

# **TENDER DOCUMENTS**

**Computer Hardware and**

**I.T EQUIPMENT**

**No. IP/HW/IT/2022-23**



Pakistan Meteorological Department

Sector H-8/2,

Islamabad,

September, 2022

## **Tender Notice**

Sealed Tenders are invited on **F.O.R Islamabad basis** from reputed Suppliers / Authorized Dealers registered with Income and Sales Tax Departments for supply of the following items with all accessories and software's:

S. No	Items Name	Closing Date & Time	Bid Opening Date & Time
1.	COMPUTER HARDWARE AND IT EQUIPMENT	01-11-2022 at 11:00PST	01-11-2022 at 11:30PST

### **Terms and Conditions:**

1. Bid Security (2% of the Offer) in shape of Bank Draft / Pay Order in favor of D.G. Met. Services, Islamabad should be submitted with the Bid.
2. The quantity of the items can be increased/ decreased subject to funds availability.
3. Incomplete or late received offer will not be considered, closing date and time of Bid is 01 November, 2022 at 1100PST and opening date and time is 01 November, 2022 at 1130PST.
4. The Procuring Agency reserves the right to cancel the bidding process at any stage without assigning any reason.
5. Detail specifications can be obtained from websites: [www.ppra.org.pk](http://www.ppra.org.pk) or [www.pmd.gov.pk](http://www.pmd.gov.pk)

**(Major® Muhammad Kaleem Khan)**  
**Director**  
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# **Section 1**

## **Technical Specifications**



		<p>Grayscale output bit depth is 256 levels (8-bit); color output bit depth is 24 bits (8 x 3),  <b>Paper Thickness and Weight:</b> Minimum 27 For Thin Documents like Bank Deposit slips &amp; Maximum 433 g/m<sup>2</sup> For Thick documents like Hard Card educational certificate (7.2–160 lb. cover stock) ID card thickness: up to 1.4 mm (0.55 in),  <b>Paper path:</b> 3700 pages per day,  <b>Document Feeding Capacity:</b> Up to 80 sheets of 80 g/m<sup>2</sup> (20 lb.) paper Handles small documents such as A8, ID cards, embossed hard cards, and insurance cards (portrait and landscape orientations),  <b>Warranty:</b> One Year with parts,</p>	
04	<b>Layer 3 Manageable Routing Switch</b>	<p>Layer 3 manageable routing switch – 24 ports with 4 SFP port  <b>Warranty</b> 1 Year</p>	04
05	<b>Layer 2 routing switch</b>	<p>Layer 2 routing switch – 16 ports with 2 SFP ports  <b>Warranty</b> 1 Year</p>	04
06	<b>24 port Gigabit Unmanaged Switch</b>	<p>24 port Gigabit Unmanaged Switch  <b>Warranty</b> 1 Year</p>	10
07	<b>16 port Gigabit Unmanaged Switch</b>	<p>16 port Gigabit Unmanaged Switch  <b>Warranty</b> 1 Year</p>	10
08	<b>External Hard Disks (2TB)</b>	<p>Sleek, lightweight portable drive  USB 3.0 increases transfer speed up to 10x faster than USB 2.0  Backwardly compatible with USB 2.0 ports  Includes Nero BackItUp &amp; Burn software  <b>Warranty</b> 1 Year</p>	18
09	<b>External Hard Disks (4TB)</b>	<p>Sleek, lightweight portable drive  USB 3.0 increases transfer speed up to 10x faster than USB 2.0  Backwardly compatible with USB 2.0 ports  Includes Nero BackItUp &amp; Burn software  <b>Warranty</b> 1 Year</p>	20
10	<b>USB (64 GB)</b>	<p>USB  High-quality metal casing for durability with key ring to prevent loss  NAND Flash Technology</p>	60

		Water proof, Shock proof, magnet proof, temp proof, and X-ray proof with High-speed USB 3.0 flash drive for fast data transfer  <b>Warranty</b> 1 Year	
11	<b>Web Cam</b>	Web Cam Portable webcam RESOLUTION (VIDEO) 1600, 1200 RESOLUTION (STILL) 2 megapixels VIDEO FRAME RATE (MAX) 30 fps BUILT-IN MICROPHONE  <b>Warranty</b> 1 Year	12
12	<b>Wireless Microphone</b>	Wireless Microphone 8 hours of continuous battery life with AA alkaline or rechargeable batteries <b>Warranty</b> 1 Year	15
13	<b>Speaker</b>	Speaker for Conference Output Power 40 Watt Minimum Battery Timing 5 to 6 Hours Minimum <b>Warranty</b> 1 Year	12
14	<b>Windows 10</b>	Licensed Windows 10	36
15	<b>MS Office Latest</b>	MS Office (Licensed)	30
16	<b>Anti-Virus for Multiple Users</b>	Anti-Virus (Licensed)	30
17	<b>USB External DVD/CD-RW ROM Drives</b>	USB External DVD/CD-RW ROM Drives DVD±RW (±R DL) / DVD-RAM Optical Storage Burner Plug and Play, Hi-Speed USB 2.0, 1.1 standard (Downward compatible)	04
18	<b>Network Card</b>	Network Card <b>Warranty</b> 1 Year	12
19	<b>Wireless Network module</b>	Wireless Network module <b>Warranty</b> 1 Year	12
20	<b>Keyboard</b>	Keyboard (Branded) With Warranty	48
21	<b>Wireless Keyboard</b>	Wireless Keyboard (Branded) With Warranty	36

22	<b>Optical Mouse</b>	Optical Mouse (Branded) With Warranty	60
23	<b>IP Telephone set</b>	IP Telephone set <b>Warranty</b> 1 Year	01
24	<b>LaserJet Printer (HP or Equivalent)</b>	LaserJet Pro Multifunction Printer <b>Warranty</b> 1 Year	20
25	<b>LaserJet Printer (HP or Equivalent)</b>	LaserJet Pro Wireless Monochrome Printer Wireless support Print Speed 40PPM or More Processor 1200MHz or More Ram 256MB or More <b>Warranty</b> 1 Year	15
26	<b>LaserJet Color Printer (HP or Equivalent)</b>	Color LaserJet (printer with Toner) Print Speed (Black) 28PPM or More Print Speed (Colour) 28PPM or More Ram 512MB or More <b>Warranty</b> 1 Year	10
27	<b>LaserJet Printer (HP or Equivalent)</b>	Laser Jet Printer (printer with Toner) Print Speed 40PPM or More Processor 1200MHz or More Ram 256MB or More <b>Warranty</b> 1 Year	32
28	<b>Wi-Fi Network Routers</b>	Wifi Network Routers Supports 802.11ac 2.4GHz 450Mbps and 5GHz 867Mbps <b>Warranty</b> 1 Year	48
29	<b>Wireless Wi-Fi Air-Beam Antenna</b>	Wireless Wifi Air-Beam Antenna <b>Warranty</b> 1 Year	04 Pairs
30	<b>8 Port Network switch</b>	8 Port Network switch <b>Warranty</b> 1 Year	08
31	<b>Computer Technician Tool Kit</b>	Multiple pieces Assorted Bits Mini Spanner Anti-static/Anti Shock Wrist Band Needle Nose Pliers, Pliers, Cutter Plier, Reversible Ratchet Handle	02
32	<b>Projector Latest</b>	Projector Latest Panasonic or Equivalent Minimum 3500 Lumens, DLP <b>Warranty</b> 1 Year	12

33	<b>Crimping tools</b>	Crimping tools	10
34	<b>VGA Cable</b>	VGA Cable	48
35	<b>Power Cable</b>	Power Cable for Monitors and CPUs	48
36	<b>Power Cable</b>	Power Cable (Flower Type) for Laptops	24
37	<b>HDMI Cables</b>	HDMI Cables Long Length	12
38	<b>Network Cable Cat6 (Bundle)</b>	100% bare copper wire	06
39	<b>Ethernet RJ45</b>	Connector CAT6 Crimp	10 Packet
40	<b>All-in-One Desktop PC HP/ DELL or Equivalent</b>	<p><b>All-in-One Desktop PC</b></p> <p><b>Operating System:</b> Windows 11 Pro</p> <p><b>Processor:</b> Intel® Core™ i7-12700T (1.4 GHz up to 4.7 GHz, 25 MB L3 cache, 12 cores)</p> <p><b>Display:</b> 27" diagonal, FHD (1920 x 1080), IPS, three-sided micro-edge, anti-glare, 250 nits, 72% NTSC, Non-touch screen</p> <p>MP IR privacy camera w/integrated dual array digital microphones, camera sensor</p> <p><b>Memory:</b> 32 GB DDR4-3200 MHz RAM (2 x 16 GB)</p> <p>Storage: Primary: 256 GB PCIe® NVMe™ M.2 SSD</p> <p>Secondary:</p>	20



		<p>1 TB 5400 rpm SATA HDD</p> <p><b>Graphics Card:</b></p> <p>Integrated Graphics</p> <p><b>Network:</b></p> <p>Realtek Wi-Fi 6 (2x2) and Bluetooth® 5.2 combo (Supporting Gigabit data rate), MU-MIMO supported</p> <p><b>Software:</b></p> <p>Microsoft Office Professional 2021 – Lifetime License</p> <p><b>Accessories:</b></p> <p>Wireless Keyboard and mouse combo, power cords, stand</p> <p><b>Warranty:</b></p> <p>Standard</p>	
41	<p><b>Purchase of High Performance Computing Server (PowerEdge R940 Server)</b></p>	<p>Base</p> <p>PowerEdge R940 Server</p> <p>Chassis Configuration:</p> <p>2.5" Chassis with up to 24 Hard Drives</p> <p><b>CPU</b></p> <p>4x Intel® Xeon® Gold 5218 2.3G, 16C/32T, 10.4GT/s, 22M Cache, Turbo, HT (125W) DDR4-2666 Total = 64 Cores</p> <p>4 CPU Heatsink</p> <p>Memory</p> <p>Total 8 x 16 GB DDR4 Dual Rank 3200MT/s RDIMMs</p> <p>Power:</p> <p>Dual, Hot-plug, Redundant Power Supply (1+1), 1100W, 250 Volt Power Cord</p> <p>Storage:</p> <p>2 x 480GB SSD SATA Read Intensive 6Gbps 2.5in Hot-plug AG Drives</p> <p>16 x 2.4TB 10K RPM SAS ISE 12Gbps</p>	01

		<p>512e 2.5in Hot-plug Hard Drive</p> <p><b>Raid Controller:</b></p> <p>PERC H740P Adapter FH</p> <p><b>Raid Configuration:</b></p> <p>RAID 1 + RAID 5 for HDDs or SSDs (Matching Type/Speed/Capacity Within Each RAID Container)</p> <p><b>Network daughter card:</b></p> <p>Dual Port Mellanox ConnectX-4, EDR, QSFP+, Adapter - Low Profile</p> <p>100 Gigabit InfiniBand</p> <p>Broadcom 57412 Dual Port 10GbE SFP+ &amp; 5720 Dual Port 1GbE BASE-T rNDC</p> <p>Power Cords:</p> <p>2 x Jumper Cord - C13/C14, 4M, 250V, 10A</p> <p>Embedded Systems Management:</p> <p>iDRAC9 Express</p> <p><b>Rack Rails:</b></p> <p>ReadyRails™ Sliding Rails with Cable Management Arm</p> <p><b>Optics &amp; Cables for Network Cards:</b></p> <p>1GbE, 10 GbE SPF+, QSFP+ all included</p> <p><b>Warranty and Support:</b></p> <p>Complete deployment at PMD premises with RAID configuration and OS installation (CentOS)</p> <p>3 years Standard with Onsite Service</p>	
42	<b>48 Port Gigabit Ethernet Switch</b>	48x 10/100/1000Mbps RJ45 Ports supporting Auto Negotiation and Auto	02

		MDI/MDIX <b>Warranty</b> 1 Year	
43	<b>Gigabit VPN Router</b>	Minimum Five Gigabit Ports  Up to 3 WAN Ethernet Ports: 1 gigabit WAN port and 2 gigabit WAN/LAN ports with load balance raise the utilization rate of multi-line broadband.  Highly Secure VPN: Supports up to 20x LAN-to-LAN IPsec, 16x OpenVPN*, 16x L2TP, and 16x PPTP VPN connections.  Advanced firewall policies, DoS defense, IP/MAC/URL filtering, and more security functions protect your network and data.  <b>Warranty</b> 1 Year	02
44	<b>Laser Jet Color Printer (3 in 1) (HP or Equivalent)</b>	<b>Printer:</b> Laser jet color printer  <b>Document size:</b> up to A3  <b>Print speed:</b> > 25 ppm (Black & Color)  <b>Printing resolution:</b> 600dpi  <b>Paper storage (capacity):</b> Up to 250 Sheets  <b>Including toner:</b> Black & Colour  <b>Automatic Duplex printing and ADF</b>  <b>Interfaces:</b> Hi-Speed USB 2.0 Device, Ethernet 10/100 Base TX	02
45	<b>Video Conference System Kit</b>	<b>Suitable for meeting room size max up to 80 square meters Support for on-site meetings of up to 20 people Built-in VISCA, PELCO P/D multiple control protocols with MIC and Speaker</b>  <b>LED and video conference system mounting with moveable bracket. Installation, Configuration, Training,</b>	02

		<b>Testing</b>	
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## Terms & Conditions:

1. **Earnest money/ Bid Security @ 2%** for each category in the shape of Bank Draft/Pay order in favour of D.G Met. Services must be submitted with the offer.
2. Bidders must submit copies of their registration of Sales Tax and Income Tax.
3. Bidder must submit on stamp paper
  - (i) That there is no pending liabilities in respect of the bidder/ firm against any government/semi-government department/ organization
  - (ii) That bidder is representing a firm which is registered in his own name.
  - (iii) That the bidder has not been black listed by any government/ semi-government department/ organization. Legal documents can be asked by the buyer, if required.
4. **BID VALIDITY:** Bids shall remain valid for a period of at least **30 days** after the date of opening of technical proposals.

In exceptional circumstances, prior to expiry of the original bid validity period, the Buyer may request that the bidders extend the period of validity for a specified additional period. The request and the responses there to shall be made in writing or by electronic mode. A bidder will not be required or permitted to modify its bid, but will be required to extend the validity of its bid security for the period of the extension.

5. All bidders are advised to comply strictly with the document specifications/ terms & conditions and no deviation shall be allowed.
6. Technical proposals and financial proposals must be submitted separately on **F.O.R. ISLAMABAD Basis at PMD Headquarters office sector H-8/2, Islamabad.** Only technical proposals of these items will be opened on 01 November, 2022.
7. The successful bidders will furnish performance guarantee in the shape of bank draft/ pay order @ 5% of his supply order in favour of D.G. Met. Services.
8. The last date for the submission of tender is 01 November, 2022 at 1100 Hours PST and will be opened on the same day at 1130 hours PST in the presence of bidders or their representatives.
9. Goods as per specifications would be **received within 30 days**, after the issuance of supply order, **and the supplier will be responsible for replacement of items**, if found defective during inspection / warranty period.
10. The quantity of the items can be increased/ decreased.
11. The Procuring Agency reserves the right to cancel the bidding process at any stage without assigning any reason.
12. Taxes will be deducted as per Government rules.
13. The payment against supply of items will be made through crossed cheque(s) in Pak Rupees by the Department to the supplier after satisfactory supply of goods and technical report submitted by the Technical Committee.
14. Any bid found in deviation / violation / without earnest money would liable to be rejected.
15. Bidding documents can be obtained free of cost from the PMD/PPRA websites [www.pmd.gov.pk](http://www.pmd.gov.pk) or [www.ppra.org.pk](http://www.ppra.org.pk)