GOVERNMENT OF ARUNACHAL PRADESH
OFFICE OF THE DIRECTOR GENERAL OF POLICE
POLICE HEADQUARTERS::ITANAGAR

NO.PHQ (PROV) - 19/2024-25.   Dated Itanagar, the 27th November, 2024.

TENDER NOTICE

On behalf of the Governor of Arunachal Pradesh, Director General of Police, Arunachal Pradesh invites Sealed Tender under two Bid systems (Technical Bid & Financial Bid) from the manufacturers, authorized agents / dealers / suppliers of reputed firms for entering contract for supply & installation of miscellaneous items / equipments for up-gradation of FSL (Forensic Science Laboratory), PTC, Banderdewa during the year 2024-25 for Arunachal Pradesh Police. For details, please visit our web site-www. arunpol.nic.in.
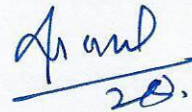
Sd/-
Director General of Police
Police Headquarters, Itanagar
Arunachal Pradesh

(Not to be published)

Memo No. PHQ (Prov) - 19/2024-25.   Dated Itanagar the 28th November, 2024.
Copy to:

1   The Director of Information and Public Relations Govt. of Arunachal Pradesh, Naharlagun for information and wide Circulation. He is also requested to pass necessary order for publication of the above Tender Notice in one leading Newspaper of Arunachal Pradesh published from Itanagar namely "Arunachal Times" or "Arunachal Front".

2   The In- Charge, Computer Cell, PHQ, Itanagar. The tender notice along with lists of equipments with specifications may be uploaded in the website of Arunachal Pradesh Police (arunpol.nic.in)

3. Office copy

Asstt. Inspector General of Police (E),
Police Headquarters, Itanagar
Arunachal Pradesh

Asstt. Inspector General of Police(E)
Arunachal Pradesh
Itanagar

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GOVERNMENT T OF ARUNACHAL PRADESH
OFFICE OF THE DIRECTOR GENERAL OF POLICE
POLICE HEADQUARTERS: ITANAGAR

NO.PHQ (PROV)-19/2024-25. Dated Itanagar, the 28th November, 2024.

TENDER NOTICE – CUM – TERMS AND CONDITIONS

On behalf of the Governor of Arunachal Pradesh, Director General of Police, Arunachal Pradesh invites Sealed Tender under two Bid systems (Technical Bid & Financial Bid) from the manufacturers, authorized agents / dealers / suppliers of reputed firms for entering contract for supply & installation of miscellaneous items / equipments for up-gradation of FSL (Forensic Science Laboratory), PTC, Banderdewa during the year 2024-25 for Arunachal Pradesh Police. For details please visit our web site- www. arunpol.nic.in.

1.

SL No	Description of items to be procured	Approx. Cost of tender	Earnest money required	Tender Fee (Non-refundable)
1.	Procurement & installation of miscellaneous items / equipments for up-gradation of FSL (Forensic Science Laboratory), PTC, Banderdewa during the year 2024-25 for Arunachal Pradesh Police. (items details along with specifications attached at Annexure- "A")	Rs. 2,65,44,000/-	Rs. 5,31,000/-	Rs. 1,000/-

2. Critical date sheet:

Sl.	Particulars	Date	Time
1	Date of publication of Tender	29/11/2024	
2	Bid submission start date	From the date of publication onward	
3	Bid submission end date	27/12/2024	1100 hrs
4	Submission of Tender fees (cost of tender documents)	The tenderer who wants to obtain tender document from PHQ, Itanagar, tender fee (in form of Demand Draft / Bank Draft in favour of AIGP(E), PHQ, Itanagar payable at SBI, Itanagar) may be furnished at the time of obtaining the tender documents. The firms registered under MSME are exempted for earnest money. They must submit copy of registration certificate of MSME.	
5	Date of Technical bid opening	27 /12/2024	1130 hrs

3. The Tender documents must be provided in two (02) covers:

1. **Cover-1:** It shall contain scanned copies of eligibility information as under.

a) Technical bid along with its specifications leaflet, brochure, catalogue / literature, if any, of each

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tendered item.

b) Tender documents duly completed and signed BUT without indication of the rates "Quoted".

c) Earnest Money must be attached in form of TDR / FDR / Demand Draft / NSC / KVP etc. of Nationalized Bank / Post offices duly pledged in favour of Asstt. Inspector General of Police (E), PHQ, Itanagar. The firms registered under MSME are exempted for earnest money. They must submit copy of registration certificate of MSME.

d) Attested copy of PAN.

e) Attested copy of firm registration.

f) Attested copy of firm GST Registration.

g) Valid Trading license issued by competent authority for the tendered items.

h) Letter of authority (original) in respect of authorized distributors/dealership or Manufacturer Certificate (OEM) etc.

i) Latest Financially soundness certificate / Bank Solvency Certificate.

j) Undertaking letter about non-blacklisting of the firm.

k) Any other relevant document which the firm wishes to submit.

l) All the tender papers must be serialized / numbered properly and index / check list be submitted at the beginning of the tender papers indicating the pages of the relevant documents. Tenders without index / checklist shall be summarily rejected.

m) Technical compliance statement should be enclosed along with technical bid clearly specifying deviation, if any for all specifications mentioned in the tender.

n) 10 (Ten) years service and spare parts support after warranty period should be provided on payment basis. In this regard, an undertaking must be submitted by the participating firms.

2. **Cover-2:** It shall contain documents on "Financial Bid". Financial bid shall be opened only of those bidders who have been declared technically qualified by the committee. The criteria for eligibility and qualifications are to be met by the bidders such as minimum level of experience / past performance (if any), facilities and financial position etc. The date of opening of "Financial Bid" will be intimated to the firms which will be found qualified in technical compliance statement in due course of time.

GENERAL INSTRUCTIONS:

1. The tenders received after scheduled date & time will not be entertained. The tenderers or their representative may remain present at the time of opening of tenders.

2. Rates must be clearly written in figures as well as in words, showing GST Separately.

3. There should not be any cutting / over writing.

4. The Tenderer / Firm who fails to fulfill the eligibility conditions will be summarily rejected.

5. The firms will have to submit all documents (as mentioned in cover-1) including EMD, cost of Tender documents in the office of Assistant Inspector General of Police (E), Police Head Quarters, Itanagar, Arunachal Pradesh on **27/12/2024 at 1100 hrs**. The experience certificate (if any) must contain name designation, address, Phone No., Mail ID of issuing officer. The certificate should be countersigned by concerned OFFICE HEAD/DEPT. HEAD.
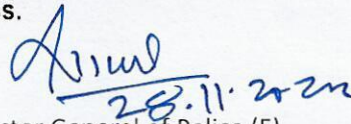
6. In case tender opening day is declared as holiday or bandh call at Itanagar, the tenders shall be received up to next working day till 1100 hrs. and opened on the same day at 1130 hrs.

   a) The bidders should keep checking the website for any addendum / corrigendum to the notice / bidding documents till the date of submission of bids and the bidder should incorporate the same in his bid documents.

   b) Conditional bids and the bids not meeting the qualifying criteria on the date of receipt of bids shall be summarily rejected.

   c) Bids will be opened as per time & schedule mentioned.

   d) Before submission of bids, bidders must ensure that scanned copy of all the necessary documents have been attached with bid.

   e) The department will not be responsible for delay in submission due to any reason(s).

   f) All the required information for the bid must be filled and submitted.

   g) The details of EMD and other documents specified in the tender documents should be same as submitted (scanned copies), otherwise tender will be summarily rejected.

   h) **Conditions:** If the tenderer who fails to supply the material/ perform the task assigned to him in the purchase order, within the period prescribed for such delivery specified above, the AIGP (E), or other competent authority, shall be entitled at his discretion to the actions as under:

   i) Graded liquidated damages for delay in delivery of all or any good or performance of services will be liable for as under: -
      a) For first 30 days @ 1% of the value of the goods.
      b) For next 60 days @2% of the value of the goods.
      c) For delay above 2 month/ over & up to 4 months @ 4% of the value of the goods.
      d) Beyond 4 months and up to 6 months @ 5% of the value of the goods & on expiry of 6 months the contract would automatically get nullified and Security Money Deposit would be forfeited.

7. The tender papers containing full details with specifications and terms and conditions can be obtained from Dy. Superintendent of Police (Provisioning), PHQ Itanagar, on payment of tender fee of Rs. 1,000/- (Non-refundable through a bank draft in favour of the Asstt. Inspector General of Police (E), PHQ, Itanagar, Arunachal Pradesh payable at S.B.I. Itanagar) on any working day from 0930 hrs. to 1600 hrs w.e.f. **29/11/2024 to 27/12/2024**. The tender documents may also be downloaded from our website. The tenderers downloading the documents from website are also required to submit a Bank Draft of Rs. 1,000/- as tender fees. No other mode of payment will be accepted.

8. Successful tenderers will be required to deposit 5% of the total value of the articles to be supplied as performance security money within 10 days from the date of issue of letter of acceptance of tender. The successful tenders will have to enter into a "DEED OF AGREEMENT" stipulating the Terms and Conditions of the contract.

9. Non fulfillment of any or all the Terms & Conditions of Contract, performance security deposit and EMD of the successful tenderer will be forfeiture and supply order issued to the firm shall be cancelled.

10. Rate should be quoted F.O.R Central Store, PHQ, Itanagar and rates quoted other than F.O.R Central Store, PHQ, Itanagar shall not be accepted. No packing or forwarding charges will be allowed. The rate of GST (as applicable) may be charged/quoted by the tenderers and the amount be clearly mentioned for all items. The rate should be quoted in Indian currency both in figure and words clearly. Tenders must be legible and clear in all respect else the tenders shall be liable to be rejected.

11.   Tenders should be addressed to the undersigned by designation and not by name. The separate sealed envelope containing the tender should be subscribed as "Tender for supply & installation of Forensic Science Laboratory equipments under Nirbhaya Scheme during the year 2024-25 for Arunachal Pradesh Police and sent by Registered Post / Speed Post / Courier Service or put in the Tender Box kept in the office of the undersigned (Provisioning Branch) on any working day from 0930 hrs. to 1600 hours. *The tenders received after scheduled date & time will not be entertained.*

12.   Any breakage or loss of any item will be at the supplier's risk.

13.   Delivery of the stores will have to be completed within 90 days from the date of issue of supply order. In case of failure to supply the items in time, violation of any provision of Deed of Agreement, the firm is liable to be blacklisted.

14.   If any item is found damaged or otherwise unacceptable at the time of delivery / inspection, the supplier will be required to remove the same from Central Store, PHQ, Itanagar, Arunachal Pradesh at their own cost within 15 days. The demonstration of the items shall be conducted at the time of acceptance by the Board of Officers. The items not found as per specifications shall be rejected.

15.   Payment will be made to the supplier directly on completion of supplies / installation and on receipt of stores. Documents / vouchers / bill etc.

16.   The Director General of Police, Arunachal Pradesh, Itanagar reserves the right to reject the lowest or all or any of the tenders without assigning any reason thereof.

17.   The Director General of Police of Arunachal Pradesh, Itanagar shall have the right to ask the firms to demonstrate their items before the items are accepted.

18.   List of equipments/items with description & specification is enclosed at Annexure- A. The quantities mentioned in the enclosure are all approximation and subject to variation as per actual availability of funds.

19.   Tenders will remain valid up to 31-03-2025.

20.   All items to be supplied shall be under warranty as mentioned in Annexure-A against each items/ equipments from the date of acceptance.

21.   In case of any dispute, legal jurisdiction will be at Itanagar, Arunachal Pradesh.

22.   In case of any query, the tenderers may contact at following phone no. / mail ID.

Officers	Telephone	E-mail ID
Dy. Superintendent of Police (Prov), PHQ, Itanagar	97749-07007 (Mobile)	arpolice@rediffmail.com.
Sub-Inspector (Prov), PHQ, Itanagar	81190-91663 (Mobile)	arpolice@rediffmail.com.

Note: In view of the Govt. policy of "Vocal for Local" and "Atma Nirbhar Bharat" to encourage local entrepreneurs vide No. FIN/E-30/2017/675 dated 19/008/2020, the firm registered within Arunachal Pradesh can only participate in the tender process.

28.11.2024

Asstt. Inspector General of Police (E)
Police Head Quarters, Itanagar
Arunachal Pradesh

Asstt. Inspector General of Police(E)
Arunachal Pradesh
Itanagar

LIST OF EQUIPMENTS WITH SPECIFICATIONS AND QUANTITY TO BE PROCURED & INSTALLED FOR UP-GRADATION OF FSL (FORENSIC SCIENCE LABORATORY), PTC, BANDERDEWA DURING THE YEAR 2024-25 FOR ARUNACHAL PRADESH POLICE

SL No.	Name of Item	Technical Specification	Quantity (in No.)
1.	FRED- L Forensic Laptop	1) **Processor**: Intel Core i9-13900HX, 24 core (8 performance / 16 efficiency), 32 threads, up to 5.4 GHz, 36 MB Smart Cache. 2) **Chipset**: HM770. 3) **Memory**: 64 GB PC5-38400 DDR5 4800 MHz. 4) **Display**: 17.3-inch UHD (3840 x 2160) display, 144Hz WVA, 100% DCI-P3, G-SYNC, Matte. 5) **Keyboard & Pointing Device**: Full size, color illuminated, numeric pad. Integrated touchpad with Microsoft PTP multi-gesture and scrolling. 6) **Bio-Identification & Security**: Intel PTT (Platform Trust Technology) without hardware TPM Kensington lock slot. 7) **Software**: Microsoft Windows 11 Professional, 64-bitOpenSUSE Linux 64-bit Symantec Ghost. 8) **Graphics & Video Support**: NVIDIA GeForce RTX 4090 GPU with 16GB GDDR6 w/Advanced Optimus. 9) **Storage**: Up to three drives available. Multiple drive options are available. Slot 1: 500 GB M.2 NVMe (OS) Slot 2: 1 TB M.2 NVMe (user defined) Slot 3: 1 TB M.2 NVMe (user defined). 10) **Network Performance & Wireless**: 10/100/1000/2500 Mbps Ethernet LAN port.Intel WI-FI 6E AX211 M.2 + BlueTooth 5.3. 11) **Integrated Components**: 1 RJ-45 LAN (10/100/1000/2500 Mbps), 1.0 Megapixel FHD Video Camera, High Definition Audio, Microphone, Speakers (2), Illuminated, Keyboard with Numeric Keypad, Touch Pad pointing device (2 buttons) with multi-gesture and scrolling. 12) **Write Blocked Forensic Imaging**: A set of three UltraBlock write blockers (UltraBlock SATA/IDE, UltraBlock PCIe, UltraBlock USB 3.0), Forensic Media Card Reader, UltraBlock power supplies (2), and all required power/signal cables. 13) **Media Card Reader**: Digital Intelligence Forensic Media Card Reader – RO and RW switchable. 14) **Imaging Software**: Tableau Imager (preinstalled). 15) **External Connections & Expansion**: 　1 RJ-45 Port 　1 HDMI Output Port (with HDCP) 　1 Mini DisplayPort 1.4 　2 USB 3.2 Gen 2 Port (Type A) 　1 Thunderbolt 4 / USB 3.2 Gen 2 (Type C) DisplayPort 　1 Thunderbolt 4 (Type C) 　1 2-in-1 audio (headphone output / microphone input) 16) **Electrical Operating Requirements**: Full range AC-IN 100-240V, 50-60Hz, 330W AC adapter, DC output 19.5V, 16.92A. 17) **Accessories**: Removeable 8-cell polymer battery, 99 WH. 18) **Hardcase**: 　2 Airtight, watertight, hard-sided cases 　High impact 　FRED L case has padded laptop insert 　Write blocker case is custom foam lined 19) **Adapters & Extras**: 　Digital Intelligence SATA III to M.2 and mSATA SSD 　TDA7-2 M.2 SSD	02

		PCIe cable (4")	
		20) **Warranty & Technical Support**: Lifetime technical support (email, phone and via website). FRED-L warranty 36 months from date of purchase. UltraBlocks and duplicator warranty 12 months from date of purchase. Extended warranty plans available. 21) **Configure to order**: Configure System with available options. 22) The product must have **Manufacturer's Authorization Letter**. **Training**: On-Site product training with certificate.	
2.	Logicube FALCON NEO2 Disk Duplicator	1) Capable to imaging/clone data from one to one, two to two or one to many destination media: Yes 2) Capable to imaging/clone data at the speeds of 50GB/min or higher. Clone PCIe to PCIe at speeds of over 100GB/min: Yes 3) Support multiple Imager Formats, copy, dd image,.dmg image, e01, ex01, supports MD5, SHA1, SHA256 and dual-hash (MD5+SHA-1) authentication: Yes 4) Can use up to 10 sources and 11 destinations for imaging (with verify), hashing, or wiping for ultra-efficient operation: Yes 5) Multiple Imaging Ports: Yes 6) write-protected source ports include: Yes 7) 1 SAS/SATA (SAS-3/12Gbps) that supports up to 4 drives with a single cable: Yes 8) 4 USB 3.2 Gen 2 (can be converted to SATA using an optional USB to SATA adapter): Yes 9) 1 PCIe: Yes 10) 2 I/O ports for use with optional I/O cards including Thunderbolt 3/USB-C: Yes 11) multiple destination ports include: Yes 12) Should have two 10GbE network ports for network connectivity. The unit should include a USB 3.2 Gen 2 device port for drive preview and two USB 2.0 host ports: Yes 13) Should allow imaging to an external storage device such as a NAS, using the 10GbE ports, USB 3.0 or via the SAS/SATA connection: Yes 14) Should be able to simultaneously perform multiple imaging tasks from the same source drive to multiple destinations using different imaging formats. Image simultaneously from multiple sources to multiple destinations including a network repository. Supports imaging to one location while simultaneously hashing and/or wiping a second drive. Perform up to 5 tasks concurrently. Little or no speed degradation when imaging from two sources to two destinations: Yes 15) Capable Web Browser/Remote Operation to allows to connect with device from a web browser: Yes 16) Capable to cross copy support for IDE, SATA, e SATA, microSATA, SAS, ZIF and USB interface and combine-SATA etc: Yes 17) Should image CD/DVD/Blu-ray media by using a USB optical drive connected to the USB port on the device: Yes 18) Capable to Detect and capture Host Protected Areas (HPA) and Device Configuration Overlay (DCO) hidden areas on the source (suspect) drive: Yes 19) Should Capture network traffic, internet activity and VOIP: Yes	01

		20) Capable to Generate Audit Trail Reporting/Log Files in XML, HTML or PDFformat: Yes 21) Should Secure sensitive evidence data with whole drive AES 256-bit encryption: Yes 22) Allow to manipulate the DCO and HPA area of the destination drive so that the destination drive's total native capacity matches the source drive: Yes 23) USB Host Ports and HDMI Port for connecting keyboard, Mouse and with Projector: Yes 24) Forensic, Filter-Based File Copy, users can filter and then image by the file extension (such as.PDF,.xls, JPEG, .mov etc.): Yes 25) Capable to acquire data over a network: Yes 26) Capable to generate the log of the processes: Yes 27) Capable to boot/mount the suspect media virtually in a write protected environment for preview of live data: Yes 28) USB Host Ports and HDMI Port for connecting keyboard, Mouse and with Projector: Yes 29) Product should carry 3 (Three) Years On-Site Warranty. Any Software/ Firmware updates to be provided during the Warranty Period: Yes 30) The product must have **Manufacturer's Authorization Letter.** 31) **Training:** On-Site product training with certificate.	
3.	**ADF Digital Evidence Investigator PRO Kit with 03 Years Warranty/SMS/Software Subscription**	1) **Software Type:** DIGITAL FORENSICS PLATFORM SOFTWARE FOR FORENSIC DATA EXTRACTION. 2) **Period of Subscription (in Years):** 03 (Three) Years On-site Warranty/SMS/Software Subscription. Any Software/ Firmware updates to be provided during the Warranty Period. 3) The product must have **Manufacturer's Authorization Letter.** 4) **Training:** On-Site product training with certificate. 5) **Operating Systems supported:** Windows 11 Pro 64-bit 6) Empower front-line field investigators with pre-set scans forautomated on-scene collection and analysis and maintain control with the combined power of Digital Evidence Investigator and Tool. 7) Easy-to-use and deploy with minimal training 8) Highly configurable artifact and file collection including web browser cached files, social media, P2P, Crypto currency, cloud storage, user login events, anti-forensic traces, saved credentials, files shared via Skype, USB history, user connection log, etc. 9) Recover deleted records from apps using the SQLite database 10) Supports collection of forensic artifacts from Windows and macOS (including T2 and M1 chips) 11) Search and collect emails including MS Outlook, Windows Mail, Windows Live Mail 10, Apple Mail 12) Investigate attached devices, live powered on computers, boot scans from powered off computers, forensic images, the contents of folders and network shares (including shares made available by NAS devices) 13) Enter keywords just before a live/boot scan. 14) Rapidly search suspect media using large hash sets (>100 million), including Project VIC (VICS 2.0) and CAID 15) Find relevant files and artifacts with powerful keyword and regular expression search capability 16) Image drives Out-of-the-box with image verification and imaging log file 17) Use password and recovery key to decrypt and scan or image BitLocker volumes including those using the AES-XTS encryption algorithm introduced in Windows 10	01

		18) Process APFS partitions, NTFS, FAT, HFS+, EXT, ExFAT, and YAFFS2 file systems, compute MD5 and SHA1 on collected files for integrity validation 19) Capture RAM / acquire volatile memory 20) Collect password protected and corrupted files for later review 21) Collect iOS backups on target computers 22) Detect and warn of BitLocker and FileVault2 protected drives 23) Leverage powerful boot capability (including UEFI secure boot and Macs) to access internal storage that cannot easily be removed from computers 24) Use the single timeline view that combines files and artifact records with a user's actions. 25) View results while a scan is running 26) View chat conversations with bubbles to easily identify the senders and receivers with "Message Thread" hyperlink to select individual conversations 27) Filter search results with sorting and search capabilities (dates, hash values, tags, text filters, more) 28) View pictures and videos organized by visual classes such as people, faces, currency, weapons, vehicles, indecent pictures of children 29) View links between files of interest and user's activities such as recently access files, downloaded files, attachments, and more 30) Inspect video using the tool's comprehensive video preview and frame extraction 31) Automatically tag hash and keyword matches 32) Define new file types and select individual ones to be processed 33) Display provenance, including comprehensive metadata, of all relevant files and artifacts 34) Reorder or disable post-scan tasks (classification of pictures, videos, or entity extraction) to run in the Viewer 35) Forensic tool lets investigators create a standalone portable viewer for further analysis and reporting for prosecutors and other investigators. 36) Powerful reporting capabilities (HTML, PDF, CSV) Export in VICS format (to Grifffeye Analyze Platform and other JSON compatible tools).	
4.	Amped FIVE software with 03 years warranty/SMS/Software Subscription	1) **Software Type:** DIGITAL FORENSICS IMAGE AND VIDEO ENHANCEMENT SOFTWARE FOR FORENSIC EXAMINATION. 2) **Period of Subscription (in Years):** 03 (Three) Years On-site Warranty/SMS/Software Subscription. Any Software/ Firmware updates to be provided during the Warranty Period. 3) The product must have **Manufacturer's Authorization Letter.** 4) **Training:** On-Site product training with certificate. 5) **Operating Systems supported:** Windows 11 Pro 64-bit 6) MUST have at least 140 different filters to enhance and process images and video files. 7) MUST be a single stand-alone system protected by a USB dongle or by a digital license. 8) MUST be able to decode video files with these codec frameworks: FFmpeg, FFMS, FFMS with Audio, DirectShow, VideoForWindows, QuickTime (if installed on the system). 9) MUST be able to bookmark frames and filters and customize their names, description, and folder. 10) MUST be able to convert and export videos in proprietary formats, most of them without transcoding. Must support one or more variant of (at least) these formats: Milestone .xml/.pqz, USBPlay archive, 000, 001... up to 099, 264, 264001, 400, 600, 787, acsm, aira, ajp, ami, amv, aov, arv, ary, asf, asx, av,ava, av3, avc, avd, ave, avf, avi, avr,	01

avs, awlive, bdb, bes, bfs, bin, bix, blk, bms, body, box, bpv, bu, bvr, bwm, bwv, cam, cbf,cme, cx3, d, da, dar, dat, data, dav, db, dbx, dce, dcr, dga, djp, dmd, dmi, dmskm, dpv, drv, dv4, dv5, dvr, dvs, dvt, dxa, e, edr, eds, ethe, evf, exe, exp, eye,ezvp,, fl4, flm, g64, g64a, g64x, gbf, gop, h263, h264, h265, h64, har, hav, hevc, hgd, hik,hkv, hme, hvs, icf, ifs, igd, ifv, image, imf, img, imp, irf, iva, ivf, jdr, kvf, jv, k26, l64, lvf, lwx, lxf, m2t, m2ts, m2v, m4v, m65, master, max, media, mgv, mjp, mjpg,mkv, mod, mov, mp4, mpc, mpg, mpg2, mrd, mts, mul, mva, mxg, noext, nov, n3r, nr3,nvf, nvr, omv, par, pef, pic, pns, ps, psf, psx, pvf, pw3, qbx, raw, re4, rec, rgm, rms, rmv, rsv, s, sm, sdc, sdr, sdv, sec, shv, ssf, strg, stw, svs, synav, tav, teb, tmp, ts, tvr, ubv, umv, v, v264, vcr, vdd, vdx, vfs4, vid, video, video.data, vision, vls, vmf, vp6, vse, vmhrcd, vsr, webm, wmv, wnm, wsb, xba, xpa.

11) MUST support any standard video format (avi, mp4, mkv, flv, 3gpp, wmv, mov...), also without the need of the codec installed on the system. Expandable by system codecs.

12) MUST be able to perform the batch conversion of multiple video files, even if they have different file extensions and/or are distributed across different folders.

13) MUST support any standard digital image format (i.e., jpeg, tiff, png, bmp, targa, tiff, jpeg2000, heif...) as well as at least one variant of the following ones: ico, gif, dcm, emf, eps, pcd, psd, xpm, 3fr, ari, arw, srf, sr2, bay, cr2, cr2, cap, iiq, eip, dcs, drf, k25, kdc, dng, erf, fff, mef, mos, mrw, nef, orf, ptx, pxn, R3D, raf, raw, rw2, rwl, dng, rwz, x3f, wbmp, webp.

14) MUST be able to organize loaded images and videos in folders, possibly nested.

15) Must support Undo/Redo actions.

16) MUST support GPU-accelerated encoding when transcoding videos with the H264 and H265 codec for conversion, either with CUDA or Intel Quick Sync Video.

17) MUST be able to load more videos all at once.

18) MUST be able to concatenate, extract the timestamp and demultiplex some proprietary video files during conversion.

19) MUST be able to track areas or target of interest (such as people or objects) through static, dynamic,manual, and keyframe-based tracking. MUST allow the copy of tracking data among multiple annotations so that they have matching movements when following a target.

20) MUST be able to display frame type (I, P, B) for video files.

21) MUST include a standard installer in both 32- and 64-bits version of the program and the user can switch freely between the two.

22) MUST allow for all operations performed by the user to be logged on a text file, together with system info and other critical information. The feature can be optionally disabled.

23) MUST be integrated with Milestone XProtect server, both connecting to the server and playing the exported images without prior conversion.

24) MUST be able to load a subtitle file (in SRT or SMI format) and renders its text on the video.

25) MUST be able to export the current video frames to a PDF with the number of images per page and paper size configurable by the user.

26) MUST be able to export the original video/image as well as the processed one. If the chosen output codec for exporting a video is H264, different quality options are available.

| | | 27) MUST be able to export the audio stream of a video if present.
28) MUST be able to select only the Intra-coded Frames of a video (I-Frames).
29) MUST have the project format in a simple and readable text which instructs the system on the filters and parameters to apply on specific files.
30) MUST be able to import a project folder originally exported by Amped Replay.
31) MUST provide the automatic generation of a report and MUST contain all the scientific methodology and details of the processing steps, settings, and the bibliographic references to the algorithms in HTML, PDF (optionally protected) or DOC format.
32) MUST allow for report generation in several different paper sizes
33) MUST provide different report templates and MUST allow the creation of customized templates too. MUST also allow for customization of destination folder and filename of the report.
34) MUST provide volume and mute controls when audio is enabled.
35) MUST allow for audio hearing when navigating the video frame by frame.
36) MUST support multichannel audio for some formats.
37) MUST be able to redact audio.
38) MUST be able to add an audio stream to a video
39) MUST be able to support audio-video synchronization, adding or subtracting a delay to an audio stream
40) MUST be able to automatically add black frames when the audio track is longer than the video stream
41) MUST have an automatic callback of three different analysis tools (MediaInfo, ExifTool tool and FFprobe) to quickly analyze and compare the digital information of image and video files.
42) MUST be able to perform file analysis frame by frame, reporting detailed information about each frame and allowing to filter the results by frame type (video, audio, other data).
43) MUST be able to perform video mixer overlays or display two different videos side by side.
44) MUST support synchronization of video streams and similarity metrics computation.
45) MUST be able to merge the audio and video streams from different filters. MUST be able to put in sequence or side by side multiple videos, MUST allow synchronizing the videos playback.
46) MUST be able to apply the Picture in Picture effect to display a small image or video over a larger one
47) MUST be able to convert a video with juxtaposed fields into an interlaced video.
48) MUST correct the geometric distortion caused by capturing optics (barrel,pincushion,and fisheye lens distortion). MUST support the selection of multiple lines for the estimation of the curvature to compensate.
49) MUST be able to convert an omnidirectional image into a panoramic one.
50) MUST have a homomorphic filter to adjust separately the contrast of the illumination and detail in an image.
51) MUST have a Smart Adjust filter that automatically adjusts the local contrast and brightness in an image whilst mitigating halo artifacts. | |

| | | 52) MUST be able to correct an uneven illumination in the image using the Retinex algorithm.
53) MUST have a color deconvolution filter to maximize the differences between specific colors in the image.
54) MUST be able to perform component separation to separate signals due to different informative components in the image.
55) MUST be able to calculate the input file hash code to check data integrity when loading the project. MUST support several hashing algorithms.
56) MUST be able to correct the blur caused by linear motion, even when the motion parameters change between frames.
57) MUST be able to correct the blur caused by wrong focus
58) MUST be able to correct the blur by non-linear motion defined by the user.
59) MUST be able to correct the blur caused by air turbulence on long distances or by high ambient air temperature/humidity.
60) MUST be able to align the perspective of different images of the same object, taken from different points of view. MUST support any kind of motion (shift, rotation, zoom, perspective changes).
61) MUST be able to perform automatic perspective stabilization of the same object taken by different angles.
62) MUST be able to visualize the macroblock type and motion vectors from a MPEG based video.
63) MUST have a super resolution feature that MUST generate a single higher-resolution image by merging all the frames with subpixel motion estimation, even with different perspectives.
64) MUST be able to stabilize a video focusing on an object with either static, dynamic or manual tracking.
65) MUST be able to stabilize a shaking video automatically.
66) MUST be able to adapt the video frame rate by duplicating or dropping frames retaining the original speed.
67) MUST be able to perform video redaction to pixelate, darken or blur an area of interest in a video (for privacy reasons, witness protection, or sensitive subjects).
68) MUST support different tracking methods (either manual, software assisted or keyframe-based) and inverse selection.
69) MUST be able to annotate images or videos with arrows, shapes, freehand drawings, magnification and spotlight effects. Each annotation MUST be able to track a specific target (manually with software assisted tracking, or by setting keyframes). It MUST be possible to set a different color for each annotation, also by using a eyedropper tool to pick color from image pixels
70) MUST support for visual hints and snapping, to assist the user to align annotations.
71) MUST support the grouping of annotations. Grouped annotations MUST be able to track object together.
72) MUST be able to freeze a selected frame for a set amount of time.
73) Must be able to create an empty video showing a colored frame or a still image for a specified time
74) MUST be able to display subtitles on the video frames with customizable font, color, size and position.
75) MUST be able to indicate date and time for the current frame and font, color, size and position MUST be customizable. | |

		76) MUST be able to superimpose a grid onto the image or video which is useful for compression estimation and other analysis. 77) MUST be able to play back the video in the reverse direction. 78) MUST be able to take a measurement on the image with a reconstruction model of the perspective. MUST support error calculation. 79) MUST be able to estimate the speed of an object that is moving over a flat surface. MUST support uncertainty calculation. 80) MUST be able to copy the evidence files stored in an external removable device, verifying the match between the source hash codes and the destination hash codes in order to check the integrity for a safe acquisition. MUST generate an automatic report/log of the action performed. 81) MUST be able to directly load the securely copied multimedia files into the software. 82) MUST be able to add the information related to the secure copy into the report of the project. 83) MUST support playback of variable frame rate video based on presentation timestamps. 84) MUST support playback speed based on timestamp values. 85) MUST allow adding, shifting, interpolating and refining timestamps. MUST also allow for region selection and tracking in the filter options. 86) Others (maybe less important) 87) MUST be able to reduce the blocking artifacts caused by JPEG compression. 88) MUST have multiple denoising, sharpening and intensity adjustment filters. 89) MUST be able to invert and replace the color channels of an image with another. 90) MUST be able to process and optionally record live video from a DirectShow compatible source. 91) MUST be able to load multiple images together to work on them as if they were frames of a single video file. 92) MUST include a special seek function which allows to move on user specified intervals based on units of (frames, Iframes, or different time units). 93) MUST be able to send, with a single click, the current image to Word, PowerPoint or copy it onto the clipboard for pasting in any other tool. 94) MUST have the notes panel always available on screen and the notes MUST be automatically saved with the project. 95) MUST have the ability to integrate screen capture with the option to save standard uncompressed video files for maximum quality and compatibility. 96) MUST be able to view, grab and process any stream coming from a DirectShow compatible device. 97) MUST include more than 50 different sample projects and files to learn how to apply the software in numerous situations. 98) MUST be able to select frames of the video within an interval with an optional frame step. MUST support the trimming of the original video stream without transcoding. 99) MUST be able to select a list of frames that are defined by the user. 100) MUST allow to correct the perspective of objects in an image (e.g., rectifying a license plate).	

		101) MUST be able to reduce the noise integrating current and previous frames and avoiding halos on moving objects. 102) MUST be able to put side by side the original and the processed image. 103) MUST be able to add logos, text with dynamic macros and shapes on images and videos. 104) MUST allow users to validate results by automating the pixel verification of processed images and videos between projects created using different versions of the software and/or different host computers.		
5.	**Amped Authenticate Software**	1) **Software Type:** DIGITAL FORENSICS AUTHENTICATION SOFTWARE FOR FORENSIC EXAMINATION. 2) **Period of Subscription (in Years):** 03 (Three) Years On-site Warranty/SMS/Software Subscription. Any Software/ Firmware updates to be provided during the Warranty Period. 3) The product must have **Manufacturer's Authorization Letter.** 4) **Training:** On-Site product training with certificate. 5) **Operating Systems supported:** Windows 11 Pro 64-bit 6) MUST have at least 40 analysis filters with optional user-customizable configuration and post-processing parameters (levels, scale to enhance the displayed image). 7) MUST be compatible with all the most common image formats and many of the uncommon ones too: BMP, GIF, JPEG, JPEG 2000, Tiff, PNG, TGA, Ico, Dicom, EMF, EPS, Photo PCD, XPM, PSD, HEIF, AVIF and Raw camera formats from most manufacturers. 8) MUST be compatible with all the most common video formats (MP4, MOV, MKV, 3GP). 9) MUST allow the image, video or project loading by means of drag and drop onto the GUI. 10) MUST automatically apply all filters to one image or all images in a folder and include support for nested folders. 11) MUST generate an automatic output image and report with all processing results on one or more images and the user is able to customize the output image size and custom destination folder. 12) MUST be able to create and save projects. 13) MUST be able to generate a project report in HTML, PDF (optionally protected) or DOC format. 14) MUST perform a quick automatic analysis of the format of all images in a folder to find suspicious files (triage). 15) MUST export a multiple image file format analysis results table directly to Microsoft Excel for further processing. 16) MUST display image and video location in Google Maps. 17) MUST search for similar imageson GoogleLens, starting from the evidence image or video frame. 18) MUST be able to check sun position for image or video location and date on Suncalc. 19) MUST search for images from a specific camera model on Flickr and support advanced image features filtering. 20) MUST search for images from a specific camera model on Camera Forensics and support advanced image features filtering. 21) MUST extract JPEG images embedded in any file type (images files, PDF, PPT, DOC, disk image...) for questioned document authentication support. MUST be able to automatically load into the program the images extracted from the PDF. 22) MUST be able to perform customization of all the criteria for evaluating the camera original files. 23) MUST be able to check whether the image likely comes from a known social media platform.	01	

24) MUST be able to make the filter's label appear in red, if the analysis of an image detects signs of manipulation.
25) MUST be able to display / compare main JPEG markers.
26) MUST have integrated hexadecimal viewer with search capabilities.
27) MUST display / compare JPEG Huffman Tables of the main image, embedded thumbnail, and preview.
28) MUST perform analysis of the color space usage of the image in the HSV and Lab coordinates to help spot excessive color adjustment.
29) MUST identify manipulated areas of the image based on DCT-domain analysis of aligned double JPEG quantization artifacts (ADJPEG).
30) MUST identify manipulated areas of the image based on DCT-domain analysis of non-aligned double JPEG quantization artifacts (NADJPEG).
31) MUST identify manipulated areas of the image based on the joint analysis of JPEG Ghosts Map, Blocking Artifacts, ADJPEG and NADJPEG.
32) MUST perform automatic identification of tampered areas of the image by comparison with the PRNU reference pattern of the image.
33) MUST run the PRNU analysis with images and video frames (within the technical limitations) and MUST compare two different camera reference patterns. MUST be able to extract video frames for generating the camera reference pattern file, without using external tools.
34) MUST include a PRNU video tampering tool.
35) MUST be able to perform VPF (Variation of Prediction Footprint) Analysis to detect whether a video was encoded twice during its life cycle.
36) MUST allow the range-based analysis on videos.
37) MUST identify similar areas of the image that can be the result of cloning.
38) MUST identify groups of similar points in the image that can be the result of cloning.
39) MUST be able to detect faces in the image and classify each face as being a deepfake generated by a GAN (Generative Adversarial Network) or not.
40) MUST be able to detect synthetic deepfake images generated by Diffusion models such as Stable Diffusion, DALL-E, Midjourney. It MUST provide a confidence score for each Diffusion Model class examined.
41) MUST check the consistency of cast and attached shadows in an image.
42) MUST support bookmarking output images and MUST support drawing graphical annotations on bookmarked output images.
43) MUST allow to copy annotations from one bookmark to another.
44) MUST allow to inspect the macroblocks type and their compression level in videos, and MUST allow the generation of a customizable plot.
45) MUST allow to inspect the coding details of a video at the frame level (PTS data, decoding and display frame order, packet size).
46) MUST allow computing the pixel hash of all frames in a video and export it to TSV format
47) MUST allow visualizing blocks that remained unchanged between consecutive frames, and MUST allow the generation of a customizable plot.
48) MUST allow extracting and displaying a specific color channel of an image or a video.

6.	Digital Panel	1) **Dimensions:** 5 x 50 x 33.86 cm	02
		2) **Weight:** 74.4 kg	
		3) **Operating System:** Android	
		4) **Hardware Interface:** USB	
		5) **Graphics Coprocessor:** RM Mali-G52	
		6) **Tuner Technology:** ATSC	
		7) **Resolution:** 4K (3840 x 2160 pixels)	
		8) **Special Features**	
		• **4K Resolution**	
		• **Long Screen Life:** 50,000 Hours	
		9) **Built-in K-12 Smart Class Content**	
		10) **Multi-touch Support**	
		11) **Mounting and Accessories:**	
		• Power Cable	
		• Remote	
		• Styler Pen	
		• Display Unit	
		• Wall Mount Kit	
		12) **Display Details**	
		• **Display Technology:** LED	
		• **Standing Screen Display Size:** 75 Inches	
		• **Display Type:** LED	
		• **Viewing Angle:** 120 Degrees	
		• **Image Aspect Ratio:** 16:9	
		• **Image Contrast Ratio:** 1200:1	
		• **Refresh Rate:** 3 Hz	
		13) **Audio and Connectivity**	
		• **Audio Input Compatible with the Item:** USB, HDMI	
		• **Audio Output Mode:** Digital	
		• **Supported Audio Formats:** MP3	
		• **Speaker Surround Sound Channel Configuration:** 5.1	
		• **Audio Wattage:** 280 Watts	
		14) **Total USB Ports:** 3	
		15) **Connector Type:** Wi-Fi	
		16) **Supports Bluetooth Technology:** Yes	
		17) **Power and Voltage**	
		• **Voltage:** 90 Volts	
		• **Wattage:** 225.00	
		• **Power Source:** Corded Electric	
		18) **Includes Remote:** Yes	
		19) **Warranty:** 2 Years Onsite Warranty.	
		20) The product should be installed by certified technician/engineer.	
7.	**10 KVA Modular UPS with SMF battery and battery rack**	1) **Weight:** 27.5 kg	01
		2) **Dimensions:** 70.6 × 13.4 × 43.3 cm	
		3) **Waveform Type:** Sine wave	
		4) **No. of Batteries:** 16	
		5) **Backup Time:** Based on the batteries being used	
		6) **Topology:** Online UPS	
		7) **Output Power Capacity:** 9.0 KWatts / 10.0 kVA	
		8) **Nominal Output Voltage:** 230V	
		9) **Efficiency at Full Load:** 94.4%	
		10) **Nominal Input Voltage:** 220, 240, 400, 415, 230V	
		11) **Input Frequency:** 50/60 Hz +/- 3 Hz (auto sensing)	
		12) **Interface Port(s):** RJ-45 Serial, USB	
		13) **Bypass:** Built-in Static Bypass	

		14) **In Box Accessories**: Power Chute Software, UPS, USB Interface Cable, Warranty Card 15) **Warranty**: 2 Years Onsite Warranty. 16) The product should be installed by certified technician/engineer.	

8.	Premium antivirus with 3 years subscription	1) **Sub-Category:** 10 User License
		2) **Name of the OEM:** Quick Heal
		3) **OEM Model / Part No.:** Total Shield
		4) **Single License for Multi-Device:** Yes
		5) **Intrusion Detection System (IDS) / Intrusion Prevention System (IPS):** Yes
		6) **Cloud Protection:** Yes
		7) **Network Threat Protection:** Yes
		8) **Number of Years Support (Warranty) from OEM / Franchise Online:** 3
		9) **Features and Functionality Parameters (Generic)**
		    • **Anti-Virus:** Yes
		    • **Anti-Malware:** Yes
		    • **Anti-Phishing:** Yes
		    • **Anti-Root kit:** Yes
		    • **Anti-Spyware:** Yes
		    • **Anti-Trojan:** Yes
		    • **Anti-Worm:** Yes
		    • **Anti-Spam:** Yes
		    • **Anti-Adware:** Yes
		    • **Anti-Ransom ware:** Yes
		    • **Boot Time Protection:** Yes
		    • **Removable Media Scan:** Yes
		    • **Protection from Browser Exploits:** Yes
		    • **Incoming and Outgoing Email Protection:** Yes
		    • **Instant Messaging Protection:** Yes
		    • **On-Demand Scanning:** Yes
		    • **On-Access Scanning:** Yes
		    • **Scheduled Scanning:** Yes
		    • **Vulnerability Scanning:** Yes
		    • **Automatically Clean Infected Files:** Yes
		    • **Scan Compressed File Formats:** Yes
		    • **Quarantine Feature:** Yes
		    • **Automatic USB Detection:** Yes
		    • **Registry Start-Up Protection:** Yes
		    • **Browser Protection:** Yes
		    • **Malicious Web Page Blocking:** Yes
		    • **Tamper Protection:** Yes
		    • **Parental Control:** Yes
		    • **Heuristics Protection:** Yes
		    • **Firewall:** Yes,
		    • **Web Protection:** Yes
		    • **Macro Protection:** Yes
		    • **Protection from PUA (Potential Unwanted Applications):** Yes
		    • **Download Protection:** Yes
		    • **Behavioral Analysis & Vulnerability Protection:** Yes
		    • **Bandwidth Management:** Yes
		    • **Social Media Protection:** Yes
		    • **Online Identity Protection:** Yes
		    • **Safeguards Online Transactions:** Yes
		    • **Network Attack Blocker:** Yes
		    • **Virus Cleanup Mode/Virtual Sandbox:** Yes
			13

		System Watcher: Yes **Backup and Restore:** Yes **Data Encryption:** Yes **Automatic Exploit Prevention:** Yes **File Shredder:** Yes **Virtual Keyboard:** Yes **Automatic Updates:** Yes **Free 24-hour Support:** Yes 10) Supported Devices: Desktop, Laptop 11) Supported Operating Systems: Windows 12) Number of Devices/Users Managed: 10 13) GENERIC PARAMETERS OF SECURITY AND PROTECTIVE SOFTWARE INCLUDING ANTIVIRUS - Free Upgradation to Higher Version with in support period: Yes - Valid License copy to be provided: Yes - Software supplied through Media & URL Link AV Test Certified: Yes - List of items included in the package: LICENSE KEYS OR CD	
9.	**Xerox Machine (All in one)**	1) **Printer Media Size Maximum:** A4; A5; B5 (JIS); C5; DL; 16k; Envelopes 2) **Included Components:** Printer, Black Toner Cartridge, Imaging Drum, Getting Started Guide, Setup Poster, Warranty Guide, Printer Documentation and Software on CD-ROM, Power Cord, USB Cable 3) **Scanner Type:** Sheetfed 4) **Max Input Sheet Capacity:** 250 5) **Max Copy Speed (Black and White):** 25 ppm 6) **Compatible Devices:** Printer 7) **Sheet Size:** A4 8) **Dual-sided Printing:** Yes 9) **Duplex:** Automatic 10) **Hardware Interface:** Ethernet 11) **Resolution:** Up to 1200 dpi 12) **Additional Printer Functions:** Copy, Scan 13) **Control Method:** App 14) **Compatible Cartridge:** HP 83A Black Original LaserJet Toner Cartridge 15) **UPC:** 887758655054 16) **Product Dimensions:** 4.49 x 1.75 x 2.46 cm; 3.12 kg 17) **Item Model Number:** C6N23A 18) **Memory Storage Capacity:** 256 MB 19) **Operating System:** Windows 20) **Hardware Platform:** PC 21) **Special Features:** Wireless, Compact 22) **Item Weight:** 3 kg 120 g 23) **Warranty:** 2 Years Onsite Warranty. 24) The product should be installed by certified technician/engineer.	02
10.	**Computer Sets with all accessories for Cyber Forensic Division**	1) **Processor:** 14th Gen Intel Core i5-14400 speed: 2.5 GHz (Base) – 4.7 GHz (Max), 10 Cores, 8 threads, 20 MB Cache. 2) **Memory:** 8 GB DDR4 RAM – 3200, storage: 1 TB SSD 3) **Monitor:** For desktop setups, a display screen to visualize output. **Color:** Black **Item Height:** 51.51 Centimeters **Item Width:** 71.5 Centimeters **Standing Screen Display Size:** 80 Centimeters **Screen Resolution:** 1920 x 1080 **Resolution:** 1920 x 1080 (FHD) Pixels **Product Dimensions:** 8 x 71.5 x 51.51 cm	02

- **Number of HDMI Ports:** 1
- **Included Components:** Monitor - 1 Unit
- **Item Weight:** 5 kg
- *Keyboard: For inputting data and commands.*
- *Product Dimensions: 44 x 13.5 x 3.5 cm*
- *Item Weight: 680.39 g*
- *Operating System: Windows 10*
- **Special Features:** Backlit

4) **Keyboard**
- **Keyboard Description:** Standard Keyboard
- **Connector Type:** Wired
- **Material:** Metal
- **Hand Orientation:** Ambidextrous

5) **Mouse:** For navigating the user interface.
- **Model Name:** Wireless Mouse, Rechargeable - 500 mAh Battery, Up to 3200 DPI, 6 Buttons
- **System Requirements:** Windows, Mac, Android
- **Technology Used:** Wireless Mouse | 2.4 G Dongle Connect
- **Form Factor:** Ambidextrous
- **Sales Package:** 1 Wireless Gaming Mouse
- **Inches per Second:** 3200
- **Compatible Devices:** Windows, Mac, Android, Ubuntu
- **Wireless Frequency:** 20 - 20 GHz
- **Bluetooth Version:** V5.0
- **Battery Life:** 120 Hours
- **Number of Batteries:** 1
- **Power Source:** 5 V DC
- **Battery Type:** Lithium Ion
- **Domestic Warranty:** 1 Year
- **International Warranty:** 1 Year
- **Warranty Service Type:** 1 Year Manufacturing Defect
- **Warranty Summary:** 1 Year Manufacturing Defect

6) **Speakers:**
- **Type:** Laptop/Desktop Speaker
- **Configuration:** 2.1 Channel
- **Power Source:** USB Powered
- **Power Output (RMS):** 11 W
- **Color:** Multicolor
- **Wired/Wireless:** Wired
- **Subwoofer:** 2
- **Compatible Devices:** DVD Player, Mobile, Laptop, PCs, Smart TV
- **Connector Type:** 3.5 mm, Stereo In
- **Controls:** Volume Controller
- **Power Input:** 5 V USB Power
- Output Power: 11 W (5W x 1 + 3W x 2)
- Power Rating: 2.5 ~ 4.5 W
- Driver Unit: 1 x 3" + 2 x 2"
- **Warranty Summary:** 1 Year
- **Covered in Warranty:** Manufacturing Defects
- **Domestic Warranty:** 1 Year

7) **Webcam:** For video conferencing (especially important for remote work).
- **Operating System:** Linux, Windows, Mac
- **Compatible Devices:** Laptop, Desktop, Computer, Personal Computer, Mac
- **Special Features:** 1080P 60FPS

- **Mounting Hardware:** Webcam
- **Standing Screen Display Size:** 2.7 Inches
- **Viewing Angle:** 78 Degrees
- **Image Aspect Ratio:** 16:9
- **Image Stabilization Technology:** Digital
- **Has Image Stabilization:** Yes
- **Optical Zoom:** 5x
- **Digital Zoom:** 5x
- **Resolution:** 1080p Full HD Pixels
- **Maximum Resolution:** 2 MP
- **Minimum Diaphragm Opening:** 0.7 Millimeters
- **Minimum Focal Length:** 0.7 Millimeters
- **Effective Video Resolution:** 1080 Pixels
- **Video Capture Resolution:** 1080p
- **Batteries Included:** Yes
- **Batteries Required:** No
- **Battery Cell Composition:** Lithium Manganese Dioxide
- **Connector Type:** USB
- **Form Factor:** Compact
- **Lens Type:** Zoom
- **Media Type:** Compact Flash
- **Includes Remote:** Yes

8) **Microphone**: For audio input, useful for calls and recordings.
Included Components: K678 Microphone, Stand, USB Cable
- **Polar Pattern:** Unidirectional
- **Item Weight:** 2.2 Pounds (998 g)
- **Impedance:** 2.2 Kilo ohms
- **Microphone Form Factor:** Condenser
- **Item Dimensions (L x W x H):** 15 x 15 x 17 cm
- **Power Source:** Corded Electric
- **Number of Batteries:** 1 Lithium Ion battery required
- **Material:** Zinc
- **Signal-to-Noise Ratio:** 75 dB
- **Hardware Platform:** Laptop, PC
- **Number of Channels:** 1
- **Frequency Response:** 20 kHz
- **Noise Level:** 75 dB

9) **Operating System**: Windows 11 Pro
10) **Productivity Software**: Word processing, spreadsheet, and presentation applications (e.g., Microsoft Office).
- **Product Name:** MS Office Suite 365 Professional Plus
- **Included Applications:** Word, Excel, PowerPoint, Outlook, Publisher, OneNote, One Drive, Access
- **Installation:** Physical voucher (ID + password) provided Installation instructions and support included
- Compatible with Mac, Windows, Android, and iOS

11) **Free 200 GB Storage for Lifetime:** 100 GB on OneDrive, 100 GB on Outlook, Works on existing or new installations of Office Suite 365 on all devices.
10) **Warranty**: 2 Years Onsite Warranty.
11) The product should be installed by certified technician/engineer.

11.	Windows 11 Pro Operating system	1) **Virtual Desktops:** Create and manage multiple desktops for different tasks. 2) **Snap Layouts and Snap Groups:** Enhanced window management for multitasking. 3) **Microsoft Teams Integration:** Built-in chat and collaboration features.	13

		4) **Windows Hello:** Password-free sign-in using facial recognition or fingerprint. 5) **BitLocker:** Full disk encryption for enhanced security. 6) **Group Policy Management:** Advanced management features for IT professionals. 7) **Remote Desktop:** Access your PC remotely. 8) **Enterprise Features:** Support for Windows Update for Business, Azure Active Directory, and more. 9) **User Interface:** • **Start Menu:** Centered Start Menu with a simplified layout. • **Taskbar:** Redesigned taskbar with new icons and features. • **Widgets:** Personalized news and information feed.	
12.	Laptop	1) **Item** Height: 17 Millimeters 2) **Item** Width: 21.7 Centimeters 3) **Standing** Screen Display Size: 14 Inches 4) **Screen** Resolution: 1920 x 1080 Pixels 5) **Product** Dimensions: 32.5 x 21.7 x 1.7 cm; 1.41 kg 6) **Batteries:** 1 Lithium Ion battery required (included) 7) **Processor** Brand: Intel 8) **Processor** Type: Core i7 9) **Processor** Speed: 4.7 GHz 10) **Processor** Count: 1 11) **RAM** Size: 16 GB 12) **Memory** Technology: DDR4 13) **Computer** Memory Type: SDRAM 14) **Maximum** Memory Supported: 16 GB 15) **Hard** Drive Size: 1 TB 16) **Hard** Disk Description: SSD 17) **Hard** Drive Interface: USB 18) **Audio** Details: Headphones, Speakers 19) **Graphics** Coprocessor: Intel UHD Graphics 20) **Graphics** Chipset Brand: Intel 21) **Graphics** Card Description: Integrated 22) **Graphics** RAM Type: VRAM 23) **Graphics** Card RAM Size: 16 GB 24) **Graphics** Card Interface: Integrated 25) **Connectivity** Type: Bluetooth, Wi-Fi 26) **Wireless** Type: Bluetooth 27) **Number** of USB 3.0 Ports: 2 28) **Number** of HDMI Ports: 1 29) **Voltage:** 37.2 Volts 30) **Wattage:** 5 Watts 31) **Power** Source: Battery Powered 32) **Hardware** Platform: PC 33) **Operating** System: Windows 11 Home 34) **Average** Battery Life (in hours): 7 Hours 35) **Are** Batteries Included: Yes 36) **Lithium** Battery Energy Content: 43 Watt Hours 37) **Number** of Lithium Ion Cells: 3 38) **Included** Components: Laptop, AC power adapter, user manuals 39) **Item** Weight: 1 kg 410 g 40) **Warranty:** 2 Years Onsite Warranty. 41) The product should be installed by certified technician/engineer.	07
13.	PTZ Pro 2 Camera	1) Dimensions **Camera** • Height: 146 mm • Width: 131 mm	01

		• Depth: 130 mm	
		• Weight: 580 g	

Remote
- Height: 10 mm
- Width: 50 mm
- Depth: 120 mm
- Weight: 48 g

2) Compatibility: Windows 7,8.1 or 10/ macOS 10.10 or later
3) Technical Specifications

Camera
- Smooth motorized pan, tilt and zoom
- ±90° pan
- ± 35° / 45° tilt
- 10x HD zoom
- Field of View
  - Diagonal: 90°
  - Horizontal: 82.1°
  - Vertical: 52.2
- Full HD 1080p 30fps
- H.264 UVC 1.5 with Scalable Video Coding (SVC)
- Autofocus
- 3 camera presets plus home position button
- Video mute/unmute LED indicator
- Standard tripod thread

4) Remote Control
- IR 8.5 m range
- CR2032 battery (included)

5) Cables / Power
- AC Power adapter with regional plugs
- Power cable: 3 m

6) MOUNT: Dual-purpose bracket works for both wall mounting and tabletop elevation

7) COMPATIBILITY AND CERTIFICATIONS
- Plug-and-play USB connectivity
- Certified for Skype for Business and Microsoft Teams
- Fuze® Certified
- Compatible with Google Meet®
- Cisco Jabber and WebEx compatible
- Compatible with BlueJeans®, BroadSoft®, GoToMeeting®, Vidyo®, and other video conferencing, recording, and broadcasting applications that support USB cameras

8) Package Contents
- PTZ Pro 2 Camera
- Remote control
- 10-foot USB cable with power adapter connection
- Power adapter with regional plugs
- Mount
- Documentation
- Warranty card

9) Warranty Information: 2-Year Limited Hardware Warranty
10) The product should be installed by certified technician/engineer.

| 14. | Air conditioner 2 Ton dual inverter Split AC with Stabilizer (5 Star) | 1) **Type of Product:** Split AC
2) **Compressor Type:** Rotary Compressor
3) **Cooling Capacity:** 6250 W
4) **Star Rating:** 5 Star
5) **Color:** White
6) **Voltage:** 230 V | 05 |

| | | 7) **Frequency:** 50 Hz
8) **Refrigerant Gas:** R32
9) **Capacity:** 2 Ton
10) **Display Type:** Hidden Display
11) **Noise Level:** 46 dB
12) **Power Consumption:** 1780 W
13) **ISEER:** 4.62
14) **Remote:** Yes
15) **Annual Energy Consumption:** 1048.16 KWH
16) **Condenser Coil Material:** Copper
17) **Technology:** 6 In 1 AC With Flexicool Technology Inverter
18) **Product Dimensions:** 1045 x 315 x 235 mm
19) **Nominal Current:** 8.6 Amp
20) **Wi-Fi:** Yes
21) **Stabilizer:**
   • **Capacity:** 15 Ampere
   • **Working Range (Input):** 130 V to 280 V
   • **Application:** One Inverter AC Up to 2 Ton or 24000 BTU/Hour.
22) **Warranty:** 5 year warranty on compressor and post sale maintenance & service up to 2 years.
23) The product should be installed by certified technician/engineer. | |
| 15. | Xerox Machine with Wi-fi connection | 1) **Print & Copy Speed:**
   • A4: 25 pages per minute (ppm)
   • A3: 12 ppm
   • Warm-up Time: ~ 13.1 seconds from low power mode
2) **Paper Size & Weight:**
   • Cassette: A5R-A3, 60-163 g/m²
   • Bypass: 100 x 148 mm - A3, 60-209 g/m²
3) **Paper Capacity:**
   • Cassettes: 1 x 250 sheets
   • Bypass: 1 x 100 sheets
   • Maximum: 2,900 sheets
   • Inner Output Tray: 550-sheet capacity
4) **Automatic Duplex:**
   • A5R-A3, 60-163 g/m²
5) **Controller Type:**
   • Toshiba e-BRIDGE Next
6) **Control Panel:**
   • 26 cm (10.1") Multi-Touch Colour Panel
7) **Memory:**
   • SSD: 128 GB
   • RAM: 4 GB
8) **Interface:**
   • 10Base-T/100Base-TX/1000Base-T
   • High Speed USB 2.0
   • WLAN (IEEE802.11b/g/n)
   • Bluetooth
   • Wi-Fi Direct
9) **Dimensions & Weight:**
   • 575 x 586 x 662 mm (W x D x H)
   • ~57 kg
10) **Print Specifications**
   • **Resolution:**
   • 600 x 600 dpi, 3 bit
   • 1,200 x 1,200 dpi, 2 bit (1,200 x 2,400 dpi with PostScript driver only)
   • **Page Description Languages:**
   • PCL5e, PCL5c, PCL6 (PCL XL), XPS, PDF, PS3, JPEG
   • **Supported Systems:** | 01 |

- Windows 11/10/8.1
- Windows Server 2022/2019/2016/2012 R2/2012 (64 bit)
- Mac OS 10.12-12
- Linux/Unix, Citrix, SAP, AS/400
- **Network Protocols**:
- TCP/IP (IPv4/IPv6), NetBios over TCP/IP
- **Colour Modes**:
- Auto-Colour (ACS), Colour, TWIN Colour, Monochrome
- **Mobile Printing**:
- e-BRIDGE Print & Capture, Mopria® Print Service, AirPrint on iOS or macOS
- **Print Functions**:
- Universal Printer Driver, Driver Templates, Driver plug-ins, Print from USB, Hold Print, Tandem Printing, E-Mail direct printing

11) Copy Specifications
- **Resolution**:
- Scan: 600 x 600 dpi
- Print: 600 x 600 dpi, 3 bit, equiv. 2,400 x 600 dpi with smoothing (monochrome only)
- **First Copy Output Time**:
- Colour: ~ 9.5 seconds
- Monochrome: ~ 7.1 seconds
- **Zoom**:
- Platen: 25-400%
- RADF: 25-200%
- **Copy Modes**:
- Text/Photo, Text, Photo, Custom
- **Copy Functions**:
- Electronic Sort, Rotate Sort, ID Card Copy, Edge Erase, 2-in-1 / 4-in-1 mode

12) Fax Specifications
- **Communication**:
- Super G3, G3 (optional 2nd line), Internet Fax T.37
- **Transmission Speed**:
- ~ 3 seconds per page
- **Compression**:
- JBIG, MMR, MR, MH
- **Fax Memory**:
- 1 GB Transmission/Reception
- **Incoming Fax Routing**:
- To shared folders (SMB, FTP), E-Mail, e-Filing

13) Scan Specifications
- **Resolution**:
- Max. 600 x 600 dpi
- **Scan Speed**:
- Reversing Automatic Document Feeder: up to 73 ppm (300 dpi) in colour and monochrome
- **Scan Modes**:
- Auto-Color (ACS), Color, Grayscale, Monochrome
- **File Formats**:
- JPEG, Multi/Single Page TIFF/XPS/PDF, Secure PDF, Slim PDF, PDF/A, PDF/A-2, Searchable PDF, DOCX, XLSX
- **Scan Functions**:
- WS Scan, Scan to USB, Scan to E-Mail, Scan to File (SMB, FTP, FTPS, Local), Meta Scan, OCR scan, Scan to Box (e-Filing), WIA, TWAIN

14) System & Security
- **Device Management**:
- Top Access for remote administration and configuration

		• **System Features**: • e-Filing document server, Document distribution, Print-on-Demand, 12,060 one-touch templates, Scan/Fax Preview, Rip-while-Print, e-BRIDGE Open Platform, Embedded Web Browser • **Accounting & Security**: • Role Based Access, LDAP support, 1,000 department & 10,000 user codes, Card Reader, Private Print, Data encryption, IP and MAC address filter, Port Filter, Support of SSL and IPsec protocols, CC certified (ISO/IEC15408) **15) Options** • **Reversing Automatic Document Feeder**: • 100-sheet capacity • **Paper Feed Unit**: • 550-sheet capacity • **Large Capacity Feeder**: • 2,000 sheets • **Inner Finisher**: • 2 trays, 600-sheet capacity • **Saddle Stitch Finisher**: • 2 trays, 3,250-sheet capacity • **Hole Punch Unit**: • Available in 2 holes (E), 4 holes (F), 4 holes (S) • **Security Solid State Drive**: • 512 GB • **Wireless LAN/Bluetooth Module**: • Includes Wi-Fi Direct **16) Various Enablers and Licenses**: • Including IPsec, Multi Station Print, Meta Scan, Unicode Font, and Hard Copy Security Kit. **17)** Warranty: 2 Years Onsite Warranty. **18)** The product should be installed by certified technician/engineer.		

16.	Computer 10th Generation with all accessories	1) **Form Factor:** All-in-One
		2) **Color:** White
		3) **Dimensions**
		  • **Item Height:** 43.4 cm
		  • **Item Width:** 54.1 cm
		  • **Standing Screen Display Size:** 23.8 Inches
		  • **Screen Resolution:** 1920 x 1080 pixels
		  • **Product Dimensions:** 18.5 x 54.1 x 43.4 cm
		  • **Item Weight:** 7.03 kg
		4) **Processor**
		  • **Processor Type:** Core i3
		  • **Processor Speed:** 4.4 GHz
		  • **Processor Socket:** FCBGA1744
		5) **Memory**
		  • **RAM Size:** 8 GB
		  • **Memory Technology:** DDR4
		  • **Maximum Memory Supported:** 16 GB
		6) **Storage**
		  • **Hard Disk Description:** SSD
		  • **Hard Drive Interface:** PCIe x 4
		6) **Audio and Graphics**
		  • **Speaker Description:** Stereo speakers
		  • **Graphics Coprocessor:** Integrated Graphics
		  • **Graphics Chipset Brand:** Intel
		  • **Graphics Card Description:** Integrated
			04	

		• **Graphics RAM Type:** Shared
		• **Graphics Card Interface:** Integrated
		7) **Connectivity**
		  • **Connectivity Type:** Bluetooth, Wi-Fi
		  • **Wireless Type:** Bluetooth
		  • **Number of USB 2.0 Ports:** 2
		  • **Number of USB 3.0 Ports:** 2
		8) **Operating System**
		  • **Hardware Platform:** Windows
		  • **Operating System:** Windows 11 Home
		9) **Batteries Included:** Yes
		10) **Included Components:**
		  • User Manual
		  • Wireless Keyboard
		  • Power Cable
		  • Wireless Mouse
		  • All-in-One (AIO)
		11) **Weight Item Weight:** 7 kg 30 g
		12) **Warranty:** 2 years onsite warranty.
		13) The product should be installed by certified technician/engineer.	

17.	**Color Printer**	1) **Product** Dimensions: 58.1D x 43.4W x 25.9H Centimeters 2) **Controller** Type: iOS, Android 3) **Printer** Media Size Maximum: 8.5 x 14 inch 4) **Print** media: Envelopes, Paper (plain), Glossy photo paper 5) **Scanner** Type: Flatbed 6) **Max** Input Sheet Capacity: 100 7) **Max** Copy Speed (Black and White): 12 ppm 8) **Compatible** Devices: Smartphone's, PC, LAPTOP 9) **Sheet** Size: 8.5 x 11 10) **Duplex:** Manual 11) **Hardware** Interface: USB 2.0 12) **Resolution:** 1200 x 1200 13) **Additional** Printer functions: Copy 14) **Control** Method: Touch 15) **Form** Factor: Copy Print Scan 16) **Connectivity** Type: Wi-Fi 17) **Operating** System: Android, iOS, Windows 10, Windows 11, Windows 7 18) **Are** Batteries Included: Yes 19) **Item** Weight: 5 kg 30 g 20) **Warranty:** 1 year.	01

18.	**SEM-EDXA**	1. Resolution atleast 1.2nm at 30 kv or 1.5 kv at 15 kv and 3.0 nm at 1 Kv)
		2. Magnification 50X to 500,000 X or better
		3. Acceleration Voltage 0.1 to 30 Kv (or better)
		4. Chamber large chamber with at least 7 accessory ports. Anti vibration table must be inbuilt.
		5. Probe current 1 nA to 1μA or better suitable for all applications.
		6. Detectors-
		  (a) high sensitive Everhart- Thornley SE detector
		  (b) I-Lens SEI detector for high-resolution imaging in high vacuum at low kV or low vacuum/variable pressure mode.
		  (c) IR-CCD camera
		  (d) High resolution state of art back scattered detector (BCD) for using both in high vacuum and variable pressure.
		  (e) The detector should have the capability of high sensitivity for low KV
			01

analysis.

    (f) Specify built in automatic/ manual control for contrast and brightness.

7. Electron Gun thermionic emission type – tungsten source
8. User interface keyboard, Mouse, Control panel with multifunction for the control and adjustment of frequently used SEM parameters.
9. Electron optics beam deceleration technology or equivalent for high-resolution imaging at low Kv. Ease of operation is desired.
10. Vacuum system fully automated microprocessor- controlled vacuum system
    (a) Suitable vacuum system equipped with ion pumps, turbo molecular pumps & rotatory pump.
    (b) chamber pressure better than 10-4 Pa/4×10-6 mbar
    (c) Pump downtime should be less than 5 min
11. Digital imaging and processing it should have the following capabilities:
    (a) design of the imaging and processing should be optimized for SEM-EDX electron microscopy
    (b) Image frame size: selectable up to pixel density of 4096 x 3536 or better
    (c) Image post processing
    (d) 4 Detector inputs and signal mixing or above, extendable up to 8 detect or inputs.
     Image Display
    a. 22" high end TFT flat Screen or better
    b. Standard data zone include magnification, working distance, scale bar and date custom data zone.
    c. Multiple point-to-point and line width measurement system freely adjustable for orientation.
    d. Line profile display.
    e. Image can viewed live, averaged or integrated.
     Image storage
    a. 1 TB hard disk or better
    b. front-panel USB ports CD/DVD recorder.
    c. storage of SEM image on the hard disk in standard TIFF, BMP, or JPEG formats and in 8- bit or 16-bit depth.
    d. operating conditions easily stored and file management through Microsoft windows operating system.
12. Essential accessories.
    a. chiller.
    b. compressor.
    c. interface among, SEM EDX/EDX.
    d. 3 spare Filaments.
    e. 20 number of single stubs and 10 number of multiple sample holders.
13. Integrated EDX/EDS
    a. LN2 free SDD detector with 30 mm² crystal area and 130eV resolution or better.
    b. the elements detection range should be from Beryllium (Be) to Uranium (U).
    c. The EDX?EDS should be capable of selective element mapping, line scan selected area analysis, quantitative analysis, qualitative analysis, multi points analysis.
    d. Supplied EDX/EDS server & analysis software should be capable of performing data acquisition =, storing and transfer in common windows based application format, qualitative & quantitative analysis, line scanning, elemental or dot mapping(area) including spectrum imaging and phase mapping with specimen drift correction.
    e. Thin-film analysis software with nanometer-scale resolution in both space and depth capabilities should be quoted.
15. Warranty, Training and Support.
    a. Three years of comprehensive warranty.
    b. Necessary on- site training must be provided.
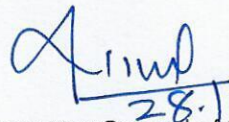16. The product should be installed by certified technician/engineer.

No.	Item	Specifications	Qty
19.	**Modern Bullet Recovery Box with protection shield**	1. The instrument must be capable of recovery of bullets fired from all types of: **Dimension**: Length 15 feet×1.5 feet ×1.5 :- With five separate channel each 3 feet (1 meter each). Five separate modules can be attached or detached anytime. Length is variable of 1 meter each length. From 1 m to 5 m modular type. The instrument must be environmentally safe. 2. It should have provision to protect the shooter from eject cartridge. 3. Bullet proof glass protection shield should be part of equipment. 4. Bullet trap media- non destructive material. 5. The instrument must possess highest degree safety, durability and convenience. **6. Light weight to enable portable handling with castor wheel and lock facility.** 7. Quick shoot & collect time with five separator unit. 8. Portability: easy to move anywhere within the range. 9. Material with rust proof: complete unit is coated with rust proof paint. 10. Good quality rubber lining inside box to avoid damage of bullets. 11. Fire fighting unit for safety against fire. 12. Reference of supply to FSL unit along with satisfactory acceptance report is must. 13. Warranty: 3 years. 14. The product should be installed by certified technician/engineer.	01
20.	**Ballistic Boroscope**	1. Cable 2m/6.56 ft. 2. Cable type Flexible. 3. Cable diameter 2.8 mm/ .11 inch. 4. Degree of protection IP 67. 5. Field of view 5...50 mm/0.2...1.98 in. 6. Field vision 120°. 7. Perspective 0°. 8. Lighting 4 LED. 9. Exposure Automatically. 10. Anti-reflective coating Automatically. 11. Image sensor 1/18° CMOS. 12. Camera resolution/image sensor 400 × 400 px. 13. Display 5" TFT screen. 14. Interface Micro USB, HDMI. 15. Storage option image and video. 16. Storage option Micro SD memory card. 17. Picture format JPEG (400x 400Px) 18. Video format MP4 (400x 400Px) 19. Video output HDMI 20. Menu Navigation English. 21. Operating and Storage temperature 10...50°C/14....122°F. 22. Power Supply 3.7 V li-ion battery, 5200 mah. 23. Battery life Min 6 h. 24. Dimension 200x130x58mm/ 7.9x5. 1x2.3 inch. 25. Weight 595 g/1.3 lb 26. Warranty: 3 years. 27. The product should be installed by certified technician/engineer.	01
21.	**Dehumidifier**	1. Capacity (Litres per day) @ 30 C and 80%RH:- 20 litres. 2. Control Panel:- Soft key 3. Digital Humidity Display:- Yes 4. Water Full Indication:- Yes 5. Automatic Shut off:- Yes 6. Automatic Defrost:- Yes 7. Air Filter- Electrostatic/Active Charcoal 8. Bucket Removal:- Front Access	03

		9. Air Inlet:- Back 10. Air Outlet:- Top 11. External Drain Connector:- Yes 12. Handle:- Moveable 13. Tank volume (Litres):- 4.6 Approx 14. Noise level (db):- 51/29 (high/Medium) 15. Working Environment:- 5 to 35 C 16. Voltage:- 220-240V/50Hz 17. Warranty: 3 years. 18. The product should be installed by certified technician/engineer.	

22.	Desktop Bluetooth and PC Connectable Label Printer with colour LCD display	1) Keyboard: QWERTY
		2) Display Type: 20-character x 2 lines
		3) Media Type: TZe tape
		4) Available Tape Widths: 3.5mm, 6mm, 9mm, 12mm, 18mm, 24mm
		5) Dimensions (Width X Depth X Height): 202 mm × 87 mm × 199 mm
		6) Weight: 0.99 kg
		7) Print Speed: 30mm/sec
		8) Print Resolution: 180dpi
		9) No. Of Printable Lines
		24mm tape: 1 - 7 lines;
		18mm tape: 1 - 5 lines;
		12mm tape: 1 - 3 lines;
		9mm tape: 1 - 2 lines;
		6mm tape: 1 - 2 lines;
		3.5mm tape: 1 line
		10) Number of Characters: 1108
		11) Number of Symbols: 900
		12) Numbering: Yes (1 to 99)
		13) Connectivity: USB version 2.0 (Full Speed) (Micro B), Bluetooth
		14) Maximum Tape Width: Up to 24 mm
		15) Functions
		   • Cutter: Auto
		   • Multi Block Printing: Yes
		   • Copy Printing: Yes
		   • Mirror Printing: Yes
		   • Preview: Yes
		16) Memory
		File Storage: Up to 99 files
		Memory Buffer Size: Up to 280 characters
		17) Power
		   • Power Source: 6 pcs of AA alkaline batteries (LR6), 6 pcs of AA Ni-MH batteries (HR6), or AC Power adapter (AD-E001A)
		   • Auto Power-Off: Battery: 5 min
		AC adapter: 8 hours
		18) Warranty: 3 years.
		19) The product should be installed by certified technician/engineer.
			01

23.	**Printer Cartridge**		
	(i) ProDot (PL) H-388	Controller Type- Manual Special Feature- Page Yield Page Yield - 1500	05
	(ii) Epson L3210 Ecotank (Cyan, Magenta, BK, Yellow) cartridge	• High Yield & Easy to refill -- 7500 Pages/Black , 6000 Pages/Colors per Ink Cartridge at 5% coverage • Quink High Resolution Inks- Replacement for EP 003 Inks	03 (5X3)= 15 sets

		• Premium Quality Ink Tank Inks Suitable For Direct Filling in Eco Tanks • No Head Clogging or Blockage • Inks in the Set are Black, Cyan, Yellow & Magenta (Each 70g Dye ink) • Small effort, big impact High-quality black for everyday printing. Performance and value for your reports, invoices and spreadsheets	
	(iii) Brother HL-L 232.1d	Dimensions: 27 x 5.5 x 8 cm Weight: 630 g Special Features: High Yield Wattage: 50 Watts	05
	(iv) Epson Ecotank L3210	Compatible With: Eco Tank L1110, L3100, L3101, L3110, L3115, L3116, L3150, L3151, L3152, L3156, L5190 Sales Package: 1 Ink Bottle Net Quantity: 1 Ink Bottle	05
	(v) Laserjet pro M 202dw	Controller Type: Remote control Special Feature: High yield Item Weight: 790 g Wattage: 50 Watts	05
	(vi) HP Laserjet M 1005 MPF	Compatibility Options: Compatible Special Feature: Maximum Page yield, High Quality Printing, Reliable Solution, Eco Friendly, Excellent fastness rate Page Yield: 2000 Item Height: 11.5 Centimeters Item Width: 29.5 Centimeters Product Dimensions: 9.5 x 29.5 x 11.5 cm; 580 g	05
	(vii) HP Laserjet Pro MFP M 12600 Cartridge Model No. 88A	• Cartridge Color – Black b. Print Technology – Laser c. Page yield, Black and white- 1500 pages. d. Product Info:- Sku CC388A e. Product Type:- Standard Capacity Toner Cartridge.	05
	(viii) Toner Cartridge for brother Printer (Black & White) Cartridge M/No. TN 2365	Brand – Brother b. Model No. and name – TN 2365 c. Colour – Mono/Black d. Printer Output Type – Monochrome e. Printing Technology – Laser f. Controller Type – Compatible g. Special feature – High yield h. Page Yield – 2600	05
	(ix) Epson L 3212 Ink	Model Name: Eco Tank L1110 Brand: Epson Ink Colour: Black Page Yield: 3000 Compatible Devices: Printer Special Feature: Water Resistant Compatibility Options: Compatible Colour: Black Compatible with L1110, L3100, L3101, L3110, L3115, L3116, L3150, L3151, L3152, L3156, L5190 Epson Printer Models	05
	(x) Lasejet Pro MFP M183fw Toner Cartridge	Compatible With: MFP M183fw, M182n, MFP M182n	06
	(xi) Pantum M 6502	Product: JK Toners PC 210E Toner Cartridge	10

24.	Mini centrifuge with rotor	1. Mini centrifuge 10000rpm with 8X1.5ml and 0.5 ml MCT and PCR strip rotor head. 2. Warranty: 3 years. 3. The product should be installed by certified technician/engineer.	01
25.	UPS 3KVA online half & hour backup	1. Online UPS 3KVA, 72V 1PH:1PH 2. Input: 230VAC, 50/60Hz, 13.6A. 3. Output: 230VAC, 50/60Hz, 13.0A 4. Capacity: 3KVA/2700W 5. DC BUS Rating: 72V DC, 45A 6. Max. Temp: 45C 7. External batteries: 06 nos. of External batteries of 12V, 42Ah each 8. Battery stands to be provided by supplier. 9. Warranty: As per company norms. 10. The product should be installed by certified technician/engineer.	05
26.	One Desktop with latest configuration for Question division with color printer	1. Processor : 13th Gen Intel Core i5 2. Operating System: Windows 11 Home 3. Monitor: 27" FHD, 1920 x 1080, IPS Non Touch, Infinity Edge, Narrow Border. 4. Memory: 16GB, DDR4 5. Storage:- 512 GB SSD 6. Microsoft Office: Microsoft Office Home and Student 2021. Original software CD is provided by the supplier. 7. Software Service: 1 year basic onsite service to be valid from the date of installation at FSL. 8. Keyboard: Wireless keyboard and mouse. 9. Ports: USB ports (min- 04 nos.), HDMI ports (HDMI in and HDMI out), power adapter port, Ethernet port, universal headset jack. 10. Power: 90 W AC adapter, 4.5mm barrel, 130W AC adapter, 4.5mm barrel. 11. Stand: Triangle stand, aluminium or zinc 12. UPS: 1 KVA offline UPS to be provided by the supplier. 13. Installation support: to be provided by the supplier at FSL PTC Banderdewa. 14. Printer: Black and white LaserJet printer with print, copy and scan facility. 15. Warranty: As per company norms. 16. The product should be installed by certified technician/engineer.	01
27.	Vintage High Back Ergonomic Revolving Chair	Spine pro cushion lumber support, super lounge dual tilt mechanism with heavy duty base structure	16
28.	Almirah (Big)	W x H x D: 134.874 mm x 194.818 mm x 505.46 mm (5 in x 7 in x 1 ft 7 in)	08
29.	Almirah (Small)	W x H x D: 900 mm x 1950 mm x 507 mm (2 ft 11 in x 6 ft 4 in x 1 ft 7 in)	08
30.	Fabric Armed Chairs	Head Support W x H: 51 cm x 130 cm (1 ft 8 in x 4 ft 3 in)	78
31.	Executive Table	Material: Plywood Configuration: L-shaped Height x Width: 74 cm x 177 cm (2 ft 5 in x 5 ft 9 in)	16
32.	Office Table	Sturdy build quality suitable for office use with drawers and cabinets attached 1 year warranty.	12
33.	Regent office Chair Black color	Adjustable headrest and lumber support office chair with adjustable armrest and high back support.	10

34.	Desire C104 Mid Back comfortable fabric office chair	Wheels, Armrest, Adjustable Seat Height, Swivel W x H: 46 cm x 89 cm (1 ft 6 in x 2 ft 11 in) Frame Material: Engineered Wood	24
35.	DG Set 57 KVA with installation, cabling, earthing and shed	Power Rating (Kva/Kw)= 57/45.6 No of Phases=3 Current in Amps= 86.95 Engine Gross power (HP)= 74.1 Fuel Type: Diesel Usage/Application: Power Noise Level: Silent or Soundproof Voltage: 415-440V Frequency: 50 Hz Starter Motor Rated Voltage (DC): 24V Oil Cooler: Water Cooled Warranty: 3 Years Onsite Warranty. The product should be installed and commissioned by certified technician/engineer. Including construction of base/foundation and tin shed for installation of DG set.	01

28.11.24

Asstt. Inspector General of Police (E),
Police Headquarters, Itanagar
Arunachal Pradesh

**Asstt. Inspector General of Police(E)
Arunachal Pradesh
Itanagar**