



Sindh Rural Support Organization
SRSO Complex, Near Taj Petrol Pump,
Main Shikarpur Road Sukkur
Tel: 071-56271820



Tender Document
For
Procurement of Server Machines, Networking Items,
other Equipments & Services of Fortinet/ Fortiguard
with SLA

Tender No. SRSO/Tender/SRSO/PU/17-18/001

Bid Details		
1	Date of commencement of Bidding Document	November, 27-2017
2	Last date and time for receipt of Bidding Document	December, 11-2017 by 11 AM (PST)
3	Date and Time of Bid Opening	December, 11-2017 by 11:30 AM(PST)
4	Place of opening of Bids	Committee Hall, Sindh Rural Support Organization, SRSO Complex, Near Taj Petrol Pump, Main Shikarpur Road Sukkur Tel: 071-56271820
5	Address for communication	As Above
6	Contact us:	For information and any clarification please feel free to contact at info@srso.org.pk .

Note: Bids will be opened in presence of the bidders' representative who chooses/authorized to attend.

1. Introduction

Sindh Rural Support Organization (SRSO) is incorporated as a not-for-profit Company Limited by Guarantee, Registered under Section 42 of the Companies Ordinance, 1984. The SRSO is an apex organization at the provincial level for the participatory development and poverty reduction. It has been working in the designated various districts of Sindh. The policy has been endorsed by government to achieve the goals of poverty reduction through community empowerment, skills enhancement, capacity building and development of community supported infrastructure projects, and the provision of support for income generation, enterprise development and financial services.

2. Background

Sindh Rural Support Organization (SRSO) implementing a project namely Expansion of Union Council Based Poverty Reduction Program funded by Government of Sindh in Khairpur, Sanghar, Mirpurkhas, Umarmkot, Thatta & Badin Districts and also implemented the various projects funded by Government of Pakistan, Sindh, World Bank, PPAF, EU, and other national & international donors in sixteen districts of Sindh i.e. Sukkur, Ghotki, Shikarpur, Kandhkot-Kashmore, Kambar-Shahdadkot, Larkana, Jacobabad, Khairpur, Nousheroferze, Shaheed Benazirabad(Nawabshah), Dadu, Sanghar, Mirpurkhas, Umerkot, Thatta & Badin.

3. Procurement of Items:

SRSO requires Brand new Server Machines, Networking Items, other Equipments & Services of Fortinet/ Fortiguard with SLA, at SRSO Complex, Sukkur and hereinafter referred as the “SRSO”, invites **sealed bids for supply of Brand New Server Machines, Networking Items, other Equipments & Services of Fortinet/ Fortiguard with SLA as per below given details, said tender is divided into three lots so bidders are required to furnish their proposals lot wise and clearly mentioned on the envelopes applied for.**

Lot No 01:-

Item	Description
Fujitsu PRIMECENTERM2 Rack 42U (1200x800) Quantity = 02	
Rack Size	Branded Enterprise 42 U Rack with Cables Rails, Redundant PDUs with Cables, routing & Power Management
Branded PDU	3x 10 Sockets
Rack Console (1U)	RC25 43cm/17" TFT 1U UK English
Keyboard & Touchpad	Should be integral part of the console
KVM Switch	1x Console switch (16 Ports) KVM S4-1622,digital, VM,
KVM Adaptors &Cables	16x KVM Adaptors &Cables should be provided for connecting to the Servers to the KVM switch
Accessories	Appropriate accessories to be provided to mount the Console

	on the Server Rack
Warranty	Three Years comprehensive parts replacement warranty of all equipment

Item	Description
Fujitsu Primergy RX2540M4 Rack Servers Quantity = 03 (For Application)	
Model	Fujitsu RX2540M4 Rack Servers
Architecture	64 Bit Intel Xeon Server
Chipset	Intel® C624
Processor	2x Intel® Xeon® Silver 4114 processor (10C, 2.20 GHz, TLC: 13.75 MB, Turbo: 2.50 GHz, 9.6 GT/s, Mem bus: 2,400 MHz, 85 W
Memory	192GB 2Rx4 DDR4-2666 R ECC
Optical Drive	Internal DVD-RW supermulti slimline SATA
Hard Drives	4 x HDD SAS, 12 Gb/s, 450 GB, 15,000 rpm, 512n, hot-plug, 2.5-inch, enterprise
Raid Controller	RAID Controller SAS 12G, with Raid Level support 0, 1, 5/6, 10, 50 and 60 with 1GB cache
Network	4 x 1 Gbit/s Dynamic LoM Network Ports
FC Controller	1 x Dual Channel iSCSI Controller 10Gb/s (Dual Port) or Equivalent Fiber Channel Controller
Power Supply	2x 800Watt Hot Pluggable Redundant Power Supplies
Management Controller	Integrated Remote Management Controller
Management Software	Should include Server Management Software with advanced Pack including Local and Remote Monitoring, Pre-Failure Alerts and Diagnostic, Storage Management (server) with SVOM/SV-RAID, iRMC Advanced Pack including. Advanced Video Redirection (AVR), video capturing and Virtual Media, Server View Virtual IO Manager (SVIOM)
RMK	Rack Mounting Kit with cable management and accessories
Warranty	Three Years comprehensive parts replacement warranty of all equipment

Item	Description
Fujitsu Primergy RX2540M4 Rack Servers Quantity = 02 (For DB)	
Model	Fujitsu RX2540M4 Rack Servers
Architecture	64 Bit Intel Xeon Server
Chipset	Intel® C624

Processor	2x Intel® Xeon® Gold 5118 processor (12C, 2.30 GHz)
Memory	256GB 2Rx4 DDR4-2666 R ECC
Optical Drive	Internal DVD-RW supermulti slimline SATA
Hard Drives	4 x HDD SAS, 12 Gb/s, 450 GB, 15,000 rpm, 512n, hot-plug, 2.5-inch, enterprise
Raid Controller	RAID Controller SAS 12G, with Raid Level support 0, 1, 5/6, 10, 50 and 60 with 1GB cache
Network	4 x 1 Gbit/s Dynamic LoM Network Ports
FC Controller	1 x Dual Channel iSCSI Controller 10Gb/s (Dual Port) or Equivalent Fiber Channel Controller
Power Supply	2x 800Watt Hot Pluggable Redundant Power Supplies
Management Controller	Integrated Remote Management Controller
Management Software	Should include Server Management Software with advanced Pack including Local and Remote Monitoring, Pre-Failure Alerts and Diagnostic, Storage Management (server) with SVOM/SV-RAID, iRMC Advanced Pack including. Advanced Video Redirection (AVR), video capturing and Virtual Media, Server View Virtual IO Manager (SVIOM)
RMK	Rack Mounting Kit with cable management and accessories
Warranty	Three Years comprehensive parts replacement warranty of all equipment

Item	Description
FUJITSU ETERNUS DX200 S4 Disk Storage System (SAN) Quantity-1	
Model	FUJITSU Storage ETERNUS DX200 S4 Disk System (SAN)
Architecture	10Gbps iSCSI or Higher SAN solution
Cache	64GB Cache (Battery Backed)
Storage Controller	Redundant Storage Controllers with Active- Active Configuration
Host Connectivity Ports required	4x iSCSI Ports (10Gb) or Fiber Channel 16G with required cables
Host Ports Expansion	The proposed storage must support and capable of current and future enhancement/addition of 1G Ethernet and 16/8/4 GbpsFibre channel connectivity
Host Connectivity Supports	Minimum Support Oracle Sparc, HP UX, Dell, IBM, Fujitsu Servers with Unix, Linux, Windows, VMware, Xen Server, Red hats Linux and Oracle Solaris.
RAID	Supporting RAID 0, 1, 1+0, 5, 5+0, 6

Redundancy	End to end redundant connections with no single point of failure
Raw Storage	Total Raw Storage: 11 x 1.2 TB, 2.5 inch 10K SAS Disk Drives
Drive Interface	SAS 12 Gbps
Server Access Licenses	Should include all the required licenses to connect maximum number of hosts supported by the system with multipath failover licenses for Active / Active connectivity
Modular Design	Should have a Modular Design
Multipath Software	Active / Active Multipath software providing failover path to all Servers connecting to storage
Power & Cooling	Redundant Power & Cooling
Rack Rails	Rack mount kit with all accessories
Expandability	Should support minimum 10 Drive Enclosure
Point-in-Time Copy	Should be supplied with comprehensive point-in-time Local copy capability supporting enterprise features such as incremental, space efficient and reverse snapshot functions. These functionalities should be included in the base system.
Storage Tiering	Should be supplied Storage Tiering features for dynamically move data for optimization of high cost, high performance drive utilization. Data movement storage tiers must be automated and transparent to applications and should be based on advanced analysis of historical data access patterns. Data movement between storage tiers must be performed at sub logical unit (LUN) level to ensure optimization of high cost, high performance drives
Thin Provisioning	Should be supplied thin provision feature for space allocated to hosts, i.e. space allocated to a host is not totally reserved for that host at time of allocation but rather is allocated to the host only as it is consumed
Performance and Quality of service	Automatic Quality of Service for easy configuration of QoS features for critical applications should be supplied.
Replication	Native storage system replication software using synchronous and asynchronous method should be supplied
Warranty	Three Years comprehensive parts replacement warranty on all equipment (Hardware + Software) with 1 year SLA

Item	Description
Additional Items	
Rack Console (1U)	1x RC25 43cm/17" TFT 1U UK English
KVM Switch	1x Console switch (16 Ports) KVM S4-1622 digital, VM,
KVM Adaptors & Cables	16x KVM Adaptors & Cables should be provided for connecting to the Servers to the KVM switch
iSCSI Controller	6 x Dual Channel iSCSI Controller 10Gb/s (Dual Port) or Equivalent Fiber Channel Controller with cables
Cable kvm switch	2-Port USB VGA/Audio Cable KVM Switch (1.8m) ATEN-CS62U

Description	Size	Quantity
Fiber optic cable multimode patch cords LC To LC make by (Schneider)/ OM3	15 Meter	5
RJ-45 Patch cords make by (Schneider)/ OM3	5 meters	50

Description	
FUJITSU PRIMERGY TX1310 M3 Tower Server	
Quantity = 01	
Model	FUJITSU PRIMERGY TX1310 M3 Tower Server
Architecture	64 Bit Intel Xeon Server
Chipset	Intel® C236
Processor	1x Intel Xeon E3-1225v6 4C/4T 3.30 GHz
Memory	16GB DDR4-2400 U ECC
Optical Drive	Blu-ray Disc™ Triple Writer ultra slim
Hard Drives	4 x HDD SATA, 6 Gb/s, 1 TB, 7,200 rpm, 512n,
Raid Controller	4 port SATA with RAID 0/1/10 for HDDs
Network	1 x PLAN CP 2x1Gbit Cu Intel I350-T2
Power Supply	1 x standard power supply
Management Controller	Integrated Remote Management Controller
Management Software	Should include Server Management Software with advanced Pack including Local and Remote Monitoring, Pre-Failure Alerts and Diagnostic,
RMK	Rack Mounting Kit with cable management and accessories
Warranty	3 Years comprehensive on-site Warranty all Parts

Item	iSCSI Network Switch Qty-01
10G Base-T Ports	32
SFP+ Ports	16 Support
QSFP+ Ports	4 Support
Switching Capacity	1.28 Tbit/s
Forwarding Rate	960 Mpps
Airflow Design	Front-to-back or back-to-front
Device Virtualization	iStack: M-LAG
Traffic Analysis	Net Streams Flow
VLAN	Adding access, trunk, and hybrid interfaces to VLANs Default VLAN QinQ MUX VLAN GVRP
MAC Address Table	Maximum: 128k Dynamic learning and aging of MAC addresses Static, dynamic, and blackhole MAC address entries Packet filtering based on source MAC addresses MAC address limiting based on ports and VLANs
IP Routing	IPv4 routing protocols, such as RIP, OSPF, BGP, and IS-IS
Multicast	IGMP snooping MLD snooping
Reliability	LACP STP, RSTP, VBST, MSTP, BPDU protection, root protection, and loop protection, Smart Link and multi-instance, DLDP, LLDP, ERPS (G.8032), VRRP, VRRP load balancing, and BFD for VRRP
QoS	Traffic classification based on Layer 2 headers, Layer 3 protocols, Layer 4 protocols, and 802.1p priority, Actions of ACL, CAR, re-marking, and scheduling, Queue scheduling algorithms, including PQ, WRR, DRR, PQ + WRR, and PQ + DRR, Congestion avoidance mechanisms, including WRED and tail drop, Traffic shaping
Configuration and Maintenance	Console, Telnet, and SSH terminals Network management protocols, such as SNMP v1/v2c/v3, File upload and download through FTP and TFTP, Boot ROM upgrade and remote upgrade, 802.3az Energy Efficient Ethernet (EEE), Hot patches, User operation logs, ZTP

Or Equivalent Fiber Channel Switch (Brocade)

Brocade 300 Fiber Channel switch
Brand and Model: Brocade 300 Fiber Channel switch
Form Factor: 1U, 19-inch
Architecture: 8 Gbps Full Fabric Architecture
Port Speed: Auto-sensing of 1,2, 4, and 8 Gbit/s port speeds , optionally programmable to fixed port speed
Supported Ports : 24 x SFP 8Gbit/s, Multi-Mode Fiber (MMF) BROCADE branded
Active Port License : 16 Ports Active license with SFP Modules
Scalability : Full fabric architecture with a maximum of 239 switches
Performance : 384 Gbit/s end-to-end full duplex
ISL Trucking Support : Frame-based trucking with up to eight 8 Gbit/s ports per ISL trunk (8 ports x 8 Gbit/s). Exchange-based load balancing across ISLs with DPS included in Fabric OS (FOS)
Media types support: 8 Gbps Brocade 300 Brocade hot-pluggable, SFP+, LC connector 8 GbpsSWL, LWL,ELWL
Supported O/S : Support multiple O/S
Management access : 10/100 Mbit/s Ethernet (RJ-45), in-band over Fiber Channel, serial port (RJ-45), and USB port
Security: DH-CHAP (between switches and end devices),FCAP switch authentication; FIPS 140-2 L2-compliant, HTTPS, IPsec, IP filtering, LDAP with IPv6, Port Binding, RADIUS, User-defined Role-Based Access Control (RBAC), Secure Copy (SCP), Secure RPC, SFTP, SSH v2, SSL, Switch Binding, Trusted Switch
Supported management software : HTTP, SNMP v1/v3 (FE MIB, FC Management MIB), SSH; Auditing, Syslog; Brocade Advanced Web Tools, Advanced Performance Monitoring, Brocade Fabric Watch; Brocade Network Advisor SAN Enterprise or Brocade Network Advisor SAN Professional/Professional
Power Supply : Base switch includes a single, hot-swappable power supply with integrated system cooling fans. Optional dual redundant hot-swappable power supply.
Fiber optics Cable: 16 No .OM3 LC/LC cable (5 Meters) for switch

EnGenius indoor Access Points		
Product Description	Product Code	Product Qty
EnGenius Access Points	EWS320AP	2
EnGenius Access Points	EWS371AP	4

Product Description	Product Qty
Microsoft Windows Server Standard/enterprise licensee 2008/12/16	6

Lot No 02:-

Fortinet Fortiguard 100D with UTM BDL		
Product Description	Product Code	Product Qty
Fortinet Fortiguard 100D - 18X GE RJ45 (including 16x LAN ports, 2x WAN ports), 2x GE SFP DMZ ports, FortiASIC NP4Lite and CP8 hardware accelerated 64GB onboard SSD storage Hardware plus 1year 8x5 Forti care and Forti Guard UTM Bundle.	FG-100D-BDL	1
Forti client Endpoint Protection: Endpoint Telemetry & Compliance License Subscription for up to 600 clients. Includes 24x7 support. Note: Compatible with FortiOS 5.4 and above	FC-10-C0106-15102-12	1
Transceivers - 1GE SFP LX transceiver module for all systems with SFP and SFP/SFP+ slots	LX-TX	6
Cisco SG500 L3 Switch: SG500-52PORTS GIGABIT STACKABLE MANAGED SWITCH	SG-500-52PORTS	1
Installation & deployment required for Clustering with Cisco core switch and HA configuration with 100D	Cisco, Fortinet 100-D	2

Note:- The supplies given above must comply with technical aspects set out in the tender package and conform all respects to the quantities and specifications.

4. Submission of Bid

- 4.1. All the Bids shall be furnished on Single Stage Single Envelope Procedure(In this process Each bid shall comprise one single envelope containing the financial proposal & technical proposal of required items & services)
- 4.2. Separate Bid for each lot or for both lots with complete details of required items, should be submitted in the sealed envelope clearly marked as “Bid for Procurement of Server Machines, Networking Items, other Equipments& Services of Fortinet/ Fortiguard with SLA” comprising of both technically and financially.
- 4.3. Prices should be inclusive of all applicable taxes.
- 4.4. The bidders should take care in submitting the bid and ensure that enclosed papers will be properly numbered and submitted in a file in proper manner.
- 4.5. The bids to this tender must be submitted latest by December **11, 2017,11:00am** as per format specified in Annexure A to the point of contact given above. Electronic proposals will not be entertained. Any proposals delivered after due date and time will be considered non-responsive and disqualified from further consideration.
- 4.6. The Bids should be addressed to:
Procurement Department

Sindh Rural Support Organization
SRSO Complex, Near Taj Petrol Pump,
Main Shikarpur Road Sukkur
Tel: 071-56271820.

- 4.6. The SRSO reserves the right for conducting inspection by its own personnel or reputed third parties of the Server Machines, Networking Items, other Equipments & Services of Fortinet/ Fortiguard with SLA. The selected bidder has to offer the items for inspection in such a manner that it does not affect the delivery schedule.
- 4.7. The offer will remain **valid for a period of 90 days** from the closing date of the Bid. Any offer falling short of the validity period is liable for rejection.
- 4.8. No offer can be withdrawn by the vendor subsequent to the closing date and time for submission of offers.

5. Eligibility of the Bidder

The main criteria for applying to the tender are as follows:

- 5.1 10 years of experience in the provision of Server Machines, Networking Items, other equipments, & Services of Fortinet/Fortiguard with SLA
- 5.2 Turnover of at least last three years
- 5.3 Preference would be given to the registered tax payer (FBR & GST)

6. Deliverables

As per details given section 3,

7. Bid Security

All bidders shall furnish bid Security of 2% of quoted price in the form of Call deposit/Pay Order/Demand Draft in favor of Sindh Rural Support Organization(SRSO) original copy shall be attached with financial proposal and copy of same attached with Technical proposal amount may hidden. Cheque will not be accepted in any case. After selection of successful bidder, SRSO will return/release the bid de in copy of DD, and same will be return back to unsuccessful bidders.

SRSO will forfeit the bid security in following cases.

- If bidders withdraw its bid during opening time of tender.
- If successful bidder withdraw its bid prior to the agreement.

8. Specific Terms & Conditions

- 8.1 SRSO reserves the right to increase or decrease the quantity, if required.

- 8.2 A supply agreement will be signed with successful bidder(s) for timely provision of appropriate services and method of payment. Failure to meet the conditions of the agreement will result in cancellation of the agreement at the risk and cost of the supplier.
- 8.3 Sindh Rural Support Organization reserves the right to forfeit the performance security in case of breach of the agreement or failure to provide the vehicles and drivers on quoted prices and terms & conditions.
- 8.4 Tender publication does not constitute any commitment on part of Sindh Rural Support Organization unless a written agreement is signed by both parties.
- 8.5 SRSO reserves the right to cancel/reject any or all offers without assigning any reason.
- 8.6 Exact quantities may vary slightly from estimated numbers.

9. General Terms & Conditions

- 9.1. The SRSO does not bind itself to accept the lowest or any Bid and reserves the right to reject any or all Bids at any point of time prior to the issuance of purchase order without assigning any reasons whatsoever.
- 9.2. Successful bidder (s) require to submit performance security of 5% of contract price (Refundable) in favor of Sindh Rural Support Organization
- 9.3. SRSO has the right to split the order in one, two or more supplier (s) depending upon the items being shortlisted.
- 9.4. Company profile including staff details
- 9.5. Good track-record and references from previous clients including documentary evidence in shape of agreements/contract with other national/international organizations for last five years for similar nature of work.
- 9.6. The SRSO reserves the right to initiate re-tendering without providing any reason whatsoever. The SRSO shall not incur any liability on account of such rejection.
- 9.7. The SRSO reserves the right to modify any terms, conditions, quantity or specifications for submission of offer and to obtain revised Bids from the bidders due to such changes, if any.

9.8. Canvassing of any kind will be a disqualification and the SRSO may decide to cancel the bidder from its empanelment.

10. Submission of Bid and required Documents

10.1 The offer should be completed in all aspects and incomplete bid (s) will be rejected.

10.2 The bidder will provide the affidavit for not having blacklisted from any organization.

10.3 Bidders must attach bid security as mentioned in clause 7 of this document.

10.4 Bidders must mention the turnover along with proof i.e. Returns/bank statements.

10.4.1. Covering letter as per Annexure A.

10.4.2. Declaration of eligibility as per Annex B

10.4.3. Bid Security as per clause 7.1

10.4.4. Financial proposal/ bid should be in detail and complying with terms and conditions.

10.4.5. Copy of valid NTN and GST certificate must be attached.

10.5 Once the bid is submitted in sealed cover by the bidder, the SRSO will not accept any addition / alterations / deletions of the Bid. However, the SRSO reserves the right to seek clarification or call for supporting documents from any of the bidders, for which the concerned bidder will submit the documentary evidence(s) as required by the SRSO.

10.6 Any Bid, submitted with incorrect / false information will be rejected. Further, if any bidder is found to have submitted incorrect / false information at any time, he may be debarred from participation in the future tendering processes.

11. Evaluation Criteria for Bid

Sr. #	Description
1	The Bidder must have experience of at least five similar projects for deployment and total experience of 10 years.
2	At least 4 certified engineers of the Storage and Server brand quoted (attach CVs).
3	The bidder should be Tier-1 Business & Service Partner of the hardware brand being provided since at least last 3 Years
4	The bidder should have Manufacturers Authorization Letter (MAL) for this specific project.
5	The bidder must have Annual Sales Volume/Gross Turnover of PKR.50 million. (03) years (attach financial statements)
6	The bidder must be registered with Sales Tax, Income Tax departments and should be active tax payer.

7	Detailed Project Plan should be provided as per scope of work including equipment delivery timelines. Fast delivery will be highly preferred.
8	List of Support Staff along with Support Escalation Matrix and Call Logging Procedure (attach proof)

Scores	
Total Score Technical	70
Financial Score	30
Total Marks	100

Note: 70 marks out of 100 marks i.e. 70 marks are qualifying marks, if 3 bidders acquired less than qualifying marks then the top three scoring bidders will be considered. Agreement shall be signed with selected party(s) on general / specific conditions with mutually agreed on.

11.4. The SRSO will scrutinize the offers to determine whether it is completed or errors made in the offer and the documents have been properly signed. Offers with incorrect information or not supported by documentary evidence, would be rejected. However, the SRSO, at its sole discretion, may waive any minor non-conformity or any minor irregularity in an offer. The SRSO reserves the right for such waivers and this shall be binding on all vendors.

11.5. Deviation from specifications / evaluation stipulated may make the offer liable for rejection.

11.6. For proper scrutiny, evaluation and comparison of offers, the SRSO may, at its discretion, ask some or all vendors for clarification of their offer. The request for such clarifications and the response will necessarily be in writing.

12. Fees and payment Schedule

- 12.1. No Advance will be allowed in any case.
- 12.2. Vendor will submit invoice on monthly basis.
- 12.3. Monthly Payment will be made after the completion of month. Within 1-2 weeks through cross cheque in the name of company.
- 12.4. All applicable taxes shall be deducted at the source. Tax challan will be provided within 1-2 weeks of the payment.

13. Penalty (liquidated damages) for delayed supply of Server Machines, Networking Items, other Equipments & Services of Fortinet/Fortiguard with SLA

In case the delivery is delayed beyond the stipulated date of delivery, ‘Liquidated damage for late delivery @ 0.5% of the of the total amount for each day of delay would be imposed, subject to maximum of 10% if the delay is for 10 days (The liquidated damages will be deducted from the final payment) if delivery of Server Machines, Networking Item Other Equipment & Services of

Fortinet/Fortiguard with SLA remain delayed morethan 10 days then SRSO reserves the right terminate the agreement.

14. Bid Currency & Language

All prices shall be expressed in Pakistani Rupees only and the language is English / Urdu.

15. Cost of Bidding

The bidder shall bear all the costs associated with the preparation and submission of bid.

16. Bidding Document

16.1. The bidder is expected to examine all instructions, forms, Terms and Conditions and specifications in the Bidding Document.

16.2. No applicant should add, omit, or change any item, term or condition in the original paper.

16.3. If the applicant has any additional terms & conditions this shall be stipulated in a separate letter accompanying the bid.

17. Deadline For Submission of Bids

Bids must be received by the SRSO at the address specified in the Bid Document not later than the specified date and time as mentioned in the Bid Document. In the event of the specified date of submission of bids being declared a holiday for the SRSO, the bids will be received up to the appointed time on next working day.

The SRSO may, at its discretion, extend this deadline for submission of bids by amending the bid documents.

18. Confidentiality Statement

All data and information received from SRSO for the purpose of this assignment is to be treated confidentially and is to be used ONLY in connection with the execution of these Terms of Reference. All intellectual property rights arising from the execution of these Terms of Reference are assigned to SRSO. The contents of written materials obtained and used in this assignment may not be disclosed to any third parties without the expressed advance written authorization of SRSO. SRSO may then disclose the draft, final report and/or any related information to any person and for any purpose they may deem appropriate.

19. Rejection of the Bid

The Bid is liable to be **rejected** if:

- The document doesn't bear signature of authorized person.
- It is received **through** Telegram/Fax/E-mail.
- If the bid is submitted without the bid security deposit.
- It is received after **expiry** of the due date and time stipulated for Bid submission.

20. Incomplete Bids, including non-submission or non-furnishing of requisite documents / Conditional Bids / Bids not conforming to the terms and conditions stipulated in thistender document are liable for rejection by the SRSO.

21. Modifications and Withdrawal of Bids

Bids once submitted will be treated, as final and no further correspondence will be entertained on this.

1. No bid will be modified after the deadline for submission of bids.
2. No bidder shall be allowed to withdraw the bid, if the bidder happens to be a successful bidder.

22. Bid Opening And Evaluation

- The SRSO will open the bids, in the presence of Bidders and their representative(s) if any, authorized by the supplier to attend, at the time, date mentioned in Bid document and at the address mentioned at bidding details.
- The bidder's representatives who are present shall sign the sheet evidencing their attendance. In the event of the specified date of bid opening being declared a holiday for SRSO, the bids shall be opened at the appointed time and place on next working days.
- Bidders satisfying the technical requirements as determined by the SRSO and accepting the Terms and Conditions of this document shall be short-listed.
- Decision of the SRSO in this regard shall be final and binding for the bidders.
- The agreement will be awarded only to the successful responsive bidder.
- SRSO reserves the right to negotiate with Second, third bidder etc. if successful bidder is not able to provide the supply of Server Machines, Networking Items, Other Equipments & Services of Fortinet/ Fortiguard with SLA.

23. Clarifications Of Bids

To assist in the examination, evaluation and comparison of bids the SRSO may, at its discretion, ask the bidder for clarification. The response shall be in writing and no change in the substance or price of the bid shall be sought, offered or permitted.

24. SRSO's Right To Accept Or Reject Any Bid Or All Bids

The SRSO reserves the right to accept or reject any bid and annul the bidding process and reject all bids at any time prior to award of agreement, without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders of the ground for the SRSO's action.

25. Governing Laws And Disputes

All disputes or differences whatsoever arising between the parties out of or in relation to the meaning and operation or effect of these Tender Documents or breach thereof shall be settled amicably. If however the parties are not able to solve them amicably, the same shall be settled by arbitration in accordance with the applicable Pakistani Laws, and the award made in pursuance thereof shall be binding on the parties. The Arbitrator/Arbitrators shall give a reasoned award.

26. Placement Of Order And Acceptance

The vendor shall give acceptance of the order placed on it within 2 days from the date of order, failing which, the SRSO shall have right to cancel the order.

27. Authorized Signatory

The bidder should indicate the **authorized officials from their organization** who can discuss, correspond, sign agreements / contracts, raise invoice and accept payments and also to correspond. The bidders should **furnish proof of signature of the authorized personnel** for above purposes *as* required by the SRSO.

Annex A
Bid submission letter format

Date: _____
SRSO/Tender/SRSO/PU/16-17/002

To:
SPO-Procurement
Sindh Rural Support Organization
SRSO Complex, Near Taj Petrol Pump,
Main Shikarpur Road Sukkur
Tel: 071-56271820

Dear Sir:

Having examined the bidding documents including Tender NOs: SRSO/Tender/SRSO/PU/17-18/001, receipt of which is hereby duly acknowledged, we, the undersigned, offer to supply and deliver Server Machines, Networking Items, Other Equipments & Services of Fortinet/Fortiguard with SLA in conformity with the said bidding documents for the sum of]
or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this Bid.

Until a formal Contract is prepared and executed, this Bid, together with written acceptance thereof and notification of award, shall constitute a binding Contract between us.

We understand that SRSO is not bound to accept the lowest or any bid SRSO may receive. We certify/confirm that we comply with the eligibility requirements as per the bidding documents.

Dated this day of 2017.

[Signature & Stamp]

[in the capacity of]

Duly authorized to sign Bid for and on behalf of

Declaration of Eligibility

Annex B

(To be submitted on companies letter head)

Tenderer / Supplier:

I, the undersigned (Name and address of representative)
Representative of

(Name and address of company)

Do hereby affirms that our company/firm/organization is eligible because we;

- Are registered company/firm/organization.
- Are registered with NTN and GST.
- Are not bankrupt or in the process of going bankrupt.
- Have not been convicted for an offense concerning professional conduct.
- Have not been guilty of grave professional misconduct (proven by any means which the contracting authorities can justify).
- Have fulfilled obligations related to payment of taxes.
- Are not guilty of serious misinterpretation in supplying information.
- Are not in situations of conflict of interest (with prior relationship to project or family or business relationship to parties in SRSO)
- Were not declared at serious fault of implementation owing to a breach of their contractual obligations
- Have no relation, direct or indirect, with any terrorist or banned organizations.
- Are not on any list of sanctioned parties issued by the Pakistan Government, DIFID, USAID, UN agencies, European Union and others.
- Are not blacklisted by any Local/International organization, Government/semi Government department, NGO or any other company/organization.
- Have not been reported for/under litigation for child abuse.

Declared
In the presence of

Declared

(Name &
Signature)

(Company Stamp)

(Name, address)

(Location, date)

Financial Proposal
Lot No 01

Annex C

Item	Description	Quantity	Rate	Total
Fujitsu PRIMECENTERM2 Rack 42U (1200x800)				
Quantity = 02				
Rack Size	Branded Enterprise 42 U Rack with Cables Rails, Redundant PDUs with Cables, routing & Power Management	2		
Branded PDU	3x 10 Sockets			
Rack Console (1U)	RC25 43cm/17" TFT 1U UK English			
Keyboard & Touchpad	Should be integral part of the console			
KVM Switch	Console switch (16 Ports) KVM S4-1622,digital, VM,			
KVM Adaptors &Cables	16x KVM Adaptors &Cables should be provided for connecting to the Servers to the KVM switch			
Accessories	Appropriate accessories to be provided to mount the Console on the Server Rack			
Warranty	Three Years comprehensive parts replacement warranty of all equipment			
Item	Description	Quantity	Rate	Total
Fujitsu Primergy RX2540M4 Rack Servers				
Quantity = 03 (For Application)				
Model	Fujitsu RX2540M4 Rack Servers	3		
Architecture	64 Bit Intel Xeon Server			
Chipset	Intel® C624			
Processor	2x Intel® Xeon® Silver 4114 processor (10C, 2.20 GHz, TLC: 13.75 MB, Turbo: 2.50 GHz, 9.6 GT/s, Mem bus: 2,400 MHz, 85 W			
Memory	192GB 2Rx4 DDR4-2666 R ECC			
Optical Drive	Internal DVD-RW supermulti slimline SATA			
Hard Drives	4 x HDD SAS, 12 Gb/s, 450 GB, 15,000 rpm, 512n, hot-plug, 2.5-inch, enterprise			

Raid Controller	RAID Controller SAS 12G, with Raid Level support 0, 1, 5/6, 10, 50 and 60 with 1GB cache			
Network	4 x 1 Gbit/s Dynamic LoM Network Ports			
FC Controller	1 x Dual Channel iSCSI Controller 10Gb/s (Dual Port) or Equivalent Fiber Channel Controller			
Power Supply	2x 800Watt Hot Pluggable Redundant Power Supplies			
Management Controller	Integrated Remote Management Controller			
Management Software	Should include Server Management Software with advanced Pack including Local and Remote Monitoring, Pre-Failure Alerts and Diagnostic, Storage Management (server) with SVOM/SV-RAID, iRMC Advanced Pack including. Advanced Video Redirection (AVR), video capturing and Virtual Media, Server View Virtual IO Manager (SVIOM)			
RMK	Rack Mounting Kit with cable management and accessories			
Warranty	Three Years comprehensive parts replacement warranty of all equipment			
Item	Description			
Fujitsu Primergy RX2540M4 Rack Servers		Quantity	Rate	Total
Quantity = 02 (For DB)				
Model	Fujitsu RX2540M4 Rack Servers	2		
Architecture	64 Bit Intel Xeon Server			
Chipset	Intel® C624			
Processor	2x Intel® Xeon® Gold 5118 processor (12C, 2.30 GHz)			
Memory	256GB 2Rx4 DDR4-2666 R ECC			
Optical Drive	Internal DVD-RW supermulti slimline SATA			
Hard Drives	4 x HDD SAS, 12 Gb/s, 450 GB, 15,000 rpm, 512n, hot-plug, 2.5-inch, enterprise			
Raid Controller	RAID Controller SAS 12G, with Raid Level support 0, 1, 5/6, 10, 50 and 60 with 1GB cache			
Network	4 x 1 Gbit/s Dynamic LoM Network Ports			

FC Controller	1 x Dual Channel iSCSI Controller 10Gb/s (Dual Port) or Equivalent Fiber Channel Controller			
Power Supply	2x 800Watt Hot Pluggable Redundant Power Supplies			
Management Controller	Integrated Remote Management Controller			
Management Software	Should include Server Management Software with advanced Pack including Local and Remote Monitoring, Pre-Failure Alerts and Diagnostic, Storage Management (server) with SVOM/SV-RAID, iRMC Advanced Pack including. Advanced Video Redirection (AVR), video capturing and Virtual Media, Server View Virtual IO Manager (SVIOM)			
RMK	Rack Mounting Kit with cable management and accessories			
Warranty	Three Years comprehensive parts replacement warranty of all equipment			
Item	Description			
FUJITSU ETERNUS DX200 S4 Disk Storage System (SAN)		Quantity	Rate	Total
Quantity-1				
Model	FUJITSU Storage ETERNUS DX200 S4 Disk System (SAN)	1		
Architecture	10Gbps iSCSI or Higher SAN solution			
Cache	64GB Cache (Battery Backed)			
Storage Controller	Redundant Storage Controllers with Active- Active Configuration			
Host Connectivity Ports required	4x iSCSI Ports (10Gb) or Fiber Channel 16G with required cables			
Host Ports Expansion	The proposed storage must support and capable of current and future enhancement/addition of 1G Ethernet and 16/8/4 GbpsFibre channel connectivity			
Host Connectivity Supports	Minimum Support Oracle Sparc, HP UX, Dell, IBM, Fujitsu Servers with Unix, Linux, Windows, VMware, Xen Server, Red hats Linux and Oracle Solaris.			
RAID	Supporting RAID 0, 1, 1+0, 5, 5+0, 6			
Redundancy	End to end redundant connections with no single point of failure			

Raw Storage	Total Raw Storage: 11 x 1.2 TB, 2.5 inch 10K SAS Disk Drives			
Drive Interface	SAS 12 Gbps			
Server Access Licenses	Should include all the required licenses to connect maximum number of hosts supported by the system with multipath failover licenses for Active / Active connectivity			
Modular Design	Should have a Modular Design			
Multipath Software	Active / Active Multipath software providing failover path to all Servers connecting to storage			
Power & Cooling	Redundant Power & Cooling			
Rack Rails	Rack mount kit with all accessories			
Expandability	Should support minimum 10 Drive Enclosure			
Point-in-Time Copy	Should be supplied with comprehensive point-in-time Local copy capability supporting enterprise features such as incremental, space efficient and reverse snapshot functions. These functionalities should be included in the base system.			
Storage Tiering	Should be supplied Storage Tiering features for dynamically move data for optimization of high cost, high performance drive utilization.			
	Data movement storage tiers must be automated and transparent to applications and should be based on advanced analysis of historical data access patterns. Data movement between storage tiers must be performed at sub logical unit (LUN) level to ensure optimization of high cost, high performance drives			
Thin Provisioning	Should be supplied thin provision feature for space allocated to hosts, i.e. space allocated to a host is not totally reserved for that host at time of allocation but rather is allocated to the host only as it is consumed			
Performance and Quality of service	Automatic Quality of Service for easy configuration of QoS features for critical applications should be supplied.			
Replication	Native storage system replication software using synchronous and asynchronous methods should be supplied			

Warranty	Three Years comprehensive parts replacement warranty on all equipment (Hardware + Software) with 1 year SLA			
Item	Description	Quantity	Rate	Total
Additional Items				
Rack Console (1U)	1x RC25 43cm/17" TFT 1U UK English	1		
KVM Switch	1x Console switch (16 Ports) KVM S4-1622 digital, VM,	1		
KVM Adaptors &Cables	16x KVM Adaptors &Cables should be provided for connecting to the Servers to the KVM switch	16		
iSCSI Controller	6 x Dual Channel iSCSI Controller 10Gb/s (Dual Port) or Equivalent Fiber Channel Controller with cables	6		
Cable kvm switch	2-Port USB VGA/Audio Cable KVM Switch (1.8m) CS62U	2		
Description	Size	Quantity	Rate	Total
Fiber optic cable multimode patch cords LC To LC make by (Schneider)/ OM3	15 Meter	5		
RJ-45 Patch cords make by (Schneider)/ OM3	5 meters	50		
Description		Quantity	Rate	Total
FUJITSU PRIMERGY TX1310 M3 Tower Server				
Quantity = 01				
Model	FUJITSU PRIMERGY TX1310 M3 Tower Server	1		
Architecture	64 Bit Intel Xeon Server			
Chipset	Intel® C236			
Processor	1x Intel Xeon E3-1225v6 4C/4T 3.30 GHz			
Memory	16GB DDR4-2400 U ECC			
Optical Drive	Blu-ray Disc™ Triple Writer ultra slim			
Hard Drives	4 x HDD SATA, 6 Gb/s, 1 TB, 7,200 rpm, 512n,			

Raid Controller	4 port SATA with RAID 0/1/10 for HDDs			
Network	1 x PLAN CP 2x1Gbit Cu Intel I350-T2			
Power Supply	1 x standard power supply			
Management Controller	Integrated Remote Management Controller			
Management Software	Should include Server Management Software with advanced Pack including Local and Remote Monitoring, Pre-Failure Alerts and Diagnostic,			
RMK	Rack Mounting Kit with cable management and accessories			
Warranty	3 Years comprehensive on-site Warranty all Parts			
Item	iSCSI Network Switch Qty-01	Quantity	Rate	Total
10G Base-T Ports	32	1		
SFP+ Ports	16 Support			
QSFP+ Ports	4 Support			
Switching Capacity	1.28 Tbit/s			
Forwarding Rate	960 Mpps			
Airflow Design	Front-to-back or back-to-front			
Device Virtualization	iStack: M-LAG			
Traffic Analysis	NetStreams Flow			
VLAN	Adding access, trunk, and hybrid interfaces to VLANs Default VLAN QinQ MUX VLAN GVRP			
MAC Address Table	Maximum: 128k Dynamic learning and aging of MAC addresses Static, dynamic, and blackhole MAC address entries Packet filtering based on source MAC addresses MAC address limiting based on ports and VLANs			
IP Routing	IPv4 routing protocols, such as RIP, OSPF, BGP, and IS-IS			
Multicast	IGMP snooping MLD snooping			

Reliability	LACP STP, RSTP, VBST, MSTP BPDU protection, root protection, and loop protection Smart Link and multi-instance DLDP, LLDPERPS (G.8032) VRRP, VRRP load balancing, and BFD for VRRP			
QoS	Traffic classification based on Layer 2 headers, Layer 3 protocols, Layer 4 protocols, and 802.1p priority Actions of ACL, CAR, re-marking, and scheduling Queue scheduling algorithms, including PQ, WRR, DRR, PQ + WRR, and PQ + DRR Congestion avoidance mechanisms, including WRED and tail drop Traffic shaping			
Configuration and Maintenance	Console, Telnet, and SSH terminals Network management protocols, such as SNMP v1/v2c/v3 File upload and download through FTP and TFTP BootROM upgrade and remote upgrade 802.3az Energy Efficient Ethernet (EEE) Hot patches User operation logs ZTP			

Or Equivalent Fiber Channel Switch (Brocade)

Brocade 300 Fiber Channel switch	Quantity	Rate	Total
Brand and Model: Brocade 300 Fiber Channel switch	1		
Form Factor: 1U, 19-inch			
Architecture: 8 Gbps Full Fabric Architecture			
Port Speed: Auto-sensing of 1,2, 4, and 8 Gbit/s port speeds , optionally programmable to fixed port speed			
Supported Ports : 24 x SFP 8Gbit/s, Multi-Mode Fiber (MMF) BROCADE branded			
Active Port License : 16 Ports Active license with SFP Modules			
Scalability : Full fabric architecture with a maximum of 239 switches			
Performance : 384 Gbit/s end-to-end full duplex			
ISL Trucking Support : Frame-based trucking with up to eight 8 Gbit/s ports per ISL trunk (8 ports x 8 Gbit/s). Exchange-based load balancing across ISLs with DPS included in Fabric OS (FOS)			

Media types support: 8 Gbps Brocade 300 Brocade hot-pluggable, SFP+, LC connector 8 GbpsSWL, LWL,ELWL			
Supported O/S : Support multiple O/S			
Management access : 10/100 Mbit/s Ethernet (RJ-45), in-band over Fiber Channel, serial port (RJ-45), and USB port			
Security: DH-CHAP (between switches and end devices),FCAP switch authentication; FIPS 140-2 L2-compliant, HTTPS, IPsec, IP filtering, LDAP with IPv6, Port Binding, RADIUS, User-defined Role-Based Access Control (RBAC), Secure Copy (SCP), Secure RPC, SFTP, SSH v2, SSL, Switch Binding, Trusted Switch			
Supported management software : HTTP, SNMP v1/v3 (FE MIB, FC Management MIB), SSH; Auditing, Syslog; Brocade Advanced Web Tools, Advanced Performance Monitoring, Brocade Fabric Watch; Brocade Network Advisor SAN Enterprise or Brocade Network Advisor SAN Professional/Professional			
Power Supply : Base switch includes a single, hot-swappable power supply with integrated system cooling fans. Optional dual redundant hot-swappable power supply.			
Fiber optics Cable: 16 No .OM3 LC/LC cable (5 Meters) for switch			

EnGenius indoor Access Points				
Product Description	Product Code	Product Qty	Rate	Total
EnGenius Access Points	EWS320AP	2		
EnGenius Access Points	EWS371AP	4		

Item	Product Description	Product Qty	Rate	Total
Microsoft Windows	Microsoft Windows Server Standard/enterprise licensee 2008/12/16	6		

Lot No 02

Fortinet FortiGuard 100D with UTM BDL				
Product Description	Product Code	Product Qty	Rate	Total
Fortinet Fortiguard 100D - 18X GE RJ45 (including 16xLAN ports, 2x WAN ports), 2x GE SFP DMZ ports, FortiASIC NP4Lite and CP8 hardware accelerated 64GB onboard SSD storage Hardware plus 1year 8x5 Forti care and Forti Guard UTM Bundle.	FG-100D-BDL	1		
Forti client Endpoint Protection: Endpoint Telemetry & Compliance License Subscription for up to 600 clients. Includes 24x7 support. Note: Compatible with FortiOS 5.4 and above	FC-10-C0106-15102-12	1		
Transceivers - 1GE SFP LX transceiver module for all systems with SFP and SFP/SFP+ slots	LX-TX	6		
Cisco SG500 L3 Switch: SG500-52PORTS GIGABIT STACKABLE MANAGED SWITCH	SG-500-52PORTS	1		
Installation & deployment required for Clustering with Cisco core switch and HA configuration with 100D	Cisco, Fortinet 100-D	2		