



Government of Pakistan

Ministry of Information Technology & Telecommunication

National Information Technology Board (NITB)



INVITATION TO BIDS

CORRIGENDUM

Supply of Hardware, Software, IT Equipment, LAN & Furniture

With reference to our advertisement captioned above published in newspaper on 07-11-2021 in which closing date was scheduled on 22-11-2021. The last date of said advertisement has been extended till **24-12-2021**.

2. Updated RFQ containing Bidding documents, detailed terms and conditions, etc. can be downloaded from www.nitb.gov.pk (free of cost). This Corrigendum is also available on PPRA website at www.ppra.org.pk
3. The bids, prepared in accordance with the instructions in the bidding documents, **must reach on 24th December, 2021 at 11:30am, technical bids will be opened on same day at 12:00pm at NITB office.**

Project Manager (President Secretariat)

National Information Technology Board (NITB),

Plot No. 24-B, Street No.6, Sector H-9/1, Islamabad.

Phone: +92-333-5061674



NATIONAL INFORMATION TECHNOLOGY BOARD

Request for Quotation (RFQ)

For

Supply of Hardware, Software, IT Equipment, Furniture, Establishment of
LAN & Server Room Equipment with Deployment etc.

Government of Pakistan

Ministry of Information Technology & Telecommunications

NATIONAL INFORMATION TECHNOLOGY BOARD

www.nitb.gov.pk

December, 2021

General Terms & Conditions

1. Scope of Work, Timeframe and penalties

1.1 Supply of Supply of Hardware, Software, IT Equipment, Establishment of LAN & Server Room Equipment with Deployment, Furniture etc. at Government Office in Federal territory through NITB, Islamabad.

Milestones			Time Period
LOT 1: Supply of Hardware			8 to 12-Weeks from the date of issuance of purchase order.
S. No	Item Description	Qty	
1	Servers	2	
2	1TB SAS 15k Hard Disks	10	
3	Video Conferencing Equipment	1	
4	Video Editor & Graphic Designer Desktop Machine with (2 each)21" LED	2	
5	Scanners	40	
6	Heavy duty Scanners	6	
7	Desktops PCs	30	
8	Laptops for IT Officers	5	
9	Black n White Laserjet Printers	15	
10	MFP Laserjet Printers	4	
11	Color Laserjet Printers	5	
12	1TB SSD Hard Disk for Laptops	51	
13	16GB RAM for Gen 8 HP Laptops	51	
14	USB Data backup drives 8TB	6	
15	USB Data backup drives 2TB	3	
16	USB Fax Modems	5	
17	External CD/DVD RW	2	
LOT 2: Supply of Licensed Software's			6 to 8-Weeks from the date of issuance of purchase order.
S. No	Item Description	Qty	
1	vSphere 7.0 Licenses	1	
2	Licenses of MS Office 2019 Standard	426	
3	MS Project 365 E3 (03 Year License)	03	
4	Kaspersky Antivirus (For 03 years)	500	

LOT 3: IT Equipment/LAN deployment along with provision of Active/Passive Equipment			8 to 12-Weeks from the date of issuance of purchase order.	
S. No	Item Description	Quantity		
1	Hardware Firewall	1		
2	20 TB SAN	1		
3	KVM Switch for Server Rack	1		
4	WiFi APs with Controller	Complete Solution		
5	Networking required at 7 th Floor	Complete Solution	12 to 16-Weeks from the date of permission of work/Security clearance.	
6	Network extension required for South Gate for R&I Sections of PS (Public & Personal)	Complete Solution		
LOT 4: Furniture			8 to 12-Weeks from the date of permission of work/Security clearance.	
S. No	Item Description	Quantity		
1	Glass Partitioning Work and Main Door for Server Room (Glass Partition work size 10x14 feet length and height is 7 feet with 2mm Aluminium, Main door size is 5x7 Feet, (Note:- use 12mm Glass tinted & paper with 2mm Aluminium will be used)	Complete Solution		
2	Wooden Cabinets (Branded/ latest wooden cabinets each cabinet should have 04 drawers)	6		6 to 8-Weeks from the date of issuance of purchase order.
3	Round table small for Server Room	1		
4	Sofa's (02 Seater)	3		
5	Guest chairs (branded) for Server Room	10		
6	Office tables with revolving officers chairs (branded)	4		

LOT 5: Plant & Machinery			8 to 12-Weeks from the date of issuance of purchase order.
S. No	Item Description	Quantity	
1	UPS 10 KVA	2	
2	2KVA UPSs for each 15U Cabinet	13	
3	46" Smart & 3D LED	1	
4	Standing ACs Inverter	2	
5	Temperature Meter	2	
6	55" Smart LED 4K	2	
7	Paper Shredder Medium	3	
8	Multimedia	1	
9	Security/ Entry Passes Machine	1	

2. About responding organizations-ROs

- 2.1. The Responding Organization-RO must be registered with Sales Tax Registration Department and should be in possession of valid NTN number. Copies of the certificates must be provided with the bid.
- 2.2. The RO must provide on letter head, Name of organization, details of offices across Pakistan and location of Head office, size of company (number of employees), number of years of being incorporated (at least last **02 years in existence**). List of certified and dedicated service Engineers/technicians should be provided in regards to quoted item.
- 2.3. The RO to provide information as per template available at Annexure I, II and III.
- 2.4. The RO may not propose any kind of refurbished, Used, End of Life, and Near End of Life equipment /components in their proposals.
- 2.5. The RO shall be responsible for payment of any duties/taxes etc. that are imposed by the GOP during the currency of the project. The bid price **MUST** be inclusive of all taxes. The RO is hereby informed that the Government shall deduct tax at the rate prescribed under the tax laws of Pakistan, from all payments for services rendered by any responding organization who signs a contract with the Government.
- 2.6. The RO should be certified direct partner of the Original Manufacturer for **past 02 years at least**.
- 2.7. Onsite installation & relevant services to be provided by the vendor.
- 2.8. Financial capability and yearly growth rate (business revenue) in past 02 years.
- 2.9. RO must provide value, size and nature of projects done in past 02 years at least with respect to quoted products.
- 2.10. RO must be in IT business for last two (02) years at least.
- 2.11. RO should have successfully completed (02) end to end Implementations of quoted solution. Project completion certificates should be provided.
- 2.12. Support centre/staff should be available locally in respect to quoted item in respect to Lot 1 & 3.
- 2.13. The furniture will be procured as per following criteria.

Technical Evaluation will be based on the Presentation/Demo of proposed furniture.

Quality & Built: 40 Marks

Material used: 30 Marks

Finishing: 30 Marks

Passing marks for Technically Qualify is (70) marks out of 100 Marks.

Final Marking (100)=Technical 70% + Financial 30%

Preparation of Bids

- 2.14. The Bid Bond to be enclosed in a separate envelope, labelled as "Bid Bond", and which should be sealed. **It must be ensured that bid bond should not be in the same envelope as the financial proposal. In the technical bid, RO must confirm on company's letter head that the Bid Bond is being submitted as required by NITB.**
 - 2.15. Envelope for financial proposals should clearly mark: "Financial Proposal". Two hard copies of Technical Proposal and Financial proposal are required. **Soft copies of both Technical proposal and financial proposal must be provided along with bid envelopes in inerasable format.**
 - 2.16. Main Envelope for Technical proposal should clearly mark "Technical Proposal". Main envelope for technical proposal should contain 02 hard copies and 02 soft copies of the technical proposal (each being physically separated, bound, sealed and labelled as "Technical Proposal"). Each envelope should contain similar supporting documents.
 - 2.17. **Detail of technical specifications is attached at Annex-II. Initial evaluation/screening will be done as per Annex I; whereas, technical evaluation as per Annex III. Responding Organizations should provide all details in required templates provided under:**
 - 2.17.1. **Annexure-I for Initial Screening**
 - 2.17.2. **Annex-III for technical evaluation (technical proposal envelope)**
 - 2.17.3. **Annex- IV for financial evaluation (in the financial proposal envelope).**
 - 2.18. Responding Organizations should duly fill in and submit the **Bid Forms** (01, 02, 03, 04, 05)
 - 2.19. Responding Organizations may quote whole lot or any item from Lot # 1, Lot#2, Lot#3 and Lot#5 (except Lot#4).
 - 2.20. A bid bond, in the shape of a Bank Draft/Pay Order in the name of Project Director, National Information Technology Board, equivalent to 2% of the total cost of bid should be submitted along with the tender.
 - 2.21. RO shall submit and affidavit that it is not blacklisted by any Federal, Provincial Public sector organization.
 - 2.22. RO must provide at least two (02) performance & backup support certificates from the previous customers in regards to quoted item.
 - 2.23. All proposal and price shall remain valid for a period of **180 days** from the closing date of the submission of the proposal. However, the responding organization is encouraged to state a longer period of validity for the proposal.
 - 2.24. All currency in the proposal shall be quoted in Pakistan Rupees (PKR).
 - 2.25. The successful vendor shall be required to deposit in the form of a Bank Guarantee, a Performance Bond upon execution of the contract, a sum equivalent to **ten percent (10%)** of the contract value, this Bank Guarantee shall be issued by a scheduled bank operating in Pakistan and shall be kept valid from the date of issue, and should cover the warranty period after all contractual obligations have been fulfilled.
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- 2.26. Hardware equipment should have one (01) year local warranty, including parts and Labour with onsite support.
- 2.27. The end user licenses, end user warranties and end user contracting support services will be in the name of Customer, for all the equipment and Software loaded on the equipment delivered during the course of the project.
- 2.28. All equipment should be supplied through verifiable distribution channels.
- 2.29. RO should clearly indicate the duration of delivery (MUST be in requested timeframe) of equipment after the award of contract.

Submission of Bids

2.30. Proposals shall be delivered by hand or courier so as to reach the address given below by the last date indicated for submission i.e. **24th December 2021 at 11:30 AM**. PROPOSALS RECEIVED BY FAX OR EMAIL SHALL NOT BE ACCEPTED.

2.31. Project Manager President Secretariat Project Phase-II, NITB, Islamabad.

2.32. Notification of Award

2.32.1. Prior to the expiration of the period of bid validity, the Procuring Agency shall notify to the successful Bidder in writing that the bid has been accepted.

2.32.2. The notification of award shall constitute the formation of the Contract between the Procuring Agency and the successful Bidder.

2.32.3. The enforcement of the Contract shall be governed by Rule 44 of the PPRA-

2.33. Signing of Contract

2.33.1. After the notification of award, the Procuring Agency shall send the successful Bidder the Contract Form/Document

2.33.2. The Contract shall become effective upon affixation of signature of the Procuring Agency and the selected Bidder on the Contract document

2.33.3. If the successful Bidder, after completion of all codal formalities shows an inability to sign the Contract then its Bid Security shall stand forfeited and the firm may be blacklisted and de- barred from future participation, whether temporarily or permanently. In such situation the Procuring Agency may award the contract to the next lowest evaluated Bidder or call for new bids.

3. Performance Guarantee

3.1. On the date of signing of Contract, the successful Bidder shall furnish a Performance Guarantee @ 10% (if applicable) of the total Contract Cost of Lot/Lots, on the Form and in the manner prescribed by the Procuring Agency

3.2. The Bid Security submitted by the successful bidder at the time of submitting its bid shall be returned to the Bidder upon signing of contract, successful delivery of goods, furnishing of the performance/bank guarantee and confirmation of the performance/bank guarantee by the NITB with the Bank of the successful bidder.

3.3. Failure to provide a Performance Guarantee by the successful Bidder is a sufficient ground for annulment of the award and forfeiture of Bid Security. In such event the Procuring Agency may award the contract to the next lowest evaluated bidder or call for new bid.

4. Penalty Clause

- 4.1. Responding Organization is bound to make delivery of goods within stipulated delivery time line. In case of failure then procuring agency reserve right to charge late delivery charges @ one-tenth of one percent (0.001) Per day of specific amount of product which will be extended upto total value of specific product.
- 4.2. Responding Organisation is bound to ensure to provide goods in line with technical specification mentioned in bidding documents while technical inspection will be carried by technical team of procuring agency in the premises of NITB. In case of failure the procuring agency reserve right to fireproof Performance security and the responding organisation is responsible to replace rejected item at his own cost without any delay.

5. Implementation & Payment Schedule

S. No	Milestone	Time Period	Payment
1.	Supply of Licensed Software	Six (06) to Eight (08) Weeks from the date of signing of contract / issuance of purchase order.	100%
2.	Supply of Hardware/IT Equipment/Machinery/Furniture (Installation, configuration and testing of Equipment)	Eight (08) to twelve (12) Weeks from the date of signing of contract / issuance of purchase order.	100%
3.	Establishment of LAN with active/passive equipment	12 to 16-Weeks from the date of permission of work/Security clearance.	100%
4.	End of performance Guarantee	10% Performance Guarantee will have to be provided to cover the warranty period of the Hardware/IT Equipment/Machinery/Furniture/LAN which will be one (01) year from the date of successful testing and acceptance.	Release of Performance Guarantee

Evaluation Criteria

Bids evaluation shall be subject to 100% compliance to the following criteria for Vendors qualification:

General terms and conditions compliance	Clause	Yes/No
1) The Responding Organization-RO must be registered with Sales Tax Registration Department and should be in possession of valid NTN number. Copies of the certificates must be provided with the bid.	2.1	
2) The RO should be certified direct partner of the Original Manufacturer for past 02 years at least.	2.6	
3) Financial capability and yearly growth rate (business revenue) in past 02 years.	2.8	
4) RO must be in IT business for at least last two (2) years.	2.10	
5) RO should have successfully completed (02) end to end Implementations of quoted solution. Project completion certificates regard to quote solution should be provided.	2.11	
6) A bid bond, in the shape of a Bank Draft/Pay Order in the name of Project Director, National Information Technology Board, equivalent to 2% of the total cost of bid should be submitted along with the tender.	2.20	
7) RO shall submit and affidavit that it is not blacklisted by any Federal, Provincial Public sector organization.	2.21	
8) RO must provide at least two (02) performance & backup support certificates from the previous customers in regards to quoted item.	2.22	
9) Selection of RO for Furniture (Lot#4) will be based as per defined criteria	2.13	
The product must be compliant to the technical specifications mentioned in Annexure-II		

Technical Specification

LOT #	Item	Description /Qty	Specifications
1	Servers	2	<p>Motherboard Chassis with up to 16 x 2.5" SAS Hard Drives for 2CPU Configuration Intel® Xeon® Silver 4214R 2.4G, 12C/24T, 9.6GT/s, 16.5M Cache, Turbo, HT (100W) DDR4-2400 or higher 2 Standard Heatsinks for 125W or less CPUs 3200MT/s RDIMMs, 128GB RDIMM, 3200MT/s,C7, Configured RAID for HDDs or SSDs (Mixed Drive Types Allowed) RAID Controller, 2GB NV Cache, Adapter, Low Profile 1.2TBx20 10K RPM SAS 12Gbps 512n 2.5in Hot-plug Hard Drive Dual Port 10GbE BASE-T & Dual Port 1GbE BASE-T, rNDC, Riser Config 2, 3 x8, 1 x16 slots Dual Port 1GbE BASE-T Adapter, PCIe Full Height Dual, Hot-plug, Redundant Power Supply (1+1), 750W 02 Nos. Jumper Cord - C13/C14, 4M, 250V, 10A (US, EU, TW, APCC countries except ANZ), 2U Standard Bezel UEFI BIOS Boot Mode with GPT Partition, 6 Standard Fans, MS Windows 2019 Server Stand Operating System Onsite Service-ACDTS, 36 Month(s), ReadyRails™ Sliding Rails with Cable Management Arm (or higher specification) 3 Years warranty</p>
	1TB SAS 15k Hard Disks	10	900 GB x 10 Nos 15K SAS hard drives along with case for HP Proliant DL-380 Gen 9
	Video Conferencing Equipment	1	<p>Audio protocols: G.711A/G.711U/G.722/G.722.1C/G.729/Opus/AAC-LD Video protocols: H.263/H.263+/H.264 HP/H.264 BP/H.264SVC/H.265 Presentation protocols: H.239/BFCP Video features: Video resolution 4K 30 fps Dual-stream resolution 4K30 + 4K30 1080p 60 fps +1080p 60 fps (4K 15 fps) 1080p 30 fps +1080p 30 fps (4K 8 fps) Data conference 1080p 30 fps/4K 8 fps Audio features: Acoustic Echo Cancellation (AEC), Automatic Noise Suppression (ANS), Automatic Gain Control (AGC), Voice Clear, Audio Enhancer Security: H.235/TLS for signaling encryption and SRTP for media encryption SSH/HTTPS transmission encryption and dual-stream encryption Video input: 2 x HDMI Video output: 2 x HDMI Audio input: 1 x HD-AI (level 2) 1 x XLR connector 1 x HDMI (audio input)</p>

		<p>2 x RCA Audio output: 4 x RCA 2 x HDMI (audio output) Other ports: 2 x USB 2.0 Type-A 1 x PoE network port 2 x 10/100/1000 Mbit/s LAN port 1 x Wi-Fi (built-in)</p> <p>Integration: System should have the integration capability to connect with Huawei Cloud video conference solution deployed in NTC. Warranty: 3-year warranty</p> <p>Camera: Camera: Product must provide a full HD PTZ camera, which support 1080p 30fps resolution. Zoom: Product must support more 12x optical zoom or more. View: Maximum horizontal field of view 80°, Maximum vertical field of view 50°. Pan Range: ± 110°, Tilt Range: ± 30°</p> <p>Microphone: Microphone array which must be up to 360-degree sound pickup and an optimal pick-up range of 6 meters or more.</p>
Video Editor & Graphic Designer Desktop Machine with 21" LED	2	Desktop machine, 10th Generation or higher, Intel Corei7/AMD Ryzen 2700x, Gigabytes, B550 Motherboard, NVIDIA Geforce RTX 2060 uper or higher, 32GB Ram, 512GB SSD and 4TB Sata Hard Disks, MS Win 10 Pro, with 21" LED Display (2 each)
Scanners	40	<p>Ppm @ 200 and 300 dpi in color,gray Scale,B/W: 30-40ppm Paper Thickness: 50 g/m2-209g/m2 Feeder: ADF 50 or above Connectivity: USB 2.0 or above/ Network Daily Duty Cycle: 3000-4000 Warranty= 01 year</p>
Heavy duty Scanners	6	<p>Ppm @ 200 and 300 dpi in color,gray Scale: B/W 60-70PPM Paper Thickness: 43-350 g/m2 Feeder: ADF 80 and Above Daily Duty Cycle: 7500 Connectivity: USB 2.0 or above/Network Warranty= 01 year</p>
Desktops PCs	30	10th Generation, Intel Corei7 Processor & Intel Chipset Motherboard, 16GB Ram, 1TB Hard Disks, 18.5"inch LED display, MS Win 10 Pro or higher specification
Laptops	5	10th Generation, Intel Corei7 Processor & Intel Chipset Motherboard, 16GB Ram, 1TB + 256 SSD Hard Disks, 14" inch display, MS Win 10 Pro + Laptop bag or higher specification
Black n White Laserjet Printers	15	<p>Print speed: 30 ppm or higher Print Resolution: 600 x 600 dpi or higher Print Technology: Laser Processor speed: 800 MHz or higher</p>

		<p>Memory: 256 MB or higher</p> <p>Connectivity: Hi-Speed USB 2.0, Ethernet 10/100 Base TX, Wireless 802.11 b/g/n</p> <p>Mobile Printing Capability: Wi-Fi Direct printing; AirPrint1.5 with media presence sensor; Google Cloud Print™ 2.0; Smart App for Android and IOS.</p> <p>Printing: Duplex</p> <p>Monthly duty cycle: 50,000 pages or higher</p> <p>Operating System Support: Windows 7, 8, 10,11 Mac OS 10. 14 (Windows 11 Added on direction of DG SP&CS)</p> <p>Document Size Support:A4, A5, Letter, Legal</p> <p>Warranty: 1 Year</p>
MFP Laserjet Printers	4	<p>Print speed: 30 ppm or higher</p> <p>Print Resolution: 600 x 600 dpi or higher</p> <p>Print Technology: Laser</p> <p>Processor speed: 800 MHz or higher</p> <p>Memory: 512 MB</p> <p>Connectivity: Hi-Speed USB 2.0, Ethernet 10/100 Base TX, Wireless 802.11 b/g/n</p> <p>Mobile Printing Capability: Wi-Fi Direct printing; AirPrint1.5 with media presence sensor; Google Cloud Print™ 2.0; Smart App for Android and IOS.</p> <p>Printing: Duplex</p> <p>Monthly duty cycle: 30,000 pages or higher</p> <p>Operating System Support: Windows 7, 8, 10,11 Mac OS 10. 14</p> <p>Document Size Support:A4, A5, Letter, Legal</p> <p>Warranty: 1 Year</p>
Color Laserjet Printers	5	<p>Print speed: 22 ppm or higher</p> <p>Print Resolution: 600 x 600 dpi or higher</p> <p>Print Technology: Laser</p> <p>Processor speed: 800 MHz or higher</p> <p>Memory: 512 MB or higher</p> <p>Connectivity: Hi-Speed USB 2.0, Ethernet 10/100 Base TX, Wireless 802.11 b/g/n</p> <p>Mobile Printing Capability: Wi-Fi Direct printing; AirPrint1.5 with media presence sensor; Google Cloud Print™ 2.0; Smart App for Android and IOS.</p> <p>Printing: Duplex</p> <p>Monthly duty cycle: 30,000 pages or higher</p> <p>Operating System Support: Windows 7, 8, 10,11 Mac OS 10. 14</p> <p>Document Size Support: A4, A5, A6, B5 (JIS), B6 (JIS)</p> <p>Warranty: 1 Year</p>
1TB SSD Hard Disk for Laptops	51	1TB SSD Hard Disk Samsung Pro-Series for Laptops
16GB RAM for Gen 8 HP Laptops	51	16GB RAM (single module) for Gen 8 HP Laptops
USB Data backup drives 8TB	6	Passport USB Data backup drives 8TB
USB Data backup drives 2TB	3	Passport USB Data backup drives 2TB

	USB Fax Modems	5	USB Fax Modems
	External CD/DVD RW	2	External CD/DVD RW
2	VSphere 7.0 Licenses	1	VSphere 7.0 Essentials Plus (3 servers / 2 processors each) with Basic Support for 3 Years
	Licenses of MS Office 2019 Standard	426	Licenses of MS Office 2019 Standard OLP
	MS Project 365 E3 (03 Year License)	03	MS Project Professional 2021 (Perpetual) (For 03 years)
	Kaspersky Antivirus (For 03 years)	500	Kaspersky Endpoint Security for Business Select (For 03 years)
3	Hardware Firewall	1	<p>Next Generation Firewall Device (Renowned Brand): Type: Application Layer Firewall Application Layer Throughput: 1,000 Mbps or higher Threat Prevention Throughput: 700 to 1,000 Mbps or higher IPSec VPN Throughput: 375 Mbps or higher, I/O interfaces: 6 x 10/100/1000, 2 x Gigabit SFP, Storage capacity: 64GB SSD or higher IPSec VPN tunnels/ interfaces: 1,000 minimum, SSL VPN concurrent users: 1,000 minimum New Sessions Per Second: 8,000 or higher Max Sessions: 120,000 or higher SSL Decryption, SSH Decryption, SSL Decryption Subscriptions (8x5 Bundle) * Antivirus, * IPS/IDS, * URL Filtering, * All other subscriptions as optional Hardware Support: 3 Years with warranty and subscriptions Services: Installation & configuration Rack mount kit: Yes</p> <ul style="list-style-type: none"> Proposed solution must Supports 200+ users and 50 Mbps internet bandwidth with 4 monitoring ports at least Proposed solution should be available as dedicated custom built hardware appliance * Platform should be optimized for layer 7 application-level content processing Platform should capture and store packet captures of traffic relevant to the analysis of detected threats include HTTP, FTP, IRC, TCP Solution should have its logs archived locally, and should be downloadable via GUI Solution should support update of BEAB The solution should support reporting in HTML/Graphical/CSV/PDF Formats or more, Built-in Reporting for Applications, User activities, and Threats (IPS, AV, Anti Spyware) (no external reporting solution) Ability to fully forensically analyze identified malware and provide the following information to enterprise staff: <ul style="list-style-type: none"> Full URL trails identifying all of the locations to which the malware attempts to communicate. Summary reports of enterprise malware events breaking down malware by type, host, and activity.

		<ul style="list-style-type: none"> • Immediate analysis as to whether the malware maps to a previously KNOWN or UNKNOWN threat *5 minutes Automatic Signature generation after malware analysis and Custom application signatures. * Ability to create custom user-defined signatures * Data filtering: Custom Data Patterns • Severity information, illustrating how effective, other defences would have worked against this threat. • The solution must be able to detect and report malware downloaded by users, or downloaded in the context of a web exploit by using multiple client operating systems with multiple service pack levels. • Solution should have the ability to stop data exfiltration from existing malware infected systems. • Solution should support Local Virtual Machine • Solution should detect potential malicious network traffic, • Solution should identify the potentially compromised system • Solution should perform Dynamic Analysis on the System • Solution should provide an ability to locate the infected Malware sample • Solution should perform Static Analysis *Solution should be port agnostic for web attacks *Generate Anti-Malware signatures *Generate DNS (malware domain) signatures *Built-in Firewall Portal for user authentication and identification * Must have separate management (control) plane and data plane to avoid any disruption to traffic processing while managing the box or generating logs & reports *Equipment Should not be EOS/EOL for next 5 Year from Date of PO."
20 TB SAN	1	<p>Storage Array 2U Bezel 10Gb iSCSI BaseT 8 Port Dual Controller Hard Drive Filler 2.5in, Single Blank (04 Nos), 1.2T x 20 HDD 10K SAS12 2.5 Rack Rails 2U, Power Supply, 580W, Redundant, Flex Jumper Cord (02 Nos) - C13/C14, 4M, 250V, 10A (US, EU, TW, APCC countries except ANZ) 3Years ProSupport:Next Business Day Onsite Service-ACDTS Technical Support-ACDTS For SADMG Countries only - Installation Service Required Mod Specs Info (SADMG)</p>
KVM Switch for Server Rack	1	<p>KVM Switch to manage 06 Servers, Number of Ports: 8 1U 8 Port KVM Switch, Rack Units (Size U): 1, LCD / KVM Type support for Dell/HP Servers</p>

	WiFi APs with Controller	Complete Solution	<p>Wireless Controller (Qty 02): Controller should be able to support up to 150 access points</p> <ul style="list-style-type: none"> • Controller should support up to 4,000 concurrent users session • The Wireless Controller must support a distributed forwarding/local breakout architecture. • Specify any loss of functionality, caveats or loss of capacity/performance is exhibited by the solution in this distributed forwarding mode • On a per WLAN (SSID) basis there must be an option to tunnel traffic to the controller either unencrypted or encrypted format • Support automatic channel adjustment on the Basis of Background scanning and Channel Throughput. • Support automatic transmits power adjustment on each AP to achieve optimal performance. • The controller should provide a captive portal in order to authenticate Guest users that are not part of the organization via a Guest pass key. • Provide a web-based application that allows non-technical staff to create Guest passes that are valid for a time limited duration • Allow the IT Administrator to view and delete individual Guest passes • Allow for batch generation of Guest passes • Controller should be able to scan the Rogue devices from Access Point. • Neighbouring APs should be capable of de-authenticating clients from a Malicious Rogue device i.e., one which is spoofing the BSSID or SSID of a genuine managed AP • Controller support intuitive GUI based control including convenient dashboard views encompassing the entire Wi-Fi network, including a geographical overlay on a map showing the location and status of the access points. • The systems must be capable of identifying device host OS type and the host name. Further: <ul style="list-style-type: none"> • It should be able to utilize the host OS information to provide policy based access such as allow/deny access, rate limit and assign to VLAN • Controller should support following Security and encryption protocol: <ul style="list-style-type: none"> • WEP • WPA-TKIP • WPA2-AES • 802.11i • TKIP • AES <p>Controller should support following Authentication mechanism:</p> <ul style="list-style-type: none"> • 802.1x • MAC-Address • Should support authentication via LDAP, Active Directory and RADIUS sever and also have the internal local database. • Controller should support ACL (Access list) layer 2, layer 3 and layer 4. • Controller should support the OS based policies for iOS, Android, windows and Linux. • Controller must be Compatible with Apple Devices or iOS, also support Bonjour Gateway. • Controller must support 2 x Ethernet Giga bit (10/100/1000) ports. • 1 Year support must be included in Switch, support includes Advanced Hardware Replacement (Next Business Day) and Software upgrades. <p>Wireless Access Points (Qty 26): Indoor Wi-Fi 6 (802.11ax) Access Point</p> <ol style="list-style-type: none"> 1. Access Point must support 802.11 ax standards 2. Support MU-MIMO
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3. The access point should work on 2.4GHz and 5 GHz band simultaneously.
4. Access Point should support 574Mbps (2.4 GHz) and 1200 Mbps (5 GHz).
5. Access Point should support Channelization of 20 MHz, 40 MHz and 80 MHz,
6. Access point must work on 2X2 MIMO with 2 Spatial Streams.
7. Dual Polarized Integrated multiple antennas, Support adaptive Polarization Diversity- MRC (PD-MRC)
8. Support Beamflex and Beamflex+ Technology or equivalent.
9. Support Peak Transmit power of AP: 26 dBm on 2.4 GHz and 28 dBm on 5 GHz Radio.
10. Support automatic RF Channel selection through maximum Channel Throughput Technology.
11. AP should support 802.3af/at/bt POE standards.
12. Support 2X1Gbps port, RJ-45, 1x 10/100/1000 Mbps port RJ-45 .
13. Wireless Security: WPA3, WEP, WPA-PSK, WPA-TKIP, WPA2 AES, 802.11i
14. AP should authenticate via RADIUS, AD (802.1x Support)
15. Support integrated NAT and DHCP as Standalone Access Point.
16. The access point should support 802.1q VLAN tagging
17. AP should support 31 SSID.
18. Should support Transient Client Management, Airtime Decongestion for high density deployments.
19. Implement Wi-Fi alliance standards WMM, WMM-PS, 802.11r, 802.11k and 802.11v.
20. 512+ Concurrent clients support.
21. Support for Rate limiting
22. Include controller Licenses.

PoE Switch (POE+) (Qty 10):

16 Ports POE+ Switch with 1GbE Uplink Ports Support – Access Switch

1. Switch must support following interfaces:
 - a. 16x 1GbE Ports PoE+
 - b. 2x 1G SFP uplink-ports
 2. Switch should support following Capacities:
 - a. 32Gbps Switching Capacity or Higher.
 - b. 23Mbps Forwarding Capacity or Higher.
- C- PoE budget 185W
 D-Multiple management VLAN assignment
 E-Asymmetric VLAN
 F-802.1Q Tagged VLAN
 G-Dynamic GVRP
 H-Up to 256 VLAN groups, ID Range 1-4094
 I-Private VLAN (Protected Ports)
 J-Voice VLAN (10 user defined OUIs)

<p>Networking (40+12) Nodes+ 26 Aps Nodes = 78 Nodes</p>	<p>Complete Solution</p>	<p>Active Equipment: Layer 2 Switches Manageable (Renowned Brand): Quantity = 05 Nos</p> <p>Switch must support following interfaces:</p> <ul style="list-style-type: none"> a. 24x 1GbE Ports b. 2x 1GbE uplink Ports c. 4x 10GbE SFP Ports, <p>Switch should support following Capacities:</p> <ul style="list-style-type: none"> a. 130 Gbps switching Capacity or Higher. b. 95 Mbps Forwarding Capacity or Higher. <p>Minimum specification supported by Switch:</p> <ul style="list-style-type: none"> a. 1 GB DRAM or higher b. 2 GB NVRAM or higher c. 2MB Packet Buffer or higher <p>Switch support 16k MAC address entries and 1000 Router entries. Also support the 4K VLAN, 32 PVLAN, 250 STP, 4k ARP and 8 port maximum Trunk</p> <p>Switch should support Hybrid Port Mode on all the Switch Ports.</p> <p>Passive Nodes Equipment Quantity = 40+12+26= 78 Nos.</p> <p>Installation/Laying/Testing/Tagging & Commissioning of 78 Network Nodes including supply & Installation of Data Cabinets, 24 port Patch Panel, Hanging of Switches, Cable Manager, 8 Port PDU, Cat-6E 23awg Ethernet Cable from patch panel to end point, Laying of 12 core Optical Fiber (single mode), 12 port Rack Mounted ODF with splicing, Network IOs, 1/2/4 shuttered Faceplate, Back-Box, Fiber Patch Cords, Patching at Patch Panel side, End to End UTP Cable test (Fluke testing), UTP Patch Cords, faceplate to system UTP Patch Cord, Ducting, PVC Pipe, HDPE Pipe, Laying of UTP Cables for Wireless access points, Fixing of Access points and Tagging of each node and AP.</p> <p>"Note: Bidder/ROs will submit price per Network Node for passive equipment ONLY (Inclusive of all above work)."</p>
<p>Glass Partitioning Work and Main Door for Server Room</p>	<p>Complete Solution</p>	<p>Glass Partitioning Work and Main Door for Server Room (Glass Partition work size 10x14 feet length and height are 7 feet with 2mm Aluminium, Main door size is 5x7 Feet, (Note: use 12mm Glass tinted & paper with 2mm Aluminium will be used)</p>
<p>Wooden Cabinets (Branded/ latest)</p>	<p>6</p>	<p>Wooden Cabinets (Branded/ latest wooden cabinets each cabinet should have 04 drawers)</p>
<p>Round table small</p>	<p>1</p>	<p>Size: 750mm diameter x 750mm Height Uni top to be made of 25 mm thick E-grade melamine laminated particle board, all edges to be covered with 2 mm thick PVC edging, base to be made 16 guage M.S powder Coated Frame</p>
<p>Sofa's (02 Seater)</p>	<p>3</p>	<p>Two-seater Sofa, high quality molty foam seat and back, cushioned with fabric, powder coated finished M.S 16-gauge structure</p>
<p>Guest chairs (branded)</p>	<p>10</p>	<p>Guest Chair with arms, seat & back cushioned with mesh fabric, base made of M.S chrome finished.</p>
<p>Office tables with revolving</p>	<p>4</p>	<p>Executive Table (Helsinki Leg): Size: 1600 x 750 x 750 mm H Rack size: 1800 x 450 x 600 mm H</p>

	officers chairs (branded)		Uni top to be made of 25 mm thick E-1 grade (imported) melamine laminated particle board, all edges to be covered with 2 mm thick PVC edging, base 16 gauge with M.S Powder coated finished frame with side rack having 03 drawers, CPS compartment and shelves. Executive Revolving Chair (Branded) High back, seat & back with MESH, fully adjustable, gas lift. (imported)
	UPS 10 KVA	2	Smart-UPS RT 10000VA 230V Max Configurable Power (Watts)=8.0kWatts / 10.0kVA, Output Voltage Distortion= Less than 3 %, Output Frequency=50/60 Hz +/- 3 Hz user adjustable +/- 0.1 Hz, Load Crest Factor= 3 : 1, Double conversion online, Sine wave, Input frequency = 50/60 Hz +/- 5 Hz Auto-sensing, Input Total Harmonic Distortion= Less than 7 % for full load, Battery Charge Power (Watts) = 955 Watts, DB-9 RS-232, RJ-45 10/100 Base-T, Smart-Slot, Surge energy rating = 1265Joules along with rail kit for rack mount (or higher specification) 3 years warranty
	2KVA UPSs for each 15U Cabinet	13	SURT2000XLI; Smart-UPS along with Rail kit for Rack Mount and wall hanging steel box
	46" Smart & 3D LED	1	46" Smart & 3D LED with latest features or higher
	Standing ACs Inverter	2	Standing ACs Inverter 02 Tons with latest features
	Temperature Meter	2	Temperature Meter with standard features
	55" Smart LED 4K	2	55" Smart LED 4K with latest features or higher
	Paper Shredder Medium	3	Paper Shredder Medium (standard features)
	Multimedia	1	Specifications "Native Resolution: 800x600 or higher DC type: DC3 Brightness: 3800 ANSI lumens, Contrast Ratio with SuperEco mode: 30,000:1, Display Colour: 1.07 Billion Colours, Light Source: Lamp, Light source life (Nor/SuperEco): 5000/15000, Lamp Watt: 190W, Lens: F=2.56-2.68, f=22-24.1 mm, Projection Offset: 120%+/-5%, Throw Ratio: 1.96~2.15 Image size: 30" - 300" , Throw Distance: 1.19m-13.11m(100" @3.98m) Keystone: ±40° (Vertical) Optical Zoom: 1.1x , Audible Noise (Eco): 27dB, Resolution Support: VGA(640 x 480) to Full-HD(1920 x 1080), HDTV Compatibility: 480i, 480p, 576i, 576p, 720p, 1080i, 1080p Video Compatibility: NTSC, PAL, SECAM, Horizontal Frequency: 15K~102KHz Vertical Scan Rate: 23~120Hz", Input "Computer in (share with component): 2 Composite: 1 Audio-in (3.5mm): 1 HDMI: 1 (Back)" Output "Monitor out: 1 HDMI/VGA Supportive, Audio out (3.5mm): 1 Speaker: 2W", Support Via WiFi connectivity supported
5	Security/ Entry Passes Machine	1	Security/ Entry Passes Machine (with standard features with 500 RFID cards)

Annexure-III

Comparative Statement of Technical Specification of the Quoted Items (format)

LOT #	Item	Description/Qty	Specifications	Specification of the Quoted Item (Filled by Bidder)
1	Sample item	2	Sample Specification	Quoted item specification

Annexure IV

Format for Financial Proposal

Provision of Hardware, Software, IT Equipment, Furniture, Establishment of LAN & Server Room Equipment with Deployment etc.

LOT #	Item	Description/Qty	Specifications	Unit Price (Inclusive of all applicable taxes)	Total Cost (Inclusive of all applicable taxes)
1	Sample item	2	Sample Specification	10	20

BidRefNo. _____
Date of the Opening of Technical Bid

Letter of Intent

Name of the Tender: { }

To: [The Project Manager, National Information Technology Board, Islamabad]

Dear Sir

Having examined the bidding documents, we offer to supply and deliver the Goods under the above-named Contract in full conformity with the said bidding documents and at the rates/unit prices described in the price schedule provided in Financial Bid or such other sums as may be determined in accordance with the terms and conditions of the Contract. The above amounts are in accordance with the Price Schedules attached herewith and are made part of this bid.

We undertake, if our Financial Bid is accepted, to deliver the Goods in accordance with the delivery schedule specified in the schedule of requirements.

If our Financial Bid is accepted, we undertake to provide a performance security/guarantee in the form, in the amounts, and within the times specified in the bidding documents.

We agree to abide by this bid, for the Bid Validity Period specified in the bidding documents and it shall remain binding upon us and may be accepted by you at any time before the expiration of that period.

Until the formal final Contract is prepared and executed between us, this bid, together with your written acceptance of the bid and your notification of award, shall constitute a binding Contract between us.

We understand that you are not bound to accept the lowest or any Financial Bid you may receive. We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in force in Pakistan.

Dated this [insert:number] day of [insert: month],[insert:year].

Signed:

In the capacity of [insert: title or position]

Duly authorized to sign this bid for and on behalf of [insert: name of Bidder]

Name of the Firm
 Bid Reference No: _____
 Date of opening of Bid.

Documentary Evidence for Determining Eligibility of the Bidders & Evaluation of bids. Bidders should only initial against those requirements that they are attaching with the form. Bidders are required to mention the exact page number of relevant document placed in the Bid. Bidders are advised to attach all Supporting documents with this form in the order of the requirement as mentioned in column-1.

Required Documentation	Signature of Bidder	Supporting Document's Name	Page Number in the Bid
NTN Certificate			
GST Certificate			
On Active Tax Payers List of FBR			
Growth Rate of Past 02 years			
Registration/Incorporation/Business Certificate			
Complete Company profile			
Operational Office in Islamabad			
Evidence of Firm's Last 2-Years Performance (Projects of similar nature)			
Affidavit: bidder is not blacklisted by any Federal, Provincial Public sector organization.			
OEM's authorization letter.			
Bid Validity period of 180 days			
Compliance with schedule of requirements			
Submission of required amount of bid security with Financial Bid			
Compliance with Tech Specifications			
OEM warranty: 01-year & onsite support			
Technical brochures/data sheets			
Original Bidding Documents duly signed/stamped			

MANUFACTURER’S AUTHORIZATION*

To: [Project Manager, President Secretariat Project Phase-II, National Information Technology Board, Islamabad]

WHEREAS [name of the Manufacturer] who are established and reputable Manufacturers of [name and/or description of the goods] having factories at [address of factory] do hereby authorize [name and address of Supplier/Agent] to submit a bid, and subsequently sign the Contract with you against the Invitation for Bids (IFB) No. _____ for the goods manufactured by us.

We here by extend our full guarantee and warranty as demanded for the goods offered for supply by the above firm against this Invitation for Bids.

Signature: -----
Designation: -----
Official Stamp: -----

*This letter of authority should be on the letter head of the Manufacturer and should be signed by a person competent and having the power of attorney to bind the Manufacturer. It should be included by the Bidder in its bid.

Firm's Past Performance.

Name of the Firm: _____

Bid Reference No: _____

Date of opening of Bid:

Name of the Client/Institution	Purchase Order No.	Description Of Order	Value of Order	Date of Completion	Work Completion Certificate by client

Bidders may use additional Sheets if required.
All certificates are to be attached with this form.

Performance Guarantee

To: [Project Manager, President Secretariat Project Phase-II, National Information Technology Board, Islamabad]

Whereas [Name of Supplier] (hereinafter called “the Supplier”) has undertaken, in pursuance of Contract No.[number] dated [date] to supply [description of goods] (hereinafter called “the Contract”). And whereas it has been stipulated by you in the said Contract that the Supplier shall furnish you with a Bank Guarantee by a scheduled bank for the sum of 10% of the total Contract amount as a Security for compliance with the Supplier’s performance obligations in accordance with the Contract.

And whereas we have agreed to give the Supplier a Guarantee:

Therefore, we here by affirm that we are Guarantors and responsible to you, on behalf of the Supplier, up to a total of [Amount of the Guarantee in Words and Figures] and we undertake to pay you, upon your first written demand declaring the Supplier to be in default under the Contract and without cavil or argument, any sum or sums within the limits of [Amount of Guarantee]as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the _____ day of_ _____ , 2021/2022

Signature and Seal of the Guarantors/ Bank

Address:

Date:
