AIM slots	
		PVDM slots	
		EVM slots	
		USB support	
11	Security	Firewall software support	

	Features	Minimum Requirements	Bidder's Response
		Secure Sockets Layer support	
		Network Admission control support	
		Intrusion prevention system support	
		Support Identity management using AAA and PKI	
12	VPN support	VPN hardware acceleration, DES, 3DES, AES128, AES192 and AES256, support IPSEC Pass-thru	
13	Wireless support	Support for WLAN connectivity – 802.11 b/g, 802.11 a/b/g HWIC access point interface card	
		Wireless infrastructure services support, integrated switch modules with PoE enable support, mobility for clients from WLAN to cellular networks	
		Land Mobile Radio (LMR) over IP support	
14	Transmission mode	Full/half duplex	
15	Power integration	In-line PoE	
16	Interfaces	Universal-Serial-Bus (USB)-Based Console Access port with its console cable	
		Auxiliary port	
		2 Serial interfaces	
		1 USB port	
17	Power input	240 V AC, 50 Hz	
18	Voice Protocols	SIP per RFC 3261, RTP/RTCP for delivery of voice	
19	Voice support	G 711 u-law or A-law, G 723.1, G 729AB	
20	Warranty and Support	At least 3 years on parts, labour and software In addition, the equipment ***MUST*** include the manufacturer's premier technical support services including: Accelerated hardware replacement options, Operating system updates, Access to Manufacturer's technical assistance team, Online troubleshooting / support tools and proactive problem diagnosis services.	

APPENDIX II: LAYOUT AND FIBER END POINTS SKETCH

PROPOSED FIBER TERMINATION LAYOUT SKETCH



APPENDIX III: Data Points Distribution.

Lunga Lunga OSBP Facility

No	Location	Number of Data Points	Description
1	Baggage Hall-Main Block	6	To be terminated at IT TZ room , TRA cabinet
2	Customs_TZ - Office,1st Floor	4	To be terminated at IT TZ room , TRA cabinet
3	X-Ray Block	12	To be terminated at X-ray KRA office Cabinet

Horohoro OSBP Facility

No	Location	Number of Data Points	Description
1	Baggage Hall -Ground Floor	8	To be terminated at IT KE room , KRA cabinet
2	Counter, Ground Floor	2	To be terminated at IT KE room , KRA cabinet
3	Cashier-KE, Ground Floor	2	To be terminated at IT KE room , KRA cabinet
4	Customs KRA Enforcement Office	2	To be terminated at IT KE room , KRA cabinet
5	Other Government Agencies (OGAs) Offices, Ground Floor	4	To be terminated at IT KE room , OGA cabinet