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Ministry of Human Rights Islamabad  
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**TENDER**

**FOR**

**SUPPLY OF IT EQUIPMENT, MACHINERY &  
FURNITURE**

[www.mohr.gov.pk](http://www.mohr.gov.pk)

**Section Officer (General)**

Ministry of Human Rights, 9<sup>th</sup> floor, Kohsar Block, Pak Secretariat Islamabad. Phone: 051- 9202890

Fax: 051- 9246108



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**General Terms & Conditions**

- 1.0** Scope of Work, Timeframe and penalties  
**1.1** Supply of Hardware& Software

Supply and Installation of equipment at the MOHR, Islamabad

S#	Milestone	Time Period
1	Delivery, Installation, after Sale Service, Warranty	6-8 weeks from date of signing of contract / issuance of purchase order.

- 1.2** 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.
- 1.3** 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 05 years in existence). List of certified and dedicated service Engineers/technicians along with contact information should also be provided.
- 1.4** The RO to provide information as per **(Annexure 'A')**. RO may not propose any kind of refurbished/Used/End of Life/ Near End of Life equipment /components in their proposals.
- 1.5** The RO should never have been blacklisted by any Government organization.
- 1.6** The RO should be registered with FBR.
- 1.7** The RO should have offices in at least 03 main cities of Pakistan.
- 1.8** The RO should have its operational service centre in Islamabad/Rawalpindi.
- 1.9** The RO shall be responsible for payment of any duties/taxes etc. that are imposed by the GOP during the currency of the project.
- 1.10** The RO should be authorized partner of the quoting products from Original Manufacturer. Onsite services to be provided by the vendor.
- 1.11** 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.
- 1.12** The RO should provide financial capability and yearly growth rate (business revenue) in past 05 years.
- 1.13** RO must provide value, size and nature of projects done in past 3 years with respect to quoted hardware. Purchase orders and satisfactory performance certificates by the customers may be attached.
- 1.14** The RO should be authorized partner/seller of the Principal.



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**Terms & Conditions.**

- 1.15 The RO participating in should have at least 5 certified engineers at Islamabad office.
- 1.16 The RO participating in should be Tier-1/highest level Partner of the Principal.
- 1.17 The RO participating in should be Authorized Service Delivery Partner of the Manufacturer.
- 1.18 The RO participating in should provide Manufacturers Authorization Letter for the quoted equipment.
- 1.19 The RO participating in should provide details of at least 3 projects of approximately same size and nature.

**How to prepare bid(s)?**

- 1.20 Detail of technical specifications is attached at **Annex-A**.
- 1.21 Responding Organizations should provide all details required in **Annex A** and datasheets.
- 1.22 Responding Organizations should provide the financial details as per **bid Performa IV**.
- 1.23 Responding Organizations may quote for any or all items given in the tender.
- 1.24 A bid bond, in the form of a Bank Draft/Pay Order in the name of D.D.O, Ministry of Human Rights, equivalent to **5%** of the total cost of bid should be submitted along with the tender. All proposal and price shall remain valid for a period of 150 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.
- 1.25 All currency in the proposal shall be quoted in Pakistan Rupees (PKR).
- 1.26 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.
- 1.27 Hardware equipment should have three (03) years warranty, including parts and Labour with onsite support.
- 1.28 The end user licenses, warranties, and 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.
- 1.29 All equipment should be supplied through verifiable distribution channels.
- 1.30 RO should clearly indicate the duration of delivery of equipment after the award of contract.

**Bid preparation: -**

- 1.31 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 MOHR.***
- 1.32 Envelope for financial proposals should clearly mark: “Financial Proposal”. Two hard copies of Technical Proposal and Financial proposal are required.
- 1.33 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.



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**How bid(s) should be submitted?**

- 1.34** Proposals shall be delivered by hand or courier so as to reach the address given below by the last date indicated for submission. PROPOSALS RECEIVED BY FAX OR EMAIL SHALL NOT BE ACCEPTED.

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Ministry of Human Rights, 9th floor, Kohsar Block, Pak Secretariat.

Phone: 051- 9202890, Fax: 051- 9203132

- 1.35** Bids may be submitted to undersigned in a SEALED CONFIDENTIAL COVER at the address given above within 15 days from the date of appearance the tender in the press and must reach this office by 1:30 p.m. Technical Bids will be opened on same day at 02 p.m in the presence of representative of bidding firm who wish to be present in the Committee room of the Ministry of Human Rights. The Financial Bids of only & only technically qualified vendors will be opened; whereas the financial bids of technically disqualified vendors shall be returned un-opened. In this connection, see PPRA Rule: 36(b) in general and PPRA Rule: 36-b (viii) in particular.



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## 2. Award of Contract

### 2.1 Acceptance of Bid and Award Criteria

The Bidder whose bid is found to be most closely conforming to the Evaluation Criteria prescribed in **Annexure-A** and having the lowest evaluated bid, if not in conflict with any other law, rules, regulations or policy of the Government of Pakistan, shall be awarded the Contract, within the original or extended period of bid validity.

### 2.2 Procuring Agency's Right over quantities at the time of Award

The Procuring Agency reserves the right at/after the time of award of Contract to increase the quantity of goods up to 15% and decrease the quantity as per the then current requirements as originally specified in the Schedule of Requirements (Annexure-A) without any change in unit price or other terms and conditions. Payment related to Lot-1 will be made for the items actually delivered as per rate per unit provided by the bidder.

### 2.3 Notification of Award

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

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

2.3.3 The enforcement of the Contract shall be governed by Rule 44 of the PPRA-2004.

### 2.4 Signing of Contract

2.4.1 After the notification of award, the Procuring Agency shall send the successful Bidder the Contract Form.

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

2.4.3 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.

### 2.5 Performance Guarantee

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

2.5.2 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 MOHR with the Bank of the successful bidder.



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2.5.3 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.

**3. Implementation & Payment Schedule**

	Milestone	Time Period	Payment
1.	Supply, Installation, configuration and testing of Equipment (Hardware/Software)	6-8 weeks from the date of issuance of supply order.	100%
2.	End of performance Guarantee	Performance Guarantee will have to be provided to cover the warranty period of the hardware which will be three(03) year from the date of successful testing and acceptance.	Release of Performance Guarantee



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**Annexure-A**

Sr.No.	NAME OF ITEMS	Quantity
<b>COMPUTER / HARDWARE (LOT 1)</b>		
1.1	Laptops (Category – 1)	5
1.2	Laptops (Category – 2)	5
1.3	Server	1
1.4	VMware-VSphere Standard (2 sockets)	1
<b>PRINTERS AND SCANNERS (LOT 2)</b>		
2.1	Heavy Duty Scanner	4
2.2	Network Laser (All in One type, Printer, Copy, Scan, Fax)	6
2.3	Fax Machine	6
2.4	Color Printer	2
2.5	Printer (Normal)	35
2.6	Standard Scanner	30
<b>IT EQUIPMENT (LOT 3)</b>		
3.1	Core Switch	2
3.2	Access Switch (POE Enabled)	3
3.3	Access Switch (Non POE)	1
3.4	10G SFP (Optical)	8
3.5	10G SFP (Copper)	12
3.6	Data Rack for Server Room	1
3.7	9U single Section imported Rack	2
3.8	WLAN APs	30
3.9	Patch Panel	4
3.10	Cat 6 Cable	5



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3.11	Faceplate	50
3.12	Patch cord (3m, UTP)	144
3.13	Patch cord (1m, UTP)	144
3.14	PVC flexible Pipe: PVC Pipe 2" (as per actual)	100 feet
3.15	PVC flexible Pipe: PVC Pipe 1.5" (as per actual)	150 feet
3.16	Duct: 16 x 25 (as per actual)	1250 feet
3.17	Ducts: 16*38 and 40 x 40 (as per actual)	1000 each
3.18	Duct: Flexible Duct (as per actual)	1500 feet
3.19	OM3 10G Fiber 8 Core	3200 feet
3.20	Fiber ODF 10G	4
3.21	Fiber Patch cords 10G OM3	24
3.22	Mis. Equipment	1
3.23	Installation, Commissioning & Warranty	1
<b>NG-FIREWALL (LOT 4)</b>		
4.1	NG-Firewall	1
<b>MACHINERY &amp; EQUIPMENT (LOT 5)</b>		
5.1	Invertor Air Conditioner 1.5 Ton	2
5.2	UPS 6 KVA with rack	1
5.3	UPS 1 KVA	3
<b>BIOMETRIC &amp; CCTV (LOT 6)</b>		
6.1	Biometric System	2
6.2	CCTV System	1
<b>VIDEO CONFERENCING SYSTEM (LOT 7)</b>		
7.1	Video Conference System	1
<b>COMPUTER ASSECORIES (LOT 8)</b>		
8.1	Portable External Hard Drive 2TB	5





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8.2	USB Flash Drive 64GB	10
8.3	Wireless Keyboard & Mouse	12 + 12
8.4	Digital Voice Recorder	3
<b>NETWORK / INTERNET ACCESS CONTROL SOLUTION (LOT 9)</b>		
9.1	Network / Internet Access Control Solution	1
<b>FURNITURE (LOT 10) (Bidder may bid for individual items)</b>		
10.1	Officer Table	3
10.2	Officer Chair	3
10.3	Computer Chair	4
10.4	Staff and Visitor Chair	20



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**SPECIFICATIONS FOR COMPUTER & EQUIPMENTS  
COMPUTER / HARDWARE (LOT 1)**

Sr.N O	Item	Specification	
1.1	Laptops (Category – 1)	Processor	10th Generation Intel® Core™ i7 with vPro™, 1.1/4.9 GHz, 12 MB Cache (minimum)
		Memory	32GB DDR4 2667Mhz Memory (16 GB Soldered + 16 GB DIMM) (minimum)
		Hard Drive	1 TB PCIe SSD
		Display	14.0" FHD (1920 x 1080) IPS, anti-glare with Privacy Guard, 500 nits minimum
		Graphic Card	NVIDIA® Quadro® P520 2GB or higher
		Ports	Ports: 2 x USB-A 3.1 (Gen 1, with 1 always on), USB-C 3.1 (Gen 2, with Thunderbolt™ 3, DisplayPort, data transfer, power delivery), USB-C 3.1 (Gen 1, with DisplayPort, data transfer, power delivery), HDMI, RJ45, MicroSD card reader (UHS-I), Headphone / mic combo, Smart card reader (SD, SDHC, SDXC, MMC)
		Connectivity	Connectivity: WLAN: Intel® Wi-Fi 6 AX201 2*2ax + Bluetooth® 5.0, WLAN: Intel® Wi-Fi AX201 2*2ax + Bluetooth® 5.0 with vPro™, WWAN*: Fibocom L850 LTE-A CAT6,9, NFC
		Camera	HD 720p (minimum) with Shutter privacy cover
		Security	Discrete TPM 2.0, Fast Identity Online (FIDO) authentication capabilities, Camera Shutter privacy shutter, Match-on-Chip Touch fingerprint reader, Kensington® security lock slot, Smart card reader (SD, SDHC, SDXC, MMC)
		Keyboard	Spill resistant, Backlight with white LED lighting, US English
		AC Adapter	USB-C 65W (supports Rapid Charge)
		Battery	Up to 15 hours minimum
		Laptop Bag	Top load 15.6" case
		OS	Windows 10 Pro OLP 64bit
		Warranty	3/3/3 (material/labor/onsite) Warranty
		Eligibility Criteria	Valid partnership certificate



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1.2	Laptops (Category – 2)	Processor	10th Gen Intel core i7, 1.8GHz, 8MB Cache (minimum)
		Memory	16GB DDR4 2666Mhz (minimum)
		Hard Drive	512GB SSD
		Display	14.0 FHD (1920x1080), IPS, Anti-glare
		Graphic Card	Discrete AMD Radeon™ RX 640 or higher
		Ports	USB 3.1 Gen 1 (USB-C, with Power Delivery and DisplayPort Alt Mode), USB 3.1 Gen 1, USB 2.0, HDMI 1.4b, RJ45, Headphone / mic combo
		Connectivity	Intel® 2 x 2 AC (WiFi 5), Intel® 2 x 2 AX (WiFi 6), Bluetooth® 5.0
		Camera	720p (minimum) Camera with Privacy Sutter
		Security	Discrete TPM 2.0, Kensington lock slot, Shutter physical webcam cover, Smart Power On (integrated fingerprint reader with power button)
		Keyboard	Full-sized, Backlight
		AC Adapter	65W supports Rapid Charge functionality
		Battery	Up to 12.8 hours on a 45Whr battery minimum
		Laptop Bag	Top load 15.6" case
		OS	Windows 10 Pro OLP 64bit
		Warranty	3/3/3 (material/labor/onsite) Warranty
		Eligibility Criteria	Valid partnership certificate



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1.3	Server	Type	Branded rack servers from renowned Server manufacturers preferably from US/Japan/China.
		Processors	8SFF 2 x Intel Xeon Scalable 4210R or above
		RAM	128GB (4 x 32GB) Minimum
		Hard Drive	1.2TB x 4 10K RPM SAS 12Gbps 512n 2.5in Hot-plug Hard Drive
		OS	Windows Server® 2019, Standard, 20CORE, No MED, 50 CALs, Multi-Language with Licensed end Point Security Protection( for 50 Users)
		Optical Drive	9.5mm SATA DVD-RW Jb Gen 14 kit
		Network Controller	Broadcom 4x1Gbe, 2x10Gbe
		RAID Controller	RAID 0/1/10/5/50/6/60 with 2GB Cache RAID Controller
		Expansion Slots	(6) X PCIe;
		Power Supply	Dual, Hot-plug, Redundant Power Supply (1+1)
		Warranty	Three years onsite Local Warranty (Parts, Labor, onsite)
		Support	OEM must have registered office and local support office in Pakistan from at least 01 year
			OEM must have technical support team in Pakistan
			Valid Partnership Certificate

1 . 4	VMware-VSphere Standard (2 sockets)	VMware-VSphere 7.0 Standard - Licensed (2 sockets)
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**PRINTERS AND SCANNERS (LOT 2)**

Sr.N O	Item	Specification	
2.1	Heavy Duty Scanner	Scan Type	ADF Scanner with flat bed
		Digital sending standard features	Local or network folder; e-mail; SharePoint 2007 & 2010; Cloud destinations; Google Drive; Box; FTP; printer; fax; user-defined command-line application; web folder
		Through put Speed Color/greyscale/B&W	Up to 50 ppm/100 ipm (black & white, color, greyscale, 200 dpi)
		Operator Control Panel	User Friendly preferably Graphical LCD controls
		Imaging Technology	Color/Dual CCD (Grayscale output bit depth is 256 levels)
		Illumination	LED
		Output resolution	50 to 600 dpi
		Max Document size.	Legal, with option to scan long documents
		Min Document size.	2 x 2 inch or less
		Paper thickness and weight	27 to 413 g/m <sup>2</sup>
		Paper Path	Straight paper path for ADF
		Multi Feed Detection	Ultrasonic
		Recommended Daily Volume	4000 to 5000 pages or higher
		Document Feeding Capacity	Min 100 sheets 80 g/m <sup>2</sup> or 20 lb
		Connectivity	USB 2.0 high speed or 3.0
		Imaging Features	Barcode reading; Perfect Page scanning; Deskew; Autocrop; Fixed cropping; Relative cropping; Multi-lingual auto orientation; Orthogonal rotation; Add border; Remove border; Intelligent image edge fill; Round/Rectangular Hole Fill; Content or file size-based blank page removal; Sharpening; Streak Filtering; Automatic brightness/contrast; Background color smoothing; Automatic color balance; Auto white balance; Enhanced color adjustment; Enhanced color management; Automatic color detection; Adaptive threshold processing; Fixed thresh holding; iThresholding; Lone pixel noise removal; Majority rule noise removal; Halftone removal; Electronic color dropout (R, G, B); Predominate (1) color dropout; Multiple (up to five) color dropout; All color dropout; Dual



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			stream; Compression (Group 4, JPEG); Image merge; Long document scanning (up to 4,064 mm/160 in.
		OS Compatibility	Microsoft Windows(x86/x64) 7/8.x/10, RHEL, MAC OS v. 10.7, 10.8, 10.10
		Smart Touch	Sends documents to file/ email/ printer/ fax printer & desktop
		Scan file format	PDF (image-only, searchable, MRC, PDF/A, encrypted), TIFF (single page, multi-page, compressed: G3, G4, LZW, JPEG), DOC, RTF, WPD, XLS, TXT, XML, XPS, HTML, OPE, JPG, BMP, PNG
		Including software's	Error recovery guide, Page Manager, Abbyy Fine Reader or better
		Environmental Compliance	Energy Star or better
		Optional	Carrier Sheet and Black document pad
		Warranty	Three year local onsite with parts and labour

Sr.N O	Item	Specification	
2.2	Network Laser (All in One type, Printer, Copy, Scan, Fax)	Model	Network Laser printer for Business/Office
		Print Type	Mono Laser Printer, Copy, Scan, Fax (All in One type)
		Print Speed	Black (normal quality minimum 28 ppm)
		Resolution	600 x 600 dpi or higher
		Duty Cycle	minimum 50000 monthly
		Monthly Page Volume	750 to 4000
		Duplex Printing	Automatic
		Memory (RAM)	1.25 GB (printer), 512 MB (scanner) or higher
		Processor	800 MHz or higher
		Display	Yes
		Paper Handling	Minimum 50-sheet multipurpose tray, minimum 250-sheet input tray
		Mobile Printing Capability	Yes
		Connectivity Options	Hi-Speed USB 2.0; 1 host USB; Gigabit Ethernet 10/100/1000BASE-T network; 802.3az(E) Wi-Fi 802.11b/g/n
		E-Print	Preferred
		Wi-Fi	Yes
		Warranty	Three year support with parts and labour

Sr.N O	Item	Specification	
2.3	Fax Machine	Speed	14.4 Kbps to 33.6Kbps modem
		Memory	Min. 150 Page Memory



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Ministry of Human Rights Islamabad  
\*\*\*\*\*

		Functions	100 Speed Dials and 20 Broadcast Locations
		Input	15 page Automatic Document Feeder (ADF)
		Copy Resolution	600dpi by 600dpi
		Warranty	Three year support with parts and labor

Sr.N O	Item	Specification	
2.4	Color Printer	Print Speed	Black (normal quality mode) :Min 27 ppm or higher
		Print Speed	Color (Normal quality mode): Min 27 ppm or higher
		Monthly duty cycle	Up to 50,000 pages
		Monthly Page Volume	750 to 4000
		Print Quality	Up to 1200 by 1200 dpi (Image Refinement Technology)
		Display	5-inch colour touch screen LCD
		Paper Handling	Input: 50-sheet minimum multipurpose tray, 250-sheet minimum input tray-2
		Duplex Printing	printing on both sides of paper: Automatic (standard)
		Memory	1GB RAM or Higher
		Processor Speed	1200 MHz (1.2GHz) or higher
		Connectivity	Hi-Speed USB 2.0 port; built-in Fast Ethernet 10/100/1000Base-TX network port, Wi-Fi 802.11b/g/n, (Infrastructure mode, WPS Easy Setup, Direct Connection)
		Mobile Printing Capability	Yes
		Printer Drivers	Microsoft Windows 8, Microsoft Windows 7, Windows Server 2012 (all 32-bit and 64-bit), Windows Server 2016 , Windows 10 Professional Compatible operating systems: Windows (32/64 bit), Mobile OS, iOS, Android, Mac
		Warranty	Three year support with parts and labour

Sr.N O	Item	Specification	
2.5	Printer (Normal)	Print Speed	Black (normal quality mode) :Min 40 ppm or higher
		Monthly duty cycle	Up to 80,000 pages
		Monthly Page Volume	750 – 4,000 pages
		Print Quality	Up to 1200 by 1200 dpi (Image Refinement Technology)
		Display	Yes
		Paper Handling	Input: 100-sheet multipurpose tray-1, 250-sheet input tray-2



Government of Pakistan  
Ministry of Human Rights Islamabad

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		Duplex Printing	printing on both sides of paper: Automatic (standard)
		Memory	256MB RAM or Higher
		Processor Speed	1200 MHz (1.2GHz) or higher
		Connectivity	Hi-Speed USB 2.0 port; built-in Fast Ethernet 10/100/1000Base-TX network port
		Mobile Printing Capability	Yes
		Printer Drivers	Microsoft Windows 8, Microsoft Windows 7, Windows Server 2012 (all 32-bit and 64-bit), Windows Server 2016 , Windows 10 Professional Compatible operating systems: Windows (32/64 bit), Mobile OS, iOS, Android, Mac
		Warranty	Three years support with parts and labour

Sr.N O	Item	Specification	
2.6	Standard Scanner	Scan Type	ADF + Flatbed Scanner
		Through put Speed Color/greyscale/B&W	45ppm (600 dpi) Duplex 90 ipm (600dpi) or higher
		Operator Control Panel	User Friendly, preferably graphical LCD operator control button
		Imaging Technology	CMOS-CIS x 2 or higher
		Illumination	Dual Led or higher
		Output resolution	Up to 600 dpi
		Max Document size.	Maximum: A4 Portrait (210 x 297 mm) or Legal (8.5 x 14 in.) or 8.5 x 34 in. (215.9 x 863.6 mm) (long page scanning: up to 3000 mm)
		Min Document size.	Minimum: A8 Portrait / Landscape (52 x 74 mm)
		Paper thickness and weight	34–413 g/m2 (9 to 110 lb.) with optional Plastic Card:(0.76 mm or less, embossed plastic cards with total thickness of 1.24 mm or less)
		Paper Path	Straight Paper Path
		Multi Feed Detection	Ultrasonic
		Scan file format	PDF (image-only, searchable, MRC, PDF/A, encrypted), TIFF (single page, multi-page, compressed: G3, G4, LZW, JPEG), DOC, RTF, WPD, XLS, TXT, XML, XPS, HTML, OPF, JPG, BMP, PNG
		Scan input modes	Scan front-panel function for Save as PDF, Save as JPEG, E-mail as PDF, E-mail as JPEG, Send to Cloud,





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			Everyday Scan and Save as Editable Text (OCR). ICA in Mac OS and third parties applications via TWAIN.
		Recommended Daily Volume	At least 4000 pages per day ADF, 100 pages Flatbed
		Document Feeding Capacity	50-75 sheets (20 lb./80 g/m2) or higher, must handles small documents such as ID cards, business / security / insurance / embossed hard cards
		Connectivity	USB 2.0 or 3.0 compatible
		Imaging Features	Auto color detection, Automatic page size detection, De-Skew, Multi-image, Blank page skip, Error diffusion, Dropout color (R, G, B, Saturation), Image emphasis, Advanced DTC, sRGB, Halftone, Smoothing, Split image, Vertical streaks reduction, Digital endorser, Edge correction, Dynamic threshold(iDTC), Fixed Cropping, Multi-Lingual Auto Orientation, Add Border, Remove Border, Intelligent Image Edge Fill, Background Color Smoothing, Automatic Brightness/Contrast, Lone Pixel Noise Removal, bar code reading
		OS Compatibility	Windows 7-10 (x86/x64 bit), MAC family, Linux family.
		Smart Touch	Sends documents to file/ email/ printer/ fax printer & desktop
		Including software's	Error recovery guide, Page Manager, Abbyy Fine Reader or better
		Warranty	Three year onsite local warranty (Parts and Labor)



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**IT EQUIPMENT (LOT 3)**

Sr.NO	Item	Specification	
3.1	Core Switch	Specification of Core Switch is provided at Annex-I.	
3.2	Access Switch (POE Enabled)	Specification of Access (POE Enabled) Switch is provided at Annex-II.	
3.3	Access Switch (Non POE)	Specification of Access Switch (Non POE) is provided at Annex-III.	
3.4	10G SFP (Optical)	Optical Transceiver SFP+, 10G, Multi-mode Module(850nm,0.3km,LC)	
3.5	10G SFP (Copper)	SFP+10GBASE-T Transceiver Copper RJ45 Module	
3.6	42U Data Rack for Server Room	42U Rack (for the mounting of computing, switching and security infrastructure), 16/24 Port 1U keyboard drawer comes with 95/88 key keyboard, Touch pad. KVM switch with USB/PS/2 connection with 17" LCD, 2 PDU's 8 port each, Rack mounted With all cables and allied accessories (Imported).	
3.7	9U Data Rack	9U single Section imported Rack with PDU Glass Door	
3.8	WLAN APs	Antenna type	Built-in smart antennas
		Number of Users	400 minimum
		MIMO	2.4G 2 x 2 , 5G 2 x 2
		Throughput	Minimum 500Mbps at 2.4GHz, Minimum 1Gbps at 5GHz
		Radio Protocols	802.11a/b/g/n/ac/ac Wave 2/11ax
		Installation	Supply Installation, Commissioning & Testing of Active and Passive Equipment Integration with WLAN controller (Core Switch)
		Warranty	3 Years
		Eligibility criteria	OEM must have registered office and local support office in Pakistan from at least 03 years OEM must have at least 3 spare depots in Pakistan OEM must have technical support team in Pakistan Valid partnership certificate The bidder must have annual turnover of 75 million PKR
3.9	Patch Panel	Patch Panel: Classic Patch Panel, 24 ports, , black aluminium ,K6 Jack, Cat 6, UTP, Shuttered (tool-less termination), with rear cable manager (As Per Actual)	
3.10	Cat 6 Cable	Cat 6 Cable: Cat 6 Cable, UTP, PVC, 4 pairs, 305 meter / Box Gigabit fluke tested original copper cable (as per actual)	
3.11	Faceplate	Faceplate: Single non-shuttered. U.K. Single Gang Faceplate, 1 port, w/o shutter. CAT6 I/O RJ45 K6 Jack, Cat 6, UTP, Shuttered (tool-less termination), and Back box (as per actual)	
3.12	Patch cord (3m, UTP)	Patch cord: Cat 6 UTP Patch Cord 3 Meter for End User	
3.13	Patch cord (1m, UTP)	Patch cord: Cat 6 UTP Patch Cord 1 Meter for Rack End	



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3.14	PVC flexible Pipe 2"	PVC flexible Pipe: PVC Pipe 2" (as per actual)
3.15	PVC flexible Pipe 1.5"	PVC flexible Pipe: PVC Pipe 1.5" (as per actual)
3.16	Duct (16 x 25)	Duct: 16 x 25 (as per actual)
3.17	Ducts (16 x 38 and 40 x 40)	Ducts: 16*38 and 40 x 40 (as per actual)
3.18	Flexible Duct	Duct: Flexible Duct (as per actual)
3.19	OM3 10G Fiber 8 Core	OM3 10G Fiber 8 Core - Corning Glass , Light Armoured with strength member and steel tape per feet (as per actual)
3.20	Fiber ODF 10G	Fiber ODF 10G with all accessories including Pigtails sc coupler adapter plates etc
3.21	Fiber Patch cords 10G OM3	Fiber Patch cords 10G OM3 (12 LC-LC + 12 LC-SC) 10 meter
3.22	Mis. Equipment	Vacuum Cleaner for IT equipment, Smoke sensor and alarm for server room, PC Repair tool kit, Plastic Exhaust fan for network switches and hardware lab or other required items etc.
3.23	Installation, Commissioning & Warranty	Installation, Commissioning, complete documentation (low level, high level NW documents etc.) & Testing of Active and Passive Equipment including Performance Testing with DTX-1800 or Higher, 20 year Performance warranty from Manufacturer. Installation as per ANSI/TIA 568, Tagging as per IEEE 606-B Three years' warranty and support of above system



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**NG-FIREWALL (LOT 4)**

4.1	NG-Firewall	Specification of NG-Firewall is provided at Annex-IV
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**MACHINERY & EQUIPMENT (LOT 5)**

5.1	Invertor Air Conditioner 1.5 Ton	1.5 ton split dc invertor air conditioner, Cooling capacity: 18000 BTU, High Energy Efficiency Ratio, Auto Restart & Sleep Mode, Remote Control, Multi Flow Condenser Fin, Segment Panel display.
5.2	UPS 6 KVA with rack	RATING: 5000Watt, Power factor .7 or higher Frequency 50/60 Hz On-line efficiency 95%, On-Line regulation -10% to +6% of nominal voltage on-battery regulation $\pm 5\%$ of nominal voltage Line-Interactive, Sine Wave output LED Display USB and serial support Management Software Battery type: Maintenance-free sealed Lead-Acid battery with suspended electrolyte, leak proof Audible alarm Adjustable voltage sensitivity Automatic Shutdown Backup time: 01 Hour Three Years warranty
5.3	UPS 1 KVA	RATING: 1000VA, Power factor .7 or higher LED Display on-battery regulation $\pm 5\%$ of nominal voltage Line-Interactive, Sine Wave output Frequency 50/60 Hz Audible alarm Automatic Shutdown Backup time: 1 Hour Dry Sealed Maintenance free Batteries Three years warranty

**BIOMETRIC & CCTV (LOT 6)**

6.1	Biometric System	Supports Access Control and Attendance Management System simultaneously. Along with 250 RFID Scanner Cards. Specification of Biometric System is provided at Annex-V
6.2	CCTV System	30 Cameras with 32 Channel NVR Recording , Channel Network Supported Network Video Recorder, 4 x 1/3 Sony CCD Color 700 TVL IR Weatherproof Cameras PAL, 4 x Power Supply (camera and DVR), 1 x Mouse 1 x Remote Controller, 4 x Weatherproof Bracket for CCTV Camera, Cabling and installation. (hikvision, Dahua or Equivalent) Warranty: Three Years



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**VIDEO CONFERENCING SYSTEM (LOT 7)**

7.1	Video Conference System	Polycom / Cisco or Equivalent. Specification of Video Conference System is provided at Annex-VI.
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**COMPUTER ASSECORIES (LOT 8)**

8.1	Portable External Hard Drive 2TB	2 TB USB 3.0/3.1 Portable External Hard Drive (Seagate or Equivalent)
8.2	USB Flash Drive 64GB	64GB 3.0/3.1 USB Flash Drive, 250MB/s read, 85MB/s write (Kingston or Equivalent)
8.3	Wireless Keyboard & Mouse	Connector: USB, Frequency: 2.4G Hz, Operating Range: 10 - 15 m minimum Keycaps: Round Edge, Hotkeys: 12 Fn Hotkeys ,Character: Laser Engraving Adjustable Keyboard Legs: Yes Mouse: Optical ( Infrared ), Report Rate: 125 Hz Resolution: 1000 DPI, Rating: 1.5 V / 4 mA ,Buttons No.: 3 Ergonomic Design: Symmetric ,Receiver Storage: Yes System Support: Windows XP / Vista / 7 / 8 / 8.1 / 10
8.4	Digital Voice Recorder	Internal Memory: 4GB, expandable to 32GB with micro SD MAX. RECORDING TIME LPCM 44.1KHZ, 16BIT: 5 Hrs 20 Min MAX. RECORDING TIME MP3 192KBPS: 39 Hrs 45 Min MAX. RECORDING TIME MP3 128KBPS: 59 Hrs 35 Min SCENE SELECT, RECORDING MONITOR, PC CONNECTIVITY BATTERY LIFE FOR RECORDING LPCM 44.1KHZ, 16BIT: 40 Hrs BATTERY LIFE FOR RECORDING MP3 192KBPS: 55 Hrs BATTERY LIFE FOR RECORDING MP3 128KBPS: 57 Hrs INPUT AND OUTPUT TERMINALS: [PC I/F] Hi-Speed USB [Input] Stereo Mic-in jack [Output] Stereo Earphone jack PLAYBACK FORMAT: MP3 / WMA / AAC-LC / L-PCM



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**NETWORK / INTERNET ACCESS CONTROL SOLUTION (LOT 9)**

9.1	Network / Internet Access Control Solution	<ul style="list-style-type: none"><li>• Solution should be capable of catering at least 500 users and provided with suitable hardware.</li><li>• User name and password authentication with External or internal Radius server.</li><li>• Role matching attribute to authorize users by role as per the organization's structure on network.</li><li>• Self-service portal for temporary access of internet for guest after authentication rather through Web-Based Application, External SMS gateway, Email or any other medium.</li><li>• Administrator should be able to view and delete individual Guest Passes.</li><li>• Management of security group policies on entire network to ensure the same access of control policies regardless of the geo position in the premises.</li><li>• Administrator should be able to set network bandwidth and service priorities for internet access for specified users or SSID or APs.</li><li>• Operation &amp; Maintenance visibility of APs</li><li>• Complete visibility of heat Maps of APs and about users regarding which user is connected when connected and from which AP user is connected.</li><li>• Complete visibility of health status of APs.</li><li>• Automatic identification of issues occurred on APs like authentication failure, weak signal coverage etc.</li><li>• Supports automatic identification of network issues based on Big Data analysis and machine learning algorithms: connectivity, air interface performance, roaming, and device issues. The issues include authentication failure, weak-signal coverage etc.</li><li>• Solution should be able to monitor network traffic, URL logs, etc. with respect to user.</li><li>• Solution should be integrate with existing infrastructure.</li><li>• Solution should be able to block particular website, application, VPN, torrent, services etc. with respect to individual user.</li><li>• Should be able to allocated/limit bandwidth for individual user</li><li>• Solution should have reporting module.</li></ul>
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**FURNITURE (LOT 10) (Bidder may bid for individual items)**

<b>Sr.N O</b>	<b>Item</b>	<b>Specification</b>
10.1	Officer Table	Size 4.5x3x2.5 Solid Sheesham Veneer board having 03 Drawers with locks file cabinet cum computer table on the other side, size 4'x1.6 ft having Sheshum lipping, and moveable ( <b>sample picture should be provided</b> ) With side rack: Dimensions: 42"W x 16"D x 30"H • Construction: Wood and hardwood solids • Shelves <b>sample picture should be provided</b>
10.2	Officer Chairs	Revolving & adjustable-black color leather back seat with wooden handles-padded polypropylene (synthetic) fabric, metal base hydraulic system and base Taiwan made and molty foam, arm rest PP arm ( <b>sample picture should be provided</b> )
10.3	Computer Chair	Low back cushioned with leather lite + molty foam arms, hydraulic system and base Taiwan made.
10.4	Staff & Visitor Chair	<b>Staff Chair:</b> Leather back & seats with iron handles & legs-cushioned arms <b>Visitor Chair:</b> Wooden handles (solid Sheesham) cushioned seats with leather/ fabric seat & back



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Annex -I

S. No.	Description	Unit	Qty
<b>Active Equipment</b>			
1.	<p>Core Switch:</p> <ul style="list-style-type: none"><li>• Minimum 24 x 10 Gig SFP+ ports,</li><li>• support up to 6 x 40Gbit QSFP ports</li><li>• Must have at least 1 expansion slot for additional modules</li><li>• Out-of- band 10/100BaseT Ethernet port for management</li><li>• Support two or more redundant power supplies</li><li>• Support Wireless Access Controller capabilities with control of up to 100 APs</li><li>• Minimum</li><li>• Support one or more redundant power supplies</li><li>• Ensure interoperability between network protocols on the switches should be a single version of the operating system.</li><li>• Forwarding performance must be not less than 450 Mpps</li><li>• Switching capacity must be not less than 900Gbps/2.2Tbps</li><li>• Non-blocking architecture. All ports must operate on highest possible speed simultaneously</li><li>• The maximum number of stored MAC addresses in the switching table the</li><li>• switch shall be not less than 64,000</li><li>• The routing table of the switch must store up to 60,000 of IPv4 routes</li><li>• Stacking with other families switches from the same manufacturer and</li><li>• stack bandwidth must be not less than 40Gbps in ring topology through 10</li><li>• Gigabit Ethernet ports</li><li>• Stacking support for up to 8 devices</li><li>• The switch must support stacking with other families switches from the same manufacturer and stack bandwidth must be not less than 320Gbps in ring topology through 40 Gigabit Ethernet ports.</li><li>• The failover configuration must support multi-active detection</li><li>• IEEE family protocols: 802.3: 802.3, 802.3ae, 802.3ab, 802.3z.</li><li>• support 802.1ad (Q-in- Q) and Selective Q-in- Q protocols</li><li>• ITU-T G.8032 Ethernet Ring Protocol Switching</li><li>• Link Aggregation Group (LAG)</li><li>• The switch must support traffic balancing mechanism in</li><li>• LAG</li><li>• Must support routing protocols: Static routes, RIP v1/2, RIPng, OSPF, OSPFv3, IS-IS, IS-ISv6, BGP, BGP4+, MPBGP, ECMP, routing policy;</li><li>• support Policy-based Routing</li><li>• Single-hop BFD, BFD for OSPF, BGP, ISIS, VRRP &amp; Static routes;</li><li>• IGMPv1 / v2 / v3 protocols;</li><li>• protocols: IGMPv1 / v2 / v3 snooping (IGMPv1 / v2 / v3 snooping);</li><li>• Protocol PIM Snooping, PIM-SM, PIM-DM, PIM-SSM and MSDP;</li><li>• User authorization</li><li>• Each interface for connecting user devices must support Hardware queues.</li></ul>	No	2





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	<ul style="list-style-type: none"><li>• Capable of QoS features of traffic classification, traffic behavior, traffic shaping, congestion avoidance &amp; congestion Management</li><li>• Capable of packet filtering at Layer 2 to Layer 4</li><li>• Should support Open Programmability System(OPS)</li><li>• OEM must have registered office and local support office in Pakistan from at least 03 years</li><li>• OEM must have at least 3 spare depots in Pakistan</li><li>• OEM must have technical support team in Pakistan</li><li>• Valid partnership certificate</li><li>• The bidder must have annual turnover of 75 million PKR</li><li>• Installation, Commissioning &amp; Testing of Active and Passive Equipment</li></ul>		
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Annex - II

S. No.	Description	Unit	Qty
<b>Active Equipment</b>			
1.	<b>Access Switch (PoE Enabled):</b> <ul style="list-style-type: none"><li>• Layer 3 Fully Manageable</li><li>• Minimum 24 x 10/100/1000Base-T ports</li><li>• Minimum 4 x 10G SFP+ ports</li><li>• All ports should support 802.3af (15.4W per port)</li><li>• Should support 802.3at (30W per port) on half of ports minimum</li><li>• Out-of- band 10/100BaseT Ethernet port for management</li><li>• Ensure interoperability between network protocols on the switches should be a single version of the operating system.</li><li>• Forwarding performance must be not less than 90 Mpps</li><li>• Switching capacity must be not less than 120 Gbps/330Gbps</li><li>• Non-blocking architecture. All ports must operate on highest possible speed simultaneously</li><li>• maximum number of stored MAC addresses in the switching table the</li><li>• switch shall be not less than 16,000</li><li>• The routing table of the switch must store not less 4,000 IPv4 routes</li><li>• Must support 1,500 or more Multicast groups</li><li>• Stacking with other families of switches from the same manufacturer</li><li>• The failover configuration must support multi-active detection</li><li>• IEEE family protocols: 802.3: 802.3, 802.3ae, 802.3ab, 802.3z.</li><li>• support 802.1ad (Q-in- Q) and Selective Q-in- Q protocols</li><li>• ITU-T G.8032 Ethernet Ring Protocol Switching</li><li>• Link Aggregation Group (LAG)</li><li>• The switch must support traffic balancing mechanism in LAG</li><li>• Must support routing protocols: OSPF,RIP v1/v2, PIM, MSDP;</li><li>• support Policy-based Routing</li><li>• BFD for static routing and dynamic routing protocols OSPFv2/OSPFv3;</li><li>• IGMPv1 / v2 / v3 protocols;</li><li>• protocols: IGMPv1 / v2 / v3 snooping (IGMPv1 / v2 / v3 snooping);</li><li>• Protocol PIM Snooping, PIM-SM, PIM-DM;</li><li>• User authorization</li><li>• Each interface for connecting user devices must support hardware queues.</li><li>• Capable of QoS features of traffic classification, traffic behavior, traffic shaping, congestion avoidance &amp; congestion Management</li><li>• Capable of packet filtering at Layer 2 to Layer 4</li><li>• Should support Open Programmability System(OPS)</li><li>• OEM must have registered office and local support office in Pakistan from at least 03 years</li><li>• OEM must have at least 3 spare depots in Pakistan</li><li>• OEM must have technical support team in Pakistan</li><li>• Valid partnership certificate</li></ul>		3



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	<ul style="list-style-type: none"><li>• The bidder must have annual turnover of 75 million PKR</li><li>• Installation, Commissioning &amp; Testing of Active and Passive Equipment</li></ul>		
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Annex - III

S. No.	Description	Unit	Qty
<b>Active Equipment</b>			
1.	<b>Access Switch (Non PoE):</b> <ul style="list-style-type: none"><li>• Layer 3 Fully Manageable</li><li>• Minimum 48 x 10/100/1000Base-T ports</li><li>• Minimum 4 x 10G SFP+ ports</li><li>• Out-of- band 10/100BaseT Ethernet port for management</li><li>• Ensure interoperability between network protocols on the switches should be a single version of the operating system.</li><li>• Forwarding performance must be not less than 90 Mpps</li><li>• Switching capacity must be not less than 120 Gbps/330Gbps</li><li>• Non-blocking architecture. All ports must operate on highest possible speed simultaneously</li><li>• maximum number of stored MAC addresses in the switching table the switch shall be not less than 16,000</li><li>• The routing table of the switch must store not less 4,000 IPv4 routes</li><li>• Must support 1,500 or more Multicast groups</li><li>• Stacking with other families of switches from the same manufacturer</li><li>• The failover configuration must support multi-active detection</li><li>• IEEE family protocols: 802.3: 802.3, 802.3ae, 802.3ab, 802.3z.</li><li>• support 802.1ad (Q-in- Q) and Selective Q-in- Q protocols</li><li>• ITU-T G.8032 Ethernet Ring Protocol Switching</li><li>• Link Aggregation Group (LAG)</li><li>• The switch must support traffic balancing mechanism in LAG</li><li>• Must support routing protocols: OSPF,RIP v1/v2, PIM, MSDP;</li><li>• support Policy-based Routing</li><li>• BFD for static routing and dynamic routing protocols OSPFv2/OSPFv3;</li><li>• IGMPv1 / v2 / v3 protocols;</li><li>• protocols: IGMPv1 / v2 / v3 snooping (IGMPv1 / v2 / v3 snooping);</li><li>• Protocol PIM Snooping, PIM-SM, PIM-DM;</li><li>• User authorization</li><li>• Each interface for connecting user devices must support hardware queues.</li><li>• Capable of QoS features of traffic classification, traffic behavior, traffic shaping, congestion avoidance &amp; congestion Management</li><li>• Capable of packet filtering at Layer 2 to Layer 4</li><li>• Should support Open Programmability System(OPS)</li><li>• OEM must have registered office and local support office in Pakistan from at least 03 years</li><li>• OEM must have at least 3 spare depots in Pakistan</li><li>• OEM must have technical support team in Pakistan</li><li>• Valid partnership certificate</li><li>• The bidder must have annual turnover of 75 million PKR</li><li>• Installation, Commissioning &amp; Testing of Active and Passive Equipment</li></ul>	No	1



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Annex-IV

S. No.	Description	Unit	Qty
<b>Active Equipment</b>			
1.	<b>UTM Next Generation Firewall:</b> <ul style="list-style-type: none"><li>Type: Rack</li><li>Form Factor: 1 RU</li><li>Firewall Throughput 8 Gbps or above</li><li>NGFW Throughput (Firewall + IPS Throughput) 2 Gbps or above</li><li>Concurrent Sessions (TCP): 2 Million Minimum</li><li>New Sessions/Second (TCP): 80,000 Minimum</li><li>Firewall Policies: 15,000 Minimum</li><li>SSL Decryption, SSH Decryption, SSL Decryption, Port mirroring</li><li>Storage capacity: 64GB SSD or higher</li><li>High Availability Configurations: Active-Active, Active-Passive, Clustering</li><li>Compliance standard: ICSA Firewall certified</li><li>Interfaces: 2 x USB, must have Minimum 6 x 1GB Ethernet Interfaces, Minimum 2 x 10G SFP+</li><li>Must Be Listed in 2018 &amp; 2019 Gartner Magic Quadrant for Next Generation Firewall</li><li>Must Be Listed in 2019 / 2020 ICSA Labs Certified Next Generation Firewall</li><li>Must Have Full Features Working Even License Is Expired</li><li>Intrusion Prevention System (IPS), Anti-Virus &amp; Anti-Malware, Email Security Protection, Cloud-Based Security Sandbox, URL Filtering, Application Control, Bandwidth Management, DDoS protection</li><li>3 Years Complete Security Features License</li><li>3 Years Software Upgrade &amp; 24x7 Technical Support</li><li>3 Years Hardware Warranty Service</li><li>Must Quote Minimum 100 Concurrent Sites Connection for IPsec VPN</li><li>Must Quote Minimum 100 Concurrent Users for SSL VPN</li><li>Must Quote Principal Onsite Configuration &amp; Installation</li><li>Must Quote Principal Training &amp; Certification for 3 Participants</li><li>OEM must have registered office and local support office in Pakistan from at least 03 years</li><li>OEM must have at least 3 spare depots in Pakistan</li><li>OEM must have technical support team in Pakistan</li><li>Valid partnership certificate</li><li>The bidder must have annual turnover of 75 million PKR</li><li>Installation, Commissioning &amp; Testing of Active and Passive Equipment</li></ul>	No	1



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**Annex-V**

**Specifications of Biometric System**

**a) RFID CARD PROGRAMMING DEVICE Including (Device for Thumb / Finger Reader)**

CPU		8bit Microprocessor
Memory	Program Memory	128KByte ROM or higher
	Data Memory	4KByte EEPROM or higher
Reader		Built-in Contactless Smart Card [MIFARE] Reader (Read and Write)
Read Range		ISK50 / IHC80 / IMC135: Up to 2 inch (5cm), ISC80: Up to 4 inch (10cm)
Overwrite Time (Card)		Less than 200ms.
Reading Time (Card)		Less than 30ms.
Power / Current		Adapter (AC110V / 220V, Output DC 12V, 1A)
Communication Port		2ea for RS232 Communication
LED Indicator		7 Array LED Indicators (Red and Green)
Beeper		Piezo Buzzer
Data Encryption		Crypto Encryption Algorithm
Software		Smart Card Read / Write Software included
Material		Polycarbonate
Dimension		(W x H x T) 4.02" x 5.59" x 0.90" (102mm x 142mm x 23mm)
Weight		180g (0.39lbs)
Certification		FCC, CE, MIC
Others		RG2000 – 1ea • Smart Card Read / Write Software CD – 1ea • Power Adapter (AC 110 / 220V, Output DC 12V, 1A) – 1ea • Cable – 1ea • Table Holder – 1ea



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		<ul style="list-style-type: none"> <li>• Software Manual – 1copy</li> <li>• Smart Card [MIFARE] (1KByte) – 5ea</li> </ul>
Warranty		2-year warranty and access to total support services.

**b) RFID CARD PRINTER**

S. No	Specification
1	<b>Sided Printing:</b> Single or Dual
2	<b>Print Method:</b> HDP Dye-Sublimation / Resin Thermal Transfer
3	<b>Resolution:</b> 300 dpi
4	<b>Print Speed:</b> up to 24 seconds per card / 150 cards per hour (YMC with transfer)
5	<b>Accepted Card Sizes:</b> CR-80
6	<b>Warranty:</b> 3 years (printer); Lifetime (printhead)
	<b>Printer Options:</b>
7	<b>New:</b> Dual Card Input Hopper - Upgradable
8	Card Lamination Module - single-sided or dual-sided (simultaneous) - Upgradable
9	Smart card encoding (contact/contactless) - Upgradable
10	Door and cartridge locks
11	Printer cleaning kit
12	Magnetic stripe encoding - Upgradable
13	200-card input hopper - Upgradable
14	Dual-sided printing - Upgradable
15	Single Wire Ethernet and USB 2.0 interface for in-line printing and encoding (note: single wire Ethernet)
16	encoding is only available for iCLASS and contact smart card encoding)



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17	YMCK color cartridge (1000 images)
18	HDP film (500 images)
19	Cleaning kit

**c) FINGERPRINT IDENTIFICATION TIME & ATTENDANCE/ ACCESS CONTROLLER**

Memory	Finger	Program	1MByte Flash ROM	
Module	print	Memory		
	Module	Data	8MByte SDRAM	
		Memory		
	Controller	Program	128KByte	64KByte
		Memory	Flash Memory	Flash Memory
		Date	1MByte	512KByte SRAM
		Memory	Flash Memory	(Battery back up)
Fingerprint User			10,000 ~ 50,000	20,000
			(Default 10,000)	
Event Buffer			10,000 ~ 50,000	30,000
			(Default : 50,000)	
			( * The sum of users	
			and events cannot	
			exceed 60,000)	
Fingerprint Templates Size			800Bytes for 2 Fingerprint Templates	
Read Range			IHC80: Up to 2 inch (5cm)	
			ISC80: Up to 4 inch (10cm)	
Reading Time (Card)			500ms	





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Verification Time	Less than 1sec	
Power / Current	DC 12V / Max.300mA	
External Reader Port	1ea (26bit Wiegand, 4 / 8bit Burst	
	for PIN for Anti-Pass-Back)	
Communication	RS232 / RS422	RS232 / RS422 /
	(Max.32ch)	RS485 (Max.32ch)
	Internal LAN Module	TCP/IP LAN
	Required (Optional)	Converter required
		(Optional)
Baud Rate	9600 (Default) /	9600 (Default) /
(bps)	4800, 19200,	4800, 19200
	38400, 57 600	and 38400
	and 115200	(selectable)
	(Selectable)	
Input Port	4ea (Exit Button, Door Sensor,	
	Aux#1, Aux#2)	
Output Port	2ea (2 FORM-C Relay Output	
	(COM, NO, NC) /	
	DC12V~18V, Rating Max.2A)	
	2ea (TTL Output / DC5V, Rating Max.20mA)	
LED Indicator	3 LEDs on front of	3 LED Indicators
	FINGER007SRB,	
	4 LEDs on back of	
	FINGER007SRB	
Beeper	Piezo Buzzer	



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LCD		Character LCD (2 Lines x 16 Char) /
		65.6 mm x 13.8 mm (65.5" x 0.55") Screen
Keypad		16 Key Numeric Keypad / Membrane
Operating	Fingerprint	-20 ° to +60 ° C (-4 ° to +140 ° F)
Tempera	Module	
ture	LCD	0 ° to +50 ° C (+32 ° to +122 ° F)
	Controller	-15 ° to +70 ° C (+5 ° to +158 ° F)
	RF Reader	-35 ° to +65 ° C (-31 ° to +149 ° F)
Operating Humidity		10% to 90% relative humidity
		non-condensing
Color / Material		Dark Pearl Gray / Polycarbonate
Dimension (W x H x T)		161.5mm x 134mm x 48.5mm
		(6.36" x 5.28" x 1.9")
Weight		547g (1.21lbs)
Certification		UL, FCC, CE, MIC, RoHS

#### Time Schedule

ime Code	10	Holiday Code	10
Time Interval	5	Holiday	32

#### Finger Module Specifications

Resolution	500 dpi
Capture Image Size	640 x 480 pixels
Extraction Image Size	260 x 300 pixels
Sensing Area	15mm X 18.5mm



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Scanner	High Quality Optical Sensor
FAR : False Acceptance Ratio	0.00%
FRR : False Reject Ratio	0.10%
EDS : Electro Static Discharge	±8KV
3-year warranty and access to total support services.	



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**Annex-VI**

**Standard Specification for Video Conference System**

<p><b>The proposed system must support PAL with a PTZ camera. The codec must be based on ITU standards. The VC equipment should be a codec based hardware. No software based solution is accepted here. All components of the VC system like Codec, Camera and Microphone should be from the same OEM.</b></p>			
<b>Sr. No.</b>	<b>Description</b>	<b>Specification Parameter</b>	<b>Compliance</b>
1	Package	Full HD 1080p camera, codec, Microphone Array, cables, and remote control, 1 X Microphone additional	
2	Video Standards and Resolutions	It should support H.323, SIP standards for communications.	
		It should support H.261, H.263, H.264 AVC/ SVC, H.264 High Profile	
		It should support 1080p 60 fps, 1080p 30 fps, 720p 60 fps and 720p 30fps	
3	Content Standards and Resolutions	It should support content sharing using standard based H.239 and BFCP over SIP. It should also support audio from PC used for content sharing.	
		It should transmit both people and content both simultaneously to the far end location at 1080p 30fps	
		Content from MSFT/Android/iOS could be shared and viewed in multiple inputs preferably.	
		Content from iOS, Android or MSFT could be shared wired or wirelessly.	
4	Audio Standards and Features	It should support G.711, G.728, G.729A, G.722, G.722.1, AAC-LD or better	
		It should support 20kHz or better bandwidth with crystal clear audio and stereo sound.	
		Automatic Gain Control and Automatic Noise Suppression	
		Keyboard noise reduction and instant adaptation echo cancellation	
5		1 x HD input for connecting main HD camera	



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Ministry of Human Rights Islamabad  
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	Video and Audio Inputs	1 x HD input for connecting secondary HD camera	
		1 x HDMI input for connecting PC/Laptop to share HD content	
		1 x HDMI/Component for connecting VCR/DVD player	
		2 x Microphone Input(Support for minimum 4 mics)	
		2 x RCA line-in	
6	Video and Audio Outputs	2 x HDMI output for connecting main monitor & second monitor.	
		For Plasma, Multimedia Projector etc.	
		1 x HD output for connecting additional monitor or DVD recorder.	
		1 x RCA pair stereo line-out	
7	Other Interfaces	2 x 10/100/1000 LAN port	
		2 x USB 2.0 for software upgrade and connecting external devices	
		1 x RS-232 mini-DIN 8-pin	
8	Camera	It should support 1080p60fps with 12X optical zoom.	
		It should be capable of enhancing video conferencing experience with advanced face-recognition technology such that it automatically scans the room and seamlessly commands the main camera to appropriately frame the users during a call without any manual intervention.	
		It should support PAN Range of +/-90°, and Tilt of +/-20°	
9	Network Features	H.323 and SIP bandwidth up to 6 Mbps	
		IPv4 and IPv6 support from day one	
		Auto Gatekeeper Discovery	
		IP Precedence	
		H.323 based Packet Lost Recovery	
10	Multisite Feature	It should support at least 8 sites at 720p	



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Ministry of Human Rights Islamabad  
\*\*\*\*\*

11	Security	Media Encryption (H.323, SIP): AES-128, AES-256	
		The system should also support local recording of an encrypted call	
		Authenticated access to admin menus, web interface and telnet API	
		Local account password policy configuration	
12	Other Standards	H224/H.281, H.323, H.225, H.245, H.241, H.239, H.243, H.460, Auto sensing power supply	
13	1 X LED	65' Inch, 4K Smart LED, Resolution: 3840x2160 . Inputs & Outputs: Minimum 2 X HDMI , 2 X USB, RF IN x1, RS232C x1, Internet: Wi-Fi, Wi-Fi Direct, Bluetooth and Ethernet port. Audio: 20W, 2CH, Dolby, DTS Decoder with 2 X HDMI 4K 15 m Cables.	
14	Installation	Supply, installation and commissioning of Video Conference solution	
15	Warranty	Three year comprehensive warranty with local support.	



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**Evaluation Criteria:**

Technical evaluation will be done in two stages. Preliminary evaluation (initial screening) of technical bids will be done on the basis of following mandatory (each) parameters:

**Step 1: Preliminary Evaluation (Initial Screening/ Determining the eligibility of the Bidder)**

**Requirements: -**

1. NTN Certificate.
2. GST Certificate.
3. **On Active Tax Payers List of FBR.**
4. Registration/Incorporation/Business Certificate and number of business years in Pakistan.
5. Complete Company profile.
6. The bidder should be a company/firm having operational office.
7. Minimum five (05) years' experience in supply and installation of quoted equipment.
8. Manufacturer's Authorization certificate from the original manufacturer of IT hardware and in case of networking for active networking components. The bidder should be authorized partner/distributor/ seller from the Original Manufacturer. The bidder shall have to submit the certificate of authorization (in original) from the OEM addressed to Section Officer (General), Ministry of Human Rights, Islamabad.
9. Bid Validity period of 150 days.
10. Affidavit on legal paper to the effect that not blacklisted and rendered ineligible for corrupt and fraudulent practices by any Government (Federal, Provincial or Local) or a public sector organization organization/Division/ Ministry.
11. Compliance with schedule of requirements (Yes/No).
12. Submission of required amount of bid security with Financial Bid (A confirmation to this effect in Technical Bid is must).
13. **Manufacturer's standard warranty:** One (01) year onsite warranty including parts and labor and three years for items as mentioned above.
14. Compliance with Technical Specifications& scope of work in case of networking (Yes/No).
15. Technical brochures/ Data Sheets for the hardware and Licensed software to be provided.
16. Original Bidding Documents duly signed/stamped.
17. All documents should be properly Tagged/labeled.

**Detailed technical evaluation** will be done for firms/bidders who qualify the preliminary evaluation/eligibility criterion mentioned above.

In **detailed technical evaluation**, the Technical Committee will verify the compliance with Technical specifications. The eligible firms/bidders may be asked to give presentation of proposal on power point (soft copy)/ proof of concept on their solution.



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Ministry of Human Rights Islamabad  
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**Financial Evaluation**

Financial bids of eligible and technically qualified firms will be opened before the bidder's representatives who wish to attend the tender opening. Financial evaluation will be separate for every "Lot".

**Evaluation Criteria**

Technical Evaluation Marks = 70  
Financial Marks = 30

**Technical Evaluation Criteria**

Sr.	Criteria	Marks
01.	Past Experience	15
02.	Client List (Market Share)	10
03.	Goodwill of the product	10
04.	After sales service	15
05.	Company Profile	10
06.	Qualification of the technical team	10





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**BID FORM-01**

*BidRefNo.*\_\_\_\_\_

*Date of the Opening of Technical Bid*

**Letter of Intent**

*Name of the Contract :{ }*

To: ***Ministry of Human Rights, Islamabad***

Dear Sir

Having examined the bidding documents, including Addenda Nos. [insert numbers& Date of individual Addendum], the receipt of which is hereby acknowledged, we, the undersigned, 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.

We confirm that we comply with the eligibility requirements as per ITB clauses 18 &19 of the bidding documents and have duly provided bid security @ 2% of the total bid value, in the



Government of Pakistan  
Ministry of Human Rights Islamabad  
\*\*\*\*\*

Shape of pay order/demand draft/ call deposit in the name of \_\_\_\_\_ with  
our Financial Bid.

\*We also confirm that if our bid is accepted, that all partners of the joint venture shall be liable jointly  
and severally for the execution of the contract and the composition on the constitution of the joint  
venture shall not be altered without the prior consent of the President's Secretariat

\*[This clause does not apply if bidder is a single firm]

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]*



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Ministry of Human Rights Islamabad  
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**BID FORM-02**

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. In case they do not have any document attach the corresponding cell in column 2 should be left blank.

**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	<i>Initials of the Bidder</i>	Supporting Document's Name	Page Number in the Bid
<b>Column:1</b>	<b>Column:2</b>	<b>Column:3</b>	<b>Column:4</b>
NTN Certificate			
GST Certificate			
On Active Tax Payers List of FBR			
Growth Rate of Past 05 years			
Registration/Incorporation/Business Certificate			
Complete Company profile			
Operational Office in Islamabad			
Evidence of Firm's Last 5-Years Performance (Projects of similar nature)			
Affidavit that the bidder is not blacklisted by any Federal, Provincial Public sector organization.			
Original Manufacturer's authorization letter.			
Bid Validity period of 150 days			
Compliance with schedule of requirements			
Submission of required amount of bid security with Financial Bid			



Government of Pakistan  
Ministry of Human Rights Islamabad  
\*\*\*\*\*

Compliance with Technical Specifications			
Manufacturer's warranty: 03 year and onsite support			
Technical brochures/data sheets			
Original Bidding Documents duly signed/stamped			



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Ministry of Human Rights Islamabad  
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**BID FORM-03**

**MANUFACTURER'S AUTHORIZATION**

**To:     *Ministry of Human Rights, 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.



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Ministry of Human Rights Islamabad  
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**BID FORM-04**

**Firm's Past Performance.**

Name of the Firm: \_\_\_\_\_

Bid Reference No: \_\_\_\_\_

Date of opening of Bid: \_\_\_\_\_

Assessment Period: (**Minimum Five Years** as per Evaluation Criteria)

Name of the Purchaser/Institution	Purchase Order No.	Description Of Order	Value of Order	Date of Completion	Purchaser's Certificate

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



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Ministry of Human Rights Islamabad  
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**FINANCIAL BID FORM-05**

Name of the Firm:

Bid Ref. No: \_\_\_\_\_

Date of opening of Bid.

S.#.	Name of the Item	Unit Price (Inclusive of all applicable taxes)*	Qty	Final Total Price (Inclusive of all applicable taxes)
1	2	3	4	5
				(3x4)
Total Price (Inclusive of all applicable taxes)				

*User Note: This form is to be filled by the Bidder for each individual item and shall submit with Financial Bid.*

\*The quoted price should include the delivery/installation charges.

FINAL TOTAL PRICE (in words):-----

Signature: -----

Designation: -----

Date: -----

Official Stamp: -----



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**BID FORM-06**

**Performance Guarantee**

To: **Ministry of Human Rights, 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 \_\_\_\_\_, 2017/2018

Signature and Seal of the Guarantors/ Bank

Address:

Date: