

EMBASSY OF THE UNITED STATES OF AMERICA P.O. BOX 606 - 00621, VILLAGE MARKET NAIROBI, KENYA

August 28, 2017

Dear Prospective Offeror,

<u>SUBJECT: REQUEST FOR QUOTATION REF. NO. PR6569038 - NAIROBI</u> WIRELESS UPGRADE PROJECT

The Embassy of the United States of America, Nairobi, invites you to submit a quotation for Supply and Delivery of Cisco Switches as per the Specifications in the Scope of Work section attached to this letter.

The U.S. Government intends to award a Purchase Order to a responsible company submitting an acceptable quotation at a reasonable price. The RFQ does not commit the American Embassy to make any award. The Embassy may cancel this RFQ or any part of it.

Your proposal must be submitted in two separate sealed envelopes as follows;

- 1. RFQ No. <u>PR6569038 FINANCIAL PROPOSAL:</u> This entails the price quotation (Must have the Company Letter Head or Company Stamp/ Seal including your quotation Reference Number).
- 2. RFQ No. PR6569038 TECHNICAL PROPOSAL: (Must not have your Letter Head or Company Stamp/Seal i.e. it should be on plain paper). Your quotation reference number is required on this which matches the price proposal number)

This should be submitted on or before Tuesday, September 12th 2017 addressed to;

The Contracting Officer, America Embassy through NairobiGSO-bids@state.gov With a copy to SangaGM@state.gov

The U.S. Government intends to award a purchase order to the responsible vendor submitting a technically acceptable quote with the lowest price, based on initial quotations without holding discussions, although we may hold discussions with companies in the competitive range if there is a need to do so. Prior to contract award, the successful offeror(s) will be required to have a DUNS number and be registered in SAM/COR through the following sites: DUNS – www.dnb.com and SAM/CCR www.sam.gov.

Direct any questions regarding this solicitation to the **Contracting Officer**, **Nairobi** NairobiGSO-bids@state.gov and SangaGM@state.gov during regular business hours

Sincerely,

Wendy Washington Contracting Officer

Scope of Work - Minimum Essential Characteristics Network Wireless Access points

Quantities: 10

Must support all 802.11n version 2.0 (and related) capabilities

Must support all 802.11ac Wave 1 capabilities

Must support all 802.11ac Wave 2 capabilities

Must have External antenna

Must have the following Interfaces

- 2802I/E
- 2x100/1000BASE-T autosensing (RJ-45)
- Management console port (RJ-45)
- USB 2.0

Must have the following Indicators

• Status LED indicates boot loader status, association status, operating status, boot loader warnings, boot loader errors

Must have the following Dimensions (W x L x H)

Access point (without mounting brackets): 2802I: 8.66" x 8.68" x 2.17", 2802E: 8.66" x 8.77" x 2.50"

Must have the following Input power requirements

• 802.3at PoE+,

• 802.3at power injector (120/240w)

The power draw must be in this order

- 26W at the PSE (22.6W at the PD) with all features enabled except for the USB 2.0 port
- 30W at the PSE (25.5W at the PD) with the USB 2.0 port enabled

Must have following System memory

- 1024 MB DRAM
- 256 MB flash

Must have the following warranty

Limited lifetime hardware warranty

3 years software and support warranty

Must have the following frequency available

2.4 GHz

- 23 dBm (200 mW)
- 20 dBm (100 mW)
- 17 dBm (50 mW)
- 14 dBm (25 mW)
- 11 dBm (12.5 mW)
- 8 dBm (6.25 mW)
- 5 dBm (3.13 mW)

• 2 dBm (1.56 mW)

5 GHz

- 23 dBm (200 mW)
- 20 dBm (100 mW)
- 17 dBm (50 mW)
- 14 dBm (25 mW)
- 11 dBm (12.5 mW)
- 8 dBm (6.25 mW)
- 5 dBm (3.13 mW)
- 2 dBm (1.56 mW)

Frequency band and 20-MHz operating channels must be E (E regulatory domain (Kenya)) with the following specifications

- 2.412 to 2.472 GHz; 13 channels
- 5.180 to 5.320 GHz; 8 channels
- 5.500 to 5.700 GHz; 8 channels

(Excludes 5.600 to 5.640 GHz)

Must meet and support the following wireless standards at minimum

- IEEE standards:
- IEEE 802.11a/b/g, 802.11n, 802.11h, 802.11d
- IEEE 802.11ac

- Security standard
- 802.11i, Wi-Fi Protected Access 2 (WPA2), WPA
- 。 802.1X
- Advanced Encryption Standards (AES)
- Extensible Authentication Protocol (EAP) types:
- EAP-Transport Layer Security (TLS)
- EAP-Tunneled TLS (TTLS) or Microsoft Challenge Handshake Authentication Protocol Version 2 (MCSHAPv2)
- Protected EAP (PEAP) v0 or EAP-MSCHAPv2
- EAP-Flexible Authentication via Secure Tunneling (FAST)
- PEAP v1 or EAP-Generic Token Card (GTC)
- EAP-Subscriber Identity Module (SIM)
- Multimedia:
- Wi-Fi Multimedia (WMM)
- Other:
- FCC Bulletin OET-65C
- · RSS-102

Must support the following Data rates

802.11b: 1, 2, 5.5, and 11 Mbps

802.11a/g: 6, 9, 12, 18, 24, 36, 48, and 54 Mbps

802.11n HT20: 6.5 to 216.7 Mbps (MCS0 to MCS23)

802.11n HT40: 13.5 to 450 Mbps (MCS0 to MCS23)

802.11ac VHT20: 6.5 to 288.9 Mbps (MCS0 to 8-SS 1, MCS0 to 9-SS 2 and 3)

802.11ac VHT40: 13.5 to 600 Mbps (MCS0 to 9 – SS 1 to 3)

802.11ac VHT80: 29.3 to 1300 Mbps (MCS0 to 9 – SS 1 to 3)

802.11ac VHT160: 58.5 to 2304 Mbps (MCS0 to 9 - SS 1 and 2, MCS0 to 8 - SS 3)

Must have 3 years 7x24 hardware and software support

Must be compatible with the wireless controller with the below characteristics

Must support the following wireless specifications IEEE 802.11a, 802.11b, 802.11g, 802.11d, WMM/802.11e, 802.11h, 802.11n, 802.11k, 802.11r, 802.11u, 802.11w, 802.11ac Wavel and Wave2

Must support Wired/switching/routing IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX specification, and 1000BASE-T, 1000BASE-SX, 1000-BASE-LH, IEEE 802.1Q VLAN tagging, IEEE 802.1AX Link Aggregation

Must meet the following Data request for comments (RFC) specifications

- RFC 768 UDP
- RFC 791 IP
- RFC 2460 IPv6
- RFC 792 ICMP
- RFC 793 TCP
- RFC 826 ARP
- RFC 1122 Requirements for Internet Hosts
- RFC 1519 CIDR
- RFC 1542 BOOTP
- RFC 2131 DHCP
- RFC 5415 CAPWAP Protocol Specification
- RFC 5416 CAPWAP Binding for 802.11

Must meet the following Security standards

- Wi-Fi Protected Access (WPA)
- IEEE 802.11i (WPA2, RSN)
- RFC 1321 MD5 Message-Digest Algorithm
- RFC 1851 ESP Triple DES Transform
- RFC 2104 HMAC: Keyed Hashing for Message Authentication
- RFC 2246 TLS Protocol Version 1.0
- RFC 2401 Security Architecture for the Internet Protocol
- RFC 2403 HMAC-MD5-96 within ESP and AH
- RFC 2404 HMAC-SHA-1-96 within ESP and AH
- RFC 2405 ESP DES-CBC Cipher Algorithm with Explicit IV
- RFC 2407 Interpretation for ISAKMP
- RFC 2408 ISAKMP
- RFC 2409 IKE
- RFC 2451 ESP CBC-Mode Cipher Algorithms
- RFC 3280 Internet X.509 PKI Certificate and CRL Profile
- RFC 4347 Datagram Transport Layer Security
- RFC 5426 TLS Protocol Version 1.2

Must support the following encryptions

- Wired Equivalent Privacy (WEP) and Temporal Key Integrity Protocol-Message Integrity Check (TKIP-MIC): RC4 40, 104 and 128 bits (both static and shared keys)
- Advanced Encryption Standard (AES): Cipher Block Chaining (CBC), Counter with CBC-MAC (CCM), Counter with Cipher Block Chaining Message Authentication Code Protocol (CCMP)
- Data Encryption Standard (DES): DES-CBC, 3DES
- Secure Sockets Layer (SSL) and Transport Layer Security (TLS): RC4 128-bit and RSA 1024- and 2048-bit
- DTLS: AES-CBC
- IPsec: DES-CBC, 3DES, AES-CBC
- 802.1AE MACsec encryption

Must have the ability support following Authentication, authorization, and accounting (AAA)

- IEEE 802.1X
- RFC 2548 Microsoft Vendor-Specific RADIUS Attributes
- RFC 2716 PPP EAP-TLS
- RFC 2865 RADIUS Authentication
- RFC 2866 RADIUS Accounting

- RFC 2867 RADIUS Tunnel Accounting
- RFC 2869 RADIUS Extensions
- RFC 3576 Dynamic Authorization Extensions to RADIUS
- RFC 5176 Dynamic Authorization Extensions to RADIUS
- RFC 3579 RADIUS Support for EAP
- RFC 3580 IEEE 802.1X RADIUS Guidelines
- RFC 3748 Extensible Authentication Protocol (EAP)
- Web-based authentication
- TACACS support for management users

Must have the following Management abilities

- Simple Network Management Protocol (SNMP) v1, v2c, v3
- RFC 854 Telnet
- RFC 1155 Management Information for TCP/IP-Based Internets
- RFC 1156 MIB
- RFC 1157 SNMP
- RFC 1213 SNMP MIB II
- RFC 1350 TFTP
- RFC 1643 Ethernet MIB
- RFC 2030 SNTP
- RFC 2616 HTTP
- RFC 2665 Ethernet-Like Interface Types MIB
- RFC 2674 Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering, and Virtual Extensions
- RFC 2819 RMON MIB
- RFC 2863 Interfaces Group MIB
- RFC 3164 Syslog
- RFC 3414 User-Based Security Model (USM) for SNMPv3
- RFC 3418 MIB for SNMP
- RFC 3636 Definitions of Managed Objects for IEEE 802.3 MAUs

Must support Web-based: HTTP/HTTPS

Must support Command-line interface: Telnet, Secure Shell (SSH) Protocol, serial port

Must have the following interfaces

• 2 x 1 Gigabit Ethernet interfaces

- Small Form-Factor Pluggable Plus (SFP+)
- Small Form-Factor Pluggable (SFP)
- 1 x service port: 1 Gigabit Ethernet port (RJ-45)
- 1 x redundancy port: 1 Gigabit Ethernet port (RJ-45)
- 1 x Integrated Management Controller port: 10/100/1000 Ethernet (RJ-45)
- 1 x console port: Serial port (RJ-45)
- LED indicators: Network Link, Diagnostics

Must meet the following Physical dimensions

- Dimensions (WxDxH): 18.98 x 30.98 x 1.70 in. (48.2 x 78.7 x 4.32 cm) including handles
- Weight: 30 lb. (13.6 kg) with 1 power supply

Must meet the following Environmental conditions

Air temperature:

- Appliance operating: 41° to 104°F (5° to 40°C), derate the maximum temperature by 1.0°C per every 1000 ft. (305m) of altitude above sea level
- Appliance nonoperation: -40° to 149°F (-40° to 65°C)

Humidity:

- Appliance operating: 10% to 90%; noncondensing at 82°F (28°C)
- Appliance nonoperation: 5% to 93% at 82°F (28°C)

Altitude:

- Appliance operating: 0 to 3000m (0 to 10,000 ft.)
- Appliance nonoperation: 0 to 12,192m (0 to 40,000 ft.)

Must meet the following Electrical input:

- AC input frequency range: 47 to 63 Hz
- Input voltage range:
 - Minimum: 90 VAC
 - Maximum: 264 VAC
 - Maximum Power 190W
- Input kilovolt-amperes (kVA), approximately:
- o minimum: 0.090 kVA
- o maximum: 0.700 kVA
- Heat dissipation: 650 BTU/hr
- Sound power level measure:
 - A-weighted per ISO 7779 LpAm (dBA), operation at 77°F (25°C): 49.3

Delivery Address

Delivery shall be at either of the below two location options depending on the vendor's address i.e.

- i. Option 1 American Embassy Nairobi, Nairobi, Kenya
- ii. Option 2 American Embassy Nairobi, North Brunswick, NJ 08902

CLAUSES FOR PURCHASE ORDERS AND BLANKET PURCHASE AGREEMENTS AWARDED BY OVERSEAS CONTRACTING ACTIVITIES (Current thru FAC 2005-95)

NON-COMMERCIAL ITEMS

FAR 52.252-2 CLAUSES INCORPORATED BY REFERENCE (FEB 1998)

This purchase order or BPA incorporates the following clauses and provisions by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this address: http://acquisition.gov/far/index.html.

DOSAR clauses may be accessed at: http://www.statebuy.state.gov.

FEDERAL ACQUISITION REGULATION (48 CFR Ch. 1) CLAUSES:

NUMBER	TITLE	DATE
52.204-6	DATA UNIVERSAL NUMBERING SYSTEM (DUNS)	JUL 2013
	NUMBER	
52.204-7	SYSTEM FOR AWARD MANAGEMENT	JUL 2013
52.204-9	PERSONAL IDENTITY VERIFICATION OF	JAN 2011
	CONTRACTOR PERSONNEL [If contractor requires	
	physical access to a Federally-controlled facility or	
	access to a Federal information system.]	
52.213-2	INVOICES [If order is for subscriptions with advance	APR 1984
	payments.]	
52.213-4	TERMS AND CONDITIONS – SIMPLIFIED	JAN 2017
	ACQUISITIONS (OTHER THAN COMMERCIAL	
	ITEMS)	
52.217-6	OPTION FOR INCREASED QUANTITY [If order	MAR 1989
	contains options where the quantity is expressed as a	
	percentage of the basic order quantity or as an	
	additional quantity of a specific line item.]	
52.217-8	OPTION TO EXTEND SERVICES [If order is for	NOV 1999
	services and contains options.]	
52.217-9	OPTION TO EXTEND THE TERM OF THE	MAR 2000
	CONTRACT [If order is for services and contains	
	options). Fill-in for paragraph (a): "the performance	
	period of the order or within 30 days after funds for the	
	option become available, whichever is later"; fill-in for	
	paragraph (c): (insert time frame).]	
52.222-50	COMBATING TRAFFICKING IN PERSONS	MAR 2015
	Alternate I (AUG 2007) [Applies when notified of	
	specific U.S. directives or notices regarding trafficking	
	in persons.]	
52.223-18	ENCOURAGING CONTRACTOR POLICIES ON	AUG 2011

	BANNING TEXTING WHILE DRIVING	
52.225-14	INCONSISTENCY BETWEEN ENGLISH VERSION	FEB 2000
	AND TRANSLATION OF CONTRACT [If a	
	translation of the contract is attached.]	
52.225-19	CONTRACTOR PERSONNEL IN A DESIGNATED	FEB 2016
	OPERATIONAL AREA OR SUPPORTING A	
	DIPLOMATIC OR CONSULAR MISSION OUTSIDE	
	THE UNITED STATES [Applies to services at danger	
	pay posts only.]	
52.227-14	RIGHTS IN DATA – GENERAL [If order involves the	MAY 2014
	production, furnishing or acquiring of data.]	
52.227-17	RIGHTS IN DATA – SPECIAL WORKS [If order is for	DEC 2007
	the compilation or production of data for the	
	Government's own use.]	
52.228-3	WORKERS' COMPENSATION INSURANCE	JUL 2014
	(DEFENSE BASE ACT) [If order is for services and	
	contractor employees are covered by DBA insurance.]	
52.228-4	WORKERS' COMPENSATION AND WAR-HAZARD	APR 1984
	INSURANCE OVERSEAS [If order is for services and	
	contractor employees are not covered by DBA	
	insurance.]	
52.232-24	PROHIBITION OF ASSIGNMENT OF CLAIMS	MAY 2014
52.232-36	PAYMENT BY THIRD PARTY (31 U.S.C. 3332). [If	MAY 2014
	payment will be made by a third party, e.g., purchase	
	card.]	
52.233-1	DISPUTES Alternate I (DEC 1991)	MAY 2014
52.237-2	PROTECTION OF GOVERNMENT BUILDINGS,	APR 1984
	EQUIPMENT AND VEGETATION [For services to be	
	performed on USG installations.]	
52.237-11	ACCEPTING AND DISPENSING OF \$1 COIN [For	SEP 2008
	services that involve business operations conducted in	Contraction of the contraction o
	U.S. coin and currency, including vending machines.]	
52.242-17	GOVERNMENT DELAY OF WORK [For supplies.]	APR 1984
52.243-1	CHANGES – FIXED PRICE [52.243-1 for supplies.]	AUG 1987
	Alternate *I (APR 1984) [*for services]	APR 1984
52.245-1	GOVERNMENT PROPERTY [If the Department will	APR 2012
	provide Government property to the contractor.]	
52.247-35	F.O.B. DESTINATION, WITHIN CONSIGNEE'S	APR 1984
	PREMISES [for supplies requiring inside delivery]	The state of the s

DEPARTMENT OF STATE ACQUISITION REGULATION (DOSAR) CLAUSES (48 CFR Ch. 6):

NUMBER	TITLE	DATE
652.229-70	EXCISE TAX EXEMPTION STATEMENT FOR	JUL 1988

	CONTRACTORS WITHIN THE UNITED STATES	
	[for supplies to be delivered to an overseas post]	
652.229-71	PERSONAL PROPERTY DISPOSITION AT POSTS	AUG 1999
	ABROAD	
652.237-72	OBSERVANCE OF LEGAL HOLIDAYS AND	APR 2004
	ADMINISTRATIVE LEAVE [for services where	
	performance will be on-site in a Department of State	
	facility]	
652.239-71	SECURITY REQUIREMENTS FOR UNCLASSIFIED	SEP 2007
	INFORMATION TECHNOLOGY RESOURCES [for	
	orders that include information technology resources or	
	services in which the contractor will have physical or	
	electronic access to Department information that	
	directly supports the mission of the Department]	
652.242-70	CONTRACTING OFFICER'S REPRESENTATIVE [if	AUG 1999
	a COR will be named for the order, fill-in for	
	paragraph b: "The COR is".]	
652.247-71	NOTICE OF SHIPMENTS [for overseas shipment of	FEB 2015
	supplies]	
652.242-73	AUTHORIZATION AND PERFORMANCE	AUG 1999
652.243-70	NOTICES	AUG 1999

The following clause is provided in full text, and is applicable for orders for services that will require contractor employees to perform on-site at a DOS location and/or that require contractor employees to have access to DOS information systems:

652.204-70 DEPARTMENT OF STATE PERSONAL IDENTIFICATION CARD ISSUANCE PROCEDURES (MAY 2011)

- (a) The Contractor shall comply with the Department of State (DOS) Personal Identification Card Issuance Procedures for all employees performing under this contract who require frequent and continuing access to DOS facilities, or information systems. The Contractor shall insert this clause in all subcontracts when the subcontractor's employees will require frequent and continuing access to DOS facilities, or information systems.
- (b) The DOS Personal Identification Card Issuance Procedures may be accessed at http://www.state.gov/m/ds/rls/rpt/c21664.htm.

(End of clause)