

Bidding Document

PROVISION, INSTALLATION, COMMISSIONING OF FIBER OPTIC AND NETWORK SWITCHING EQUIPMENT AND ROUTERS

Last Date for Submission:	09th August, 2018 at 3:00 P.M.
Tender Opening Date:	09th August, 2018 at 3:30 P.M.

Description of Work

1.1 INTRODUCTION

The Bank of Khyber (BoK) intends to deploy Fiber Optic and install Network Switching equipment at all the Divisions / departments / floors of the Head Office SLIC building, Peshawar. And Routers are required for IT Data Centre and Karachi office.

The Bank of Khyber (BOK) invites sealed proposals i.e. Technical and Financial on **Single Stage Two Envelope Procedure** for the Provision, Installation and Commissioning of Networking Switching equipment at its Head Office, situated at SLIC building Peshawar and Routers for IT Data Centre and Karachi office.

1.2 SCOPE OF WORK

Supply and installation of Fiber Optic and Network Switching Equipment at Bank of Khyber Head Office building Peshawar. And Routers for IT Data Centre and Karachi office. Scope of work is as follows: -

1. The selected bidder will be responsible for the supply, installation, Integration, testing and commissioning of all equipment and services, provided in this Tender.
2. Selected bidder must ensure that the supplied equipment is fully operational, new and performs properly.
3. At the time of installation and commissioning, selected bidder must provide comprehensive documentation of system/equipment deployed including system manuals, diagrams, labeling, training and training manuals etc.

1.3 TECHNICAL REQUIREMENTS

Required items and their specifications are as follows: -

SNO	ITEM	REQUIRED SPECIFICATIONS	
1	Core Switch	QTY=2	
		Interfaces	24 x 10GbE SFP+ ports
		Switching Capacity	480 Gbps or more
		Memory	RAM 2 GB Minimum , FLASH Memory 2 GB Minimum
		Total VLAN	4000 or more , jumbo frames 9200 Bytes or more
		Layer 2 Features	With Full layer 2 features
		Layer 3 Features	With Full Layer-3 features
		Routing Protocols	OSPFv4/v6, PIM-SM/SSM/DM, IGMP v1/v2/v3 and VRF-Lite, IS-IS and BGP
			QOS: Layer 2 QoS, Layer 3 QoS, Ingress policing, Scheduling methods (egress): Strict Priority (SP), 802.1p, DSCP /IP precedence trust and marking
			L2-L4 classification criteria: Interface, MAC address, Ethertype, 802.1p, VLAN, IP address, DSCP/IP precedence, TCP/UDP port numbers
			With security features includes AC limiting, Proxy ARP, Static ARP support, 802.1X port-based, 802.1X with VLAN assignment, 802.1X with VoIP VLAN

			support, 802.1X dynamic ACL based on RADIUS attributes, Trusted Network Connect (TNC) certified, Static MAC authentication, MAC-RADIUS
		USB Ports	With USB Ports and Rack mounting kit
		Warranty/Support	With 03 years warranty and OS updates
2	Access Switch	QTY=15	
		Interfaces	24 Port 10/100/1000 Base T along with 10GBE (4 Ports)
		Throughput	56 Gbps
		CPU Memory	512 MB
		Flash	256 MB
		Maximum MAC addresses per system	16,000
		Jumbo frames	9,216 Bytes
		Number of VLANs supported	4,096
		Other Features	Port-based VLAN
			Voice VLAN
			Compatible with Per-VLAN Spanning Tree Plus (PVST+)
			IEEE 802.1AB: Link Layer Discovery Protocol (LLDP)
			IPv4 and IPv6 support
			802.1X port-based
			802.1X with VLAN assignment
			SSH
			SSL
			IP/MAC/Port Binding
			IP source Guard
			DHCP snooping
			Multicast
			SNMP v1 v2 v3
			Web User Interface
		Warranty/Support	With 03 years warranty and OS updates.
3	SFP+ Transceiver Modules	QTY=18	
		10G SFP Transceiver	10G SFP+ transceiver, 850-nm wavelength for multimode fiber, For distances up to 300 meters
4	Optical Fiber Connectivity	QTY=18	10 meters OF patch cord
5	ODF	ODF = 12	6 port ODF with 2 x SC couplers per ODF
		Splicing = 24	Complete deployment of Optical Fiber termination at ODF
6	Routers	Quantity = 4	
		Aggregate Throughput	500 Mbps to 1 Gbps
		Total onboard WAN or LAN 10/100/1000 ports(default)	3
		RJ-45-based 10/100/1000 ports(additional ports)	4

		NIM slots	2
		OIR (all I/O modules)	Yes
		Onboard ISC slot	1
		Flash memory	4 GB
		DRAM memory	4 GB
		External USB 2.0 slots (type A)	2
		USB console port - type B mini (up to 115.2 kbps)	1
		Serial console port - RJ45 (up to 115.2 kbps)	1
		Serial auxiliary port - RJ45 (up to 115.2 kbps)	1
		Protocols	IPv4, IPv6, static routes, Routing Information Protocol Versions 1 and 2 (RIP and RIPv2), Open Shortest Path First (OSPF), Enhanced Interior Gateway Routing Protocol (EIGRP), Border Gateway Protocol (BGP), BGP Router Reflector, Intermediate System-to-Intermediate System (IS-IS), Multicast Internet Group Management Protocol Version 3 (IGMPv3), Protocol Independent Multicast sparse mode (PIM SM), PIM Source-Specific Multicast (SSM), Resource Reservation Protocol (RSVP), Cisco Discovery Protocol, Encapsulated Remote Switched Port Analyzer (ERSPAN), Cisco IOS IP Service-Level Agreements (IPSLA), Call Home, Cisco IOS Embedded Event Manager (EEM), Internet Key Exchange (IKE), access control lists (ACL), Ethernet Virtual Connections (EVC), Dynamic Host Configuration Protocol (DHCP), Frame Relay (FR), DNS, Locator ID Separation Protocol (LISP), Overlay Transport Virtualization (OTV),[5] Hot Standby Router Protocol (HSRP), RADIUS, authentication, authorization, and accounting (AAA), Application Visibility and Control (AVC), Distance Vector Multicast Routing Protocol (DVMRP), IPv4-to-IPv6 Multicast, MPLS, Layer 2 and Layer 3 VPN, IPsec, Layer 2 Tunneling Protocol Version 3 (L2TPv3), Bidirectional Forwarding Detection (BFD), IEEE 802.1ag, and IEEE 802.3ah
		Encapsulations	Generic routing encapsulation (GRE), Ethernet, 802.1q VLAN, Point-to-Point Protocol (PPP), Multilink Point-to-Point Protocol (MLPPP), Frame Relay, Multilink Frame Relay (MLFR) (FR.15 and FR.16), High-Level Data Link Control (HDLC), Serial (RS-232, RS-449, X.21, V.35, and EIA-530), and PPP over Ethernet (PPPoE)
		Traffic management	QoS, Class-Based Weighted Fair Queuing (CBWFQ), Weighted Random Early Detection (WRED), Hierarchical QoS, Policy-Based Routing (PBR), Performance Routing (PfR), and Network-Based Application Recognition (NBAR)
		Cryptographic algorithms	Encryption: DES, 3DES, AES-128 or AES-256 (in CBC and GCM modes); Authentication: RSA (748/1024/2048 bit), ECDSA (256/384 bit); Integrity: MD5, SHA, SHA-256, SHA-384, SHA-512

Bidding Document regarding Provision/Installation/Commissioning of Networking Equipment

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2. Proposal Response Format

Bidder is required to submit two separate sealed proposals i.e. Technical and Financial. The proposals must be submitted in the following format:

2.1 Format of Technical Proposal

The technical proposal should be concisely presented and structured in the form of chapters to include, but not necessarily be limited to, the following information. Support material should not be part of the main proposal but should be placed at Appendixes.

2.1.1 General

The responding organization (Bidder) should provide the following:-

1. Name of the participating organization or participating organizations (if more than one) in the responding consortium, including their scope of involvement and Agreement.
2. Number of years of incorporation of the participating organization or participating organizations (if more than one).

2.1.2 Mandatory Requirements

Bidder is required to submit its Technical Proposal in accordance with the **Mandatory Requirements** as mentioned below. Failing to which the proposal will not be considered.

#	Mandatory Requirements	Vendor Response
1	The bidder provide Certificate of the Tier – 1 Partner of the Manufacturer of the quoted equipment	
2	The bidder should provide its Evidence of company's registration / incorporation certificate. The bidder should provide its NTN / FBR Registration Certificate and must be registered with FBR for at-least last 5 years'	
3	The bidder should be an Active Tax Payer and must provide KPRA (Khyber Pakhtunkhwa Revenue Authority) Registration Certificate	
4	The bidder should not have been blacklisted by any of the Provincial / Federal Government or organizations of the State / Federal Government in Pakistan and must provide Undertaking on stamp papers that it is not being blacklisted. Also must provide List of arbitration/legal suits/unsettled disputes with organizations/clients (if any) in last five years	
5	The bidder must submit Annual Audited Report for the last 03 Financial years. Annual Audit Report including Balance Sheet, Income Statement and Profit & Loss accounts along with auditors' notes for the last three (3) audited years should be submitted	
6	Bidder must provide Purchase Orders/Agreements of at least 5 deployments of similar equipment/product with relevant client references and valid proof	
7	The bidder must have legal presence in Pakistan and should submit list of Offices across Pakistan	
8	List of HR and Technical team to be provided	
9	Bidder must provide equipment as per the required Technical specifications. Bidder must comply with all the Technical Specifications of the required equipment along-with its Installation/commissioning and deployment.	

2.1.3 Technical Evaluation Criteria is as follows: -

The Bidders complying with the Mandatory Requirements and required Technical Specifications will be considered Qualified and will be considered for Financial Opening.

While the firms will be disqualified and will not be considered for further Financial Evaluation if: -

- a. The firm fails to submit the valid relevant evidence of the required Mandatory Requirements, or
- b. The firm fails to Comply with Technical Specifications of the required equipment.

2.1.4 Project Implementation/Management Plan

The bidder shall provide a detailed implementation plan and project management plan. Bidder should provide the timelines. Responding Organization should cover tasks assigned to the employees and resource allocation during the course of the project. This should not be in generic terms but should be specific to the project. Project plans in tabular form, mentioning names of tasks, sub tasks, start date, finish date, resources and milestones will also be appreciated. In the training category, bidder is required to provide detailed training schedules along with the names of resources.

2.1.5 Warranty Period

The bidder shall give (1) One year comprehensive after completion warranty for Hardware specific under company strategy, certifying that the goods/services supplied conform exactly to the specifications laid down in the contract and are secured and that in the event any material being found defective or not conforming to specifications/particulars governing the supply for the warranty period from the date of supply the supplier will be held responsible for all losses and that the unacceptable items shall be substituted with the acceptable items at bidder expense and cost.

2.1.6 Training Capabilities

Bidder should indicate its training capabilities to provide relevant training to the concerned BoK staff. Bidder should also provide a detailed training schedule and necessary equipment will be arranged by the bidder.

2.2 Format of Financial Proposal

Bidder must submit its financial proposal in accordance with the following format and must mention the Total Quoted Amount for Branches/Aggregation Site in words and figures.

SNo	Description	Required Quantity	Unit Price	GST	Total Amount
1	Installation/Commissioning/ Deployment of the required solution	FOC / One Time Charges			
2	Core Switch	02			
3	Access Switch	15			
4	SFP + Transceiver Module	18			
5	Optical Fiber Patch Cord	18			
6	ODF	12			
7	Routers	04			
GRAND TOTAL					

2.2.1 Currency

All currency in the proposal shall be quoted in Pakistan Rupees (PKR).

2.2.2 Withholding Tax, Sales Tax and other Taxes

Bidder is hereby informed that the Bank shall deduct tax at the rate prescribed under the tax laws of Pakistan, from all payments rendered by any bidder who signs a contract with the Bank. Bidder will be responsible for all taxes on transactions and/or income, which may be levied by government.

2.2.3 Governing Law

This bidding document and any contract executed pursuant to this document shall be governed by and construed in accordance with the laws of Pakistan. The Government of Pakistan and all bidders responding to this bidding document and parties to any contract executed pursuant to this document shall submit to the exclusive jurisdiction to Courts.

2.2.4 Acceptance of Proposals

The Bank of Khyber reserves the right not to accept the lowest or any proposal and to annul the bidding process as per KPPRA rules.

The acceptance criteria is as follows:

1. Bidder must technically comply with mentioned Mandatory Requirements and Technical Specifications as per Technical Evaluation Criteria mentioned in 2.1.6.
2. Bidder must comply with all the Terms & Conditions mentioned in the bidding document.
3. Bidder quoted the lowest price among the qualified bidders.

TERMS & CONDITIONS

1. The Procurement shall be conducted in accordance with the Khyber Pakhtunkhwa Procurement Rules 2014 on **Single Stage Two Envelope Procedure**.
2. The Bank of Khyber invites two separate sealed envelopes, one for Technical Proposal and One for Financial proposal from Tier-1 partner of the Manufacturer having legal presence in Pakistan for delivery, deployment, configuration, commissioning and support of the required equipment.
3. Bidders are required to submit both sealed proposals to the office of the **Head Procurement Division, The Bank of Khyber** on or before Thursday, **09thAugust, 2018 at 3:00PM**. Tender Opening Date is Thursday, **09thAugust, 2018 and Time is 3:30 PM** at The Bank of Khyber, Head Office.
4. Bidder must be registered with FBR and KPRA.
5. **Bidder should sign and stamp BoK bidding document and must attach with its proposal.**
6. The Technical bid should clearly mention Make, Model and Brand, (Specification of bid) without quoting the price and must mention the warranty period.
7. Company seal / stamp must be fixed on both Technical Proposal and Financial Proposal.
8. All the firms applied for the Tender must provide documents in line with the Mandatory requirements and should qualify the Technical Evaluation Criteria. **If any firm fails to qualify the Technical Evaluation Criteria, then Financial Proposal of the same will not be opened.**
9. **Any bid submitted after due date and time will not be entertained.**
10. Call Deposit of two percent (2%) of the total bid amount must be attached with financial proposal in separate sealed envelope in favor of Head IT Division, The Bank of Khyber.
11. All prices quoted must be inclusive of all Taxes applicable, such as GST, Income Tax, etc.
12. The prices quoted shall remain valid for 120 days, after the date of opening the tender.
13. Delivery of all items must be made within **(2 – 3)** weeks of issuance of purchase order.
14. Failure to supply items within **(2 - 3)** weeks' time period will invoke. In addition to that, two percent (2%) Call Deposit amount will be forfeited.
15. The Bank of Khyber will not be responsible for any costs or expenses incurred by bidders in connection with the preparation or delivery of bids.
16. **No negotiations and revised bids will be allowed.**

***Head Procurement, Head office,
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