

Government Of Pakistan
Ministry of Interior & Narcotics Control
G&P Section

**TENDER DOCUMENTS FOR PURCHASE OF COMPUTER, PRINTERS, SCANNERS, IT EQUIPMENT'S, AIR
CONDITIONER ,LASER FAX MACHINES, LCDS, PHOTOSTAT MACHINES, (2026-27)**

<u>S.NO.</u>	<u>NAME OF ITEMS</u>	<u>UNITS</u>	<u>Rates of Each items</u>
1	LOT-1 Enterprise Server with Microsoft Domain Controller & Managed Wifi Solution, As per attached specification	LOT-1	
2	Managed LAN Network Solution, As per attached specification	Solution	
3	AUDIO CONFERENCE SYSTEM As per attached Specification	Solution	
4	Desktop Computer, As per attached specification	Each	
5	Laptops, As per attached specification	Each	
6	Macbook, As per attached specification	Each	
7	Interactive LED, 98", As per attached specification	Each	
8	12V 200Ah UPS Batteries for Server Room (Branded & Maintenance-Free), As per attached specification	Each	
9	600VA / 1000VA Uninterrupted Power Supply (UPS) for Computers, As per attached specification	Each	
10	Laser Jet Printer, As per attached specification	Each	
11	Scanner, As per attached specification	Each	
12	Overhead Scanner, As per attached specification	Each	
13	Color Printers, As per attached specification	Each	
14	Fax machine (All in one), as per attached specification	Each	
15	PVC Card Printer, As per attached specification	Each	
16	IP Telephone Set, As per attached Specification	Each	
17	Imported Optical Fiber & Ethernet Tolls, As per attached Specification	Set	
18	Latest smart 55 " LED TV, As per attached Specification	Each	
19	Latest smart 65 " LED TV, As per attached Specification	Each	
20	Latest smart 86" LED TV, As per attached Specification	Each	
21	Latest smart 96-100" LED TV, As per attached Specification	Each	
22	Photostat Machine 25-30 CPM, As per attached Specification Ricoh,Konica,Toshiba,Cannon /equivalent	Each	
23	Photostat Machine 45-55 CPM, As per attached Specification Ricoh,Konica,Toshiba,Cannon /equivalent	Each	
24	Photostat Machine 85-95 CPM, As per attached Specification Ricoh,Konica,Toshiba,Cannon /equivalent	Each	
25	Windows 11 Pro License with complete media kit, As per attached Specification	Each	
26	Office 365 License, As per attached Specification	Each	
27	MS office latest License with complete media kit, As per attached Specification	Each	
28	Antivirus License, As per attached Specification	Each	
29	Data Recovery software with pro License, As per attached Specification	Each	
30	Zoom Meetings License, As per attached Specification	Each	
31	Presentation tools License, As per attached Specification	Each	

<u>S.NO.</u>	<u>NAME OF ITEMS</u>	<u>UNITS</u>	<u>Rates of Each items</u>
32	AI tools (ChatGPT) pro License	Each	
33	AI tools (Claude) Pro License	Each	
34	Split AC 1.5 Ton (Reversible & Energy Efficient) Gree (DC Inverter) /equivalent	Each	
35	Floor Standing Split AC 4.0 Ton (Reversible & Energy Efficient) Gree (DC Inverter) /equivalent	Each	
36	Refrigerator 12 Cubic feet Haier /equivalent	Each	
37	Refrigerator 9 Cubic feet Haier /equivalent	Each	
38	Microwave Oven 25 Ltr Haier /equivalent	Each	
39	Water Dispenser Dawlance /equivalent	Each	
40	Electric Water Cooler Large	Each	
41	Paper Shredder 20 Ltr or above	Each	
42	Paper Shredder Heavy duty 25 Ltr or above	Each	

Interactive LED 98

Parameter	Specification
Product Type	Multimedia / Smart Screen for Conference Room
Resolution	Minimum 4K UHD (3840 × 2160)
Backlight Type	O-LED / Q-LED / UHD
Screen Lamination	Zero-gap bonding
Screen Size	96 inches or above
Touch Sensing Distance	≤ 2 mm
Touch Latency	16 ms
Intelligent Writing Recognition	Supports recognition of Chinese, English, and 11 types of graphics
Pen Types	Pencil, Pen, Highlighter, and Smart Pen
Camera Resolution	4K
Camera Sharpness	1800 lines
Horizontal Field of View (HFOV)	80°
Camera Lens Cover	Yes, for privacy
Speakers	4 speakers
Speaker Power	Total power: 40 W
Microphones	12 microphones
Voice Pickup	180° voice pickup
Wi-Fi	Wi-Fi 6 support for direct projection
Type-A Port	Type-A port for IdeaShare Key, optional
OPS	OPS module support, optional
Built-in Operating System	Built-in OS
Windows Support	Windows support through optional OPS module
AI Features	Auto-Framing, Intelligent Tracking, Acoustic Baffle, and DNN-based dereverberation
Meeting Applications	Cloud Meeting and WeLink
Dual Streams	Supports 1080p @ 30 fps + 1080p @ 30 fps / 4K @ 8 fps for audio/video and data sharing
Warranty	Minimum 2-year warranty

LOT 1: Items: Wireless WIFI Solution and Server

Item	UNSPSC	Delivery Schedule	Quantity	Bid Submission	MAL	Warranty
Server	2U Rack Mount Server	Ministry of Interior R Block Schedule: 90 Days Quantity:1	1		Mandatory	3 Years
WLAN Controller	WIFI Controller	Ministry of Interior R Block Schedule: 90 Days Quantity:1	1		Mandatory	2 Years
Access Points	Wireless Access Points (Triple Radio)	Ministry of Interior R Block Schedule: 90 Days Quantity:04	4		Mandatory	2 Years
Access Points	Wireless Access Points (Dual Radio)	Ministry of Interior R Block Schedule: 90 Days Quantity:31	31		Mandatory	2 Years
Access Switches	24 Port POE Access Switches	Ministry of Interior R Block Schedule: 90 Days Quantity:04	4		Mandatory	2 Years

Mandatory Clauses for WIFI Solution and Server.

The Vendor/Supplier shall be responsible for the complete installation, configuration, testing, commissioning, and successful handover of all supplied equipment, including Server, WLAN Controller,

All equipment shall be supplied with original, genuine, verifiable and manufacturer-recommended accessories, components, and installation materials of the best quality.

All required accessories, mounting kits, power cables, network cables, connectors, transceivers, and other installation-related items necessary for a complete and operational solution shall be included in the During the support period, the Vendor shall provide necessary technical assistance, troubleshooting, configuration support, and resolution of hardware/software-related issues in accordance with the

Compliance: 100% technical compliance is must

Hardware OEM: Quoted equipment including WLAN Controller, Access Points, Switches, Server and SFPs must be of the same OEM

References: Quoted brand must have minimum 30 or above different references of Server deployment in Pakistan

Authorization: Valid Certificate from Manufacturer (MAL) for this Tender.

OEM: Presence: The quoted brand principle must be registered with SECP in Pakistan at least for last 5 years

Local: OEM must have Local Registered Office, Local Warehouse presence in Pakistan preferably Islamabad, Lahore & Karachi and Also local OEM Support Team

Scope of Work:

1. Design and implement a secure Wireless LAN solution covering all 7 corridors.
2. Supply and install only Latest-generation Hardware and Technology
3. Integrate the wireless system with the existing firewall infrastructure.
4. Provide complete documentation, staff training, and ongoing support and maintenance.

This solution must provide full wireless coverage across all seven corridors (Ground floor, 4th floor of R&S, 5 and 6th of R block) of the premises,

LOT:1 Wireless WIFI Solution, Switches and Server

Item: Server

Specifications / Requirements:

Parameter!	Specification
2U Rack Mount Server Chassis	2U Rack-Mountable Server
Drive bays	1 x 12-LFF Drive slot or higher
Processor	2 x Intel Xeon Processor 12 cores or more
Memory	64GB 2 x 32GB DDR5-6400 MT/s RDIMMs or higher (OEM Pre Installed no local upgradation will be acceptable)
System disk	2 x 3.84TB RI NVMe-SSD or Higher with Raid 1 for OS Installation (OEM Pre Installed no local upgradation will be acceptable)
Data disk	4 x 4TB SATA 7.2K HDD or Higher (OEM Pre Installed no local upgradation will be acceptable)

PCIe Slots	Support 13 PCIe 5.0 Standard Slots, 2 Onboard OCP 3.0 Slots or higher
Ethernet	1 x 4-Port 1GE Copper Interface Ethernet Adapter. 1 x Dual Port 10G Fiber Interface Ethernet Adapter with Multimode 10G SFP+ Transceivers modules
GPU Slots	Support 12 Single Slot GPU Modules or 4 Dual Slot
Power supply	2 x 1300W AC Power Supply or better with fully populated Fans or better
Rack mount rail	Complete Ball Bearing Rail Kit with Cable Management Bracket
Security	Intelligent Security Bezel to control unauthorized access to front disks and TPM Module
Management software	Embedded Server Management Software as per standard requirement with all Enterprise/Advanced license
OS	Microsoft Windows Server Datacenter Edition Latest
Configurations	Active Directory Domain Services (AD DS) installation Domain creation and controller promotion DNS & DHCP roles setup with redundancy Group Policy Objects (GPO) structure configuration Organizational Unit (OU) structure setup FTP Role based directory access level department/section wise Secure configuration of administrative accounts and password policies
Warranty	3-Years NBD OEM warranty

LOT: 1: Wireless WIFI Solution, Switches and Server

Item: WLAN Controller

Specifications / Requirements:

Parameter	Specification
Throughput	The quoted wireless controller must have 9.8Gbps or higher throughput
Interfaces	Wireless controller must have 2 × 2.5GE ports, 8 × GE Copper ports and 2 x 10G SFP+ ports. Redundant Power Supplies must be included

	1 x console port with console cable. 1 x USB port
Maximum number of Clients	Clients to be supported by the wireless controller must be 8K at least or more
Maximum number of APs	The quoted controller supports the management of at least 280+ APs
MAC and NAT Session	Support 16350 MAC and 409500 NAT sessions or higher
License	License for 36 APs must be included
Wireless user isolation	Supports users isolation based on VLANs and SSIDs
Roaming	Support intra-AC roaming, cross-AC roaming, and cross-VLAN Layer 3 roaming
Encryption	The controller must provide WEP-104, AES, WPA2, WPA3, 802.1x and Portal authentication
QoS	The controller must be able to perform L2-L4 packet filtering and traffic classification. The controller must be able to allocate available bandwidth per STA
RF Management	Load balancing must be supported based on traffic, user & frequency The Controller must be able to provide automatic channel/power/bandwidth adjustment
Security	The Controller must be efficient enough to detect and provide countermeasure for Rogue AP/s via WIPS Controller must defend the network against multiple types of attacks mainly DoS, Flood, and man-in-the middle attacks
High availability	Must support 1:1 Master/backup
Warranty	2-years NBD warranty backed from OEM must be included

LOT: 1: Wireless WIFI Solution, Switches and Server

Item: Access Points Triple Radio Indoor Access Point

Specifications / Requirements:

Parameter!	Specification
Maximum transmission speed	The quoted wireless indoor access point must be triple radio AP with Tri-radio mode enabled simultaneously on 2.4GHz, 5GHz and 6GHz and must provide 802.11be technology with transmission rate up to 18.59 Gbps or higher

Interfaces	The quoted AP must provide atleast 3 ports (one for 1G RJ-45 Port, one for 100/1000M/2.5G/5G/10G Multigigabit RJ-45 PoE Ethernet multi-rate port & one for 1000M/10G optical SFP+ port). The quoted AP must have a Console Port (RJ-45) and USB port as well. AP mounting kit must be included
POE	The quoted AP must be 802.3 bt/at compliant
Built-in Antenna	Built-in omni-directional antenna. Antenna peak gain on 2.4GHz must be 6dBi or higher, Antenna peak gain on 5GHz must be 5.1dBi or higher, Antenna peak gain on 6GHz must be 6.3dBi or higher
Operating Temperature	Must support 0°C to +50°C operating temperature or higher
Working frequencies and MIMO	The quote AP must support 4×4 MIMO at 6GHz, 4×4 MIMO at 5GHz Radio and 4×4 MIMO at 2.4GHz Radio
Standards & Wi-Fi Certified	Wi-Fi Alliance:Wi-Fi 7, Wi-Fi 6E, Wi-Fi 6, WMM, WPA, WPA2 and WPA3 – Enterprise, Personal (SAE), Enhanced Open (OWE)
Protection class	IP42
AP Working Mode	The AP must be capable of switching the working mode without need of any additional licensing. Working mode FIT (Controller based), Anchor (AP working as a controller) and Cloud (Add License for Cloud if any)
Number of clients	The quoted AP must be capable of handling atleast 1500 clients or higher
SSID	The quoted AP must support 16 BSSID per radio or higher
Roaming	The AP must support 802.11k and 802.11v smart roaming. As well as suppoty 802.11r fast transition roaming
Security Policy	The quoted AP must be able to prevent Wireless Intrusion (WIPS). IP Source guard, 802.11w & 802.11i support must also be included
QOS	Coupled with WLAN ACs, the APs must be able to identify variety of applications and policy control could be implemented including priority adjustment, scheduling, blocking, and rate limiting on users. AP must also provide Airtime fairness

Load Balancing	Quoted AP must support users and traffic-based load balancing
Power Saving	AP should employ a green design that supports Dynamic and Static SM Power Saving (SMPS) and Enhanced Automatic Power Save Delivery (E-APSD). AP could be able to dynamically adjust the MIMO working mode and efficiently put terminals to sleep
802.11be	Must support 320M bandwidth, 4096-QAM and Multi-RU
Warranty Services	2-Year Next Business Day (NBD) Equipment Replacement Warranty along with 24x7 Online Technical Support directly from the Original Equipment Manufacturer (OEM)

LOT:1 Wireless WIFI Solution, Switches and Server

Item: Access Points Dual Radio Indoor Access Point

Specifications / Requirements:

Parameter!	Specification
Maximum transmission speed	The quoted wireless indoor access point must be dual-radio 4 streams and built-in antennas, with one radio supporting switching between 6GHz and 5GHz, with a speed of up to 3.5Gbps
Interfaces	The quoted AP must provide atleast 3 ports 1 x 100/1000M/2.5G Ethernet, RJ-45, 1 x 1000M/2.5G/5G optical port, SFP+ and 1 x 10/100/1000M Ethernet, RJ-45
POE	The quoted AP must be 802.3 bt/at compliant
Built-in Antenna	Built-in omni-directional antenna. 6GHz peak gain: 4.6dBi 5GHz peak gain: 5.0dBi 2.4GHz peak gain: 4.0dBi
Operating Temperature	Must support -10°C to +50°C operating temperature or higher
Working frequencies and MIMO	The quote AP must support 2x2 MIMO at 6GHz/ 2x2 MIMO at 5GHz Radio and 2x2 MIMO at 2.4GHz Radio
Standards & Wi-Fi Certified	IEEE 802.11a/b/g/n/ac/ax/be, WMM, WPA, WPA2 and WPA3 – Enterprise, Personal (SAE), Enhanced Open (OWE), Wi-Fi Alliance
Protection class	IP41

AP Working Mode	The AP must be capable of switching the working mode without need of any additional licensing. Working mode FIT (Controller based), Anchor (AP working as a controller) and Cloud (Add License for Cloud if any)
Number of clients	The quoted AP must be capable of handling atleast 1024 clients or higher
SSID	The quoted AP must support 16 BSSID per radio or higher
Roaming	The AP must support 802.11k and 802.11v smart roaming. As well as support 802.11r fast transition roaming
Security Policy	The quoted AP must be able to prevent Wireless Intrusion (WIPS). IP Source guard, 802.11i support must also be included
QOS	Coupled with WLAN ACs, the APs must be able to identify variety of applications and policy control could be implemented including priority adjustment, scheduling, blocking, and rate limiting on users. AP must also provide Airtime fairness
Load Balancing	Quoted AP must support users and traffic-based load balancing
Power Saving	AP should employ a green design that supports Dynamically adjust MIMO configuration based on wireless client access status to reduce device power consumption. Unscheduled Automatic Power Save Delivery, reduce device power consumption by scheduling VoIP data streams separately from non-VoIP data streams.
802.11be	Must support 4096-QAM and Multi-RU
Warranty Services	2-Year Next Business Day (NBD) Equipment Replacement Warranty along with 24x7 Online Technical Support directly from the Original Equipment Manufacturer (OEM)

LOT:1 Wireless WIFI Solution, Switches and Server

Item: Access Switches 24 Port PoE++ Switches

Specifications / Requirements:

Specification
Should have 24*10 /100/1000Base-T autosensing Ethernet ports, 4*10G SFP+ ports

Should have 4 x 10G SFP+ Ports (Loaded with 2 x Multimode Short Range (300m) 10G SFP+ Transceiver module) Note: SFP module must be of same OEM brand that of quoted switch
Should have 125 Gbps or higher port switch capacity
Forwarding rate should be 90 Mpps or higher
Should have 590Gbps or higher box switching capacity
1 x Console Port (RJ-45) along with console cable
The quoted switch support dual power supply but currently single power supply required
The quoted switch must have 820W of PoE power budget or higher
Should be an Enterprise Grade series Manageable Switch with Layer-3 features such as RIP, RIPng, OSPFv3, IS-IS and BGP
Should support STP, RSTP, MSTP and RRPP
Should support Stacking of local and remote devices through standard Ethernet interfaces. Should support stacking of 9 switches or more
Switch CPU must be Dual Core, 1GHz or higher
Should have 4K or more VLANs support and 32K MAC address entries
Port Mirroring, RSPAN or equivalent must be supported
Should support SNMP v1, 2 & 3 and NQA
Switch RAM/Flash must be 1GB/512M or higher
Should support security features like IP Source Guard, AAA, RADIUS, 802.1x and MAC Based Authentication, DHCP Snooping etc.
Support 12000 IPv4 routing entries or more
Support 8000 IPv4 ARP entries or more
Support 12000 Byte or larger Jumbo Frame
2-years NBD warranty backed from OEM must be included

Ministry of Interior and Narcotics control

Specification IT Equipment's (Goods)

Single Stage-Two Envelope

Eligibility Criteria

Sr #. 1

Lots: 1

Evaluation Criteria

Eligible bidder(s) with substantially responsive bid(s) offering **Least Cost Based Selection (LCBS)** shall be consider for the award of contract(s).

Least Cost Based Selection (LCBS)

Technical Marks	100
Passing Marks	70
Technical Evaluation Criteria For WIFI Solution, Switches and Server.	
The bidder must be authorized partner of OEM and provide MAL (Manufacturer Authorization Letter) issued by the OEM (IT items, Hardware / Software). (Mandatory Requirement) Bid without MAL will be Rejected (Quantitative)(Doc Required)	20
Full compliance to all Technical Specifications as mentioned in GSR. (Mandatory Requirement) (Quantitative)(Doc Required)	10

Comprehensive OEM warranty with onsite support as specified in GSR (Attach on Company Letter Head) (Mandatory Requirement) (Quantitative) (Doc Required)	10
Bidder history of similar IT infrastructure supply projects within last 02 years (Attach Copy) (Mandatory Requirement) (Quantitative)(Doc Required)	10
Local Office Presence along with details of OEM Certified / Trained Technical staff (IT Equipment) (Attach Copy) (Mandatory Requirement) (Quantitative)(Doc Required)	10
Company Profile and Local Office Details in Rawalpindi/ Islamabad	10
Complete delivery, installation, and commissioning at site mentioned by Interior. (Mandatory Requirement) (Quantitative)(Doc Required)	10
Free Training (WIFI Solution, Servers, Switches etc.) (Qualitative) (Doc Required)	10

The bidder shall submit an affidavit on stamp paper confirming that the bidder never been blacklisted/debarred by any Government, Semi-Government, or Public Sector Organization.

10

LOT 1: Items: Wireless WIFI Solution and Server

Item	UNSPSC	Delivery Schedule	Quantity	Bid Security	MAL Letter	Warranty
Server	2U Rack Mount Server	Ministry of Interior R Block Schedule: 90 Days Quantity:1	1		Mandatory	3 Years
WLAN Controller	WIFI Controller	Ministry of Interior R Block Schedule: 90 Days Quantity:1	1		Mandatory	2 Years
Access Points	Wireless Access Points (Triple Radio)	Ministry of Interior R Block Schedule: 90 Days Quantity:04	4		Mandatory	2 Years
Access Points	Wireless Access Points (Dual Radio)	Ministry of Interior R Block Schedule: 90 Days Quantity:31	31		Mandatory	2 Years
Access Switches	24 Port POE Access Switches	Ministry of Interior R Block Schedule: 90 Days Quantity:04	4		Mandatory	2 Years

Mandatory Clauses for WIFI Solution and Server.

The Vendor/Supplier shall be responsible for the complete installation, configuration, testing, commissioning, and successful handover of all supplied equipment, including Server, WLAN Controller, Wireless Access Points, and Access Switches.

All equipment shall be supplied with original, genuine, verifiable and manufacturer-recommended accessories, components, and installation materials of the best quality.

All required accessories, mounting kits, power cables, network cables, connectors, transceivers, and other installation-related items necessary for a complete and operational solution shall be included in the Vendor's scope.

During the support period, the Vendor shall provide necessary technical assistance, troubleshooting, configuration support, and resolution of hardware/software-related issues in accordance with the manufacturer's recommendations.

Compliance: 100% technical compliance is must

Hardware OEM: Quoted equipment including WLAN Controller, Access Points, Switches, Server and SFPs must be of the same OEM

References: Quoted brand must have minimum 30 or above different references of Server deployment in Pakistan

Authorization: Valid Certificate from Manufacturer (MAL) for this Tender.

OEM: Presence: The quoted brand principle must be registered with SECP in Pakistan at least for last 5 years

Local: OEM must have Local Registered Office, Local Warehouse presence in Pakistan preferably Islamabad, Lahore & Karachi and Also local OEM Support Team

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1. Design and implement a secure Wireless LAN solution covering all 7 corridors.
2. Supply and install only Latest-generation Hardware and Technology
3. Integrate the wireless system with the existing firewall infrastructure.
4. Provide complete documentation, staff training, and ongoing support and maintenance.

This solution must provide full wireless coverage across all seven corridors (Ground floor, 4th floor of R&S, 5 and 6th of R block) of the premises,

Lot: 1 Specification

LOT:1 Wireless WIFI Solution, Switches and Server

Item: Server

Specifications / Requirements:

Parameter!	Specification
2U Rack Mount Server Chassis	2U Rack-Mountable Server
Drive bays	1 x 12-LFF Drive slot or higher
Processor	2 x Intel Xeon Processor 12 cores or more
Memory	64GB 2 x 32GB DDR5-6400 MT/s RDIMMs or higher (OEM Pre Installed no local upgradation will be acceptable)
System disk	2 x 3.84TB RI NVMe-SSD or Higher with Raid 1 for OS Installation (OEM Pre Installed no local upgradation will be acceptable)
Data disk	4 x 4TB SATA 7.2K HDD or Higher (OEM Pre Installed no local upgradation will be acceptable)
PCIe Slots	Support 13 PCIe 5.0 Standard Slots, 2 Onboard OCP 3.0 Slots or higher
Ethernet	1 x 4-Port 1GE Copper Interface Ethernet Adapter. 1 x Dual Port 10G Fiber Interface Ethernet Adapter with Multimode 10G SFP+ Transceivers modules
GPU Slots	Support 12 Single Slot GPU Modules or 4 Dual Slot
Power supply	2 x 1300W AC Power Supply or better with fully populated Fans or better
Rack mount rail	Complete Ball Bearing Rail Kit with Cable Management Bracket
Security	Intelligent Security Bezel to control unauthorized access to front disks and TPM Module
Management software	Embedded Server Management Software as per standard requirement with all Enterprise/Advanced license
OS	Microsoft Windows Server Datacenter Edition Latest
Configurations	• Active Directory Domain Services (AD DS) installation • Domain creation and controller promotion • DNS & DHCP roles setup with redundancy • Group Policy Objects (GPO) structure configuration • Organizational Unit (OU) structure setup • FTP • Role based directory access level department/section wise

	Secure configuration of administrative accounts and password policies
Warranty	3-Years NBD OEM warranty

LOT: 1: Wireless WIFI Solution, Switches and Server

Item: WLAN Controller

Specifications / Requirements:

Parameter!	Specification
Throughput	The quoted wireless controller must have 9.8Gbps or higher throughput
Interfaces	Wireless controller must have 2 × 2.5GE ports, 8 × GE Copper ports and 2 x 10G SFP+ ports. Redundant Power Supplies must be included 1 x console port with console cable. 1 x USB port
Maximum number of Clients	Clients to be supported by the wireless controller must be 8K at least or more
Maximum number of APs	The quoted controller supports the management of at least 280+ APs
MAC and NAT Session	Support 16350 MAC and 409500 NAT sessions or higher
License	License for 36 APs must be included
Wireless user isolation	Supports users isolation based on VLANs and SSIDs
Roaming	Support intra-AC roaming, cross-AC roaming, and cross-VLAN Layer 3 roaming
Encryption	The controller must provide WEP-104, AES, WPA2, WPA3, 802.1x and Portal authentication
QoS	The controller must be able to perform L2-L4 packet filtering and traffic classification. The controller must be able to allocate available bandwidth per STA

RF Management	Load balancing must be supported based on traffic, user & frequency The Controller must be able to provide automatic channel/power/bandwidth adjustment
Security	The Controller must be efficient enough to detect and provide countermeasure for Rogue AP/s via WIPS Controller must defend the network against multiple types of attacks mainly DoS, Flood, and man-in-the middle attacks
High availability	Must support 1:1 Master/backup
Warranty	2-years NBD warranty backed from OEM must be included

LOT: 1: Wireless WIFI Solution, Switches and Server

Item: Access Points Triple Radio Indoor Access Point

Specifications / Requirements:

Parameter!	Specification
Maximum transmission speed	The quoted wireless indoor access point must be triple radio AP with Tri-radio mode enabled simultaneously on 2.4GHz, 5GHz and 6GHz and must provide 802.11be technology with transmission rate up to 18.59 Gbps or higher
Interfaces	The quoted AP must provide atleast 3 ports (one for 1G RJ-45 Port, one for 100/1000M/2.5G/5G/10G Multigigabit RJ-45 PoE Ethernet multi-rate port & one for 1000M/10G optical SFP+ port). The quoted AP must have a Console Port (RJ-45) and USB port as well. AP mounting kit must be included
POE	The quoted AP must be 802.3 bt/at compliant
Built-in Antenna	Built-in omni-directional antenna. Antenna peak gain on 2.4GHz must be 6dBi or higher, Antenna peak gain on 5GHz must be 5.1dBi or higher, Antenna peak gain on 6GHz must be 6.3dBi or higher

Operating Temperature	Must support 0°C to +50°C operating temperature or higher
Working frequencies and MIMO	The quote AP must support 4×4 MIMO at 6GHz, 4×4 MIMO at 5GHz Radio and 4×4 MIMO at 2.4GHz Radio
Standards & Wi-Fi Certified	Wi-Fi Alliance:Wi-Fi 7, Wi-Fi 6E, Wi-Fi 6, WMM, WPA, WPA2 and WPA3 – Enterprise, Personal (SAE), Enhanced Open (OWE)
Protection class	IP42
AP Working Mode	The AP must be capable of switching the working mode without need of any additional licensing. Working mode FIT (Controller based), Anchor (AP working as a controller) and Cloud (Add License for Cloud if any)
Number of clients	The quoted AP must be capable of handling atleast 1500 clients or higher
SSID	The quoted AP must support 16 BSSID per radio or higher
Roaming	The AP must support 802.11k and 802.11v smart roaming. As well as support 802.11r fast transition roaming
Security Policy	The quoted AP must be able to prevent Wireless Intrusion (WIPS). IP Source guard, 802.11w & 802.11i support must also be included
QOS	Coupled with WLAN ACs, the APs must be able to identify variety of applications and policy control could be implemented including priority adjustment, scheduling, blocking, and rate limiting on users. AP must also provide Airtime fairness
Load Balancing	Quoted AP must support users and traffic-based load balancing
Power Saving	AP should employ a green design that supports Dynamic and Static SM Power Saving (SMPS) and Enhanced Automatic Power Save Delivery (E-APSD). AP could be able to dynamically adjust the MIMO working mode and efficiently put terminals to sleep
802.11be	Must support 320M bandwidth, 4096-QAM and Multi-RU
Warranty Services	2-Year Next Business Day (NBD) Equipment Replacement Warranty along with 24x7 Online Technical Support directly from the Original Equipment Manufacturer (OEM)

LOT:1 Wireless WIFI Solution, Switches and Server

Item: Access Points Dual Radio Indoor Access Point

Specifications / Requirements:

Parameter!	Specification
Maximum transmission speed	The quoted wireless indoor access point must be dual-radio 4 streams and built-in antennas, with one radio supporting switching between 6GHz and 5GHz, with a speed of up to 3.5Gbps
Interfaces	The quoted AP must provide atleast 3 ports 1 x 100/1000M/2.5G Ethernet, RJ-45, 1 x 1000M/2.5G/5G optical port, SFP+ and 1 x 10/100/1000M Ethernet, RJ-45
POE	The quoted AP must be 802.3 bt/at compliant
Built-in Antenna	Built-in omni-directional antenna. 6GHz peak gain: 4.6dBi 5GHz peak gain: 5.0dBi 2.4GHz peak gain: 4.0dBi
Operating Temperature	Must support -10°C to +50°C operating temperature or higher
Working frequencies and MIMO	The quote AP must support 2x2 MIMO at 6GHz/ 2x2 MIMO at 5GHz Radio and 2x2 MIMO at 2.4GHz Radio
Standards & Wi-Fi Certified	IEEE 802.11a/b/g/n/ac/ax/be, WMM, WPA, WPA2 and WPA3 – Enterprise, Personal (SAE), Enhanced Open (OWE), Wi-Fi Alliance
Protection class	IP41
AP Working Mode	The AP must be capable of switching the working mode without need of any additional licensing. Working mode FIT (Controller based), Anchor (AP working as a controller) and Cloud (Add License for Cloud if any)
Number of clients	The quoted AP must be capable of handling atleast 1024 clients or higher
SSID	The quoted AP must support 16 BSSID per radio or higher
Roaming	The AP must support 802.11k and 802.11v smart roaming. As well as support 802.11r fast transition roaming
Security Policy	The quoted AP must be able to prevent Wireless Intrusion (WIPS). IP Source guard, 802.11i support must also be

	included
QOS	Coupled with WLAN ACs, the APs must be able to identify variety of applications and policy control could be implemented including priority adjustment, scheduling, blocking, and rate limiting on users. AP must also provide Airtime fairness
Load Balancing	Quoted AP must support users and traffic-based load balancing
Power Saving	AP should employ a green design that supports Dynamically adjust MIMO configuration based on wireless client access status to reduce device power consumption. Unscheduled Automatic Power Save Delivery, reduce device power consumption by scheduling VoIP data streams separately from non-VoIP data streams.
802.11be	Must support 4096-QAM and Multi-RU
Warranty Services	2-Year Next Business Day (NBD) Equipment Replacement Warranty along with 24x7 Online Technical Support directly from the Original Equipment Manufacturer (OEM)

LOT:1 Wireless WIFI Solution, Switches and Server

Item: Access Switches 24 Port PoE++ Switches

Specifications / Requirements:

Specification
Should have 24*10 /100/1000Base-T autosensing Ethernet ports, 4*10G SFP+ ports
Should have 4 x 10G SFP+ Ports (Loaded with 2 x Multimode Short Range (300m) 10G SFP+ Transceiver module) Note: SFP module must be of same OEM brand that of quoted switch
Should have 125 Gbps or higher port switch capacity
Forwarding rate should be 90 Mpps or higher
Should have 590Gbps or higher box switching capacity

1 x Console Port (RJ-45) along with console cable
The quoted switch support dual power supply but currently single power supply required
The quoted switch must have 820W of PoE power budget or higher
Should be an Enterprise Grade series Manageable Switch with Layer-3 features such as RIP, RIPng, OSPFv3, IS-IS and BGP
Should support STP, RSTP, MSTP and RRPP
Should support Stacking of local and remote devices through standard Ethernet interfaces. Should support stacking of 9 switches or more
Switch CPU must be Dual Core, 1GHz or higher
Should have 4K or more VLANs support and 32K MAC address entries
Port Mirroring, RSPAN or equivalent must be supported
Should support SNMP v1, 2 & 3 and NQA
Switch RAM/Flash must be 1GB/512M or higher
Should support security features like IP Source Guard, AAA, RADIUS, 802.1x and MAC Based Authentication, DHCP Snooping etc.
Support 12000 IPv4 routing entries or more
Support 8000 IPv4 ARP entries or more
Support 12000 Byte or larger Jumbo Frame
2-years NBD warranty backed from OEM must be included

Sr #. 2

Managed LAN Network Specification:

4. UPGRADATION OF EXISTING WIRED NETWORK

1. Objective

The Ministry of Interior and Narcotic Control invites qualified and experienced vendors to submit bids for the **removal of the existing wired network infrastructure and implementation of a complete new wired network infrastructure** to ensure optimal performance, improved security, reliability, and future scalability.

2. Scope of Work

The scope covers the following:

- Physical inspection and assessment of the current wired LAN infrastructure across all Ministry premises.
- **Removal, dismantling, and decommissioning of the existing wired network infrastructure, including network cables, switches, patch panels, Network I/Os, racks/accessories, and other associated components, as applicable.**
- **All removed network equipment and components shall be properly identified, documented, and handed over to the Ministry in accordance with the Ministry's applicable policies and procedures.**
- **Supply, installation, configuration, testing, and commissioning of the complete new wired network infrastructure in place of the existing network.**
- Supply and installation of new high-quality, **rodent/rat-bite-resistant network cabling.**
- Supply and installation of managed, PoE-enabled, Gigabit or Multi-Gigabit network switches.
- Supply and installation of new Network I/Os/data outlets, patch panels, racks, cable management accessories, and other required passive network components.
- Provision and installation of **cable trays, conduits, trunking, or other suitable cable protection arrangements at locations where required, feasible, and technically appropriate**, based on existing site conditions.
- Routing and protection of network cabling in coordination with existing electrical wiring and other building services.
- All new network cabling and associated routing shall be suitably protected against **rodent/rat damage.**
- Network configuration to ensure security and efficiency.
- Documentation, labeling, and structured cable management.
- Testing and commissioning of the complete new network.
- Network Monitoring system to monitor network devices & servers and send email notification upon failure.

3. Technical Requirements

3.1 Cabling

- Use of **Category 6A or higher Ethernet cables**.
- All cables must be **rodent/rat-bite resistant** and suitable for the intended installation environment.
- Network cabling shall be installed using **cable trays, conduits, trunking, or other approved protective arrangements**, as appropriate to the site conditions.
- **Cable trays shall be provided and installed at locations where required, feasible, and technically appropriate.** The contractor shall assess the existing infrastructure during the mandatory site survey and determine the most suitable cable-routing method.
- The selected cable-routing arrangement shall take into consideration the existing **electrical wiring, communication cables, fire-fighting systems, HVAC services, plumbing, and other building services**, and shall not obstruct or interfere with such services.
- Where cable trays are installed, they shall be properly supported, securely fixed, adequately sized, and routed in an orderly manner. Covers shall be provided where required for additional physical or rodent protection.
- Where cable trays are not feasible due to existing infrastructure or site constraints, **suitable conduits, trunking, or other approved protective methods shall be used** to ensure adequate mechanical and rodent protection.
- The **complete network cabling installation shall be protected against rodent/rat damage**, including cables installed above false ceilings, below floors, in shafts, service areas, walls, and other locations susceptible to rodent activity.
- All cable entry/exit points, wall and floor penetrations, sleeves, openings, and unused conduits shall be **properly sealed using suitable rodent-resistant materials** to prevent rodent ingress and cable damage.
- Structured cabling practices must be followed (**TIA/EIA-568 compliant**).
- Use of patch panels, racks, and cable organizers.
- Proper labeling of all cable runs and end-points.
- Supply and installation of **new Network I/Os/data outlets**, including faceplates, modules, patch cords, and associated accessories, as required.
- Fiber cabling upgrades where backbone performance is insufficient.

3.2 Network Switches

- Supply, installation, and configuration of new managed Layer 2 or Layer 3 Gigabit or Multi-Gigabit switches.
- PoE+ support on all access switches.
- Stackable or modular design preferred for core switches.
- VLAN support, SNMP, STP, LLDP, and RADIUS/802.1X authentication features.
- Redundant power supply for core network switches.

3.3 Racks and Accessories

- Network racks with adequate ventilation and cable management trays.
- Suitable cable entry/exit arrangements shall be provided to prevent rodent ingress into network racks and equipment areas.

- **Cable trays, conduits, trunking, and associated accessories shall be provided where required and feasible based on-site conditions.**
- Cable routing within racks shall be properly organized and protected from physical damage.
- All cable penetrations and openings into racks, rooms, false ceilings, floors, walls, and other enclosures shall be properly sealed where required to prevent rodent ingress.
- Power distribution units (PDUs) in each rack.
- All accessories must be compatible and safety-certified.

3.4 Integration

- Seamless integration with existing firewall and server infrastructure.
- Ensure all new equipment is compatible with the Ministry's current security posture and access control.

3.5 Testing and Commissioning

- End-to-end testing of network links with certified test equipment.
- Provide test reports showing compliance with standards (Fluke or equivalent).
- Configuration backup and handover.
- Verification of cable routing, cable tray/conduit installation, cable protection, and rodent-proofing measures.
- 5-day post-deployment monitoring support.

4. Security Considerations

- Secure access configuration on all switches (disable unused ports, MAC binding, port security).
- VLAN segregation for user groups (admin, staff, guests).
- Integration with central monitoring and firewall system.
- Network devices must support secure protocols (SSH, SNMPv3, HTTPS).

5. Deliverables

- All newly installed network cabling.
- Installed cable trays, conduits, trunking, and other cable protection arrangements, wherever applicable.
- Rodent-proofing/sealing of cable routes, penetrations, entry/exit points, and other vulnerable areas.
- New managed network switches and accessories.
- New Network I/Os/data outlets and associated accessories.
- Labelled and documented cable layout and rack diagrams.
- As-built cable-routing drawings showing cable trays, conduits/trunking, cable routes, and major penetration/sealing points.
- Device configuration documentation.

- Warranty certificates (**minimum 3 years for hardware**).
- As-built drawings and network diagrams (in PDF and editable formats).
- Documentation and handover record of all removed existing network equipment and components in accordance with Ministry policy.

6. Site Visit

- Vendors must perform a mandatory site survey to assess the current infrastructure and site conditions.
- The site survey shall include assessment of existing electrical wiring, communication cabling, available cable-routing paths, cable tray feasibility, and areas requiring additional rodent protection.
- Vendors shall identify suitable cable-routing arrangements based on actual site conditions.
- Site visit registration via the Ministry's IT Department.

7. Eligibility Criteria

- Registered firm with at least 3 years of experience in enterprise network deployments.
- Experience with government or critical infrastructure networks preferred.
- Submit proof of similar completed projects with references.

Items without LOT

Sr #. 3

WIRED DISCUSSION DEVICE

WIRED AUDIO SYSTEM – PROPOSED TECHNICAL SPECIFICATIONS

i. Wired Discussion Device / Delegate Unit

- **Wired discussion device for connection to the central control unit through dedicated system cabling.**
- **Capacitive touch/control interface for easy operation.**
- **Configurable through the system control software/interface.**
- **Configurable as Participant/Delegate, Dual-use, or Chairperson unit.**
- **Audio microphone mute/on-off button with LED status indication.**
- **Basic discussion functionality with clear speech reproduction.**
- **Built-in NFC/contactless reader for fast participant identification, where required.**

- User identification can be used to display personalized user information/logo on the unit, where supported by the selected system.
- Microphone and loudspeaker can operate simultaneously to provide a natural face-to-face meeting experience.
- Built-in acoustic feedback suppression.
- Automatic microphone/speaker management to maintain maximum speech intelligibility.
- High signal-to-noise ratio for clear speech reproduction.
- System shall support configurable microphone priority and speaking modes.
- Functionality shall be expandable through software licenses/modules without requiring replacement of the hardware.
- Dual-use functionality shall be available through software configuration/license where applicable.
- Connection to the central control unit shall be through secure, dedicated wired communication.
- No local battery or wireless RF communication shall be required.

ii. Microphone

- Uni-directional microphone mounted on an adjustable/flexible stem.
- Built-in pop/wind protection.
- Low susceptibility to interference from mobile phones and other RF devices.
- Suitable for acoustically challenging rooms.
- Suitable for installations where participants may speak while seated or standing.
- LED microphone status indicator.
- High speech intelligibility and low handling/noise characteristics.
- Microphone shall be detachable/replaceable where applicable.
- Available in appropriate stem lengths to suit the installation requirements.

iii. Central Control Unit / Wired Conference Control Unit

- Standalone operation without requiring a separate PC for basic conference operation.
- Provides centralized power, audio processing and communication for all wired discussion units.
- Supports connection and control of up to the specified number of participant/delegate units.
- Digital communication between the central control unit and discussion units.
- Supports microphone management and speaking modes including:
 - Open discussion
 - FIFO
 - Automatic
 - Chairman priority
 - Voice activation, where required
- Configurable number of simultaneously active microphones.
- Individual microphone priority and chairperson override functionality.
- User/participant management through web browser or dedicated control software.

- User management shall allow different users/access levels and system functionality.
- Audio input/output connections for external audio equipment.
- Line input and line output with configurable audio routing.
- Connection for external recording equipment.
- Connection for external sound reinforcement/amplification system.
- Built-in digital audio processing.
- Parametric equalization and configurable audio settings.
- Adjustable input/output levels.
- System status, diagnostics and configuration through web browser/control software.
- Network interface supporting standard Ethernet connectivity.
- DHCP and fixed IP address configuration.
- Host-name configuration and network discovery where supported.
- Secure user authentication and password-protected system configuration.
- Firmware/software update capability.
- Rack/table/wall mounting as appropriate.
- Automatic system monitoring and fault indication.

iv. System Cabling

- Dedicated wired conference-system cabling between the central control unit and discussion units.
- Cables shall provide both communication and power to the discussion units, where supported by the selected system.
- Locking connectors shall be provided to prevent accidental disconnection.
- System shall support daisy-chain or loop-through connection of discussion units.
- Cabling shall be suitable for permanent professional installation.
- Cable lengths and maximum system configuration shall comply with the manufacturer's specifications.
- All required connectors, extension cables, termination components and cable-management accessories shall be included.
- The system shall maintain reliable digital audio communication throughout the specified installation.

v. Power Supply

- Centralized power supply through the wired conference control unit.
- No rechargeable battery packs shall be required for delegate/chairperson units.
- Continuous operation as long as mains power is available.
- Built-in protection against overload, short circuit and over-temperature.
- Suitable for 100–240 VAC, 50/60 Hz, or local mains supply as applicable.
- System shall include all required power cords and power accessories.
- Optional redundant/uninterruptible power arrangement may be provided for critical installations.

vi. Speakers / Loudspeakers

- **Premium-quality cabinet loudspeaker suitable for speech and background music reproduction.**
- **Minimum power rating: 30 W, or as required for the room.**
- **High speech intelligibility and low distortion.**
- **Effective frequency range approximately 100 Hz to 19 kHz, or better.**
- **Suitable sound-pressure level for the intended room size.**
- **Wide horizontal and vertical dispersion for uniform room coverage.**
- **High-fidelity reproduction of speech and music.**
- **Suitable for 8-ohm and/or 70 V/100 V distributed audio systems, depending on the amplifier architecture.**
- **Wall, ceiling or surface mounting options as required.**
- **White finish unless otherwise specified.**

vii. Amplifier / Mixer Amplifier

- **Professional mixer amplifier suitable for conference-room speech reinforcement.**
- **Minimum four microphone inputs plus background music/line inputs, or as required by the project.**
- **Line-level input/output connections.**
- **Separate announcement/output functionality where required.**
- **3-wire volume override facility where required.**
- **Push-to-talk (PTT) functionality where required.**
- **Two-tone/electronic chime functionality.**
- **Built-in headphone monitoring output.**
- **Suitable loudspeaker output for the installed speaker system.**
- **Minimum amplifier output approximately 120 W, or appropriately sized for the connected loudspeaker load.**
- **Frequency response for line input approximately 60 Hz–20 kHz.**
- **Frequency response for microphone input approximately 70 Hz–20 kHz.**
- **Low total harmonic distortion and high signal-to-noise ratio.**
- **Individual input gain/volume controls.**
- **Master volume control.**
- **Protection against overload, short circuit and thermal conditions.**
- **Suitable for continuous professional operation.**
- **Rack-mountable or suitable for installation in the equipment rack.**

C) WARRANTY, INSTALLATION AND CONFIGURATION: -

- I. **Installation, configuration and one-year warranty.**

Note: Preference will be given to bidders/suppliers with a minimum of three (3) years of experience in the IT field or in IT-related work within government sectors. Relevant work orders or experience certificates may be attached with the technical bids. Preference will also be given to proposals offering higher or the latest specifications/models.

Sr #. 4

COMPUTER SPECIFICATIONS

Processor: Intel® Core™ i5-14500 vPro® (14 cores, up to 5.0GHz)
Ram: 16 GB: DDR5, up to 4800 MT/s, non-ECC
Storage: 512GB SSD
Display: 22” Inch
Microsoft Windows 11 Pro 64 Bit with Media Kit (OEM Pre Installed)
Microsoft Office Pro 2021 With Media kit (OEM Pre Installed)
Dell Keyboard and Mouse
All specs should be reflected on Service TAG
MAL is Mandatory
1 Year Warranty

Sr #. 5

LAPTOP SPECIFICATIONS

Processor: Intel® Core™ Ultra 7 150U
RAM: 16GB Ram
Storage: 1TB SSD
Display: 16-inch Full HD (FHD)
Graphics: Integrated Intel Graphics
Operating System: Windows 11
Wireless: Wi-Fi & Bluetooth
Webcam: Integrated Webcam
Audio: Integrated Stereo Speakers
Keyboard: Full-size Keyboard with Numeric Keypad
Microsoft Windows 11 Pro 64 Bit with Media Kit (OEM Pre Installed)

Microsoft Office Pro 2021 With Media kit (OEM Pre Installed)
Form Factor: 16-inch Laptop
Power Adapter: Included
All specs should be reflected on Service TAG
MAL is Mandatory
1 Year Warranty

Sr #. 6

MACBOOK SPECIFICATIONS

Sr. No.	Parameter	Minimum Requirement
1	Manufacturer	Apple
2	Product	MacBook Air 13.6-inch
3	Model / Generation	MacBook Air with M5 Chip, 2026 or latest
4	Processor / SoC	Apple M5 Chip
5	CPU	10-Core CPU
6	GPU	8-Core GPU minimum
7	Neural Engine	16-Core Neural Engine
8	Unified Memory	16GB minimum
9	Storage	512GB SSD minimum
10	Storage Type	Integrated Apple SSD
11	Display Size	13.6-inch diagonal
12	Display Technology	Liquid Retina, LED-backlit IPS
13	Native Resolution	2560 × 1664 pixels
14	Pixel Density	224 ppi

15	Brightness	500 nits
16	Colour	Wide colour (P3)
17	True Tone	Required
18	Display Colours	Support for 1 billion colours
19	Operating System	Latest officially supported macOS
20	Apple Intelligence	Supported
21	Wi-Fi	Wi-Fi 7 (802.11be)
22	Bluetooth	Bluetooth 6
23	USB / Thunderbolt	2 × Thunderbolt 4 / USB-C
24	USB Capability	USB 4 / Thunderbolt 4 / DisplayPort
25	Charging	MagSafe 3
26	Headphone Port	3.5mm headphone jack
27	Camera	12MP Center Stage camera
28	Video	Up to 1080p HD
29	Microphone	Three-microphone array
30	Speakers	Four-speaker sound system
31	Audio	Spatial Audio / Dolby Atmos support
32	Keyboard	Backlit Magic Keyboard
33	Security	Touch ID
34	Trackpad	Force Touch trackpad
35	Battery	Built-in lithium-polymer battery, approximately 53.8Wh

36	Battery Life	Up to 18 hours, subject to usage and Apple's test conditions
37	Charger	Original Apple USB-C/MagSafe power adapter
38	Chassis	Aluminum enclosure
39	Weight	Approximately 1.23 kg
40	Warranty	Minimum 01 year manufacturer/Apple warranty
41	Condition	Brand-new, unused, genuine and factory-sealed

Sr #.7

SPECIFICATIONS OF MULTIMEDIA / SMART SCREEN FOR CONFERENCE ROOM

1. Features: -

- **Resolution:** min 4K UHD (3840 x 2160).
- **Backlight Type:** O-LED/Q-LED/UHD
- **Screen Lamination:** Zero-gap bonding.
- **Screen Size:** 96" or above screen
- **Touch Sensing:** ≤2mm touch sensing distance, 16ms latency.

2. Writing:

- **Intelligent Writing Recognition:** Supports recognition of Chinese, English, and 11 types of graphics.
- **Pen Types:** Pencil, Pen, Highlighter, and Smart Pen.

3. Camera:

- **Resolution:** 4K.
- **Sharpness:** 1800 lines.
- **Horizontal Field of View (HFoV):** 80°.
- **Lens Cover:** Yes, for privacy.

4. Audio:

- **Speakers:** 4 speakers with a total power of 40W.
- **Microphones:** 12m, 180° voice pickup.

5. Connectivity:

- **Wi-Fi:** Supports Wi-Fi 6 for direct projection.
- **Other:** Type-A port for IdeaShare Key (optional), OPS (optional).

6. Software:

- **Operating System:** OS (built-in) and Windows (with optional OPS module).

7. **Other:**

- **AI Features:** Auto-Framing, Intelligent Tracking, Acoustic Baffle, DNN-based dereverberation.
- **Meeting Apps:** Cloud Meeting and WeLink.
- **Dual Streams:** Supports 1080p30fps+1080p30fps/4K8fps for audio/video + data sharing.

8. **Warranty:** -

- 2x year minimum warranty.

Note: Preference will be given to bidders/suppliers who have minimum 3x years of experience in IT field or IT nature work in government sectors. Work orders/experiences may be attached with technical bids. Preference will be given to higher/latest specifications/models.

Sr #. 8

TECHNICAL SPECIFICATIONS – 12V 200AH UPS BATTERIES FOR SERVER ROOM (BRANDED & MAINTENANCE-FREE)

Note: Batteries must be **12V, minimum 200Ah capacity, branded, sealed, and maintenance-free**. Only **VRLA (Valve-Regulated Lead-Acid)** or **GEL-type** batteries are acceptable. **Unbranded, refurbished, flooded (acid-filled), or Chinese-manufactured batteries will not be accepted.**

1. Battery Type

- 12V, Sealed Maintenance-Free (SMF)
- Valve-Regulated Lead-Acid (VRLA) or GEL technology
- Minimum capacity: **200Ah**
- Deep cycle, high-discharge design suitable for UPS applications
- Acid-free, spill-proof, and gas recombination system

2. Construction & Quality

- ABS or Polypropylene (PP) flame-retardant outer casing
- Corrosion-resistant, heavy-duty terminals
- Designed for high-temperature environments (preferably up to 55°C)
- Vibration and shock resistant

3. Compatibility

- Suitable for online UPS systems used in server rooms/data centers
- Compatible with major UPS brands (APC, Vertiv, Eaton, Numeric, etc.)

4. Certifications

- ISO 9001 / ISO 14001 certified manufacturing
- CE / UL / IEC 60896 / BIS compliant
- RoHS compliant (environmentally safe)

5. Warranty & Delivery

- **Minimum 2-year manufacturer warranty**
- Fresh stock (batteries should be manufactured within the last 3 months)
- Authorized distributor or OEM channel preferred
- On-site delivery with proper labeling and packing

Note: Preference will be given to bidders/suppliers with a minimum of three (3) years of experience in the IT field or in IT-related work within government sectors. Relevant work orders or experience certificates may be attached with the technical bids. Preference will also be given to proposals offering higher or the latest specifications/models.

Sr #.9

TECHNICAL SPECIFICATIONS – 600VA / 1000VA UNINTERRUPTED POWER SUPPLY (UPS) FOR COMPUTERS

Note: UPS units must be **branded (e.g., APC, Eaton, Vertiv, or equivalent)** and of **high quality**. **Local or unbranded/low-cost units will not be accepted.** All units should be suitable for protecting desktop computers and related IT equipment.

1. Capacity

- Rated power: 600VA or 1000VA (as per requirement)
- Input voltage range: 140V–300V
- Output voltage: 230V $\pm$ 10%
- Frequency: 50Hz $\pm$ 1%
- Output waveform: Pure sine wave or stepped approximation (line-interactive)

2. Battery

- Sealed, maintenance-free lead-acid battery
- Backup time: Minimum 10–15 minutes at full load
- Fast recharge capability ($\leq$ 6 hours to 90%)
- User-replaceable batteries preferred

3. Features

- Automatic Voltage Regulation (AVR)
- LED/LCD indicators for power and battery status
- Audible alarms (low battery, overload, etc.)
- USB or serial connectivity for monitoring software

4. Design

- Compact, tower design
- Overload, short circuit, and surge protection
- Silent operation (fanless or low-noise fan preferred)

5. Warranty

- Minimum 2-year warranty including battery
- Authorized local support and service availability required

Note: Preference will be given to bidders/suppliers with a minimum of three (3) years of experience in the IT field or in IT-related work within government sectors. Relevant work orders or experience certificates may be attached with the technical bids. Preference will also be given to proposals offering higher or the latest specifications/models.

Sr #. 10

LASERJET PRINTER: TECHNICAL SPECIFICATIONS FOR BLACK & WHITE PRINTER

1. Print Technology

- Print Method: Laser / LED
- Colour: Monochrome (Black & White only)
- Resolution: Minimum 600 x 600 dpi
- Print Speed: Minimum 40 ppm
- First Page Out: 8 seconds or less

2. Paper Handling

- Paper Sizes: A4, Legal, Letter, A5
- Input Capacity: Minimum 250 sheets
- Output Capacity: Minimum 100 sheets
- Duplex: Automatic preferred
- Media: Plain paper, envelopes, labels

3. Performance

- Monthly Duty Cycle: Minimum 30,000 pages
- Recommended Monthly Volume: 1,000 – 4,000 pages

- Memory: Minimum 256 MB

4. Connectivity

- USB 2.0
- Ethernet preferred
- Wi-Fi optional

5. Compatibility

- Windows
- macOS support preferred

6. Warranty & Brand

- Warranty: Minimum 1 Year Local Warranty
- Must be brand new and original

Sr #. 11

Scanner Specifications

• Components/ Features	• Description
• Throughput Speeds (Color)	• 40ppm/80ipmcolor at 300 dpi Duplex, Straight Paper Path.
• Imaging Technology & Output Resolution Options	• Dual CIS , Grayscale output bit depth is 256 levels (8-bit); color output bit depth is 24 bits (8 x 3) & Up to 1200 DPI.
• Paper Thickness and Weight	• Minimum 27 For Thin Documents like Bank Deposit slips & Maximum 430 g/m ² For Thick documents like Hard Card educational certificate (7.2–160 lb. cover stock) Hard card thickness up to 1.24 mm
• Daily duty Cycle	• 4800 pages per day.
• Connectivity & File Format	• USB 3.2 Gen 1x1 Compatible & Microsoft Excel, Microsoft Word, Multipage TIFF, PDF
• Accessory	• The bidder should quote separate price for legal size flatbed accessory which should be connected with scanner as single unit (Detachable).
• Document Feeding Capacity	• 80 sheets of 80 g/m ² (20 lb.) paper or above • Handles small documents such as A8, ID cards, embossed hard cards, and insurance cards (portrait and landscape orientations)

• Past Experience & MAL Letter	• Bidder should provide MAL Letter
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Sr #. 12

OVERHEAD SCANNER SPECIFICATIONS

Sensor	CMOS
Camera Pixel	48-Megapixel
Max. Optical Resolution	7968X5984 Pixels
Output DPI	Up to 600 DPI
Scan Speed	1 sec/page at 300 dpi
Max. Shooting Area	≥ A3 (426 x 320 mm)
Video Recording	4K @ 30fps
Image Format	Picture: JPG, TIFF, BMP, PNG, Document: PDF(Image), PDF (Searchable), PDF (Text), Excel, WORD, TEXT, MP3, E-book: EPUB
USB Interface	USB 3.0 Type-C
Power	DC-IN 5V/2A
Scanning Matériel	Documents, Books, Magazines, Files, Scrolls, Forms, Invoices, Certificates, Business cards and Sculpture object
System support	Windows 11, Windows 10 macOS® 10.15 or later

Sr #. 13

COLOR PRINTER SPECIFICATIONS

1. Print Technology

- Print Method: Laser / LED or High-end Inkjet (Piezoelectric)
- Colour Printing: Full Colour (CMYK)
- Print Resolution: Minimum 1200 x 1200 dpi (or equivalent enhanced resolution)
- Print Speed:
- Colour: Minimum 40 pages per minute (ppm) or higher

- Black: Minimum 40 pages per minute (ppm) or higher
- First Page Out Time: 8 seconds or less (Colour & Black)

2. Paper Handling

- Paper Size Support: A4, A3, Legal, Letter, A5, Custom sizes
- Paper Weight Support: 60 – 220 gsm (or higher)
- Input Capacity:
 - Standard: Minimum 500 sheets
 - Maximum expandable: 1500 sheets or higher (with optional trays)
- Output Capacity: Minimum 250 sheets
- Duplex Printing: Automatic (Built-in duplex)
- Media Types: Plain paper, Thick paper, Glossy, Labels, Envelopes, Cardstock

3. Duty Cycle & Performance

- Monthly Duty Cycle: Minimum 80,000 pages or higher
- Recommended Monthly Volume: 5,000 – 15,000 pages
- Processor: Minimum 1.0 GHz Dual Core or higher
- Memory (RAM): Minimum 1 GB (expandable preferred)
- Hard Disk: Minimum 320 GB or higher (preferred for heavy duty)

4. Connectivity

- Standard Interfaces:
- USB 2.0 / USB 3.0
- Gigabit Ethernet (10/100/1000)
- Wi-Fi (802.11 b/g/n/ac) preferred
- Mobile Printing: AirPrint, Mopria, Google Cloud Print or equivalent
- Network Protocols: TCP/IP, SNMP, HTTP/HTTPS

5. Operating System Compatibility

- Windows 10 / Windows 11 (32-bit & 64-bit)
- macOS (latest versions)
- Linux support preferred

6. Additional Features

- Colour Management: Advanced colour calibration / Pantone matching support preferred
- Security Features: Secure print, User authentication, Data encryption preferred
- Display: Minimum 4.3-inch Colour Touchscreen
- Toner / Ink: High-yield cartridges / bottles available

7. Warranty & Support

- Warranty: Minimum 1 Year Local On-site Warranty with parts
- The offered model must be brand new and original

- Supplier must provide complete technical brochure and datasheet

8. General Requirements

- Power Supply: 220-240V, 50/60 Hz (Pakistan compatible)
- Energy Star certified preferred
- Low noise operation preferred

Sr #. 14

FAX all in one Specifications

Technical Specification

Sr. No.	Parameter	Minimum Requirement
1	Device Type	Monochrome Laser Multifunction All-in-One
2	Functions	Print, Copy, Scan & Fax
3	Print Technology	Monochrome Laser / Electrophotographic
4	Processor	Minimum 600 MHz or equivalent embedded processor
5	Processor Type	Embedded ARM / proprietary / equivalent processor
6	RAM	Minimum 256 MB
7	Internal Storage	Minimum 256 MB non-volatile memory; higher preferred
8	Print Speed	Minimum 30 ppm (A4)
9	Print Resolution	Minimum 600 × 600 dpi, 1200 dpi quality preferred
10	First Page Out	≤ 8 seconds preferred
11	Duplex Printing	Automatic, standard
12	Monthly Duty Cycle	Minimum 30,000 pages/month
13	Recommended Monthly Volume	Minimum 2,000 pages/month
14	Paper Input Capacity	Minimum 250 sheets
15	Multipurpose/Manual Tray	Minimum 50 sheets preferred
16	Output Capacity	Minimum 100 sheets
17	Paper Sizes	A4, A5, A6, B5 and Legal/Folio preferred
18	Paper Weight	Minimum 60–163 g/m ² or better
19	ADF	Minimum 50 sheets
20	Scanner Type	Flatbed + ADF
21	Scanner Resolution	Optical minimum 600 × 600 dpi; 1200 dpi preferred
22	Scan Size	A4 and Legal/Folio through ADF preferred
23	Scan File Formats	PDF, JPEG, TIFF, PNG or equivalent
24	Scan to PC	Required
25	Scan to Email	Preferred/Required for network model
26	Scan to USB	Preferred
27	Copy Speed	Minimum 30 cpm
28	Copy Resolution	Minimum 600 × 600 dpi
29	Copy Quantity	Minimum 1–99 copies
30	Enlargement/Reduction	25%–400%

31	Multiple Copying	Required
32	Fax Standard	Super G3 / ITU-T Group 3
33	Fax Modem Speed	33.6 Kbps or higher
34	Fax Memory	Minimum 400 pages
35	Fax Resolution	Minimum 203 × 196 dpi; 300 × 300 dpi preferred
36	Fax Speed Dial	Minimum 100 numbers
37	Fax Broadcasting	Minimum 100 destinations or equivalent
38	Automatic Redial	Required
39	Error Correction Mode (ECM)	Required
40	Memory Transmission	Required
41	Out-of-Paper Reception	Required
42	Fax Confirmation Report	Required
43	Telephone Interface	Standard RJ-11 fax/telephone line
44	Display	Minimum 2-line LCD; graphical display preferred
45	USB	USB 2.0 or higher
46	Network	10/100/1000 Ethernet preferred
47	Wi-Fi	Dual-band 802.11 b/g/n/ac or better preferred
48	Mobile Printing	AirPrint / Mopria / manufacturer equivalent
49	Network Protocols	TCP/IP, IPv4, IPv6
50	Network Management	Web-based remote management preferred
51	Security	Administrator password/access control; secure network configuration preferred
52	Printer Languages	PCL 5/PCL 6 or equivalent; PostScript preferred
53	Operating System	Compatible with current Windows and Linux environments; macOS support preferred
54	Energy Saving	Sleep/Auto-Off/Energy Saver mode
55	Power Supply	220–240V AC, 50/60 Hz, suitable for Pakistan
56	Warranty	Minimum 1 year comprehensive
57	Condition	Brand-new, unused, genuine and current/market-supported model

PVC CARD SPECIFICATIONS

Technical Specifications for PVC Card Printer

1. Print Technology

- Print Method: Dye-Sublimation Thermal Retransfer
- Printing Capability: Single-sided and Dual-sided printing
- Print Resolution: Minimum 600 x 600 dpi
- Print Area: Full edge-to-edge

2. Print Performance

- Print Speed: Minimum 140 cards per hour (Full Color YMCK – Single sided)
- Approximate Print Time: 25 seconds or less per card (Single sided full color)
- Color Capability: Full Color (up to 16.7 million colors)

3. Card Handling

- Accepted Card Size: CR-80 (ISO ID-1 standard) – 85.6 mm x 54 mm
- Card Thickness Support: 0.76 mm to 1.0 mm (30 mil to 40 mil)
- Compatible Card Material: PVC Cards
- Input Hopper Capacity: Minimum 50 cards
- Output Hopper Capacity: Minimum 50 cards

4. Connectivity & Compatibility

- Interface: USB 2.0 or higher
- Operating System Support: Windows 10 and Windows 11 (32-bit & 64-bit)
- Driver Support: Official drivers for Windows

5. Additional Features

- Edge-to-edge printing support
- User-friendly operation
- Suitable for ID Cards, Employee Cards, Student Cards, Membership Cards etc.

6. Warranty & Support

- Warranty: Minimum 1 Year Local Warranty (including parts and service)
- Country of Origin: Preferably original manufacturer product

7. General Requirements

- The offered printer must be brand new and unused
- Supplier must provide original software/drivers
- Technical brochure and complete specifications of the quoted model must be attached

Sr #. 16

IPHONE SPECIFICATIONS

IP-Phones

- **SUPPLY OF SIP-BASED IP PHONES FULLY COMPATIBLE WITH THE MINISTRY'S EXISTING SANGOMA IP-PBX/UC PLATFORM.**
- **IP PHONES SHALL SUPPORT POE AND GIGABIT ETHERNET CONNECTIVITY.**
- **MINIMUM 2.8-INCH COLOR DISPLAY WITH PROGRAMMABLE FUNCTION/SOFT KEYS.**
- **SUPPORT HD VOICE AND STANDARD SIP AUDIO CODECS.**
- **SUPPORT ESSENTIAL TELEPHONY FEATURES INCLUDING CALL HOLD, TRANSFER, FORWARDING, WAITING, MUTE, SPEAKERPHONE, AND VOICEMAIL.**
- **SUPPORT AUTO-PROVISIONING, VLAN/QOS, AND SECURE COMMUNICATION PROTOCOLS AS SUPPORTED BY THE SANGOMA PLATFORM.**
- **EACH IP PHONE SHALL BE SUPPLIED WITH ALL REQUIRED HANDSET, STAND, ETHERNET CABLE, AND ACCESSORIES.**

Sr #. 17

ETHERNET AND FIBER TOLLS SPECIFICATIONS

Ethernet and fiber tolls

Tender Specifications: Fiber Optic Cable Repair and Ethernet Networking Tools

- **Objective:** To procure a complete set of **fiber optic cable repair tools** for use in the field, enabling technicians to perform splicing, cleaving, testing, and protective measures on damaged fiber links.

A. General Requirements

- **Application:** Repair and maintenance of **single-mode and multi-mode fiber optic cables** in outdoor and indoor environments.
- **Usage:** For field deployment by MoI or authorized telecom teams.
- **Environment:** Tools must be **field-rugged, portable, and weather-resistant.**
- **Compliance:** All tools must comply with relevant **IEC, ITU-T, or TIA** standards for optical communications.

B. Required Tools & Equipment (Minimum Specification)

1. Optical Fiber Fusion Splicer

- **Type:** Core-alignment or active-clad alignment
- **Fiber Types:** SM (G.652, G.655) and MM (OM1–OM4)
- **Splice Time:** ≤ 9 seconds
- **Heating Time:** ≤ 30 seconds
- **Battery:** Rechargeable; minimum 150 splice/heat cycles per charge
- **Screen:** 5" or larger, touch-enabled LCD
- **Electrodes:** Replaceable, min. 3000 arc discharges
- **Accessories:** Carrying case, spare electrodes, power adapter, internal memory

2. Fiber Cleaver

- **Type:** Precision fiber cleaver with automatic blade rotation
- **Cleaving Angle:** $\leq 0.5^\circ$
- **Blade Life:** $\geq 48,000$ cleaves
- **Scrap Collector:** Built-in

3. OTDR (Optical Time Domain Reflectometer)

- **Wavelengths:** 1310/1550 nm (dual wavelength)
- **Dynamic Range:** ≥ 35 dB
- **Dead Zones:** Event ≤ 1.5 m, Attenuation ≤ 5 m
- **Display:** Color touchscreen
- **Battery:** Rechargeable, ≥ 8 hours operation
- **Storage:** Internal memory + USB export
- **Accessories:** Launch cable box, software, carrying case

4. Power Meter & Light Source Kit

- **Wavelengths:** 850/1300/1310/1490/1550 nm
- **Connector Compatibility:** SC/APC, SC/UPC, LC (with adapters)
- **Display:** Backlit LCD with dBm/watt reading
- **Accuracy:** ± 0.25 dB
- **Battery:** ≥ 30 hours continuous use

5. Fiber Stripping Tool Set

- **3-in-1 stripper:** For outer jacket, 250 µm and 900 µm buffer
- **Kevlar scissors:** Hardened steel blades
- **Precision cutter:** Clean cuts on cable jacket and aramid yarn

6. Fiber Cleaning Kit

- **Isopropyl alcohol wipes**
- **Lint-free swabs (1.25 mm / 2.5 mm)**
- **One-click cleaner pens** (for LC/SC)
- **Compressed air duster or blower**

7. Protective Heat Shrink Sleeves

- **Sleeve Lengths:** 40 mm and 60 mm
- **Min. Quantity:** 200 pieces total
- **Materials:** Polyolefin with stainless steel reinforcing rod

8. Tool Bag / Hard Case

- **Rugged, shockproof, water-resistant**
- **Foam-cut compartments** for equipment
- **Shoulder strap or trolley handle** for mobility

C. Technical Specifications – Ethernet Tools

- **All tools must be imported and of professional-grade quality.**
Cheap, low-quality, or local-manufactured tools will not be accepted.

1. RJ45 Crimping Tool

- Compatible with RJ45, RJ11, and RJ12 connectors
- Ratcheting mechanism for precise crimping
- Ergonomic, non-slip handle
- Heavy-duty construction
- Branded, imported model

2. Cable Tester

- Suitable for RJ45 and RJ11 cables
- Tests for continuity, open circuits, shorts, miswires, and split pairs
- LED display indicators
- High precision and reliability
- Imported, non-generic brand

3. Punch Down Tool

- Compatible with 110/88 terminals
- Adjustable impact pressure
- Reversible cutting blade with spare blade storage
- Durable and easy to handle
- Must be from a recognized international brand

4. Cable Stripper

- Adjustable for CAT5e and CAT6 (UTP/STP) cables
- Precision cutting blade
- Ergonomic design
- Built for long-term use
- Imported quality only

5. Wire Cutter/Stripper Tool

- Supports multiple cable gauges
- Hardened steel blades
- Spring-loaded handle for ease of use
- Professional finish and build
- Non-Chinese, branded model

6. Carrying Case / Tool Kit Bag

- Heavy-duty, shock- and weather-resistant
- Separate compartments for each tool
- Portable and lockable if required
- Durable imported material

D. Delivery, Documentation & Warranty

- **Delivery Quantity:** Minimum **3 complete kits**
- **User Manuals:** Must be provided in **English and Arabic**
- **Calibration Certificates:** Required for OTDR and Power Meter
- **Warranty:** Minimum **1 year** on all tools; splicer must have optional extended warranty
- **Training:** Optional hands-on demo/training for MoI technicians (if requested)
- **Delivery Timeline:** Within **30 days** of purchase order
- **Labeling:** Kits must be labeled with MoI property tags on delivery

Required Vendor Submission Documents

- Technical datasheets for all tools quoted
- Brand, model, and country of origin for each item
- Warranty policy and service center availability
- Quotation with unit and total price
- Delivery commitment timeline
- Certifications (ISO, CE, FCC, etc. where applicable)

Note: Preference will be given to bidders/suppliers with a minimum of three (3) years of experience in the IT field or in IT-related work within government sectors. Relevant work orders or experience certificates may be attached with the technical bids. Preference will also be given to proposals offering higher or the latest specifications/models.

Sr #. 18

LEds Specifications

Smart 4K UHD LED/QLED Television 55", 65", 85" and 98"

Technical Specifications

Sr. No.	Parameter	Minimum Requirement			
		55-inch	65-inch	85-inch	98-inch
1	Screen Size	55-inch	65-inch	85-inch	98-inch
2	Display Technology	LED / QLED or better	LED / QLED / Mini-LED or better	QLED / Mini-LED / Premium LED or better	QLED / Mini-LED / Premium LED or better
3	Resolution	3840 × 2160 (4K UHD)	3840 × 2160 (4K UHD)	3840 × 2160 (4K UHD)	3840 × 2160 (4K UHD)
4	Aspect Ratio	16:9	16:9	16:9	16:9
6	Refresh Rate	Minimum 60 Hz	Minimum 60 Hz	Minimum 120 Hz preferred	Minimum 120 Hz preferred
7	HDR	HDR10 minimum	HDR10 minimum; HDR10+/Dolby Vision preferred	HDR10 / HDR10+ / Dolby Vision or equivalent	HDR10+ / Dolby Vision or equivalent
8	Processor	Quad-Core or equivalent Smart TV processor	Quad-Core or equivalent	Quad-Core / AI-capable equivalent processor	AI-capable Quad-Core or equivalent premium processor
9	RAM	Minimum 3 GB	Minimum 3 GB	Minimum 3 GB	Minimum 3 GB
10	Internal Storage	Minimum 16 GB	Minimum 16 GB	Minimum 16 GB	Minimum 16 GB
11	Smart OS	Google TV / Android TV / Tizen / webOS or equivalent current-generation OS	Google TV / Android TV / Tizen / webOS or equivalent	Current-generation Google TV / Android TV / Tizen / webOS or equivalent	Current-generation Google TV / Android TV / Tizen / webOS or equivalent
12	HDMI	Minimum 3 ports	Minimum 3 ports	Minimum 3 ports	Minimum 4 ports
13	USB	Minimum 2 ports	Minimum 2 ports	Minimum 2 ports	Minimum 2 ports

14	Wi-Fi	Dual-band Wi-Fi 2.4/5 GHz	Dual-band Wi-Fi 2.4/5 GHz	Dual-band Wi-Fi 2.4/5 GHz	Dual-band Wi-Fi 2.4/5 GHz
15	Bluetooth	Bluetooth 5.0 or higher preferred	5.0 or higher preferred	Version 5.0 or higher	Version 5.0 or higher
16	LAN	Built-in Ethernet/LAN	Built-in Ethernet; Gigabit preferred	Built-in Ethernet; Gigabit preferred	Built-in Ethernet; Gigabit preferred
17	Screen Mirroring	Required	Required	Required	Required
18	Audio Output	Minimum 20W total	Minimum 20W total	Minimum 30W total	Minimum 40W total
19	Audio	Dolby Audio / DTS or equivalent	Dolby Audio / DTS or equivalent	Dolby Audio / DTS or equivalent	Dolby Audio / DTS or equivalent
20	eARC/ARC	Required/preferred	Required	Preferred	Preferred
21	Digital Audio	Optical output or equivalent	Required	Preferred	Preferred
22	Voice Assistant	Required	Required	Preferred	Preferred
23	Apps	YouTube, Netflix and major Smart TV applications	YouTube, Netflix and major Smart TV applications	YouTube, Netflix and major Smart TV applications	YouTube, Netflix and major Smart TV applications
24	Remote	Original Bluetooth/IR remote	Original Bluetooth/IR remote	Original Bluetooth/IR remote	Original Bluetooth/IR remote
25	Wall Mount	VESA-compatible	VESA-compatible	Heavy-duty VESA- compatible	Heavy-duty VESA-compatible mounting system
26	Power	220–240V AC, 50 Hz	220–240V AC, 50 Hz	220–240V AC, 50 Hz	220–240V AC, 50 Hz
27	Energy Saving	Sleep/Standby/Eco mode	Sleep/Standby/Eco mode	Sleep/Standby/Eco mode	Sleep/Standby/Eco mode
28	Warranty	Minimum 1 years comprehensive	Minimum 1 years comprehensive	Minimum 1 years comprehensive	Minimum 1 years comprehensive
29	Condition	Brand-new, unused and genuine	Brand-new, unused and genuine	Brand-new, unused and genuine	Brand-new, unused and genuine

Sr #. 22

PHOTOCOPIER MACHINE 25-35CPM SPECIFICATIONS

Type	Desktop, Multifunction, B/W
Copy Speed	25- 35 CPM or Higher
Original Size	11"X 17" or above
Paper Capacity	1200 or above
Continuous Copy	9999
Copy Resolution	600x600 dpi or higher
Printer resolution	2400x2400 dpi or higher
Zoom Range	25 % to 400
Built in Technology	DADF , Auto Duplex
Display	9" Touch screen or higher
Processor	1.6 GHz Dual Core or higher
RAM	3 GB or higher
Connectivity	Ethernet + USB
Toner Life	30,000 copies
Drum Life	100,000 copies or above

Sr #. 23

PHOTOCOPIER MACHINE 45-55CPM SPECIFICATIONS

Type	Desktop, Multifunction, B/W
Copy Speed	45- 55 CPM or Higher
Original Size	11"X 17" or above
Paper Capacity	1200 or above
Continuous Copy	9999
Copy Resolution	600x600 dpi or higher
Printer resolution	2400x2400 dpi or higher
Zoom Range	25 % to 400
Built in Technology	DADF , Auto Duplex
Display	9" Touch screen or higher
SSD	256 GB or Higher
Processor	1.75 GHz Dual Core or higher
RAM	3 GB or higher
Connectivity	Ethernet + USB
Toner Life	40,000 copies
Drum Life	100,000 copies or above

Sr #. 24

PHOTOCOPIER MACHINE 85-95CPM SPECIFICATIONS

Type	Desktop, Multifunction, B/W
Copy Speed	85-95 CPM or Higher
Original Size	11" X 17" or above
Paper Capacity	4000 sheets or above
Continuous Copy	9999
Copy Resolution	600x600 dpi or higher
Printer resolution	2400x2400 dpi or higher
Zoom Range	25 % to 400
Built in Technology	Dual Scan Document Feeder (DSDF) , Auto Duplex
Display	9" Touch screen or higher
SSD	256 GB SSD or Higher
Processor	1.75 GHz Dual Core or higher
RAM	5 GB or higher
Connectivity	Ethernet + USB
Toner Life	80,000 copies or above
Drum Life	900.000 copies or above

Government Of Pakistan
Ministry of Interior & Narcotics Control
General Section

TENDER DOCUMENTS FOR FURNITURE/FIXTURE ITEMS (2026-27)			
S.NO.	NAME OF ITEMS	UNITS	Rates of Each items with GST
1	Visitor Chairsteel as Per Sample (V-1)	Each	
2	Visitor Chair Leather steel frame Superior as Per Sample (V-2)	Each	
3	Visitor Chair Steel base Leather Superior as Per two Sample (V-3),(V-3-1)	Each	
4	Visitor Chair Steel base Leather Superior as Per Sample (V-4)	Each	
5	Visitor Chair Sheesham Wooden Pure Leather seat Superior as Per Sample (V-	Each	
6	Visitor Chair Steel base Leather Superior as Per Sample (V-6)	Each	
7	3 Seater Reception Waiting Bench Pure Steel body as Per Sample (V-7)	Each	
8	Steno/Computer Chair Mesh Back as Per Sample (C-1)	Each	
9	Steno/Computer Chair superior Mesh Back as Per Sample (C-2)	Each	
10	Steno/Computer Chair Imported Mesh Back as Per Sample (C-3)	Each	
11	Officer /Revolving Chair High Back Leather /hudraulic as Per Sample (R-1)	Each	
12	Officer /Revolving Executive Chair steel base Leather /hudraulic as Per Sample (R-2)	Each	
13	Officer /Revolving Chair steel base Leather /hudraulic as Per Sample (R-3)	Each	
14	Officer /Revolving Chair Mesh Back /hudraulic as Per two Sample (R-4),(R-4-1)	Each	
15	Officer /Revolving Chair Excutive with steel base Leather /hudraulic as Per Sample (R-5)	Each	
16	Officer /Revolving wooden Excutive chair Pure Leather /hudraulic with wooden base as Per Sample (R-6)	Each	
17	Officer /Revolving chair Leather with steel base /hudraulic as Per Sample (R-7)	Each	
18	Officer /Revolving Excutive chair Pure Leather /hudraulic with wooden base Heavy duty as Per Sample (R-8)	Each	
19	Officer /Revolving Chair Leather/Mesh Back /hudraulic as Per two Sample (R-9)	Each	
20	Computer Table wooden top with as Per Sample (T-1) size 32"x24"	Each	
21	Computer Table with extra printer tray /key board tray as Per Sample (T-2)	Each	
22	Computer table Wooden Size 3'x2' superior	Each	
23	Officer Table with side Rack Excutive as Per Sample (T-3) size 3x5	Each	
24	Officer Table with side Rack Excutive as Per Sample (T-4) size 3x5	Each	
25	Officer Table as Per Sample (T-5) size 2x4	Each	
26	Officer Table with side Rack Excutive as Per Sample (T-6) size 3x5	Each	
27	Workstation Straight line as Per Sample (T-7) top made of 25mm Imported	Each	
28	Workstation Straight line as Per Sample (T-7) top made of 25mm (Local Made)		
29	Conference Table Sheesham Wood 24 person Seat		

<u>S.NO.</u>	<u>NAME OF ITEMS</u>	<u>UNITS</u>	<u>Rates of Each items with GST</u>
30	Officer Table with side Rack Excutive as Per Sample (T-8) size 3x5	Each	
31	Officer Table with side Rack Excutive as Per Sample (T-9) size 3x5	Each	
32	Officer Table with side Rack Excutive as Per Sample (T-10) size 3x5	Each	
33	Conference Chairs Superior Quality as Per Sample (C-1)	Each	
34	Conference Chairs Superior Quality as Per Sample (C-2)	Each	
35	Conference Chairs Superior Quality as Per Sample (C-3)	Each	
36	Conference Chairs Superior Quality as Per Sample (C-4)	Each	
37	Conference Chairs Superior Quality as Per Sample (C-5)	Each	
38	Auditorium Chairs Superior quality as Per Sample (A-1)	Each	
39	Auditorium Chairs Superior quality as Per Sample (A-2)	Each	
40	Auditorium Chairs Superior quality as Per Sample (A-3)	Each	
41	Auditorium Chairs Superior quality as Per Sample (A-4)	Each	
42	Assistant Table wooden (Two Draz) Size 3'x2' superior	Each	
43	Assistant Chairs Superior quality as Per Sample (V-4) S.No.4	Each	
44	Sofa 5 seater Superior quality with leather/Fabric as Per Sample	Each	
45	Almirah Wooden Superior quality as Per Sample (MDF Wooden Frame)	Each	
46	Almirah Steel Superior quality (gauge-18) as Per Sample	Each	
47	Almirah Steel Superior quality (gauge-20) as Per Sample	Each	
48	Foot Rest Superior quality as Per Sample (Wooden/Steel)	Each	
49	Center Table Set Superior quality (Glass with Steel Base) as Per Sample	Each	
50	Center Table Set Superior quality (Glass with Wooden Base) as Per Sample		
51	Side Rack Superior quality as Per Sample Sheesham wood/Wooden & Veener	Each	
52	Glass Partition 12mm with Door ,Handle ,Lock ,frosted paper	Per Sqft	
53	Glass Partition 8 mm with Door ,Handle ,Lock ,frosted paper		
54	Wooden Almirah (lamine wooden) on Wall with Lock & Handle (depth 16 inch)	Per Sqft	
55	Wooden Almirah (lamine wooden) on Wall with Lock & Handle (depth 16 inch) with computer table	Per Sqft	
56	Coat Hanger Wooden	each	
57	Floor Tiles 24"x24" different design Mate Finish or Glossy Finish with Complete Fitting	Per Sqft	
58	Walls Tiles 12"x24" Different designs with complete fitting	Per Sqft	
59	Wall Motive Tiles 12"x24" with complete fitting	Per Sqft	
60	Roof Ceiling	Per Sqft	
61	POP Roof Ciling	Per Sqft	
62	Roof Ciling 2X 2	Per Sqft	
63	Wall Paper Different Design	Per Sqft	
64	Wall Paper China with complete fitting	Per Sqft	
65	Wall Paper Korea with complete fitting	Per Sqft	

<u>S.NO.</u>	<u>NAME OF ITEMS</u>	<u>UNITS</u>	<u>Rates of Each items with GST</u>
66	Floor Marble	Per Sqft	
67	Floor Marble Different Types 20mm (White & Grey) Thickness with Complete Fitting , Polish	Per Sqft	
68	Floor Marble Different Types 20mm (White & Grey) Thickness with Complete Fitting , Polish (Sunny white/Ziarat White)	Per Sqft	
69	PVC Wall Penaling	Per Sqft	
70	Pvc Wall Penaling Medium Quality	Per Sqft	
71	Pvc Wall Penaling Hard Type Quality	Per Sqft	
72	Wooden Wall Penaling	Per Sqft	
73	Wooden Wall Penaling Main frame 25mmx45mm,ASH Veneer Sheet 6.5mm ,Gola(Molding) 1"x1.25" design with Polish and complete fitting	Per Sqft	
74	Wooden Wall Penaling Main frame 25mmx45mm,ASH Veneer Sheet 10mm ,Gola(Molding) 1"x1.25" design with Polish and complete fitting	Per Sqft	
75	Wardrobe /Cupbord	Per Sqft	
76	Main Carcase / Shutter Lamination Chipbord Sheet 15mm with pvc lipping or pvc U . Hinges (2D Hinges) Handle Best quality Metal 6"/8" with Key Locks ,best quality Draw Channel	Per Sqft	
77	Work Station main frame Lamination Chip board 15mm,with Pvc Lipping or U Chanle , Work Station top in Lamination MDF Sheet 15mm inner side of top supporting wooden frame 25mmx 45mm ,	Per Sqft	
78	Main Carcase Lamination Chipbord Sheet 15mm with pvc lipping or pvc U Chanale and Shutter is UV Sheet Mate finish or High Gloss. Hinges (2D Hinges) Handle Best quality Metal 6"/8" with Key Locks ,best quality Draw Chanle	Per Sqft	
79	Wood Flooring	Per Sqft	
80	Wooden Flooring use original "Acacia" Wood thickness of each piece is 12.5mm in different shape or design with complete fitting and polish	Per Sqft	
81	Wooden Flooring use original "Sheesham" Wood thickness of each piece is 8mm in different shape or design with complete fitting and polish	Per Sqft	
82	MDF Flooring thickness 8mm or 12 mm with complete fitting	Per Sqft	
83	HDF Flooring AGT or equivalent 12 mm Thickness with complete fitting	Per Sqft	
84	HDF Flooring AGT or equivalent 8 mm Thickness with complete fitting		
85	Rolling Blinds	Per Sqft	
86	sun screen/blackout febric with roller and complete fitting	Per Sqft	
87	wooden blinds 2" with complete fitting & all accessories	Per Sqft	
88	Partitions	Per Sqft	
89	Wooden Partition mian frame is 30mmx60mm and MDF Veneer Sheet Best Quality ZRK or Partex 6.5mm both side with any type of grove design , with complete fitting and polish or paint	Per Sqft	
90	uPVC Partition mian frame is 60mm or 88mm and MDF Veneer Sheet Best Quality ZRK or Partex 6.5mm both side or uPVC Penaling , with complete fitting.	Per Sqft	
91	Jaffery Design Partition MDF with best quality CNC work with wooden frame as per design with complete fitting polish or paint .minimum charged 16sqft .	Per Sqft	
92	Wooden Partition mian frame is 30mmx60mm and MDF Veneer Sheet Best Quality ZRK or Partex 6.5mm both side with any type of grove design ,and upper side (Face Side) Glass 6mm with frosting paper 12" width with complete fitting and polish or paint	Per Sqft	

<u>S.NO.</u>	<u>NAME OF ITEMS</u>	<u>UNITS</u>	<u>Rates of Each items with GST</u>
93	Renovation work in polish	Per Sqft	
94	Furniture polish with local material .	Per Sqft	
95	Furniture Polish with Nepon brand material or ICI/Burger/equivalent	Per Sqft	
96	Door Polish both side with Chowkhat in local Material or ICI/Burger /equivalent	Per Sqft	
97	Door Polish both side with Chowkhat in Neponbrand Material	Per Sqft	
98	Wall Paint	Per Sqft	
99	Wall paint best Quality Master or equivalent	Per Sqft	
100	Wall paint best Quality Master or equivalent	Per Sqft	
101	uPVC Windows & Doors	Per Sqft	
102	uPVC Fix Windows white with 60mm profile Local Euro or Pamo with 6mm clear white glass	Per Sqft	
103	uPVC Fix Windows with 60mm profile Local Euro or Pamo with 6mm clear white Double Glaze(DG)6mm +8mm Speasor+6mm Glass with organ gas filling if needed	Per Sqft	
104	uPVC openable Windows with 60mm profile Local Euro or Pamo with 6mm clear white glass and best quality imported Hardware ,Hinges, Locks , Handle	Per Sqft	
105	uPVC openable Windows with 60mm profile Local Euro or Pamo with 6mm clear white Double Glaze(DG)6mm +8mm Speasor+6mm Glass with organ gas filling if needed best quality imported Hardware ,Hinges, Locks , Handle	Per Sqft	
106	uPvc Doors with frame 60mm with 120mm door shash with 20mm thickness door penal with best quality imported Hnges, door locks with key	Per Sqft	
107	Wooden or Wooden MDF Credenza	Per Sqft	
108	Credenza make in solid Sheesham wood width 16" x Length 48" Height 30" with complete Nepon brand polish	Per Sqft	
109	Credenza make in solid Sheesham wood width 16" x Length 60"" Height 30" with best quality polish and hardner	each	
110	Credenza make in solid Sheesham wood and top and right side & Left Side and front side use MDF 15mm Sheesham Veneer width 16" x Length 48" Height 30" with best quality polish with hardner	each	

**Visitor Chair
V-1**



Visitor Chair V-2



**Visitor Chair
V-3**



**Visitor Chair
V-3-1**



Visitor Chair

V-4



Visitor Chair

V-5



Visitor Chair V-6



**Reception Waiting Bench
V-7**



Steno/Computer Chair

C-1



Steno/Computer Chair C-2



Steno/Computer Chair

C-3



Officer /Revolving Chair

R-1



Officer /Revolving Chair R-2



8091*

Officer /Revolving Chair

R-3



Officer Revolving Chair R-4



Officer Revolving Chair R-4-1



Officer /Revolving Chair Excutive R-5





**Officer /Revolving Chair Excutive
R-6**

Officer /Revolving Chair

R-7



Officer /Revolving Chair Excutive R-8





Computer Table

T-1



Computer Table T-2



Officer Table

T-3



Officer Table with side Rack T-4



Officer Table

T-5



**Officer Table with side Rack Executive
T-6**



Workstation Straight line

T-7



[Overview](#)[Ratings](#)[Product Details](#)[Recommendations](#)

Highlights

- Brand: TORCH
- Beautifully organize your workspace with our straight line workstation

Description

Workstation (Size:4'x2') top made of 25mm thick compressed wood E1 Grade Lamination board. Board covered with High Pressure melamine laminated (HPM) sheets. Edges protected with 2mm Thick/ Abs (Doolken-Germany) edging. Drawer pedestal made of 18mm thick compressed wood E1 Grade Lamination board.

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Conference Chairs

C-1



**Conference Chair
C-2**



Conference Chair C-3



**Conference Chair
C-4**



Conference Chair
C-5



Auditorium Chair
A-1

BUY





Auditorium Chairs
A-2



Auditorium Chair
A-3

Auditorium Chair
A-4







Steel Almirah



Wooden Almirah







center Table Set



Side Rack



Government Of Pakistan
Ministry of Interior & Narcotics Control
General Section

TENDER DOCUMENTS FOR TYRES (2026-27)

S.NO.	NAME OF ITEMS	UNITS	<u>Rates of Each items with GST</u>
LIST OF TYRES			
1	R-15/C-195 Dunlop /equivalent	Each	
2	R-15-195/65 Dunlop /equivalent	Each	
3	R-14-165/65 Dunlop /equivalent	Each	
4	R-14-185/70 Dunlop /equivalent	Each	
5	R-13-175/70 Dunlop /equivalent	Each	
6	R-12-145/80 Dunlop /equivalent	Each	
7	R-19 (VXL)-255/45 Dunlop /equivalent	Each	
8	R-12-155/70 Dunlop /equivalent	Each	
9	R-15-185/60 Dunlop /equivalent	Each	
10	R-15/C-195 Yokohama /equivalent	Each	
11	R-15-195/65 Yokohama /equivalent	Each	
12	R-14-165/65 Yokohama /equivalent	Each	
13	R-14-185/70 Yokohama /equivalent	Each	
14	R-13-175/70 Yokohama /equivalent	Each	
15	R-12-145/80 Yokohama /equivalent	Each	
16	R-12-155/70 Yokohama /equivalent	Each	
17	R-15-185/60 Yokohama /equivalent	Each	
18	R-15/C-195 Bridgestone /equivalent	Each	
19	R-15-195/65 Bridgestone /equivalent	Each	
20	R-14-165/65Bridgestone /equivalent	Each	
21	R-14-185/70 Bridgestone /equivalent	Each	
22	R-13-175/70 Bridgestone /equivalent	Each	
23	R-12-145/80 Bridgestone /equivalentt	Each	
24	R-12-155/70 Bridgestone /equivalent	Each	
25	R-16-275/70 Bridgestone /equivalent	Each	
26	R-20-285/55-Bullet Proof-Good Rish/USA /equivalent	Each	
27	R-14-165/65 Bridgestone /equivalent	Each	
28	R-19-255/50 Bridgestone /equivalent	Each	
29	R-15-185/60 Bridgestone /equivalent	Each	
30	R-19 (VXL)-255/45 Bridgestone /equivalent	Each	
31	R-18-285/65-Bullet Proof-Good Rish/USA /equivalent	Each	
32	255-720R490-C 117H)-Bullet Proof/USA/equivlaent	Each	