Punjab Medical Faculty

Specialized Healthcare & Medical Education Department
Government of the Punjab
22-B New Muslim Town, Near Ayub Market, Wahdat Road, Lahore
Tel: 042-99230506, 042-99231352

No. 161586 / PMF

Dated 22-01-2024

MINUTES OF THE TECHNICAL EVALUATION COMMITTEE MEETING

(PROCUREMENT OF APPLIANCES & IT EQUIPMENT OF PUNJAB MEDICAL FACULTY (PMF), 22-B, NEW MUSLIM TOWN, WAHDAT ROAD, LAHORE)

The meeting of Technical Evaluation Committee was held on 11th January, 2024, at 03:00 PM in the Committee Room of Punjab Medical Faculty (PMF), 22-B, New Muslim Town, Wahdat Road, Lahore to **evaluate the technical bids received for the Procurement of Appliances & IT Equipment along with Server Room for Punjab Medical Faculty (PMF).**

2.   Following attended the meeting:

1   **Dr. Zafar Ali**
Secretary, Punjab Medical Faculty, Lahore (**Convener**)
2   **Mr. Shafique Hussain**
Contract Manager, Specialized Healthcare & Medical Education Department (**Member**)
3   **Mr. Muhammad Ateeb Sheikh**
Section Officer (Standardization), Specialized Healthcare & Medical Education Department (**Member**)
4   **Mr. Inam Ullah**
Admin Officer, Punjab Medical Faculty, Lahore (**Member**)
5   **Mr. Irfan Ibrahim**
Database Administrator, Punjab Medical Faculty, Lahore (**Member**)
6   **Mr. Asmat Ullah**
Budget & Account Officer, Punjab Medical Faculty, Lahore (**Member**)
7   **Mr. Nauman Rafique**
Procurement Officer, Punjab Medical Faculty, Lahore (**Co-opted Member**)
8   **Mr. Shahid Khan,**
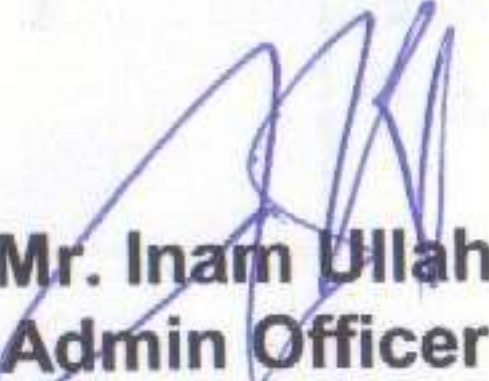Software Engineer Punjab Health Foundation, Lahore (**Co-opted Member**)

Participants were briefed that a Tender Notice for procurement of Appliances and IT Equipment along with Server Room for new office of Punjab Medical Faculty was advertised in national press vide IPL-10176 in Daily Jang (Urdu Press) on 03-12-2023 and Daily The Nation (English Press) on 01-12-2023. The advertisement along with bidding documents were also uploaded on PPRA and PMF websites on 05-12-2023. A pre-bid meeting for the subject tender was held on 13-12-2023 and minutes of meeting were uploaded on official website of PMF on 15-12-2023. The minutes of meeting shall be considered as the addendum of bidding document. The last date for bids submission was fixed as 22-12-2023 till 03:00 PM. The technical bids were opened on the same day at 03:30 PM publically in the presence of bidders/ representatives who chose to be present. Total four (04) firms were participated in the tender for Package-1 "IT Equipment along with Server Room" and two (02) firms participated in the tender for Package-2 "Appliances".

4.   The Technical Bids were evaluated in detail by the Committee. The detailed report of Technical Evaluation of the bids is attached as **Flag-A**.

5.   Meeting ended with the vote of thanks by the chair.

Mr. Irfan Ibrahim
Database Administrator
Punjab Medical Faculty, Lahore
(Member)
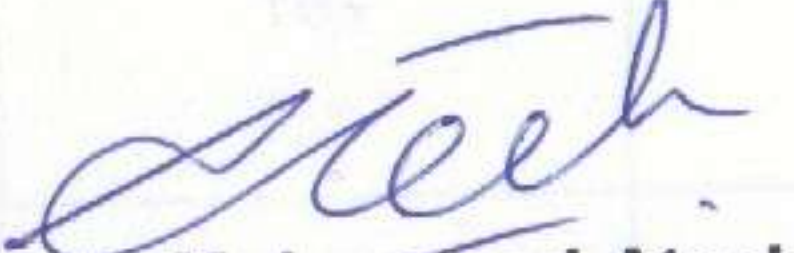
Mr. Inam Ullah
Admin Officer
Punjab Medical Faculty, Lahore
(Member)

Mr. Asmat Ullah
Budget & Account Officer
Punjab Medical Faculty, Lahore
(Member)

Mr. Nauman Rafique
Procurement Officer
Punjab Medical Faculty, Lahore
(Co-opted Member)

Mr. Shahid Khan
Software Engineer
Punjab Health Foundation, Lahore
(Co-opted Member)

Engr. Muhammad Ateeb Sheikh
Section Officer (Standardization)
Specialized Healthcare & Medical Education Department,
(Member)

Mr. Shafique Hussain
Contract Manager
Specialized Healthcare & Medical Education Department,
(Member)

Dr. Zafar Ali
Secretary
Punjab Medical Faculty, Lahore
(**Convener**)

(All evaluation parameters defined below are mandatory for compliance as per bidding documents)

Knock Down Criteria

Sr #	Description	M/S Ideal Business Production	M/S Computer Tips	M/S Generations Systems	M/S Pakistan Best Services	M/s Ample Global Enterprises	M/s Al-Wahab Traders
	Package	1 (Not Apply in complete Package) (SR # 2,3,6,7,8,9,10,11,14,15)	1	1 (Not Apply in complete Package) (SR # 7,8,9,10,14,15,16)	1	2	2
1	NTN / GST Registration & Active Taxpayer List (ATL).		Yes		Yes	Yes	Yes
2	The firm must have minimum three (03) years' similar experience of business		Yes		No (Purchase Orders Not Attached with bids)	Yes	Yes
3	Company profile. Staff list along with location and address		Yes		No (Staff List Not Attached	Yes	Yes
4	The Accumulative Annual Turnover for last three (03) years must be greater than PKR 30 million. The firm shall submit audited reports/FBR's Tax Return for last three years in this regard.		Yes		No (Attached Bank Statement)	Yes	Yes
5	Specifications quoted in the technical offer will be verified from catalog, which will be provided along with bidding documents. The quoted product must comply with the advertised specifications.	Non-Responsive (Details Attached)	Substantially Responsive	Non-Responsive (Details Attached)	Non-Responsive (Details Attached)	Non-Responsive (Details Attached)	Substantially Responsive

Sr #	Description	M/S Ideal Business Production	M/S Computer Tips	M/S Generations Systems	M/S Pakistan Best Services	M/s Ample Global Enterprises	M/s Al-Wahab Traders
6	The quoted product must have at least ONE Year market experience.		Yes		Yes	Yes	Yes
7	The Bidder shall provide an undertaking on notarized judicial stamp paper of Rs.100/- to the effect that		Yes		Yes	Yes	Yes
8	a. Acceptance of terms and conditions / tender bidding documents		Yes		Yes	Yes	Yes
	b. The bidder is not convicted from any court of law.		Yes		Yes	Yes	Yes
	c. The bidder is not blacklisted by procuring agency.		Yes		Yes	Yes	Yes
	d. The bidder is not declared poor performer by any procuring agency.		Yes		Yes	Yes	Yes
Bid Status		Non-Responsive	Responsive	Non-Responsive	Non-Responsive	Non-Responsive	Responsive

Sr.	Item Name	Technical Specifications	M/S Ideal Business Production	M/S Computer Tips	M/S Generations Systems	M/S Pakistan Best Services
1.	Rack Server	Processor: Intel Scalable 2 x Xeon Silver 4314, 16C or higher Processor Sockets: 2 Ram: 8 x 16GB RDIMM, DDR-4 3200 MT/s, Dual Rank or higher Hard Disk: Should support 16 x 2.5 SFF SAS Drive Support 4 x 1.92TB SSD Drives required or higher I/O slots: Up to 5 x PCIe Gen4 slots + 1 x PCIe Gen3 slots or higher Drive bays: Internal hard drive bay and hot-plug backplane Up to 16 x 2.5-inch SAS (SSD) or higher Network Port: 4 x 1GbE RAID Controller: supported RAID 0,1,5,10 or higher, 4GB Cache or higher Optical Drive: DVD+/-RW Ready Rails: Ready Rails Sliding Rails with Cable Management Arm (2U) Power Supply: Redundant Power Supply 800W or higher Mouse: USB Optical Mouse Key Board: USB Entry Business Keyboard (English) Operating Server: Windows Server Latest Edition Warranty: 3 years comprehensive on-site replacement warranty with parts from the date of installation. Note: Must be Authorized distributed / Partner / Reseller (Attached Documents)	Not Applied in complete Package **NOT-COMPLIANT**	Dell PowerEdge R750xs **COMPLIANT**	Not Applied in complete Package **NOT-COMPLIANT**	Dell PowerEdge R750xs **NOT-COMPLIANT**
2.	Manageable Switch (24-Port)	Ports: 24× 10/100/1000 Mbps RJ-45 ports, 4x 1/10 SFP+ Ports, Console port: Rj 45 and USB, Management port: RJ 45 Port or higher MAC Address Table Size: 16K entries	Not Applied in complete Package **NOT-COMPLIANT**	Ruckus ICX7150-24-4X1G **COMPLIANT**	Not Applied in complete Package **NOT-COMPLIANT**	Dlink 1210-28 **NOT-COMPLIANT**

Sr.	Item Name	Technical Specifications	M/S Ideal Business Production	M/S Computer Tips	M/S Generations Systems	M/S Pakistan Best Services
		Number of VLANs: 4000 or higher **DRAM:** 1 GB or Higher **RAM:** 2 GB NVRAM or Higher **Jumbo frame:** 9k or Higher **Switching Capacity:** 120 Gbps Mpps or higher **Forwarding Capacity:** 95 Mpps or higher **Web User Interface:** Embedded Web Management (HTTP/HTTPS) **Features:** Features: IPv4 and IPv6 routes protocols, Rip v1/v2, RIPng, OSFP v2 and v3, VRRP, Policy Based Routing, Virtual Interfaces TACACS/TACACS+, Dynamic ARP inspection, Protection against Denial of Service (DoS) attacks, 802.1X authentication and CoA, MAC authentication and Web Authentication **Brand: CISCO/ RUKUS/HUAWEI** **Region of manufacturer is anywhere from the world** **Accessories:** Console Cables, Three Pin Power Cables, Rack-mount Kit **Warranty:** 01 year comprehensive on-site replacement warranty with parts from the date of installation. **Note: Must be Authorized distributed / Partner / Reseller (Attached Documents)**				
3.	Firewall/ Hardware	**Ports:** 2x GE RJ45 WAN Ports, 5x GE RJ45 Ports, 1x RJ45 Console, 1 x GE RJ45 DMZ Port and 1x USB Management Port or higher **Features:** Application Control, IPsec & SSL-VPN, Intrusion Prevention, Antivirus, Antimalware, Antispam, Web filtering(Http/Https)	Not Applied in complete Package **NOT-COMPLIANT**	Fortigate 60F **COMPLIANT**	Not Applied in complete Package **NOT-COMPLIANT**	Fortigate 60F **COMPLIANT**

Sr.	Item Name	Technical Specifications	M/S Ideal Business Production	M/S Computer Tips	M/S Generations Systems	M/S Pakistan Best Services
		or higher Firewall throughput: 6 Gbps or higher Firewall latency: 3.3 µs or less Firewall Throughput (Packets per second): 9 Mpps or higher Concurrent Sessions (TCP): 700K or higher New Sessions/Sec (TCP): 35K or higher Firewall Policies: 5,000 or higher IPsec VPN Throughput (512-byte packets): 6.5 Gbps or higher Gateway-to-Gateway IPsec VPN Tunnels: 200 or higher Client-to-Gateway IPsec VPN Tunnels: 500 or higher SSL-VPN Throughput: 900 Mbps or higher Concurrent SSL-VPN Users (Recommended Maximum): 200 or higher SSL Inspection Throughput : 630 Mbps or higher Application Control Throughput 1.8 Gbps or higher High Availability Configurations: Active/Active, Active/Passive, clustering Warranty: Three (03) Years comprehensive on-site replacement warranty including licensing cost of Three (03) years.				
4.	42U Rack	Rack height: 42U Branded 800mm x 1000mm • Full Vented Top Frame with Front / Rear / Side Cable Entrance • 6 x 4-inch Top Fan Tray with Guard & Filter (Low Noise) • 2 x Lift Off Type Side Door with Quick Release Catch & Cam Lock • 1 x Double-section Full Perforation Rear Door with Swing Handle Lock • 4 x Panel Mount with Unit Indication & Silk Screen Numbering • 1 x Vertical Cable Tray	Not Applied in complete Package NOT-COMPLIANT	Toten RAK-T-42U-8X10P / KVM Vertive CLRA19KMM16A COMPLIANT	Not Applied in complete Package NOT-COMPLIANT	Dell 42U Rack (Model and Datasheet not mentioned / Attached NOT-COMPLIANT

Sr.	Item Name	Technical Specifications	M/S Ideal Business Production	M/S Computer Tips	M/S Generations Systems	M/S Pakistan Best Services
		• Up to IP20 protection **KVM** Height 1U Analog based (Include 16 Ports Analog KVM, 16 x VGA/USB target cables) Console Only 620mm – 920mm Display Type 18.5" LED LCD Monitor, 16:9 Aspect Ratio Keyboard Full size 100 keyboard with number pad Input USB **PDU** 2 x 6 Port Power Distribution Unit (PDU) provided with Rack. Warranty: 1 years comprehensive on-site replacement warranty from the date of delivery.				
5.	Loaded Patch Panel (24-Port)	24 port UTP patch panel with fully loaded RJ-45 I/O. Material: power coated. IDC: Phosphor bronze. RJ-45 pin physical characteristics: 50 micro inch gold plating. RJ-45 supported AWG: 22~26AWG. Supported standards: ANSI/TIA 568.2 Warranty: 01 year comprehensive on-site replacement warranty from the date of installation.	Not Applied in complete Package **NOT-COMPLIANT**	D-link NPP-C61BLK241 **COMPLIANT**	Not Applied in complete Package **NOT-COMPLIANT**	D-Link Loaded Patch Panel (24-Port) (Model and Datasheet not mentioned / Attached **NOT-COMPLIANT**
6.	Wireless Access point (Long Range)	Networking Interface: : 1 x 10/100/1000 Ethernet Ports or higher Buttons: Reset Power Method: Passive Power over Ethernet (48V) Supported Voltage Range: 44 to 57VDC Power Supply: 48V, 0.5A PoE Gigabit Adapter Antennas: Dual-Band Antennas, 2.4 GHz: 4 dBi, 5 GHz: 5 dBi or Higher	Not Applied in complete Package **NOT-COMPLIANT**	Unifi U6-LR **COMPLIANT**	Not Applied in complete Package **NOT-COMPLIANT**	TP Link 245 **NOT-COMPLIANT**

Sr.	Item Name	Technical Specifications	M/S Ideal Business Production	M/S Computer Tips	M/S Generations Systems	M/S Pakistan Best Services
		Wi-Fi Standards: 802.11 a/b/g/n , WiFi 4/WiFi 5/WiFi 6 Wireless Security: WPA-PSK, WPA-Enterprise (WPA/WPA2/WPA3 BSSID: 08 per Radio or higher Mounting: Wall/Ceiling with Mounting Kit VLAN: 802.1Q Advanced QoS: Per-User Rate Limiting Guest Traffic Isolation: Yes Concurrent Clients: 300 or higher Management: Controller Based Access Control Data Rate: 802.11ac (WiFi 5): 6.5 Mbps to 1.7 Gbps or higher 802.11n (WiFi 4): 6 .5 Mbps to 600 Mbps or higher 802.11a: 54 Mbps or higher 802.11g: 54 Mbps or higher 802.11b: 11 Mbps or higher 802.11ax (WiFi 6): 7.3 Mbps to 2.4 Gbps or higher Warranty: 01 year comprehensive on-site replacement warranty with parts from the date of installation.				
7.	Desktop UPS	Power: 1 KVA with dry batteries Runtime: At least 5-6 minutes backup time or higher on 70% load Recharge Time: 6-8 hours recharge time Surge protection: Surge protection, processor control, Line Interactive Technology Power Factor: 0.6 Power factor Port: Serial/USB Port Plug and Play Along With Other Standard Features, cables	Not Applied in complete Package NOT-COMPLIANT	Deutshe Power XL-1000 COMPLIANT	Not Applied in complete Package NOT-COMPLIANT	Xpert 1000VA (Datasheet not available in bid as well online) NOT-COMPLIANT

Sr.	Item Name	Technical Specifications	M/S Ideal Business Production	M/S Computer Tips	M/S Generations Systems	M/S Pakistan Best Services
		Warranty: 01 Year Parts and Labor warranty from the date of installation. Brand: APC/ Vertiv/ Deutsche Power				
8.	10 KVA UPS Rack Power Backup	Brand Origin: USA/EU/JAPAN Capacity: 10KVA Brand: APC/Vertiv/Deutsche Power P.F Output: 0.9 /1 Topology: Online Double Conversion Input: Single Phase +N+G Input Rated Voltage: 200/220/240 VAC Input Voltage Range: 110VAC~300VAC Frequency Input: 40-70Hz Output: Single Phase +N+G Output Rated Voltage: 200/220/240 VAC Ouput Voltage Variation: 1% maximum Output Frequency: 0.1% Transfer Time: 0 msec EMC: IEC/EN62040-2, IEC6100-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8 Surge Capacity: 600 Jules THDv: <2% THD(Linear load) ~ <4% THD (NON Linear load) Communication Interface: Rs232, USB, (SNMP, Parallel card, Relay card and RJ45 are optional) Audible & Visual Alarm: Line Failure, Battery low, Over Load, System Fault Display: LCD Battery: Dry Sealed 40AH X 20 or better Battery Pack: External or better Quality: Should fall in Category "A" OR "B" as per Pakistan Customs Ruiling	Not Applied in complete Package NOT-COMPLIANT	Deutshe Power Electra ES110 COMPLIANT	Not Applied in complete Package NOT-COMPLIANT	APC SURT1000X LISMART UPS / SURT192XLBP Battery Pack (Discontinued) NOT-COMPLIANT

Sr.	Item Name	Technical Specifications	M/S Ideal Business Production	M/S Computer Tips	M/S Generations Systems	M/S Pakistan Best Services
		Backup Time: at least 40 minutes backup on 70% load or higher Warranty: 1 years comprehensive on-site warranty including service with parts and Batteries from the date of installation. Note: Must be Authorized distributed / Partner / reseller (Attached Documents)				
9.	Desktop PC	Processor: Intel® 12th Generation Core™ i7 or higher Mother Board: Intel Chipset Memory: 8 GB DDR-4 or higher Hard Disk Drive: 1 TB or higher. Video/Display Card: Integrated Sound Card: Integrated Network Adapter: Built-in Gigabit Ethernet card LCD Display: 21" or higher LED (Same Brand) Integrated: I/O Interfaces Six USB Ports (USB 2.0/3.0 or higher), PCIe slot etc. HDMI/VGA Port or higher Wireless LAN: Wireless 802.11b/g/n,ac. Mouse & Keyboard: USB Wired Keyboard (same brand) Optical Mouse with Scroll. (Same Brand) Pre-Installed OEM Licensed Windows with media Kit Warranty: 01 Year Parts and Labor warranty from the date of installation. Brand: HP/Dell/Lenovo Note: Must be Authorized distributed / Partner / reseller (Attached Documents)	Not Applied in complete Package NOT-COMPLIANT	Lenovo ThinkCentre M70t COMPLIANT	Not Applied in complete Package NOT-COMPLIANT	Lenovo v50t NOT-COMPLIANT
10.	Printer	HP Printer or Equivalent Technology: Laser Printing Speed: 38 PPM or higher Resolution: Black (best): Up to 1200 x 1200 dpi or higher Duty cycle (monthly, A4): Up to 80,000 pages or	Not Applied in complete Package NOT-COMPLIANT	Pantum BP5100DN COMPLIANT	Not Applied in complete Package NOT-COMPLIANT	HP LaserJet 4003DN COMPLIANT

Sr.	Item Name	Technical Specifications	M/S Ideal Business Production	M/S Computer Tips	M/S Generations Systems	M/S Pakistan Best Services
		higher Memory: 256 MB or higher Processor: 1200 MHz or higher Network gig Ethernet 10/100/1000base-t or higher Warranty: 01 year comprehensive on-site replacement warranty from the date of installation.				
11.	Photo Copier	Brand : Konica/ Cannon/ Toshiba or Equivalent Type: Print, Scan, & Copy Speed: 45 Ppm or Higher Page Capacity: 1000 or higher Memory 4GB HDD: 250 GB RADF Interface: Ethernet, USB, WIFI Warranty: 01 years comprehensive on-site replacement warranty from the date of installation	Not Applied in complete Package NOT-COMPLIANT	Toshiba E-Studio 4528A COMPLIANT	Not Applied in complete Package NOT-COMPLIANT	Toshiba e Studio Photo Copier ((Model and Datasheet not mentioned / Attached) NOT-COMPLIANT
12.	Network Tool Kit	Impact Terminal Tool for Krone Pro-Crimper Modular Tool (160mm) Wire Stripper Tool Mini LAN Cable Tester Utility Knife Line Color Screwdriver (-5.0 x 75mm) Line Color Screwdriver (#1 x 75mm) Line Color Screwdriver (-6.0 x 100mm) Line Color Screwdriver (#2 x 100mm) All Purpose Snip (165mm) Tool Bag Warranty: 01 years comprehensive on-site replacement warranty from the date of installation.	Not Applied in complete Package NOT-COMPLIANT	Proskit PK-2633 COMPLIANT	Not Applied in complete Package NOT-COMPLIANT	(Model and Datasheet not mentioned / Attached) NOT-COMPLIANT

Sr.	Item Name	Technical Specifications	M/S Ideal Business Production	M/S Computer Tips	M/S Generations Systems	M/S Pakistan Best Services
13.	Hardware Tool Kit	Aluminum Frame 3 Drawers Tool Case for easy tool organization. It contains complete range of high visibility sockets in 1/4"-1/2" drives-deep and standard depths, quick release 72 teeth reverse flat ratchet handle plus flex head gear wrench, long arm hex key set , screwdrivers, high leverage pliers, multimeter, locking pliers and most of popular tools to capability round out this versatile set • 23pcs 1/2" Hand Socket 8,9,10,11,12,13,14,15,16,17,18,1, 9,20,21,22,23, 24,25,27,28,2930,32mm • 23pcs 1/2" Hand Socket 8,9,10,11,12,13,14,15,16,17,18,1, 9,20,21,22,23, 24,25,27,28,29,30,32mm • 1/2" Extension Bar W/Quick Release 125mm • 1/2" Extension Bar W/Quick Release 250mm • 1/2" Sliding T Handle W/Quick Release 250mm • 1/2" LED Light Adaptor • 1/2" Universal Joint • 1/2" 72 Teeth Reverse Flat Ratchet Handle W/Quick Release • 14pcs 1/4" Hand Socket 1/4", 4, 4.5, 5 ,5.5 ,6 ,7, 8 ,9 ,10 ,11 ,12,13,14mm • 13pcs 1/4" Hand Deep Socket 4 ,4 .5,5,5.5,6, 7,8,9,10, 11,12 ,13,14mm • 18pcs 1/4" Hand Bits Socket T10,T15,T20,T25,T30,T40,H3 ,H6,H4,H5,H8,PH1,PH2,PZ1,PZ2,SL4,SL5.5,SL6.5.	Not Applied in complete Package **NOT-COMPLIANT**	Proskit SK612401M 124Pcs **COMPLIANT**	Not Applied in complete Package **NOT-COMPLIANT**	(Model and Datasheet not mentioned / Attached) **NOT-COMPLIANT**

Sr.	Item Name	Technical Specifications	M/S Ideal Business Production	M/S Computer Tips	M/S Generations Systems	M/S Pakistan Best Services
		• 2pcs 1/2" Spark Plug Socket W/Magnetic 16,21mm • 1/4" Extension Bar W/Wobble 2 Way 52mm • 1/4" Extension Bar W/Wobble 2 Way 100mm • 1/4" Extension Bar W/Quick Release 150mm • 1/4" Sliding T Handle 115mm • 1/4" Universal Joint • 1/4" Spinner Handle • 1/4" 72 Teeth Reverse Flat Ratchet Handle W/Quick Release • 1/4" x 145mm F type handle • 9pcs Ball-Point Long Arm Hex Key 1.5,2,2.5,3,4 ,5,6,8, 10 mm • 7pcs Flex Head Gear Wrench 8,10,11,13,14,17,19 • Drawer 3: 2pcs Go-Through Screwdriver SL8x150mm,PH3x150mm • 6pcs Pro-Soft Screwdriver SL6x100mm,SL6x40mm, SL6x200mm,PH2x100mm,PH2x40mm,PH2x250mm • Telescopic Magnetic Pick Up Tool • 3 1/2 Compact Digital Multimeter • 8.5" High Leverage Combination Cutting Plier • 2pcs Adjustable Locking Plier 7",9"(Long Nose) Warranty: 01 year comprehensive on-site replacement warranty from the date of delivery.	Not Applicable / not compliance Package	General Notebook 15.6 Carbon Core i7	Not adjusted to complete feature	

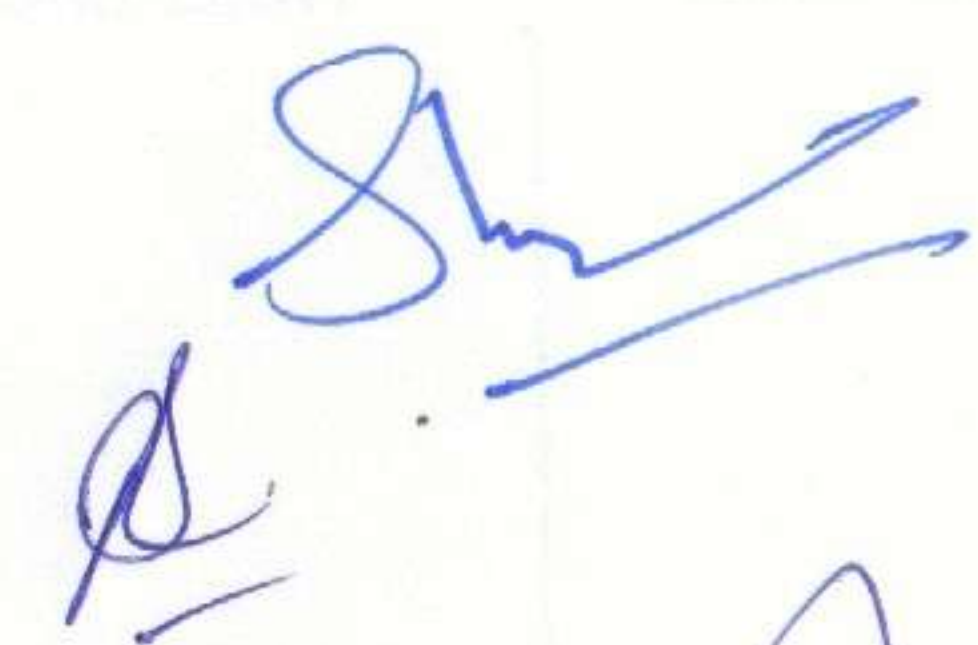| Sr.	Item Name	Technical Specifications	M/S Ideal Business Production	M/S Computer Tips	M/S Generations Systems	M/S Pakistan Best Services
14.	Laptop	**Processor:** Intel® Core™ i7 12th Generation or higher **Chipset:** TPM 2.0 integrated or better **Memory:** 08 GB Dual Channel DDR4 or higher **HDD:** 500GB SSD or higher **Audio:** Integrated, Built-in **Wireless:** I Wireless 802.11b/g/n or ac Wi-Fi + Bluetooth or higher **Ports:** HDMI 2.1, USB 3.2 Gen1, USB-C 3.2 Gen 2, 1 x Card Reader ,1 x Thunderbolt 4, 1 x Ethernet (RJ45) or higher. **Camera:** Built-in HD Camera (720P or higher) **Keyboard:** Full size backlit keyboard with numeric keypad **Battery:** Li-ion Re-chargeable battery pack with estimated 3 hours' battery life or higher **Display:** 15"-16" Inch FHD Display or higher **Accessories:** Premium quality Imported Carry Case, Wireless Bluetooth mouse (Logitech/A4Tech) **Operating System:** Pre-Installed OEM Licensed Windows with media Kit **Warranty:** 01 year comprehensive on-site replacement warranty with parts from the date of delivery. **Note: Must be Authorized distributed / partner / reseller (Attached Documents)**	Not Applied in complete Package **NOT-COMPLIANT**	Lenovo Think Book 15 G4 iAP **COMPLIANT**	Not Applied in complete Package **NOT-COMPLIANT**	Lenovo ThinkBook 15 G4 **COMPLIANT**
15.	Laptop (High-End) IT Team	**Brand:** Dell XPS Series or HP Spectre Series **Processor:** Intel Core™ i7 11th Generation or higher	Not Applied in complete Package **NOT-COMPLIANT**	Lenovo ThinkPad X1 CarbonGen 11 **COMPLIANT**	Not Applied in complete Package **NOT-COMPLIANT**	HP Spectre (Model and Datasheet not mentioned / Attached) **NOT-COMPLIANT**

Sr.	Item Name	Technical Specifications	M/S Ideal Business Production	M/S Computer Tips	M/S Generations Systems	M/S Pakistan Best Services
		Memory: 16GB DDR-4 (One memory soldered to system board, one DDR4 SO-DIMM slot, dual-channel capable) or Higher. **HDD:** 500GB SSD or higher **Graphics:** Intel Iris Xe Graphics **Audio:** High Definition (HD) Audio, Stereo speakers, or Higher. **Wireless:** Wireless 802.11ax 2x2 Wi-Fi + Bluetooth 5.1 or Higher **Ports:** HDMI 2.1, USB 3.2 Gen1, 2 x Thunderbolt 4, 1 x Ethernet (RJ45) or higher **Camera:** Widescreen HD (720p) webcam with dual array digital microphones **Keyboard:** 6-row, spill-resistant, multimedia Fn keys with Communications controls **Battery:** Li-ion Re-chargeable battery pack with estimated 5-6 hours battery life or higher **Display:** 13.3-inch to 14-inch Full HD (1920 x 1080) **Accessories:** Premium quality Imported Carry Case, Wireless Bluetooth mouse (Logitech/A4Tech) **Operating System:** Pre-Installed OEM Licensed Windows with Media Kit **Warranty:** 01 years comprehensive on-site replacement warranty with parts from the date of delivery. **Note: Must be Authorized distributed / partner / reseller (Attached Documents)**				
16.	Heavy Duty Printer	HP Printer or Equivalent **Technology:** Laser	Not Applied in complete Package	HP LeaseJet M610dn	Not Applied in complete Package	HP 712 dn

Sr.	Item Name	Technical Specifications	M/S Ideal Business Production	M/S Computer Tips	M/S Generations Systems	M/S Pakistan Best Services
		Printing Speed: 50 PPM or higher Page Supported: A3 / A4 / A5 / A6 / B4 / B5 / B6 / / Legal Resolution: Black (best): Up to 1200 x 1200 dpi or higher Duty cycle (monthly): Up to 80,000 pages or higher Memory: 512 MB or higher Processor: 1200 MHz or higher Network gig Ethernet 10/100/1000base-t or higher Warranty: 01 year comprehensive on-site replacement warranty from the date of installation.	NOT-COMPLIANT	SUBSTANTIALLY - COMPLIANT	NOT-COMPLIANT	NOT-COMPLIANT

Sr.	Item Name	Technical Specifications	Ample Global Enterprises	M/S Al-wahab Traders
1	Air Conditioner 1.5 Ton Invertor	Technology DC Inverter • Heat & Cool • Inverter wall mounted type AC • Cooling & Heating capacity: 18000 BTU • R410 Refrigerant or CFC free environment-friendly refrigerant Out Door Unit: • Compressor Type: Rotary • Compressor Technology: T3 • High Efficiency • Low voltage startup • DC inverter compressor • Quiet Operation Indoor Unit: • Faster Cooling & Heating Note: LG, Orient, Samsung, Haier, Gree, PEL or equivalent (Renowned Brands only) Complete Installation with refrigerant copper Pipe (10ft), proper cabling 7/44, insulation, PVC drain Pipe and compatible Circuit Breaker Legrand or equivalent or any accessory required for installation Warranty: 03 years Compressive Warranty	Haier HSU-18HPM COMPLIANT	TCL 18T3 Pro B COMPLIANT

Sr.	Item Name	Technical Specifications	Ample Global Enterprises	M/S Al-wahab Traders
2	Floor Standing Air Conditioner 4 Ton	• Technology DC Inverter • Heat & Cool • Inverter Floor standing type AC • Cooling & Heating capacity:48000 BTU • R410 Refrigerant or CFC free environment-friendly refrigerant • Long Installation Pipe • Long Distance Air Throw • Out Door Unit: • Compressor Type: T3 • High Efficiency • Low voltage startup • DC inverter compressor • Convenient Installation • Quiet Operation • Indoor Unit: • indoor High Temp. • Protection • 3D or 4 D air circulation • Power Failure Recovery • Multi Speed Fan • Fresh Air Intake • Digital or LED display • Standard Washable Filter • Remote control is standard • Note: • LG, Orient, Samsung, Haier, • Gree, PEL or equivalent • (Renowned Brands only) • Complete Installation with refrigerant copper Pipe(10ft), including any another accessory required for installation, proper cabling 7/44, insulation, PVC drain Pipe and compatible Circuit Breaker Legrand or equivalent • Warranty: 03-Years Compressive Warranty	Haier HPU-48E/DC COMPLIANT	TCL FTP60 COMPLIANT

Sr.	Item Name	Technical Specifications	Ample Global Enterprises	M/S Al-wahab Traders
3	Refrigerator	• 18 Cft Capacity • Top Freezer • 12 Year Brand warranty • Upto 45% Energy Saving (with R600A) • A Energy Rating • Direct Cool • 45% Less electricity consumption Warranty: • 02-year complete unit with Parts • Two Year PCB kit 3 years for Compressor	Haier HRF-438ID/BA/RA COMPLIANT	Dawlance REF 91999 COMPLIANT
4	Water Dispenser	• Two water taps • Refrigerator Function • Stainless steel tank • Automatic Thermostat • Energy Efficient • Low Voltage Start Warranty: • 02-year complete unit with Parts 02 years for Compressor	Super Asia MD-20 Not COMPLIANT	PEL WD215 COMPLIANT
5	Microwave	• 20L or better • Inverter Technology • 21% Energy Saving • Even Defrost • Even Heating – No More Over Cooking Warranty: 02-Years Compressive Warranty	Dawlance MWO MD-20 COMPLIANT	Haier HGL-20MXP8 COMPLIANT
6	Coffee Machine	NESCAFÉ ALEGRIA 8/60 or equivalent	Cambridge ES-01 NOT-COMPLIANT	NESCAFE COMPLIANT

Sr.	Item Name	Technical Specifications	Ample Global Enterprises	M/S Al-wahab Traders
7	Ceiling fan	• Size 1400 mm (56 inch) • 220 Volt, 50 Hz, • 100% Copper winding • Energy Efficient • Quoted model must be from the list of energy labeled celling fans by NEECA* • *NEECA: National Energy Efficiency & Conversion Authority Warranty: 05-Years Compressive Warranty	GFC Deluxe (50w) COMPLIANT	GFC COMPLIANT
8	Exhaust Fan	Size 12 inch, Plastic Body Dual Action 100% Copper wire winding, 220 Volt, 50 Hz, Energy Efficient Quoted model must be from the list of energy labeled celling fans by NEECA* *NEECA: National Energy Efficiency & Conversion Authority. 02-Years Compressive Warranty	GFC 12 inch (300mm sweep) Double Action COMPLIANT	GFC 12 inch COMPLIANT
9	Exhaust Fan	Size 06 inch, Plastic Body 100% Copper wire winding, 220 Volt, 50 Hz, Energy Efficient Quoted model must be from the list of energy labeled celling fans by NEECA* *NEECA: National Energy Efficiency & Conversion Authority. 02-Years Compressive Warranty	GFC 6 inch (150mm sweep) Single Action COMPLIANT	GFC 6 inch COMPLIANT
10	LED 98' (Andriod)	98" or Higher (Android) RAM: 2GB or High	Samsung LED 98Q80c	TCL 98C735 COMPLIANT

Sr.	Item Name	Technical Specifications	Ample Global Enterprises	M/S Al-wahab Traders
		ROM: 32GB or High Response Time: 8.5 ms Back Light: LED Resolution: 3840x2160 (UHD) Brightness: 350 cd/m2 HDMI: 2 (minimum) USB: 3.0 x1, 2.0 x 1 or better LAN: Yes, Wi-Fi: Yes, RJ45: Yes, Dolby Audio: Yes Accessories: HDMI Cable: & TV stand/ Brackets, TV remote Warranty: 02 years comprehensive on-site replacement warranty with parts & labor from the date of installation.	COMPLIANT	
11	Telephone Exchange	Panasonic/ Alcatec or Equivalent Minimum 20 Ports/ Lines with Installation Warranty: 02 years comprehensive on-site replacement warranty with parts & labor from the date of installation.	Panasonic TM824 COMPLIANT	PABX COMPLIANT