



Government of Pakistan
Ministry of Information Technology & Telecommunications
NATIONAL INFORMATION TECHNOLOGY BOARD (NITB)



Government of Pakistan
NATIONAL INFORMATION TECHNOLOGY BOARD (NITB)

Ministry of Information Technology & Telecommunications

INVITATION FOR BIDS

For Supply of Hardware, Software and Miscellaneous Items

Tender No. NITB-4(150)/2016

April 10, 2018

www.nitb.gov.pk

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



General Terms & Conditions

1. Schedule of Requirements and Delivery Timeframe

1.1 Supply of Hardware, Software and Installation of equipment at Government Office in National Information Technology Board (NITB), Islamabad.

LOT NO.	SCHEDULE OF REQUIREMENTS		TIMEFRAME / PERIOD OF SUPPLY/DELIVERY
	HARDWARE / SOFTWARE/ MISCELLANEOUS ITEMS	QUANTITY	
Lot No.1	Firewall	01	For all Lots, 4 to 6-Weeks from the date of issuance of purchase order.
Lot No.2	Network Area Storage (NAS)	01	
Lot No.3	Photocopiers All -in-One Photocopier/Printer/Scanner/ Email)	02	
Lot No.4	Color Laser Jet Printer	01	
Lot No.5	CCTV Solution	01	
Lot No.6	UPS 1.5 KVA	13	
Lot No.7	iOS Tab	01	
Lot No.8	Iphone 7 Plus	01	
Lot No.9	Android Tab	01	
Lot No.10	Android Phone	01	
Lot No.11	Controller based WAP Solution	01	
Lot No.12	Laptops	07	
Lot No.13	Desktop PC	12	
Lot No.14	LaserJet Printer support 250gm paper	01	
Lot No.15	LaserJet Printer	04	
Lot No.16	75" LED Screen	01	
Lot No.17	Air Conditioner 04 Ton (Flooring Standing, Heat & Cool)	04	
Lot No.18	Fax Machine LaserJet	01	



Lot No.19	Water Motors for Water Tank (1HP, Copper Binding, RPM: 2900,3 PHASE,2 STAGE, delivery 70 feet, etc)	02	
Lot No.20	IBM RAD (Software)	01	
Lot No.21	Windows 10 Pro. 64 bit (Software)	05	
Lot No.22	Adobe CC (Enterprise) 2017 (Software)	01	
Lot No.23	JIRA + UFT + Load Runner (Software)	01	
Lot No.24	Acunetix (Web Vulnerability Scanner) (Software)	01	

2. About Bidders/Responding Organizations (ROs)

- 2.1. The Responding Organization (RO) must be registered with Sales Tax and Income Tax Department and should be in possession of a valid NTN certificate. Copies of the certificates must be provided with the bid document and RO must be on the Active Tax Payer List of FBR.
- 2.2. The RO must provide following on their letterhead:
 - a) Name of Organization
 - b) Details of offices across Pakistan
 - c) Location of Head office
 - d) Size of company (number of employees)
 - e) Number of years of being incorporated (at least last **02 years in existence**)
 - f) List of certified and dedicated service Engineers/technicians (where applicable)
- 2.3. The RO to provide information as per templates available at Annexure-I, Annexure-II, and Annexure-III.
- 2.4. The RO may not propose any item/equipment which is refurbished, used, end of life, expire or near to expire.
- 2.5. The RO shall be responsible for payment of any duties/taxes etc. which are imposed by the Government of Pakistan (GOP). The bided 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 procurement contract with the Government.
- 2.6. The RO MUST be certified **Authorized Re-Seller**.
- 2.7. Onsite installation & relevant services to be provided by the vendor/RO/contractor and cost must be included in the bid price.
- 2.8. Financial capability and yearly growth rate (business revenue) of RO 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 relevant business /supplies for last two (02) years at least.
- 2.11. RO should have successfully completed three (03) similar projects in size, nature and value.



3. Preparation of Bids

- 3.1. As per PPRA rules, Single Stage –Two envelope procedure will be used for the said procurement.
- 3.2. The bids shall be submitted in a sealed package/packages in such a manner that the contents are fully enclosed and cannot be known until duly opened.
- 3.3. **Technical Proposal:** Envelope for Technical Proposal shall be marked **“TECHNICAL PROPOSAL”** clearly in bold and legible letters to avoid confusion. It must contain two (02) hard copies and two (02) soft copies of the technical proposal (each being physically separated, sealed and labelled as “Technical Proposal”). Each envelope should contain similar supporting documents.
- 3.4. **Financial Proposal:** Envelope for Financial Proposal shall be marked **“FINANCIAL PROPOSAL”** clearly in bold and legible letters to avoid confusion. It must contain two (02) hard copies of Financial Proposals sealed and marked separately.
- 3.5. **Soft copies of both Technical and financial proposals must be provided along with bid envelopes in inerasable format.** In case of any difference between hard and soft copy, the hard copy will prevail.
- 3.6. **Bid Bond/Security:** A Bid Bond in the shape of a Bank Draft/Pay Order in the name of Deputy Director (Admin), National Information Technology Board, equivalent to 2% of the total cost of the bid must be submitted along with the proposal.
- 3.7. The Bid Bond to be enclosed in a **SEPARATE ENVELOPE**, labelled as **“BID BOND”**, and should be **SEALED**. **It must be ensured by the RO that bid bond should not be in the envelope of financial OR technical proposal. In the technical bid, RO must confirm on company’s letter head that the Bid Bond is being submitted separately as required by NITB.**
- 3.8. RO should duly fill in and submit the **Bid Forms** (01, 02, 03, 04, 05)
- 3.9. RO may bid for one, any number or for all lots.
- 3.10. RO shall submit an **Affidavit** that it is not blacklisted by any Federal, Provincial Public sector organization.
- 3.11. All bids and prices must remain valid for a period of **90 days** from the closing date of the submission of tender documents. However, the ROs are encouraged to state a longer period of validity of the bids.
- 3.12. The currency in the bids shall only be quoted in Pakistan Rupees (PKR).
- 3.13. Equipment/Items/Supplies should have one **(01)** year local warranty, including parts and labour with onsite support.
- 3.14. The end user licenses, end user warranties and end user contracting support services will be in the name of Customer **which is National Information Technology Board (NITB) in our case**, for all the equipment and Software loaded on the equipment delivered during the course of the said procurement.
- 3.15. All equipment/items should be supplied through verifiable distribution channels.
- 3.16. RO should clearly indicate the duration of delivery (MUST be within given timeframe) of items/equipment/services after the award of procurement contract.
- 3.16.1. All queries relating to Tender Notice should be e-mailed to sayyadali@nitb.gov.pk. Answers to the submitted queries shall be given on priority basis.



4. Submission of Bids

- 4.1. Bids shall be delivered by hand or courier in a **SEALED CONFIDENTIAL COVER** and must reach to **Deputy Director (Admin)** National Information Technology Board (NITB), Plot no 24-B, Street No 6, Sector H-9/1, Islamabad (Phone: 051-9265059) on or before the last date indicated in Tender Notice i.e. **25th April, 2018 at 10.00am**. **BIDS/PROPOSALS RECEIVED BY FAX OR EMAIL SHALL NOT BE ACCEPTED.**
- 4.2. All bids submitted after the time prescribed in tender notice/documents shall be rejected and returned without being opened.

5. Opening, Evaluation and Rejection of Bids

- 5.1. Technical bids will be opened on the same date at NITB (above mentioned address clause 5.1) at **10.30 AM** in front of bidder sort their representatives who May choose to be present.
- 5.2. Details of technical specifications required by NITB are attached at Annexure-II. Initial evaluation/screening will be done as per Annexure-I; whereas, technical evaluation as per Annexure-II. ROs should provide all details in required templates as provided under:
 - a) Annexure-I for Initial Screening
 - b) Annexure-II for technical evaluation (technical proposal envelope)
 - c) Annexure-III for financial evaluation (financial proposal envelope).
- 5.3. Date and time for the opening of the Financial Bids, after thorough technical evaluation of the bids, shall be communicated to the technically qualified bidders only, whereas the Financial bids of technically disqualified bidders shall be returned un-opened. In this connection, see PPRA Rule: 36(b) in general and PPRA Rule: 36-b(viii) in particular.
- 5.4. The procuring agency shall read aloud the unit price as well as the bid amount and shall record the minutes of the bid opening. All bidders in attendance shall sign an attendance sheet.
- 5.5. NITB may reject all bids or proposals at any time prior to the acceptance of a bid or proposal. The procuring agency shall upon request communicate to any supplier or contractor who submitted a bid or proposal, the grounds for its rejection of all bids or proposals, but is not required to justify those grounds.
- 5.6. NITB shall incur no liability, solely by virtue of its invoking sub-rule (1) towards suppliers or contractors who have submitted bids or proposals.
- 5.7. In the above case notice of the rejection of all bids or proposals shall be given promptly to all suppliers or contractors that submitted bids or proposals.

6. Disqualification and Blacklisting of suppliers and contractors

- 6.1. NITB shall disqualify a supplier or contractor if it finds, at any time, that the information submitted by him concerning his qualification as supplier or contractor was false and materially inaccurate or incomplete.
- 6.2. Suppliers and contractors who either consistently fail to provide satisfactory performances or are found to be indulging in corruptor fraudulent practices shall face permanent or temporary bar, from participating in procurement proceedings.

7. Acceptance of Bids and Award of Procurement Contract

7.1. Acceptance of Bid and Award Criteria

The bidder after qualifying through the given criteria in **Annexure-I** and **Annexure-II** will be called in for opening of financial proposal/bid. In financial opening the lowest bidder will be selected as per PPRA rules, if not in conflict with any other law, rules, regulations or policy of the Government of Pakistan, shall be awarded the procurement contract, within the original or extended period of bid validity.



7.2. **Procuring Agency's Right over quantities at the time of Award**

The Procuring Agency reserves the right at/after the time of award of procurement contract to increase or decrease, the quantity of goods up to 15% as originally specified in the Annexure-II without any change in unit price or other terms and conditions. Payment will be made for the items actually delivered as per rate (per unit) provided by the bidder.

7.3. **Notification of Award**

- 7.3.1. 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.
- 7.3.2. The notification of award shall constitute the formation of the Contract between the Procuring Agency and the successful Bidder.
- 7.3.3. The enforcement of the Contract shall be governed by Rule 44 of the PPRA-

7.4. **Signing of Contract**

- 7.4.1. After the notification of award, the Procuring Agency shall send the successful Bidder the Contract Form/Document
- 7.4.2. The Contract shall become effective upon affixation of signature of the Procuring Agency and the selected Bidder on the Contract document
- 7.4.3. 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.
- 7.4.4. 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.

8. **Performance Guarantee**

- 8.1. The successful Bidder shall be required to deposit in the form of a Bank Guarantee, a Performance Bond upon execution of the procurement contract, a sum equivalent to **ten percent (10%)** of the total procurement Cost of Lot/Lots, on the Form and in the manner prescribed by the Procuring Agency. 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.
- 8.2. 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



9. Implementation & Payment Schedule

SR. NO.	MILESTONE	TIME PERIOD	PAYMENT
1.	Supply, Installation, configuration and testing of Equipment (Hardware/Software/Other Items)	Four (04) to Six (06) Weeks from the date of signing of contract / issuance of purchase order.	100%
2.	End of performance Guarantee	Performance Guarantee will have to be provided to cover the warranty period of the items which will be one (01) year from the date of successful testing and acceptance.	Release of Performance Guarantee



ANNEXURE-I **Evaluation Criteria**

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

SR. NO.	GENERAL TERMS AND CONDITIONS COMPLIANCE	CLAUSE	YES/NO
1	The Responding Organization (RO) must be registered with Sales Tax and Income Tax Department and should be in possession of a valid NTN certificate. Copies of the certificates must be provided with the bid document and RO must be on the Active Tax Payer List of FBR.	2.1	
2	The RO MUST be certified Authorized Re-Seller 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 relevant business/supplies for at least last two (02)years.	2.10	
5	RO should have successfully completed three (03) similar projects in size, nature and value.	2.11	
6	A bid bond, in the shape of a Bank Draft/Pay Order in the name of Deputy Director (Admin), National Information Technology Board, equivalent to 2% of the total cost of the bid must be submitted along with the proposal.	3.6	
7	RO shall submit an Affidavit that it is not blacklisted by any Federal, Provincial Public sector organization.	3.10	



Annexure-II

Quantities, Required Technical Specification by NITB and Comparative Statement of Technical Specification of the Quoted Items Evaluation & Award Committee will verify the compliance with specifications mentioned below:

Lot #	Item/Quantity	Quantity	Item Description & Required Specifications by NITB		Specification of the Quoted Items (To be filled by bidder)
1	Firewall	1	Type	UTM-Next Generation	
			Processor	1x Intel Core i3-3220 (Ivy Bridge), 3.3GHz	
			RAM	8 GB (DDR3 4Gx2)	
			IPv4 Firewall Throughput (1518 / 512 / 64 byte, UDP)	8 / 8 / 8 Gbps	
			Firewall Latency (64 byte, UDP):	3 μs	
			Firewall Throughput (Packet per Second):	12 Mpps	
			Concurrent Sessions (TCP):	4 to 6 Million	
			New Sessions/Second (TCP):	200,000	
			Firewall Policies	10,000	
			IPsec VPN Throughput (512 byte):	7 Gbps	
			Gateway-to-Gateway IPsec VPN Tunnels	2,000	
			Client-to-Gateway IPsec VPN Tunnels	10,000	
			SSL-VPN Throughput	350 Mbps	
			Concurrent SSL-VPN Users	(Recommended Maximum) 500	
			IPS Throughput	2.8 Gbps	
			Antivirus Throughput	1.4 Gbps	
CAPWAP Clear-text Throughput (HTTP):	4.00 Gbps				
Virtual Domains (Default / Maximum):	10-Oct				



Government of Pakistan
Ministry of Information Technology
NATIONAL INFORMATION TECHNOLOGY BOARD (NITB)



			Maximum Number of Aps	(Total / Tunnel) 512 / 256		
			Maximum Number of Tokens	1,000		
			Maximum Number of Registered Endpoints	600		
			High Availability Configurations	Active-Active, Active-Passive, Clustering		
			Form Factor	1 RU		
			Compliance standard	UL, VCCI, C-Tick, ICSA IPSec certified, ICSA Firewall certified, cUL, ICSA Antivirus, CB, FCC Part 15 A		
			Interfaces	2 x USB - Type A 1 x USB - Type B 1 x console - RJ-45 4 x 1000Base-T - RJ-45 4 x Ethernet 1000 - SFP (mini-GBIC) 2 x management - RJ-45		
			<i>Must be ranked higher than 99% in the NSS Labs NGFW comparative Security Report for Value Map 2016 and company be declared atleast a challenger in Gartner magic quadrant report 2016 for enterprise network firewalls</i>			
			Options of Enterprise Security subscription bundle	Atleast 2 years subscription with 24x7 local support (bundle of 8x5 of principal manufacturer can also be quoted as an option) to be quoted		
			Warranty support	01 Years (Installation, Configuration and Commissioning)		
Demo on Proof of Concept	Demo on Proof of Concept					
Successful bidder has to Sign Service Level Agreement (SLA)	Successful bidder has to Sign Service Level Agreement (SLA)					
2	Network Area Storage (NAS)	1	Type	Network Area Storage (NAS) 8TB		
			Processor	One hexa Core Intel 1.7 GHz E5 V4 or higher. Processor shall have minimum of 20MB L3 cache. NAS Controller shall be scalable to dual number of physical processors.		
			Memory	8GB DDR4 RAM or higher, scalable to 128GB DDR4 RAM		
			Hard Drive	Shall be supplied with minimum of 8 x 1TB drives in Raid 10(useable space must be 4Tb after RAID 10 configurations). Offered NAS controller shall have support for higher capacity drives of 10TB.		
			Connectivity	4 Internal SATA-II Ports 2 RJ45 Ethernet (Gigabit)		



Government of Pakistan
Ministry of Information Technology
NATIONAL INFORMATION TECHNOLOGY BOARD (NITB)



			4 USB 2.0/3.0 host ports	
		Network Protocols	CIFS, NFS, HTTP, HTTPS, FTP,	
		Network Authentication	Microsoft Windows® Server Active Directory	
		File Sharing Protocols	CIFS, NFS, HTTPS, FTP	
		Network Client Types Support	Should support Windows 10, Windows 2012, 2016, , HP-UX, AIX, SOLARIS, Linux etc	
		Volume Management	Share Management, Share Folder Level Access List (ACL) support	
			Volume level management, Smart status monitor	
		Backup Management	Local Backup, Client System backup, Bare Metal over network (USB device to NAS, NAS to USB device), Network NAS to NAS Replication	
		Download Server	Downloader (HTTP and FTP)	
		Remote Access	Global Access service	
		Manageability	Advanced interface with following	
			1.Common interface for NAS management tasks like CIFS, NFS, Volume Management etc.	
			2. Remote management	
			3. Common interface for Multi NAS management from a single console.	
		Operating System	Microsoft Windows Storage Server 2016 - 64 bit edition (NAS optimized) including powered OS drivers	
		De-duplication	Offered NAS shall have block based De-duplication which can be enabled for for all required volumes. De-duplication engine shall have:	
			1. Flexibiity to decide the multiple schedules when de-duplication process can be run.	
			2. Flexibility to limit the time period of de-duplication process so that production operations remains intact.	
			3. Flexibility to bypass the recent files under the de-duplication process so that production operations remains intact.	



				4. License for De-duplication shall be provided.	
				5. Shall support more than 20TB of volumes for de-duplication.	
			File screening and quota management	1. Offered NAS shall have support for file screening so that administrator can ensure that users shall not be able to store unwanted files on offered NAS device.	
				2. Offered NAS shall have Quota management for both Volume and Directory.	
				3. Software for both File screening as well as Quota management shall be provided.	
			File Management	1. Shall have flexibility to expire or move files to different folder / Location / Volumes / drives on the basis of policies like day of creation / modification / access of on the basis of file pattern like extension.	
				2. Shall also be able to expire or move files to different folder / Location / Volumes / Drives on the basis of content classification within files.	
			SAN storage (iSCSI based)	Integrated iSCSI for block access over LAN.	
			Snapshots	Point in time copies of your data to guard against data corruption.	
			Encryption and compression	Shall have support for encryption and Compression. License for both of same shall be offered.	
			Replication	Offered NAS shall also be offered with replication License for Disaster recovery.	
			Warranty	01 year onsite local warranty (Parts and Labor) and (Installation, Configuration and Commissioning)	
			3	Photocopyers/ Work Center	2
System Memory	4096MB				
System Harddisk	250GB				
Copy/Print Speed	up to 75 ppm				
First copy/print time Mono	3.6 sec				
Print resolution	1,800 x 600 dpi; 1,200 x 1,200 dpi				



Government of Pakistan
Ministry of Information Technology
NATIONAL INFORMATION TECHNOLOGY BOARD (NITB)



			Duty cycle	Rec. 80,000 pages; Max. 200,000 pages	
			Toner lifetime black	Up to 40,000 pages	
			Scan speed (mono/colour)	Up to 240 ipm	
			Imaging unit lifetime black	400,000 pages/1,200,000 pages (Drum/Developer)	
			Scan resolution	Up to 600 x 600 dpi	
			Scan modes	Scan-to-eMail (Scan-to-Me); Scan-to-SMB (Scan-to-Home); Scan-to-FTP; Scan-to-Box; Scan-to-USB; Scan-to-WebDAV; Scan-to-DPWS; TWAIN scan	
			File formats	JPEG; TIFF; PDF; compact PDF; encrypted PDF; XPS; compact XPS; PPTX Optional: searchable PDF; PDF/A 1a and 1b; searchable DOCX/PPTX/XLSX	
			Interface	10/100/1,000-Base-T Ethernet; USB 2.0	
			Network protocols	TCP/IP (IPv4 / IPv6); NetBEUI; SMB; LPD; IPP; SNMP; HTTP	
			Automatic document feeder (standard)	up to 300 originals; A6-A3; 35-163 g/m ² ; Dualscan ADF	
			Paper tray input (standard)	1x 500 sheets; A5-SRA3; 52-256 gsm; 3x 500 sheets; A4; 52-256 gsm	
			Paper tray input (optional)	Large Capacity Cabinet (1): 3,000 sheets; A4; 52-256 gsm	
				Large Capacity Cabinet (2): 2,500 sheets; A4-SRA3; 52-256 gsm	
			Manual bypass	Manual Bypass: 150 sheets; A6-SRA3; custom sizes; banner; 52-300 gsm	
			Automatic duplexing	A5-SRA3; 52-256 gsm	
			Output capacity (standard)	Max. 250 sheets	
			Output capacity (optional)	Max. 3,300 sheets	
			Warranty	01 year onsite local warranty (Parts and Labor)	
4	Color LaserJet Printer	1	Type	Color Laser Printer	
			Memory	128MB or Higher	
			Processor speed	600 MHz	
			Print Speed	Up to 21ppm	
			Print resolution	Up to 600 dpi	
			Duty cycle	up to 40,000 monthly	



			Resolution	600 x 600 dpi	
			Paper tray input (standard)	Input tray 1: 50-sheet multipurpose	
				input tray 2: 250-sheets	
			Duplex Printing	Yes	
			Output capacity (standard)	Up to 250 sheets	
			Connectivity	USB & Ethernet	
			Warranty	01 year onsite local warranty (Parts and Labor)	
5	CCTV Solution (UK / USA / Germany)	1	IP Fish eye Camera	4MP (Quantity=2)	
			Image Sensor	1/1.8" 6Megapixel progressive scan CMOS	
			Scanning System	Scanning System	
			Min. Illumination	0.01Lux/F2.0(Color), 0Lux/F2.0(IR on)	
			Max. IR LEDs Length	10m	
			Day/Night	Auto(ICR) / Color / B/W	
			Privacy Masking	Up to 4 areas	
			Focal Length	1.55mm	
			Angle of View	185°/ 185°/ 185°	
			Resolution	6M(3072×2048)/3M(2048×1536)/1080P(1920×1080)	
			De-wrap Mode	Original ,Panoramic, Double Panoramic,1+3,Eptz,4 pictures	
			Ethernet	RJ-45 (100/1000B)	
Protocol	HTTP,TCP,ARP,RTSP,RTP,UDP,RTCP,SMTP,FTP,DHCP,DNS,DDNS,PPPOE,IPv4/v6,SNMP,QoS,UPnP,NTP				
Compatibility	ONVIF, PSIA, CGI				



Government of Pakistan
Ministry of Information Technology
NATIONAL INFORMATION TECHNOLOGY BOARD (NITB)



		Ingress Protection	IP67	
		Vandal Resistance	IK10	
		IP Indoor eyeball Camera	3MP (Quantity=6)	
		Image Sensor	1/3" 3Megapixel progressive CMOS	
		RAM/ROM	256MB/16MB	
		Scanning System	Progressive	
		Minimum Illumination	0.1Lux/F2.0(Color), 0Lux/F2.0(IR on)	
		IR Distance	Distance up to 30m(98ft)	
		Mount Type	Board-in	
		Focal Length	2.8 mm	
		Angle of View	H:98°/77°,V:51°/40.5°	
		Pan/Tilt Range	Pan:0° ~360° ;Tilt:0° ~90° ;Rotation:0° ~360°	
		Streaming Capability	2 Streams or higher	
		Resolution	3M(2048×1536)(2304×1296)/1080P(1920x1080)/720P(1280×720)/D1(704×576/704×480)/ CIF(352×288/352×240)	
		Day/Night	Auto(ICR) / Color / B/W	
		Digital Zoom	16x	
		Ethernet	RJ-45 (10/100Base-T)	
		Protocol	HTTP;HTTPS;TCP;ARP;RTSP;RTP;UDP;SMTP;FTP;	
			DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP;NTP;	
			Bonjour;802.1x;Multicast;ICMP;IGMP	
		Interoperability	ONVIF, PSIA, CGI	
		Ingress Protection	IP67	
		IP Bullet Camera	3MP (Quantity=4)	
		Image Sensor	1/3" 3Megapixel progressive CMOS	
		RAM/ROM	256MB/16MB	
		Scanning System	Progressive	



Government of Pakistan
Ministry of Information Technology
NATIONAL INFORMATION TECHNOLOGY BOARD (NITB)



		Minimum Illumination	0.1Lux/F2.0(Color), 0Lux/F2.0(IR on)	
		IR Distance	Distance up to 30m(98ft)	
		Lens Type	Adjustable & Detachable	
		Mount Type	Board-in	
		Focal Length	2.7~12 mm	
		Angle of View	H:87°~29°, V:42°~15°	
		Pan/Tilt Range	Pan:0° ~360° ;Tilt:0° ~90° ;Rotation:0° ~360°	
		Streaming Capability	2 Streams or higher	
		Resolution	3M(2048×1536)(2304×1296)/1080P(1920x1080)/720P(1280×720)/D1(704×576/704×480)/ CIF(352×288/352×240)	
		Day/Night	Auto(ICR) / Color / B/W	
		Digital Zoom	16x	
		Ethernet	RJ-45 (10/100Base-T)	
		Protocol	HTTP;HTTPs;TCP;ARP;RTSP;RTP;UDP;SMTP;FTP;	
			DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP;NTP;	
			Bonjour;802.1x;Multicast;ICMP;IGMP	
		Interoperability	ONVIF, PSIA, CGI	
		Ingress Protection	IP67	
		NVR	NVR-16 Channel (Quantity=1)	
		Processor	Quad-core embedded processor	
		OS		
			Embedded LINUX	
		Interface	1 HDMI (1 HDMI up to 3840x2160), 1 VGA	
		Resolution	3840x2160, 1920×1080, 1280×1024, 1280×720, 1024×768	
		Multi-screen Display	16CH: 1/4/8/9/16	
		Sync Playback	8CH: 1/4/9 16/32CH: 1/4/9/16	
		Search Mode	Time /Date, Alarm, MD and Exact Search (accurate tosecond)	



Government of Pakistan
Ministry of Information Technology
NATIONAL INFORMATION TECHNOLOGY BOARD (NITB)



			Playback Function	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom	
			Backup Mode	USB Device/Network	
			Internal HDD	2 SATA III Ports, up to 6TB capacity for each HDD	
			Third-party Support	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, and more	
			Compression	H.265/H.264/MJPEG/MPEG4	
			Resolution	12Mp/8Mp/6Mp/5Mp/4Mp/3Mp/1080P/ 720P/ D1&etc.	
			Record Rate	320Mbps	
			Record Mode	Manual, Schedule(Regular(Continuous), MD, Alarm), Stop	
			Interface	1 RJ-45 port (10/100/1000Mbps)	
			Network Function	HTTP, TCP/IP, IPv4/IPv6, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPOE, DDNS, FTP, Alarm Server, IP Search(Support Dahua IP camera, DVR, NVS and etc.), P2P	
			Max. User Access	128 users	
			Interoperability	ONVIF 2.4, CGI Conformant	
			Ports	2 ports (1 Rear USB3.0,1 Front USB2.0)	
				1 Port, for PC Communication and Keyboard	
				1 Port, for PTZ Control	
			Trigger Events	Recording, PTZ, Tour, Alarm Out, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips	
			HDD	HDD 4TB (Quantity=2)	
			Network Switch	Network Switch Gigabit Ethernet POE+ (8 Ports on POE) (Quantity=2)	
			Cabling, Ducting	Cabling, Ducting, Installation, configuration will be the responsibility of supplier. Consolidated installation price will be added in financial bid.	
			Connectors	RJ 45 Connectors (100 Nos.)	
			LED	Branded Smart LED 46" (Quantity=01)	



Government of Pakistan
Ministry of Information Technology
NATIONAL INFORMATION TECHNOLOGY BOARD (NITB)



			Warranty	01 Year (Installation, Configuration and Commissioning)	
6	UPS 1.5KVA	13	Output Power Capacity	1.0 KWatts / 1.5 kVA	
			Nominal Output Voltage	230V	
			Output Voltage Distortion	Less than 5% at full load	
			Output Frequency (sync to mains)	47 - 53 Hz for 50 Hz nominal, 57 - 63 Hz for 60 Hz nominal	
			Other Output Voltages	220, 240	
			Topology	Line Interactive	
			Waveform type	Sine wave	
			Nominal Input Voltage	230V	
			Input frequency	50/60 Hz +/- 3 Hz (auto sensing)	
			Input Connections	IEC-320 C14	
			Input voltage range for main operations	160 - 286V	
			Battery type	Maintenance-free sealed Lead-Acid battery with suspended electrolyte : leakproof	
			Control panel	Multi-function LCD status and control console	
Audible Alarm	Alarm when on battery : distinctive low battery alarm : overload continuous tone alarm				
Warranty	01 years				
7	iOS Tablet	1	Processor	Dual Core	
			RAM	2GB or Higher	
			Storage	16GB	
			Display	9.7"	
			Display Technology	IPS, LED, LCD	
			Display Features	Scratch Resistant Glass, Touchscreen	
			Camera	8MP Rear and 1.2 Front	
			Connectivity	Wireless (3G, 4G, Bluetooth, Wi-Fi, Wi-Fi Hotspot)	
			Battery Life	Up to 10 hours	
			Warranty	1 year with part and labour	



Government of Pakistan
Ministry of Information Technology
NATIONAL INFORMATION TECHNOLOGY BOARD (NITB)



8	IPHONE 7 Plus	1	Processor	Quad-core 2.34 GHz	
			RAM	3GB	
			Storage	16GB or Higher	
			Display	5.5 inches	
			Display Technology	LED-backlit IPS LCD, capacitive touchscreen, 16M colors, Multitouch , 1080 x 1920 pixels	
			Display Features	on-strengthened glass, oleophobic coating , Wide Gamut display, 3D Touch display + home button, Display Zoom	
			Camera	12 MP, autofocus, dual-LED + dual tone) flash , 7 MP, f/2.2, 1080p@30fps, 720p@240fps, face detection, HDR, panorama	
			Connectivity	Wireless (3G, 4G, Bluetooth, Wi-Fi, Wi-Fi Hotspot)	
			Battery	2900 mAh, Standby up to 384 hrs, Talktime up to 21 hrs	
			Warranty	1 year with parts and labour	
9	Android Tab	1	CPU	1.2 GHz Quad-Core	
			RAM	3GB or Higher	
			Storage	16GB	
			Display	9.7	
			Camera	5MP Rear and 2 Front	
			Connectivity	Wireless (3G, 4G, Bluetooth, Wi-Fi, Wi-Fi Hotspot)	
			Battery Life	6000mAh Li-Ion	
			Battery Life	Up to 10 hours	
			Warranty	1 Year with parts and labour	
10	Android Phone	1	CPU	Octa-core 2.2 GHz Cortex-A53	
			RAM	4GB or Higher	
			Storage	64GB	
			Display	5.2 inches - 1080 x 1920 pixels	
			Camera	16MP Rear and 6MP Front	
			Connectivity	Wireless (3G, 4G, Bluetooth, Wi-Fi, Wi-Fi Hotspot)	



Government of Pakistan
Ministry of Information Technology
NATIONAL INFORMATION TECHNOLOGY BOARD (NITB)



			Battery	Li-Ion 2600 mAh battery	
			Battery Life	Up to 10 hours	
			Warranty	1 years with parts and labour	
11	WLAN Solution (Controller Based)	1	Wireless Controller (Quantity=01)	Wireless Controller 4 x Ethernet Giga bit (10/100/1000) ports, supporting 1024 Access Points and manage up to 3000 Aps in cluster configuration. 10 Access Points License should be Included in the Base (5 builtin+5 extra), Controller should support up to 25,000 concurrent users session and 60,000 in Cluster configuration, Support 2000 WLAN SSID on Single Controller, customizable dashboard , automatic channel adjustment and select RF Channel with greater Throughput on the Basis of Channel Throughput , PoE/PoE+ Supportive , automatic transmits power adjustment on each AP to achieve optimal performance, Smart Mesh, HotSpot 2.0 services , detect the Rogue Access point and indicate malicious AP and Mac Spoofing, Compatible with Apple Devices/iOS, OS based policies for iOS, Android, windows and Linux, Controller have the ability to tunnel data from the access points to the controllers, integrated DHCP server, Band balancing, Band Steering, Air time fairness and WLAN time scheduling, Security Standard Support 802.1Q (VLAN) per SSID, WEP, WPA-TKIP, WPA2-AES, 802.11i Encryption: support SMTP outbound authentication and TLS encryption, Authentication: LDAP, Active Directory and RADIUS sever IEEE 802.1X, RADIUS Server Authentication, EAP-TLS, with multiple SSL devices authentication. Guest network and policies ACL (Access list) layer 2, layer 3 and layer 4, Management: SNMP v2, v3, telnet, HTTP, Device must be Wi-Fi Alliance Certified.	
				Mounting Bracket and other Accessories	
				1 Year Comprehensive Warranty	



Government of Pakistan
Ministry of Information Technology
NATIONAL INFORMATION TECHNOLOGY BOARD (NITB)



			<p>Access Point support 802.11 ac wave II standards, work on 2.4 GHz and 5 GHz band simultaneously, Throughput: 450 Mbps (2.4 GHz) and 1.3 Mbps (5 GHz), Support 256 QAM on 2.4 GHz and 5 GHz bands, Channelization of 20 MHz, 40 MHz and 80 MHz, 3 x 3 MIMO with 3 Spatial Streams , Dual Polarized Integrated smart Directional antenna array, adaptive Polarization Diversity- MRC (PD-MRC), Integrated Antenna elements support 1000+ unique antenna pattern, Beamflex and Beamflex+ Technology, 3 dBi physical antenna gain 3-5dB (TX/RX) Beamflex gain, 802.3af POE standards, 2 x Gigabit port.(1 of them must be Power over Ethernet 802.3 af), Wireless Security : WEP, WPA-PSK, WPA-TKIP, WPA2 AES, 802.11i, AP should Authentication : RADIUS, AD and LDAP, integrated NAT and DHCP as Standalone Access Point, 802.1q VLAN tagging, multiple SSID per band, Implement Wi-Fi alliance standards WMM, WMM-PS, 802.11d, 802.11h and 802.11e , 500 Concurrent clients support, IP multicast video streaming, Device must support IPv4, IPv6 and Dual Stack, Mounting Bracket: Mounts to hard wall/ceiling, outlet box, pole, truss. Includes Security screw</p>	
		Wireless Access Points (Quantity=10)	1 Year Comprehensive Warranty	
		PoE Switch (POE+) (Quantity=04)	16 ports POE Switch Power over Ethernet (PoE+)	
			16 x 10/100Mbps RJ-45 ports	
			2 RJ-45 Gigabit Ethernet Uplink Ports	
			2 SFP Gigabit Ethernet Fiber Optical Uplink Ports	
			Powers up to 16 POE	
			POE output of 250 watts (15.6 watts per port)	
			7.2Gbps Switching Capacity	
			Advanced switching (Layer 3) support	
			IEEE 802.3AF / AT Compliant + UL Listed	
			CSMA/CD Compliant	
			Full Duplex operation at 1000Mbps	
			Supports CAT-5/5e/6 up to 100 meters / 300 Feet	
			Rack-Mount compatible with standard racks	



Government of Pakistan
Ministry of Information Technology
NATIONAL INFORMATION TECHNOLOGY BOARD (NITB)



				Access Control List (ACL) support	
				port mirroring, Multiple Spanning Tree Protocol (MSTP)	
				QoS, STP support, VLAN support, auto-sensing per device, auto-uplink (auto MDI/MDI-X), flow control	
			Warranty	01 Years with parts and labour (Installation, Configuration and Commissioning)	
12	Laptop	7	Processor	Intel® Core™ i7-8550U Intel® UHD graphics 620 (1.8 GHz, up to 3.7 GHz with Intel® Turbo Boost Technology 2.0, 8 MB cache, 4 cores), Chipset integrated with processor	
			RAM	8GB (1x8)	
			Hard Drive	1TB	
			Display	14" HD (1366x768) anti-glare LED SVA for HD Webcam with 2 Antennas slim, Intel HD Graphics 620	
			Camera	Integrated HD 720 Webcam	
			Optical Drive	DVD-RW or Higher (optional)	
			Connectivity	Ports: At least three usb ports, one of them must be USB 3.0, Ethernet RJ 45, HDMI, VGA(optional) Audio In/Out for Headphone and Microphone, wifi: 802.11 g/n/ac or higher, Bluetooth 4.0	
			Battery Type	Lithium minimum 3-cell, 60w or better	
			Carrying Case	Leather laptop carrying bag	
			Operating System	MS Windows 10 64 bit Pro. Licensed	
			Warranty	01 Years Local Warranty	
13	Desktop PC with LED 19"	12	Processor:	Intel Core i7 7 th Gen Processor	
			Chipset	Intel Q270 Chipset	
			RAM:	8GB 2133MHz DDR4 Dual Channel	
			Hard Disk:	500 GB 7200RPM	



Government of Pakistan
Ministry of Information Technology
NATIONAL INFORMATION TECHNOLOGY BOARD (NITB)



			DVD Writer		
			Ports & Features: External USB 3.0 Ports, External USB 2.0 Ports, LAN Rj45, HDMI, Display Port		
			USB Keyboard & USB Optical Mouse		
			MS Windows 10 Pro 64bit (Licensed)		
			LED 19"		
			Warranty:	01 Years with parts and labour	
14	LaserJet Printer	1	Must be supported 250 gram papers (A4 and Legal sizes)	Warranty = 01 Year with parts and labour	
15	LaserJet Printer	4	laserJet Print Speed Up to 19 ppm - max speed - Letter A Size (8.5 in x 11 in) Up to 18 ppm - max speed - A4 (8.25 in x 11.7 in) Connectivity Technology wired, wireless Interface USB, Wi-Fi Image Enhancement Technology HP FastRes 1200 Min H-Document Size 3 in Max H-Document Size 14 m Total Media Capacity 150 sheets Frequency Required 50/60 Hz	Warranty = 01 Year with parts and labour	



Government of Pakistan
 Ministry of Information Technology
NATIONAL INFORMATION TECHNOLOGY BOARD (NITB)



16	75" LED Screen	<p>1</p> <p>Resolution 3,840 × 2,160 Screen Size 75" 10 bit Support Yes Video Picture Engine UHD Upscaling Engine PQI (Picture Quality Index) 2300 HDR (High Dynamic Range) HDR EXTREME Dynamic Contrast Ratio Mega Contrast Micro Dimming UHD Dimming Precision Black (Local Dimming) Precision Black Dynamic Crystal Color Yes Auto Motion Plus Yes Film Mode Yes Peak Illuminator Peak Illuminator Pro Dolby Digital Plus Yes DTS Codec Yes Sound Output (RMS) 40W Speaker Type 2.1CH (Down Firing + Front Firing) Woofers Yes Web Browser Yes Digital Broadcasting DVB-T2CS2 x 2 Analog Tuner Yes 2 Tuner Yes Data Broadcasting HbbTV 1.5(CZ,SK,DE,AT,FR,ES,EE) / HbbTV1.0(PL,HU,CH,BE,NL,LU,PT,FI,DK) / MHEG 5(UK,IE) HDMI 4</p>	<p>Warranty = 01 Year with parts and labour</p>	
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Government of Pakistan
Ministry of Information Technology
NATIONAL INFORMATION TECHNOLOGY BOARD (NITB)



17	Air Conditioner for 04 Ton	4	Air Conditioner for 04 Ton Flooring standing (heat and cool)	Warranty = 01 Year with parts and labour	
18	Fax Machine LaserJet	1	Print MethodLaserPrint Speedup to 10 PPMPaper Tray Capacity250 sheets ADF Capacity15 sheets2-Line, 16-character LCD DisplayYesFax Modem Speed33.6 Kbps Super G3 Fax Transmission Speed4 seconds per page Quick ScanYesData Compression SystemMH/MR/MMRFax memory capacity Approx. 120 pages of memory transmission Approx. 170 pages of memory reception	Warranty = 01 Year with parts and labour	
19	Water Motors for Water Tank	2	1HP, Copper Binding, RPM: 2900,3 PHASE,2 STAGE, delivery 70 feet, etc.	Warranty = 01 Year with parts and labour (Re-Seller Authorization is not compulsory)	
20	IBM RAD/01	1	Licensed Software		
21	MS Windows 10 Pro. 64 bit/05	5	Licensed Software		
22	Adobe CC (Enterprise) 2017/01	1	Licensed Software		
23	JIRA + UFT + Load Runner	1	Licensed Software		



Government of Pakistan
Ministry of Information Technology
NATIONAL INFORMATION TECHNOLOGY BOARD (NITB)



24	Acunetix (Web Vulnerabil ity Scanner)	1	Licensed Software	
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Government of Pakistan
Ministry of Information Technology & Telecommunications
NATIONAL INFORMATION TECHNOLOGY BOARD (NITB)



Annexure III
Format for Financial Proposal

Lot #	Item/Quantity	Quantity	Item Description & Required Specifications by NITB	Specification of the Quoted Items (To be filled by bidder)	Inclusive of all applicable taxes	
					Unit Price (PKR)	Total Price (PKR)
1	Firewall	1	Type	UTM-Next Generation		
			Processor	1x Intel Core i3-3220 (Ivy Bridge), 3.3GHz		
			RAM	8 GB (DDR3 4Gx2)		
			IPv4 Firewall Throughput (1518 / 512 / 64 byte, UDP)	8 / 8 / 8 Gbps		
			Firewall Latency (64 byte, UDP):	3 μs		
			Firewall Throughput (Packet per Second):	12 Mpps		
			Concurrent Sessions (TCP):	4 to 6 Million		
			New Sessions/Second (TCP):	200,000		
			Firewall Policies	10,000		
			IPsec VPN Throughput (512 byte):	7 Gbps		
			Gateway-to-Gateway IPsec VPN Tunnels	2,000		
			Client-to-Gateway IPsec VPN Tunnels	10,000		
			SSL-VPN Throughput	350 Mbps		
			Concurrent SSL-VPN Users	(Recommended Maximum) 500		
			IPS Throughput	2.8 Gbps		
			Antivirus Throughput	1.4 Gbps		
			CAPWAP Clear-text Throughput (HTTP):	4.00 Gbps		
Virtual Domains (Default / Maximum):	10-Oct					
Maximum Number of Aps	(Total / Tunnel) 512 / 256					



Government of Pakistan
Ministry of Information Technology
NATIONAL INFORMATION TECHNOLOGY BOARD (NITB)



			Maximum Number of Tokens	1,000			
			Maximum Number of Registered Endpoints	600			
			High Availability Configurations	Active-Active, Active-Passive, Clustering			
			Form Factor	1 RU			
			Compliance standard	UL, VCCI, C-Tick, ICSA IPSec certified, ICSA Firewall certified, cUL, ICSA Antivirus, CB, FCC Part 15 A			
			Interfaces	2 x USB - Type A 1 x USB - Type B 1 x console - RJ-45 4 x 1000Base-T - RJ-45 4 x Ethernet 1000 - SFP (mini-GBIC) 2 x management - RJ-45			
			<i>Must be ranked higher than 99% in the NSS Labs NGFW comparative Security Report for Value Map 2016 and company be declared atleast a challenger in Gartner magic quadrant report 2016 for enterprise network firewalls</i>				
			Options of Enterprise Security subscription bundle	Atleast 2 years subscription with 24x7 local support (bundle of 8x5 of principal manufacturer can also be quoted as an option) to be quoted			
			Warranty support	01 Year (Installation, Configuration & Commissioning)			
			Demo on Proof of Concept	Demo on Proof of Concept			
			Successful bidder has to Sign Service Level Agreement (SLA)	Successful bidder has to Sign Service Level Agreement (SLA)			
2	Network Area Storage (NAS)	1	Type	Network Area Storage (NAS) 8TB			
			Processor	One hexa Core Intel 1.7 GHz E5 V4 or higher. Processor shall have minimum of 20MB L3 cache. NAS Controller shall be scalable to dual number of physical processors.			



Government of Pakistan
Ministry of Information Technology
NATIONAL INFORMATION TECHNOLOGY BOARD (NITB)



			Memory	8GB DDR4 RAM or higher, scalable to 128GB DDR4 RAM			
			Hard Drive	Shall be supplied with minimum of 8 x 1TB drives in Raid 10(useable space must be 4Tb after RAID 10 configurations). Offered NAS controller shall have support for higher capacity drives of 10TB.			
			Connectivity	4 Internal SATA-II Ports			
		2 RJ45 Ethernet (Gigabit)					
		4 USB 2.0/3.0 host ports					
			Network Protocols	CIFS, NFS, HTTP, HTTPS, FTP,			
			Network Authentication	Microsoft Windows® Server Active Directory			
			File Sharing Protocols	CIFS, NFS, HTTPS, FTP			
			Network Client Types Support	Should support Windows 10, Windows 2012, 2016, , HP-UX, AIX, SOLARIS, Linux etc			
			Volume Management	Share Management, Share Folder Level Access List (ACL) support			
				Volume level management, Smart status monitor			
			Backup Management	Local Backup, Client System backup, Bare Metal over network (USB device to NAS, NAS to USB device), Network NAS to NAS Replication			
			Download Server	Downloader (HTTP and FTP)			
			Remote Access	Global Access service			
			Manageability	Advanced interface with following			
				1.Common interface for NAS management tasks like CIFS, NFS, Volume Management etc.			
				2. Remote management			



				3. Common interface for Multi NAS management from a single console.				
		Operating System		Microsoft Windows Storage Server 2016 - 64 bit edition (NAS optimized) including powered OS drivers				
		De-duplication		Offered NAS shall have block based De-duplication which can be enabled for for all required volumes. De-duplication engine shall have:				
				1. Flexibility to decide the multiple schedules when de-duplication process can be run.				
				2. Flexibility to limit the time period of de-duplication process so that production operations remains intact.				
				3. Flexibility to bypass the recent files under the de-duplication process so that production operations remains intact.				
				4. License for De-duplication shall be provided.				
				5. Shall support more than 20TB of volumes for de-duplication.				
			File screening and quota management		1. Offered NAS shall have support for file screening so that administrator can ensures that users shall not be able to store unwanted files on offered NAS device.			



Government of Pakistan
Ministry of Information Technology
NATIONAL INFORMATION TECHNOLOGY BOARD (NITB)



				2. Offered NAS shall have Quota management for both Volume and Directory.			
				3. Software for both File screening as well as Quata management shall be provided.			
			File Management	1. Shall have flexibility to expire or move files to different folder / Location / Volumes / drives on the basis of polices like day of creation / modification / access of on the basis of file pattern like extension.			
				2. Shall also be able to expire or move files to different folder / Location / Volumes / Drives on the basis of content classification within files.			
			SAN storage (iSCSI based)	Integrated iSCSI for block access over LAN.			
			Snapshots	Point in time copies of your data to guard against data corruption.			
			Encryption and compression	Shall have support for encryption and Compression. License for both of same shall be offered.			
			Replication	Offered NAS shall also be offered with replication License for Disaster recovery.			
			Warranty	01 year onsite local warranty (Parts and Labor) and (Installation, Configuration & Commissioning)			
3	Photocopier s/ Work Center	2	Type	Print, Scan, Copy, Fax			
			System Memory	4096MB			
			System Hard disk	250GB			
			Copy/Print Speed	up to 75 ppm			



Government of Pakistan
Ministry of Information Technology
NATIONAL INFORMATION TECHNOLOGY BOARD (NITB)



			First copy/print time Mono	3.6 sec			
			Print resolution	1,800 x 600 dpi; 1,200 x 1,200 dpi			
			Duty cycle	Rec. 80,000 pages; Max. 200,000 pages			
			Toner lifetime black	Up to 40,000 pages			
			Scan speed (mono/colour)	Up to 240 ipm			
			Imaging unit lifetime black	400,000 pages/1,200,000 pages (Drum/Developer)			
			Scan resolution	Up to 600 x 600 dpi			
			Scan modes	Scan-to-eMail (Scan-to-Me); Scan-to-SMB (Scan-to-Home); Scan-to-FTP; Scan-to-Box; Scan-to-USB; Scan-to-WebDAV; Scan-to-DPWS; TWAIN scan			
			File formats	JPEG; TIFF; PDF; compact PDF; encrypted PDF; XPS; compact XPS; PPTX Optional: searchable PDF; PDF/A 1a and 1b; searchable DOCX/PPTX/XLSX			
			Interface	10/100/1,000-Base-T Ethernet; USB 2.0			
			Network protocols	TCP/IP (IPv4 / IPv6); NetBEUI; SMB; LPD; IPP; SNMP; HTTP			
			Automatic document feeder (standard)	up to 300 originals; A6-A3; 35-163 g/m ² ; Dualscan ADF			
			Paper tray input (standard)	1x 500 sheets; A5-SRA3; 52-256 gsm; 3x 500 sheets; A4; 52-256 gsm			
			Paper tray input (optional)	Large Capacity Cabinet (1): 3,000 sheets; A4; 52-256 gsm			
				Large Capacity Cabinet (2): 2,500 sheets; A4-SRA3; 52-256 gsm			
			Manual bypass	Manual Bypass: 150 sheets; A6-SRA3; custom sizes; banner; 52-300 gsm			



			Automatic duplexing	A5-SRA3; 52-256 gsm		
			Output capacity (standard)	Max. 250 sheets		
			Output capacity (optional)	Max. 3,300 sheets		
			Warranty	01 year onsite local warranty (Parts and Labor) and (Installation, Configuration & Commissioning)		
4	Color LaserJet Printer	1	Type	Color Laser Printer		
			Memory	128MB or Higher		
			Processor speed	600 MHz		
			Print Speed	Upto 21ppm		
			Print resolution	Upto 600 dpi		
			Duty cycle	up to 40,000 monthly		
			Resolution	600 x 600 dpi		
			Paper tray input (standard)	Input tray 1: 50-sheet multipurpose		
				input tray 2: 250-sheets		
			Duplex Printing	Yes		
			Output capacity (standard)	Max. 250 sheets		
			Connectivity	USB & Ethernet		
Warranty	01 year onsite local warranty (Parts and Labor)					
5	CCTV Solution	1	IP Fish eye Camera	6MP (Quantity=3)		
			Image Sensor	1/1.8" 6Megapixel progressive scan CMOS		
			Scanning System	Scanning System		
			Min. Illumination	0.01Lux/F2.0(Color), 0Lux/F2.0(IR on)		
			Max. IR LEDs Length	10m		
			Day/Night	Auto(ICR) / Color / B/W		



Government of Pakistan
Ministry of Information Technology
NATIONAL INFORMATION TECHNOLOGY BOARD (NITB)



			Privacy Masking	Up to 4 areas			
			Focal Length	1.55mm			
			Angle of View	185°/ 185°/ 185°			
			Resolution	6M(3072×2048)/3M(2048×1536)/1080P(1920×1080)			
			De-wrap Mode	Original ,Panoramic, Double Panoramic,1+3,Eptz,4 pictures			
			Ethernet	RJ-45 (100/1000B			
			Protocol	HTTP,TCP,ARP,RTSP,RTP,UDP,RTCP,SMTP,FTP,DHCP,DNS,DDNS,PPPOE,IPv4/v6,SNMP,QoS,UPnP,NTP			
			Compatibility	ONVIF, PSIA, CGI			
			Ingress Protection	IP67			
			Vandal Resistance	IK10			
			IP Indoor eyeball Camera	3MP (Quantity=4)			
			Image Sensor	1/3" 3Megapixel progressive CMOS			
			RAM/ROM	256MB/16MB			
			Scanning System	Progressive			
			Minimum Illumination	0.1Lux/F2.0(Color), 0Lux/F2.0(IR on)			
			IR Distance	Distance up to 30m(98ft)			
			Mount Type	Board-in			
			Focal Length	2.8 mm			
			Angle of View	H:98°/77°,V:51°/40.5°			



Government of Pakistan
Ministry of Information Technology
NATIONAL INFORMATION TECHNOLOGY BOARD (NITB)



			Pan/Tilt Range	Pan:0° ~360° ;Tilt:0° ~90° ;Rotation:0° ~360°			
			Streaming Capability	2 Streams or higher			
			Resolution	3M(2048×1536)(2304×1296)/1080 P(1920×1080)/720P(1280×720)/D1(704×576/704×480)/ CIF(352×288/352×240)			
			Day/Night	Auto(ICR) / Color / B/W			
			Digital Zoom	16x			
			Ethernet	RJ-45 (10/100Base-T)			
			Protocol	HTTP;HTTPs;TCP;ARP;RTSP;RT P;UDP;SMTP;FTP;			
				DHCP;DNS;DDNS;PPPOE;IPv4/v 6;QoS;UPnP;NTP;			
				Bonjour;802.1x;Multicast;ICMP;IG MP			
			Interoperability	ONVIF, PSIA, CGI			
			Ingress Protection	IP67			
			IP Bullet Camera	3MP (Quantity=3)			
			Image Sensor	1/3" 3Megapixel progressive CMOS			
			RAM/ROM	256MB/16MB			
			Scanning System	Progressive			
			Minimum Illumination	0.1Lux/F2.0(Color), 0Lux/F2.0(IR on)			
			IR Distance	Distance up to 30m(98ft)			
			Lens Type	Motorized(-ZS),Manual(-VFS)			
			Mount Type	Board-in			
			Focal Length	2.7~12 mm			
			Angle of View	H:87°~29°, V:42°~15°			
			Pan/Tilt Range	Pan:0° ~360° ;Tilt:0° ~90° ;Rotation:0° ~360°			
			Streaming Capability	2 Streams or higher			



Government of Pakistan
Ministry of Information Technology
NATIONAL INFORMATION TECHNOLOGY BOARD (NITB)



			Resolution	3M(2048×1536)(2304×1296)/1080 P(1920x1080)/720P(1280×720)/D1(704×576/704×480)/CIF(352×288/352×240)			
			Day/Night	Auto(ICR) / Color / B/W			
			Digital Zoom	16x			
			Ethernet	RJ-45 (10/100Base-T)			
			Protocol	HTTP;HTTps;TCP;ARP;RTSP;RT P;UDP;SMTP;FTP;			
				DHCP;DNS;DDNS;PPPOE;IPv4/v 6;QoS;UPnP;NTP;			
				Bonjour;802.1x;Multicast;ICMP;IG MP			
			Interoperability	ONVIF, PSIA, CGI			
			Ingress Protection	IP67			
			NVR	NVR-16 Channel (Quantity=1)			
			Processor	Quad-core embedded processor			
			OS	Embedded LINUX			
			Interface	1 HDMI (1 HDMI up to 3840x2160), 1 VGA			
			Resolution	3840x2160, 1920×1080, 1280×1024, 1280×720, 1024×768			
			Multi-screen Display	16CH: 1/4/8/9/16			
			Sync Playback	8CH: 1/4/9 16/32CH: 1/4/9/16			
			Search Mode	Time /Date, Alarm, MD and Exact Search (accurate tosecond)			
			Playback Function	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat,			



Government of Pakistan
Ministry of Information Technology
NATIONAL INFORMATION TECHNOLOGY BOARD (NITB)



				Shuffle, Backup Selection, Digital Zoom			
			Backup Mode	USB Device/Network			
			Internal HDD	2 SATA III Ports, up to 8TB capacity for each HDD			
			Third-party Support	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, and more			
			Compression	H.265/H.264/MJPEG/MPEG4			
			Resolution	12Mp/8Mp/6Mp/5Mp/4Mp/3Mp/1080P/ 720P/ D1&etc.			
			Record Rate	320Mbps			
			Record Mode	Manual, Schedule(Regular(Continuous), MD, Alarm), Stop			
			Interface	1 RJ-45 port (10/100/1000Mbps)			
			Network Function	HTTP, TCP/IP, IPv4/IPv6, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPOE, DDNS, FTP, Alarm Server, IP Search(Support Dahua IP camera, DVR, NVS and etc.), P2P			
			Max. User Access	128 users			
			Interoperability	ONVIF 2.4, CGI Conformant			
			Ports	2 ports (1 Rear USB3.0,1 Front USB2.0)			
				1 Port, for PC Communication and Keyboard			
				1 Port, for PTZ Control			
			Trigger Events	Recording, PTZ, Tour, Alarm Out, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips			



			HDD	HDD 8TB (Quantity=1)		
			Network Switch	Network Switch Gigabit Ethernet POE (12 Ports) (Quantity=2)		
			Cabling, Ducting	Cabling, Ducting, Installation (As Per Running feet)		
			Connectors	RJ 45 Connectors (100 Nos.)		
			LED	Smart 46" (Quantity=01)		
			Warranty	01 Year (Installation, Configuration & Commissioning)		
6	UPS 1.5KVA	13	Output Power Capacity	1.0 KWatts / 1.5 kVA		
			Nominal Output Voltage	230V		
			Output Voltage Distortion	Less than 5% at full load		
			Output Frequency (sync to mains)	47 - 53 Hz for 50 Hz nominal, 57 - 63 Hz for 60 Hz nominal		
			Other Output Voltages	220, 240		
			Topology	Line Interactive		
			Waveform type	Sine wave		
			Nominal Input Voltage	230V		
			Input frequency	50/60 Hz +/- 3 Hz (auto sensing)		
			Input Connections	IEC-320 C14		
			Input voltage range for main operations	160 - 286V		
			Battery type	Maintenance-free sealed Lead-Acid battery with suspended electrolyte : leak proof		
			Control panel	Multi-function LCD status and control console		
Audible Alarm	Alarm when on battery : distinctive low battery alarm : overload continuous tone alarm					
Warranty	01 years					
7	iOS Tablet	1	Processor	Dual Core		



Government of Pakistan
Ministry of Information Technology
NATIONAL INFORMATION TECHNOLOGY BOARD (NITB)



			RAM	2GB or Higher		
			Storage	16GB		
			Display	9.7"		
			Display Technology	IPS, LED, LCD		
			Display Features	Scratch Resistant Glass, Touchscreen		
			Camera	8MP Rear and 1.2 Front		
			Connectivity	Wireless (3G, 4G, Bluetooth, Wi-Fi, Wi-Fi Hotspot)		
			Battery Life	Up to 10 hours		
			Warranty	1 year with part and labour		
8	IPHONE 7 Plus	1	Processor	Quad-core 2.34 GHz		
			RAM	3GB		
			Storage	16GB or Higher		
			Display	5.5 inches		
			Display Technology	LED-backlit IPS LCD, capacitive touchscreen, 16M colors, Multitouch , 1080 x 1920 pixels		
			Display Features	on-strengthened glass, oleophobic coating , Wide Gamut display, 3D Touch display + home button, Display Zoom		
			Camera	12 MP, autofocus, dual-LED + dual tone) flash , 7 MP, f/2.2, 1080p@30fps, 720p@240fps, face detection, HDR, panorama		
			Connectivity	Wireless (3G, 4G, Bluetooth, Wi-Fi, Wi-Fi Hotspot)		
			Battery	2900 mAh, Standby up to 384 hrs, Talk time up to 21 hrs		
			Warranty	1 year with parts and labour		
9	Android Tab	1	CPU	1.2 GHz Quad-Core		
			RAM	3GB or Higher		



			Storage	16GB			
			Display	9.7			
			Camera	5MP Rear and 2 Front			
			Connectivity	Wireless (3G, 4G, Bluetooth, Wi-Fi, Wi-Fi Hotspot)			
			Battery Life	6000mAh Li-Ion			
			Battery Life	Up to 10 hours			
			Warranty	1 Year with parts and labour			
10	Android Phone	1	CPU	Octa-core 2.2 GHz Cortex-A53			
			RAM	4GB or Higher			
			Storage	64GB			
			Display	5.2 inches - 1080 x 1920 pixels			
			Camera	16MP Rear and 6MP Front			
			Connectivity	Wireless (3G, 4G, Bluetooth, Wi-Fi, Wi-Fi Hotspot)			
			Battery	Li-Ion 2600 mAh battery			
			Battery Life	Up to 10 hours			
Warranty	1 years with parts and labour						



11	WLAN Solution (Controller Based)	1	Wireless Controller (Quantity=01)	<p>Wireless Controller 4 x Ethernet Giga bit (10/100/1000) ports, supporting 1024 Access Points and manage up to 3000 Aps in cluster configuration. 10 Access Points License should be Included in the Base (5 builtin+5 extra), Controller should support up to 25,000 concurrent users session and 60,000 in Cluster configuration, Support 2000 WLAN SSID on Single Controller, customizable dashboard , automatic channel adjustment and select RF Channel with greater Throughput on the Basis of Channel Throughput , PoE/PoE+ Supportive , automatic transmits power adjustment on each AP to achieve optimal performance, Smart Mesh, HotSpot 2.0 services , detect the Rogue Access point and indicate malicious AP and Mac Spoofing, Compatible with Apple Devices/iOS, OS based policies for iOS, Android, windows and Linux, Controller have the ability to tunnel data from the access points to the controllers, integrated DHCP server, Band balancing, Band Steering, Air time fairness and WLAN time scheduling, Security Standard Support 802.1Q (VLAN) per SSID, WEP, WPA-TKIP, WPA2-AES, 802.11i Encryption: support SMTP outbound authentication and TLS encryption, Authentication: LDAP, Active Directory and RADIUS sever IEEE 802.1X, RADIUS</p>			
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Government of Pakistan
Ministry of Information Technology
NATIONAL INFORMATION TECHNOLOGY BOARD (NITB)



				Server Authentication, EAP-TLS, with multiple SSL devices authentication. Guest network and policies ACL (Access list) layer 2, layer 3 and layer 4, Management: SNMP v2, v3, telnet, HTTP, Device must be Wi-Fi Alliance Certified.			
				Mounting Bracket and other Accessories			
				1 Year Comprehensive Warranty (Installation, Configuration & Commissioning)			



Government of Pakistan
 Ministry of Information Technology
NATIONAL INFORMATION TECHNOLOGY BOARD (NITB)



			<p>Wireless Access Points (Quantity=10)</p>	<p>Access Point support 802.11 ac wave II standards, work on 2.4 GHz and 5 GHz band simultaneously, Throughput: 450 Mbps (2.4 GHz) and 1.3 Mbps (5 GHz), Support 256 QAM on 2.4 GHz and 5 GHz bands, Channelization of 20 MHz, 40 MHz and 80 MHz, 3 x 3 MIMO with 3 Spatial Streams , Dual Polarized Integrated smart Directional antenna array, adaptive Polarization Diversity- MRC (PD-MRC), Integrated Antenna elements support 1000+ unique antenna pattern, Beamflex and Beamflex+ Technology, 3 dBi physical antenna gain 3-5dB (TX/RX) Beamflex gain, 802.3af POE standards, 2 x Gigabit port.(1 of them must be Power over Ethernet 802.3 af), Wireless Security : WEP, WPA-PSK, WPA-TKIP, WPA2 AES, 802.11i, AP should Authentication : RADIUS, AD and LDAP, integrated NAT and DHCP as Standalone Access Point, 802.1q VLAN tagging, multiple SSID per band, Implement Wi-Fi alliance standards WMM, WMM-PS, 802.11d, 802.11h and 802.11e , 500 Concurrent clients support, IP multicast video streaming, Device must support IPv4, IPv6 and Dual Stack, Mounting Bracket: Mounts to hard wall/ceiling, outlet box, pole, truss. Includes Security screw</p>			
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				1 Year Comprehensive Warranty (Installation, Configuration & Commissioning)			
			PoE Switch (POE+) (Quantity=04)	16 ports POE Switch Power over Ethernet (PoE+)			
				16 x 10/100Mbps RJ-45 ports			
				2 RJ-45 Gigabit Ethernet Uplink Ports			
				2 SFP Gigabit Ethernet Fiber Optical Uplink Ports			
				Powers up to 16 POE			
				POE output of 250 watts (15.6 watts per port)			
				7.2Gbps Switching Capacity			
				Advanced switching (Layer 3) support			
				IEEE 802.3AF / AT Compliant + UL Listed			
				CSMA/CD Compliant			
				Full Duplex operation at 1000Mbps			
				Supports CAT-5/5e/6 up to 100 meters / 300 Feet			
				Rack-Mount compatible with standard racks			
				Access Control List (ACL) support port mirroring, Multiple Spanning Tree Protocol (MSTP)			
			QoS, STP support, VLAN support, auto-sensing per device, auto-uplink (auto MDI/MDI-X), flow control				
			Warranty	01 Years with parts and labour and (Installation, Configuration & Commissioning)			



Government of Pakistan
Ministry of Information Technology
NATIONAL INFORMATION TECHNOLOGY BOARD (NITB)



12	Laptop	7	Processor	Intel® Core™ i7-8550U Intel® UHD graphics 620 (1.8 GHz, up to 3.7 GHz with Intel® Turbo Boost Technology 2.0, 8 MB cache, 4 cores), Chipset integrated with processor			
			RAM	8GB (1x8)			
			Hard Drive	1TB			
			Display	14" HD (1366x768) anti-glare LED SVA for HD Webcam with 2 Antennas slim, Intel HD Graphics 620			
			Camera	Integrated HD 720 Webcam			
			Optical Drive	DVD-RW or Higher (optional)			
			Connectivity	Ports: At least three usb ports, one of them must be USB 3.0, Ethernet RJ 45, HDMI, VGA(optional) Audio In/Out for Headphone and Microphone, wifi: 802.11 g/n/ac or higher, Bluetooth 4.0			
			Operating System	MS Windows 10 Pro 64bit (Licensed)			
			Battery Type	Lithium minimum 3-cell, 60w or better			
			Carrying Case	Leather laptop carrying bag			
			Warranty	01 Years Local Warranty			
13	Desktop PC with LED 19"	12	Processor:	Intel Core i5 6700 Processor (upto 3.4GHz)			
			Chipset	Intel Q270 Chipset			
			RAM:	8GB (1x8GB) 2133MHz DDR4 Dual Channel			
			Hard Disk:	500 GB 7200RPM			
			DVD Writer	DVD Writer			



Government of Pakistan
Ministry of Information Technology
NATIONAL INFORMATION TECHNOLOGY BOARD (NITB)



			Ports & Features: External USB 3.0 Ports, External USB 2.0 Ports, LAN Rj45, HDMI, Display Port	Ports & Features: External USB 3.0 Ports, External USB 2.0 Ports, LAN Rj45, HDMI, Display Port			
			USB Keyboard & USB Optical Mouse	USB Keyboard & USB Optical Mouse			
			Operating System	MS Windows 10 Pro 64bit (Licensed)			
			LED 19"	LED 19"			
			Warranty:	01 Years with parts and labour			
14	LaserJet Printer	1	Must be supported 250 gram papers (A4 and Legal sizes)	Warranty = 01 Year with parts and labour			
15	LaserJet Printer	4	laserJet Print Speed Up to 19 ppm - max speed - Letter A Size (8.5 in x 11 in) Up to 18 ppm - max speed - A4 (8.25 in x 11.7 in) Connectivity Technology wired, wireless Interface USB, Wi-Fi Image Enhancement Technology HP FastRes 1200 Min H-Document Size 3 in Max H-Document Size 14 m Total Media Capacity 150 sheets Frequency Required 50/60 Hz	Warranty = 01 Year with parts and labour			



Government of Pakistan
Ministry of Information Technology
NATIONAL INFORMATION TECHNOLOGY BOARD (NITB)



16	75" LED Screen	1	<p>Resolution 3,840 × 2,160 Screen Size 75" 10 bit Support Yes Video Picture Engine UHD Upscaling Engine PQI (Picture Quality Index) 2300 HDR (High Dynamic Range) HDR EXTREME Dynamic Contrast Ratio Mega Contrast Micro Dimming UHD Dimming Precision Black (Local Dimming) Precision Black Dynamic Crystal Color Yes Auto Motion Plus Yes Film Mode Yes Peak Illuminator Peak Illuminator Pro Dolby Digital Plus Yes DTS Codec Yes Sound Output (RMS) 40W Speaker Type 2.1CH (Down Firing + Front Firing) Woofer Yes Web Browser Yes Digital Broadcasting DVB-T2CS2 x 2 Analog Tuner Yes 2 Tuner Yes Data Broadcasting HbbTV 1.5(CZ,SK,DE,AT,FR,ES,EE) / HbbTV1.0(PL,HU,CH,BE,NL,LU,PT,FI,DK) / MHEG 5(UK,IE) HDMI 4</p>	Warranty = 01 Year with parts and labour		
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Government of Pakistan
Ministry of Information Technology
NATIONAL INFORMATION TECHNOLOGY BOARD (NITB)



17	Air Conditioner for 04 Ton	4	Air Conditioner for 04 Ton Flooring standing (heat and cool)	Warranty = 01 Year with parts and labour			
18	Fax Machine LaserJet	1	Print Method Laser Print Speedup to 10 PPM Paper Tray Capacity250 sheets ADF Capacity15 sheets2-Line, 16-character LCD Display Yes Fax Modem Speed33.6 Kbps Super G3 Fax Transmission Speed4 seconds per page Quick Scan Yes Data Compression System MH/MR/MMR Fax memory capacity Approx. 120 pages of memory transmission Approx. 170 pages of memory reception	Warranty = 01 Year with parts and labour			
19	Water Motors for Water Tank	2	1HP, Copper Binding, RPM: 2900,3 PHASE,2 STAGE, delivery 70 feet, etc.	Warranty = 01 Year with parts and labour (Re-Seller Authorization is not compulsory)			
20	IBM RAD/01	1	Licensed Software				
21	MS Windows 10 Pro. 64 bit/05	5	Licensed Software				
22	Adobe CC (Enterprise) 2017/01	1	Licensed Software				
23	JIRA + UFT + Load Runner	1	Licensed Software				
24	Acunetix (Web Vulnerability Scanner)	1	Licensed Software				



Government of Pakistan
Ministry of Information Technology
NATIONAL INFORMATION TECHNOLOGY BOARD (NITB)





BID FORM-01
LETTER OF INTENT

Bid Ref No.: _____
Date: _____ Date of the Opening of Technical Bid
Name of the Tender: _____

To,
DEPUTY DIRECTOR (ADMN)
National Information Technology Board (NITB)
Plot no 24-B, Street No 6
Sector H-9/1, Islamabad

LETTER OF INTENT

Dear Sir,

Having examined the tender documents, we offer to supply and deliver the Goods/Services under the above named tender in full conformity with the said bidding documents/rules and at the rates/unit prices described in the price schedule provided in Financial Bid (Annexure-III) or such other sums as may be determined in accordance with the terms & conditions of the said tender. 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/Services 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 tender documents.

We agree to abide by this bid, for the Bid Validity Period specified in the tender 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 procurement contract is prepared and executed between us, this bid, together with your written acceptance of the bid and your notification of award of the contract, shall constitute a binding Procurement 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: _____

Signed: _____

In the capacity of: _____ **(title or position)**

Duly authorized to sign this bid for and on behalf of: _____ **(name of Bidder)**



BID FORM-02
DOCUMENTARY EVIDENCE

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-2.

SR. NO.	REQUIRED DOCUMENTATION	SIGNATURE OF BIDDER	SUPPORTING DOCUMENT'S NAME	PAGE NUMBER IN THE BID
1	NTN Certificate			
2	GST Certificate			
3	On Active Tax Payers List of FBR			
4	Growth Rate of Past two (02) years			
5	Registration/Incorporation/Business Certificate			
6	Complete Company profile			
7	Operational Office in Islamabad			
8	Evidence of Firm's Last two (02) years Performance (Projects of similar nature)			
9	Affidavit: bidder is not blacklisted by any Federal, Provincial Public sector organization			
10	Authorization Re-Seller letter			
11	Bid Validity period of 90 days			
12	Compliance with schedule of requirements			
13	Submission of required amount of bid security with Financial Bid			
14	Compliance with Tech Specifications			
15	Warranty 01 years & onsite support			
16	Technical brochures/data sheets of products			
17	Original Bidding documents duly signed/stamped			



BID FORM-03
RE-SELLER AUTHORIZATION*

Date: _____

To,
DEPUTY DIRECTOR (ADMN)
National Information Technology Board (NITB)
Plot no 24-B, Street No 6
Sector H-9/1, Islamabad

WHEREAS [name of the Re-Seller Authorization] 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: _____

Name: _____

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.



BID FORM-04
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

Note: 1. Bidders may use additional Sheets if required.
2. All certificates are to be attached with this form

Signature: _____
Name: _____
Designation: _____
Official Stamp: _____



BID FORM-05
PERFORMANCE GUARANTEE

To,
DEPUTY DIRECTOR (ADMN)
National Information Technology Board (NITB)
Plot no 24-B, Street No 6
Sector H-9/1, Islamabad

Whereas [Name of Supplier] (hereinafter called "the Supplier") has undertaken, in pursuance of Contract No.[number] dated [date] to supply [description of goods/services] (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 __, 2018/19

Signature and Seal of the Guarantors/ Bank

Address: _____

Date: _____