

पुलिस महानिदेशक का कार्यालय, बिहार, पटना

पटना, दिनांक- 24/12/19

सेवा में,

निदेशक,

सूचना एवं जनसम्पर्क विभाग,

बिहार, पटना।

विषय- अल्पकालीन निविदा आमंत्रण सूचना सं०-36/2019-20 के प्रकाशन के संबंध में।

निदेशानुसार उपर्युक्त विषय के संबंध में अल्पकालीन निविदा आमंत्रण सूचना सं०-36/2019-20 की प्रतियाँ भेजते हुए अनुरोध है कि इसे राज्य एवं राज्य से बाहर के प्रमुख समाचार पत्रों में (अंग्रेजी एवं हिन्दी) के अगले दो संस्करणों में प्रकाशित कराने की कृपा की जाय साथ ही पी०आर०डी० वेबसाइट पर भी प्रसारित करने की कृपा की जाय।

इस निविदा आमंत्रण सूचना का प्रकाशन किन-किन समाचार पत्रों में किया गया इसकी सूचना देने की कृपा की जाय।

अनु०-यथोपरि।

पुलिस महानिरीक्षक के सहायक (क्यू०),  
बिहार, पटना

प्रतिलिपि:-

1. आई०टी० मैनेजर, पुलिस महानिदेशक का कार्यालय, बिहार, पटना को कृपया सूचनार्थ। कृपया इसे आज ही वेबसाइट पर अपलोड किया जाय। साथ ही Indian Trade Journal, Kolkata के अंक में प्रकाशन हेतु Government of India, the Controller of Publications, Civil Lines, Delhi : 110 054, (Tel No. 011-23812527, FAX : 011-23817846), Email Id-sk.mondal.dgcis@nic.in के पतेपर भी अनिवार्य रूप से भेजा जाय।
2. Government of India, the Controller of Publications, Civil Lines, Delhi : 110 054, (Tel No. 011-23812527, FAX : 011-23817846), Email Id- sk.mondal.dgcis@nic.in को कृपया सूचनार्थ एवं आवश्यक क्रियार्थ प्रेषित। अनुरोध है कि उक्त निविदा का प्रकाशन Indian Trade Journal, Kolkata के अंक में करने की कृपा की जाय।

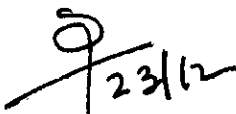
पुलिस महानिरीक्षक के सहायक (क्यू०),  
बिहार, पटना

**Police Headquarters, Bihar, Patna**  
**Notice Inviting Short Tender No.-36/2019-20**

1. Name of the Department: Office of Director General of Police, Bihar, Patna.
2. Last date & time for the acceptance of the short tender : ~~12~~ 13/01/2020, Till 02:00 PM
3. Date & time fixed for the opening of the short tender : ~~12~~ 13/01/2020, At 04:00 PM
4. Place fixed for receiving & opening the tender : Office of Director General of Police, Bihar, Patna.
5. Details of Job:

S.N.	Item name	Quantity
1	High End Forensic Workstation	01
2	Forensic Duplicator	01
3	Write Blocker Kit	01
4	Artifacts Analysis tool for hard disk	01
5	Social Media Analysis Tool	01
6	Forensic Tool Kit	01
7	Password Recovery Tool Kit	01
8	Software for forensic extraction of Mobile, PDA, Drone, Tablets with Simultaneous extraction Option	01
9	Software for Data extraction of Mobile GPS, PDA, Drone, Tablets, Chinese Phones with Cloud based data extraction	01
10	Macquisition & Analysis Tool with Imac	01
11	Video Forensic Tool Kit	01
12	Video Acquisition Tool Kit	01
13	Disk Analysis Software	01
14	Email Examiner tool	01
15	Desktop	25
16	Laptop	07
17	Cell ID Grabber	01
18	Stegno hunt Software	01
19	Offline Printer	01
20	Big Size Led Touch Screen	01
21	UPS	01
22	Podium with I Panel and Visulizer	01

Specifications and other terms & conditions of the tender may be obtained in person from this office or may be downloaded from the website [www.prdbihar.gov.in](http://www.prdbihar.gov.in) or [www.biharpolice.bih.nic.in](http://www.biharpolice.bih.nic.in).

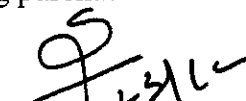
  
 23/12  
 AIG (Q)  
 Bihar, Patna

## **Terms & Conditions of Short Tender No.-36/2019-20**

128

1. The tender should be submitted in two parts: (i) Technical Bid and (ii) Financial Bid, duly sealed in two separate envelopes super-scribed as "Technical Bid" and "Financial Bid".
2. All relevant papers/ E.M.D./certificates/specifications etc. of items should be enclosed in the Technical Bid.
3. The rates of the items shall be quoted in the Financial Bid only.
4. All charges like IGST/CGST/SGST etc. shall be clearly mentioned in the Financial Bid and the net rate (in figures and words) including all taxes and duties must also be quoted. Vague offers like indicating taxes "as applicable" will not be accepted.
5. The rates of the items shall be quoted in the Financial Bid in two parts :  
(i) With AMC (Annual Maintenance Contract) and (ii) Without AMC
6. There should be no cutting, over writing or correction on the rates.
7. The technical and financial bids for each item should be submitted separately in separate envelopes. The technical and financial bids for more than one items submitted together in the same envelope shall not be accepted.
8. If the financial bid is submitted in the same envelope containing the technical bid then also it shall be summarily rejected.
9. The technical and financial bids should be put in two separate sealed envelopes and the envelopes should be marked Short Tender No-36/2019-20 (Technical Bid) and Short Tender No-36/2019-20 (Financial Bid) along with the name and address of the firm. The sealed envelopes containing the technical and the financial bids should be sent in another sealed envelope which should be marked as Short Tender No-36/2019-20. **This envelope should not bear the name and address of the firm.**
10. Income Tax Returns of last three years, a photocopy of GST registration number of the participating firm and turn-over of any two of the previous three financial years should be submitted with the technical bid. It should be specifically mentioned whether IT return has been filed manually or electronically.
11. The turnover of the firm for the last reported financial year should be at least equal to the amount of the supply order which is being issued. A copy of the profit and loss Account of the firm for any two of the previous three financial years, certified by a Chartered Accountant should be submitted along with the tender. If the tenderer is authorized dealer or authorized supplier of manufacturing firm, then the certified details of the turnover of authorizing firm may be accepted. Tender specific authorization from the OEM must be submitted, but in certain cases where authorization from OEM is not required, the Technical-cum-User committee (T.U.C.) shall decide about exemption (if any) on a case-by-case basis; citing appropriate reasons for the same.
12. If there is some discount in the price of any item, it should be deducted from price itself and such discounts should not be quoted separately.
13. If the product is available on DGS & D rate contract, then a copy of the contract must be attached and pricing be done including all taxes.
14. A copy of the test report for the product issued by any established and recognized private Laboratory or by agency accredited by the Government should be attached with the technical bid. However if required, the Technical-cum-User committee (T.U.C.) can take decision regarding exemptions/relaxations (if any), citing appropriate reasons.
15. In case of Bullet Proof/Bullet Resistant items, test report of TBRL or any Government Approved/Recognized Laboratory is compulsory.

- 127
16. Firms participating in this tender shall also submit duly sworn affidavit to the effect that " this firm has not been black listed/debarred by any Government or Semi Government or Private Agency and no sister concern of this firm is participating in this tender."
  17. Firms participating in this tender shall also submit the self attested list of users of its equipments.
  18. All items shall be received at Central Clothing Store, Patna; therefore price should be quoted FOR Central Clothing Store, Phulwari Sharif, Patna.
  19. Firms will have to deposit a sum of Rs. 50,000/- (Fifty Thousand) only as an earnest money deposit in the form of Bank Draft duly pledged in favor of the undersigned along with the quotations. The small scale units located in Bihar shall not be liable to deposit earnest money. Exemption from submitting E.M.D. will also be available to those who are registered with the Central Purchase Organization/State Purchase Organization and National Small Industries Corporation (NSIC).
  20. Technical Bids will be opened on scheduled date and time in the office chamber of Police Headquarter. Representatives of the firms competing in the tender may remain present at the time of opening of the technical bid.
  21. The technical bids will be opened first and placed before the Technical Committee of the Police Headquarters, Bihar. If the technical bids are found satisfactory as per tender conditions, it will be put before Central Purchase Committee of the Police Headquarters, Bihar. The firms may be required to participate in the demonstrations of the quoted product and discussions with this committee.
  22. Any paper/document will not be accepted after opening the tender.
  23. Successful firm will have to enter into an agreement after depositing a sum of 5% of the total value of the order as security money in the form of Bank Guarantee duly pledged in favor of undersigned.
  24. The firm will be required to provide satisfactory after-sales service after the delivery of the product.
  25. The firm will be required to supply all the items within the stipulated time frame as mentioned in the purchase order.
  26. Payment for the delivered items will be made only after the acceptance report of the Inspection Committee of the Police Headquarters, Bihar.
  27. The firm whose quotation is approved by the Central Purchase Committee of the Police Headquarters, Bihar, shall be invited to enter into an agreement with the undersigned.
  28. It is expected to submit the duly filled chart attached herewith, along with the technical bid if not the tender shall be summarily rejected.
  29. Indexing of the requisite documents must be done and submitted along with the technical bid.
  30. Hands on training for 3 weeks of the equipment must be imparted to the user group by the firm after successful installation.
  31. Director General of Police Bihar, Patna reserves the right to reject any or all the quotations partially or fully, without assigning any reason thereof.
  32. The Quantity indicated may increase or decrease at the time of issuing purchase order.
  33. The bids must be include the data sheet of individual item.

  
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S.No	Product Name	Technical Description
1.	High End Forensic Workstation with integrated Write Blocker	<ul style="list-style-type: none"> <li>Windows 10 Pro 64, MS office Latest with Pro-Discover Forensics Software pre-installed</li> <li>Power Supply: 1000 W</li> <li>Main board: Intel x299 Chip Set Workstation Edition</li> <li>CPU: Intel i9 12Core</li> <li>RAM: 64 GB DDR4 (max. up to 128GB)</li> <li>Graphic: 2080 8GB DDR5</li> <li>Display: 27" LED Dual Display</li> <li>Storage: OS-1TBM.2 NVMe SSD <ul style="list-style-type: none"> <li>TEMP- 1TB M.2 NVMe SSD</li> <li>DATA- 10TB SATA HDD</li> </ul> </li> <li>Integrated write blocker should have support for IDE/SATA/USB 3.0/PCIe/Firewire/SAS</li> <li>Should have forensic Memory Card Reader</li> <li>Security Toolkit for opening Desktop and Laptop</li> <li>Wireless Keyboard Mouse</li> <li>Solution should come with PCIe card SSD adapter, PCIe M.2 SSD adapter with suitable Cable.</li> <li>Must be provided with all the cables and accessories including IDE data cable, IDE power cable, SATA data cable, SATA power cable, SAS unified cable, 1.8" hard drive adapter, 2.5 hard drive adapter, Micro Sata adapter, USB3 cable, Blade type SSD adapter, ZIF adapter set, LIF adapter set)</li> <li>Firmware updates should be provided regularly during the Warranty Period</li> <li>Bidder should provide OEM authorization for the same project.</li> <li>Digital Camera</li> <li>36 months of warranty.</li> </ul>
2.	Forensic Duplicator	<ul style="list-style-type: none"> <li>Features: <ul style="list-style-type: none"> <li>- Images SATA, USB 3, PCIe, SAS, FireWire 800, IDE, and network shares</li> <li>- Outputs to SATA, USB 3, SAS, and network shares</li> <li>- Supports up to two active "forensic" jobs at a time (simultaneous imaging)</li> <li>- Up to four destinations per source with the ability to mix clone/image duplication and local/network destinations</li> <li>- Job queuing option for efficiency and convenience <ul style="list-style-type: none"> <li>Media Utility options: <ul style="list-style-type: none"> <li>- View drive details</li> <li>- Wipe</li> <li>- Format</li> <li>- Blank Check</li> <li>- View &amp; disable HPA/DCO</li> <li>- Whole disk encryption</li> <li>- View S.M.A.R.T.</li> <li>- Eject media</li> </ul> </li> </ul> </li> <li>12 months Warranty and firmware updates</li> </ul> </li> </ul>
3.	Write Blocker Kit	<ul style="list-style-type: none"> <li>Able to provide a write block environment by way of simplex transfer of data with suitable support to vivid data interfaces viz., IDE, SATA, SCSI, Micro SATA, e-SATA, Combined SATA, ZIF, USB 2/3, FireWire etc.,</li> <li>12 months Warranty and firmware updates</li> </ul>
4.	Artifacts analysis	<ul style="list-style-type: none"> <li>Native image support for E01, Ex01, L01, Lx01, dd and dmg format</li> </ul>

	tool for hard disk	<ul style="list-style-type: none"> <li>• Social networking applications like Facebook and Twitter.</li> <li>• Webmail applications like Gmail and Hotmail / Outlook.com.</li> <li>• Instant messenger &amp; chat applications like Google Talk and iChat.</li> <li>• P2P file sharing applications like Ares and eMule.</li> <li>• Web browser activity from Internet Explorer, Firefox, Chrome, Safari and others.</li> <li>• Refined browsing results like rebuilt web pages and Google Maps queries.</li> <li>• Pictures and videos with EXIF data.</li> <li>• Searches entire logical or physical drives: E01,Ex01,L01,Lx01 and dd images</li> <li>• Searches Files including the pagefile.sys, hiberfil.sys, and more</li> <li>• Ability to search multiple drives, images, file &amp; folders in a single search</li> <li>• Use “Quick Search” preset to see what’s there and focus the investigation</li> <li>• Review results in real-time without having to wait for search to complete</li> <li>• Target search by artifact type, keyword and location on hard drive</li> <li>• Refine search results by skin tone &amp; body part detection</li> <li>• Multi-threaded support for multi-core processors improving search speed</li> <li>• Rebuild web pages in their original format on the date they were visited</li> <li>• Parsed search queries for user keyword searches on major search engines</li> <li>• Search, filter, and bookmark important evidence</li> <li>• Export report in html, pdf, excel, csv, and tab- delimited formats</li> <li>• Recover Business &amp; OS artifacts such as corporate email and instant messaging artifacts, MS Office documents including .pdf, .doc, .docx, .xls, .xlsx, .ppt, .pptx and operating system artifacts like USB device history, prefetch files, shell bags and more.</li> <li>• Should Process and recover 500+ types of artifacts</li> <li>• Should automate all acquisition and processing tasks required to prepare evidence for analysis.</li> <li>• Capable of Efficiently analyze large volumes of data</li> <li>• Should Explore file systems and registry hives for greater insights</li> <li>• Solution version must be latest one</li> <li>• 36 months Warranty and updates</li> </ul>
5.	Social Media Analysis tool	<ul style="list-style-type: none"> <li>• Collect, authenticate search, review and electronic storage of social media content</li> <li>• Provides powerful and fast search, linked expression, instant search of embedded link</li> <li>• Can discover most of the social media like Facebook, twitter, Instagram, YouTube and different types of web mails like Gmail, Yahoo Mail,</li> </ul>

		<p>Outlook.com &amp; AOL Mail</p> <ul style="list-style-type: none"> <li>• Can access account credentials like User posts, User Info Private Message, Photos post from friends and more</li> <li>• Able to design last database of social networking contents relevant to the specific case</li> <li>• Able to perform automated searched across multiple accounts and sources, including linked content, often constituting the most relevant aspect of individual social media streams</li> <li>• Able to calculate MD5 hash values of individual social media items upon capture and maintained through export</li> <li>• Able to perform unified searches with the patented technology across multiple accounts and social media streams from a single interface</li> <li>• Maintains social media data in a searchable native format from collection through production</li> <li>• Product Offered should be of International Repute &amp; Brand</li> <li>• 36 months Warranty and updates</li> </ul>
6.	Forensic Tool Kit	<ul style="list-style-type: none"> <li>• Should support unmatched speed through distributed processing engines</li> <li>• Should have built in module to Create forensic images of suspected storage device in DD E01, SMART &amp; AFF format with authentication of MD5 and SHA1 hash</li> <li>• Should analyze registry of windows based machine to extract vital information like typed web address, USB device information, saved passwords, OS install date, OS name and version etc</li> <li>• Should support email analysis of various email clients as: Outlook PST/OST, Outlook Express DBX, Exchange EDB, NSF, EML (Microsoft Internet Mail), Eudora, Thunderbird, Quick mail, Netscape, AOL etc</li> <li>• Should support RAM dump analysis.</li> <li>• Should use Oracle or Postgre SQL database in background to store large amount of data</li> <li>• Should have unique architecture providing better stability</li> <li>• Should be wizard-driven to ensure that no data is missed</li> <li>• Should have state-of-the-art data visualization to highlight relationships and patterns</li> <li>• Should utilizes a single case database, reducing cost and complexity of multiple case datasets</li> <li>• Faster learning with easy-to-use GUI</li> <li>• Should have distributed processing with a total of 4 engines</li> <li>• True multi-threaded / multi-core support</li> <li>• Pre- and post-processing refinement</li> <li>• Should have advanced data carving engine allowing user to specify criteria, such as file size, data type and pixel size to reduce the amount of irrelevant data carved while increasing overall thoroughness</li> <li>• Should create, import and export reusable processing profiles with pre-defined processing options for different investigative needs</li> <li>• Should Recover passwords from over 100+ applications</li> <li>• Should have KFF hash library with 45 million hashes</li> <li>• Should have advanced, automated analysis without the scripting</li> </ul>

		<ul style="list-style-type: none"> <li>• Should must be database driven so user won't experience any lost work associated with memory-based tools in the event of a GUI crash.</li> <li>• Unique distributed processing which cuts processing time and reduces case backlog.</li> <li>• Should process and index up front so user don't waste time waiting for searches to execute, resulting in helping user to zero in relevant evidence faster, and dramatically increasing analysis speed.</li> <li>• Leverages one shared case database, allowing teams to use the same data, reducing cost and complexity of creating multiple case datasets.</li> <li>• The easy-to-use GUI provides a faster learning experience.</li> <li>• Visualization technology that displays data in timelines, cluster graphs, pie charts, geo-location and more, helping user to get a clearer picture of events.</li> <li>• 36 months Warranty and updates</li> </ul>
7.	Password recovery tool kit	<ul style="list-style-type: none"> <li>• Should be able to recover password for 280+ file types MS Office, PDF, Zip and RAR, QuickBooks, FileMaker, Lotus Notes, Bitcoin wallets, Apple iTunes Backup, Mac OS X Keychain, password managers, and many other popular applications.</li> <li>• Should have support for Cloud data acquisition Acquires backups and data from cloud services (Apple iCloud, MS One Drive, and Dropbox). Extracts passwords from iCloud key chains.</li> <li>• Should have support for Analyzing live memory images, hibernation files and extracts encryption keys for FileVault2, True Crypt, Vera Crypt, BitLocker, logins for Windows &amp; Mac accounts from memory images &amp; hibernation files.</li> <li>• Should have support for Recovering passwords for Apple iPhone /iPad and Android backups as well as Android images and extracts data from images on Windows phones. Integrated with Oxygen Forensic Suite.</li> <li>• Should have support for Accelerated password recovery with multiple computers, NVIDIA and AMD GPUs, Tableau Password Recovery, and Rainbow Tables</li> <li>• Should be able to Detect all encrypted files and hard disk images and reports the type of encryption and the complexity of the decryption.</li> <li>• Should have Support for distributed password recovery for Windows, Linux, and Amazon EC2. The Linux version runs a portable Passware Kit Agent from a bootable Linux USB drive.</li> <li>• Should be able to Decrypt or recover passwords for Bit Locker, FileVault2, APFS, True Crypt, Vera Crypt, LUKS, McAfee, Apple DMG, Symantec and PGP disk images.</li> <li>• Instant decryption of LUKS volumes</li> <li>• Should have Support for LUKS AES XTS-ESSIV:SHA256 encryption</li> <li>• Should have Faster GPU-accelerated password recovery for iTunes backups</li> <li>• Should have Extraction of passwords from Mac OS High Sierra Key chains</li> <li>• Should have Brute-force password recovery option for Quick books databases</li> </ul>



		<ul style="list-style-type: none"> <li>• 36 months of warranty and updates</li> </ul>
8.	Software For Forensic Extraction Of Mobile, PDA, GPS, Drone, Tablets data with Simultaneous extraction option	<ul style="list-style-type: none"> <li>• Should be all in one mobile forensic system</li> <li>• Should combine both mobile phone logical and physical solution in one package</li> <li>• Should allow investigator full access to all the possible method to recover data from a mobile device</li> <li>• Should built software based solution ,complete with all necessary hardware for recovering data from mobile device in a secure manner and go deeper in to a mobile device to recover vital data</li> <li>• Should have a combination of logical and physical analysis tool available for supported device</li> <li>• Should produce a combine report containing both live and deleted data from the same handset</li> <li>• Should Perform simultaneous operations like extraction, decoding and analysis, on a single platform</li> <li>• Should include multiple mobile phone extraction capability simultaneously.</li> <li>• Should be able to recover deleted data e.g. contacts, image, SMS, emails, VOIP Call Data, video, GPS locations etc.</li> <li>• Should be able to decode mobile Apps such as Viber, WhatsApp, Skype, Facebook messenger, QQ, etc,</li> <li>• Extraction should supports acquisition of internal memory and removable media.</li> <li>• Should generate hex-dumps from the phone memory, typically by bypassing the device operating system</li> <li>• Physical extraction allows users to generate hash values of the memory image, as well as individually decoded files.</li> <li>• Should support GPS Device Physical extraction and Examinations</li> <li>• Should have Triage Mode</li> <li>• Should allow search of data either by specific parameters or open text</li> <li>• Should able to clone card Mini/Micro/Nano</li> <li>• Should have Write Protected Universal Memory Card Reader and you can analysis the same.</li> <li>• It should automatically generates an audit trail of the forensic process for peer review</li> <li>• It should recover VOIP call data, GPS mapping information and instant messaging logs</li> <li>• Should have Report Generator to generate and customize reports in different formats e. g. PDF, HTML, XML and Excel</li> <li>• Solution should extract data from three devices at a time.</li> <li>• Solution should come with USB Hub.</li> <li>• 36 months Warranty and updates</li> </ul>
9.	Software for data extraction of Mobile GPS, PDA, Tablet, Chinese Phones with Cloud based data extraction	<ul style="list-style-type: none"> <li>• Should be able to take logical &amp; Physical dump of all type of mobile devices from all type of manufactures of different OS based phones:</li> <li>• i) Generic phones</li> <li>• ii) Smart phones (Windows, iOS, Android, Palm, Blackberry etc.)</li> <li>• iii) Data extraction portable GPS devices</li> <li>• iv) Data extraction from Satellite Phones &amp; Analysis</li> <li>• iv) SIM Cards (with cloning Facility)</li> <li>• It should support data carving from unallocated space which enables to</li> </ul>

		<p>recover a greater amount of deleted data from unallocated space in the device's flash memory.</p> <ul style="list-style-type: none"> <li>• It should be able to take dump by bypassing pin locked and pattern locked smart phones (Android based, iOS, Windows OS based etc. of different manufacturers)</li> <li>• It should enable physical, file system and logical extraction and decoding from selected devices. Decoding of intact and deleted data: Phone book, SMS, and MMS, calendar entries, SIMID and more.</li> <li>• Should be able to recover the basic communication details like</li> <li>• Logical extraction of data: Apps data, passwords, IM (instant messaging), contacts, SMS &amp; MMS, emails, calendar, multimedia, call logs, phone details (IMEI/ESN), ICCID and IMSI, SIM location information (TMIS, MCC, MNC, LAC)</li> <li>• It should be able to run Python scripts via plugins, and edit and create new decoding chains</li> <li>• It should support image carving, a powerful feature used to recover deleted image file and fragments when only remnants are available.</li> <li>• It should perform on- demand searches for viruses, spyware, Trojans and other malicious payload sin files</li> <li>• It should enable visualizing of events over time, view distances between events and see the number of events within a defined times pan in a table/ graph view.</li> <li>• It should enable conversion of single or multiple locations to their corresponding address</li> <li>• It should support Viewing of all locations on a single map</li> <li>• It should enable viewing of extracted locations using offline maps even without an Internet</li> <li>• Connection. The offline maps should have an India version.</li> <li>• It should support advanced search Based either on open text or specific parameters It should support Quick search with in decoded data</li> <li>• It should enable viewing of communications between sources in date and time order</li> <li>• It should support hash verification to ensure the extraction decoded is the same extraction received from the device.</li> <li>• Decryption of WhatsApp encrypted history database</li> <li>• Decoding of Apps data, passwords, emails, call history, SMS, contacts, calendar,</li> <li>• Media files, location information etc.</li> <li>• It should physical extraction method from locked Android based devices by passing any type of lock (Pattern/ PIN/ Password) using proprietary boot loaders, enabling a forensic ally sound extraction process.</li> <li>• Physical extraction from android phones should be done, regardless of their OS version and should not require any permanent rooting.</li> <li>• It should also support Physical extraction and advanced decoding, via USB debugging for ALL Android OS versions. Physical extraction for any locked device should be available if the USB debugging has been switched on.</li> <li>• It should acquire apps data from Android devices via all extraction types</li> </ul>
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		<p>including :Face book, Face book Messenger, Google+, Ping Chat!(aka Touch), Skype, Twitter, Viber, Yahoo Messenger, Whatsapp, Tiger Text, Dropbox, QIP, Kik Messenger, Evernote, KakaoTalk, ICQ, V Kontakte.</p> <ul style="list-style-type: none"> <li>• Physical Extraction of Major Device Support should at least Include the following phones:</li> <li>• HTC – HTC Evo, HTC One M8, Incredible, Desire 310, Desire C</li> <li>• Huawei – Ascend, Honor 3x, 5 vision or latest</li> <li>• Motorola – Milestone, Milestone 2, Droid, Droid 2, Droid X, Droid Razr, Razr Maxx, Defy and more</li> <li>• Samsung – Galaxy S6, Galaxy S5, Galaxy S4, Galaxy SIII Family, Galaxy SII, Galaxy Note 4, Galaxy Note II, Galaxy Mega , Galaxy s5 duos, Galaxy alpha</li> <li>• LG – G4, G3, Optimus, Optimus one, Optimus 3D, Optimus black.</li> <li>• Indian Phones - Intex Aqua Core; Intex Cloud</li> <li>• Y5; Intex Aqua i7; Karbonn A12+; Karbonn A25; Xolo A500S ; A114R Canvas Beat</li> <li>• Sony – Xperia or latest</li> <li>• Micro-max upto latest model</li> <li>• Blackberry Phones</li> <li>• It should enable physical extraction and decoding from BlackBerry devices running on latest OS. Physical extraction should be performed using proprietary boot loaders, enabling a forensically sound process. Real-time decryption should be enabled.</li> <li>• It should support advanced decoding of existing and deleted data for preferably latest Blackberry OS versions</li> <li>• BBM history (if enabled by the user)</li> <li>• BlackBerry Messenger (BBM) messages including Deleted messages and chats, message attachments, contact photos, BBM from groups: Chats, contacts and shared photos</li> <li>• Recent email contacts (BB OS 6 and above, where available)</li> <li>• Device Info (Model, IMEI\MEID, ICCID, PIN, OS version, Platform, Supported Networks)</li> <li>• REM files – decryption of encrypted files on external memory</li> <li>• Windows Phone</li> <li>• It should support physical extraction and decoding of devices running Windows Phone devices running OS versions 10 (preferably latest OS versions ).</li> <li>• JTAG decoding of contacts, call logs and SMS from Windows Phone 8.x devices(preferably latest OS versions) should be enabled via physical extraction</li> <li>• The Devices supporting Physical Extraction should at-least include HTC Pro, HTC HD2 T9193, Xperia X1, Nokia Lumia 520, LG GM750.</li> <li>• It should support applications for Windows Phone devices running OS 8.1 including Facebook, Facebook Messenger, Waze, WhatsApp, ooVoo, Skype, Voxer,</li> <li>• It should support bit-for-bit physical extraction from locked and unlocked Nokia BB5 devices using proprietary boot loaders.</li> <li>• Portable GPS Device :</li> <li>• It should enable physical extraction and decoding of data from a range of</li> </ul>
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		<p>portable GPS devices (Garmin, Tom-Tom, Magellan etc.). The</p> <ul style="list-style-type: none"> <li>Decoded data should include: Entered locations, GPS fixes, Favorite locations, GPS info.</li> <li>It should provide a solution to the encrypted Tom-Tom trip-log files that reside in the Tom-Tom device.</li> <li>It should support Extraction and decoding of existing and deleted data from GPS devices. GPS extraction and decoding of information Should include: Home, Favorites, Recent, User entered, Locations, Last journey, Location, Date &amp; Time, Routes, GPS fixes (also deleted), Deleted locations (of all categories)</li> <li>It should support Data Extraction from Garmin &amp; Mio devices. Extracted data includes: Favorites, past journey (containing all the fixes during the journey), Deleted GPS fixes.</li> <li>Feature Phones :</li> <li>It should enable physical, file system and logical extraction, and decoding from selected devices. Decoding of intact and deleted data: Phonebook, SMS, and MMS, calendar entries, SIM ID and more.</li> <li>The Supported Phones (for either Physical/ File System/ Logical) should at least include: <ul style="list-style-type: none"> <li>Nokia: 1100,1280, 1616, 1650, 1661, 1661-2b, 1680 Classic, 1800, 2720 fold, 2720a-2b,</li> <li>2730 Classic, 2760, 3109 Classic, 3110 Classic.</li> <li>Samsung: SGH-C120, SGH-A127, SGH-M130L, SGH-A137, SGH-T139, SGH-J150, SGH-X150, SGH-X160, SGH-X166, SGH-X168, SGH-C170, GT-E1195, GT-E1230, SGH-E1310B, SGH-B2100.</li> <li>LG: KP175, KP202 i-mode, GB220, KG220, CG225, KG225, GB230 Julia, KG290, NTLG300GB, KG320, KG320S, KG328, L343i, KF350, KF600, KE800, KG800, KE850 Prada, KE970, Shine, C1100, L1100.</li> <li>Motorola: E1 ROKR, C113, C117, C118, C119, C115, C139, C140, V300, V303, V330, W375, E398, V400, V500, V505, V525, V551, V620, V635L, C975, E1000, V1050</li> </ul> </li> <li>IOS Phones :</li> <li>It should enable forensically sound data extraction, decoding and analysis techniques to obtain existing and deleted data from these iOS</li> <li>Devices: up to iPhone 8Plus, iPad 4, and iPad Pro. etc.</li> <li>Unrivalled access to locked devices by bypassing,</li> <li>revealing or disabling the user lock code</li> <li>The tool should provide separate Unlocking software for unlocking the phone using brute force method. This should be integral part of the Tool.</li> <li>Should be able to Access user cloud data utilizing login information extracted from the mobile device.</li> <li>Should able to Login to user cloud data using usernames and passwords provided by the investigated subject, retrieved from personal files, contacts or via other discovery means.</li> <li>Normalize different cloud services in a unified format and view in Timeline, File Thumbnails, Contacts or Maps format.</li> <li>Should generate easy-to read, PDF reports for entire data sets or filtered information. Export extracted data to other analytical tools for deeper</li> </ul>
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		<p>analysis and cross source investigation with third party data</p> <ul style="list-style-type: none"> <li>• Should be supplied with all the necessary cables/adapters, chargers for the supported mobile phones.</li> <li>• Three years from the date of commissioning.</li> <li>• It should be operated with a USB software license dongle.</li> </ul>
10.	Mac Acquisition & Analysis tool with IMac	<ul style="list-style-type: none"> <li>• Should have ability to Target and forensically acquire files, folders, and user directories while avoiding known system files and other unneeded data</li> <li>• Should have ability to preserve valuable metadata by maintaining its association with the original file</li> <li>• Solution should have ability to authenticate collected data using any or all MD5, SHA-1, or SHA-256 hash functions</li> <li>• Solution should support thoroughly log data acquisitions and source device attributes throughout the collection process</li> <li>• Should support selectively acquire email, chat, address book, Calendar, and other data on a per-user, per-volume basis</li> <li>• Solution should capture important live data such as Internet, chat, and multimedia files in real time</li> <li>• Solution should support soundly acquire and save volatile Random Access Memory (RAM) contents to a destination device</li> <li>• Solution should support choose from 26 unique system data collection options, including active system processes, current system state, and print queue status</li> <li>• Solution should support extensively log live data acquisition information throughout the collection process</li> <li>• Solution should support automatically recognizes a combined volume from a <b>Fusion Drive</b> and presents it for imaging</li> <li>• If <b>FileVault 2</b> exists, the examiner can, with use of the password, Keychain file or recovery key, mount the volume in a read-only fashion, allowing for either a triage or collection of the files</li> <li>• Use the source machine's own system to create a forensic image by booting from the solution USB dongle</li> <li>• Write-protect source devices while maintaining read-write access on destination devices</li> <li>• Solution should support Windows Registry artifacts - recently executed files and programs, link files, jumplists, Prefetch and Superfetch data</li> <li>• Solution should have device connection data for all devices previously connected to the system, including USB device connection dates/times and the associated user account</li> <li>• Should support iOS device backups</li> <li>• Should support Recent file downloads</li> <li>• Solution should support Trash (for Mac OS X volumes) and Recycle Bin (for Windows volumes)</li> <li>• Solution should support current and deleted user account info</li> <li>• Should analyzes several types of memory files, including raw dumps, Hibernation files (Windows Vista to Windows 10), pagefile.sys, and crash dumps (full, from Windows Vista or 7)</li> <li>• Solution should performs file carving and bulk extraction content searches (for numerous items such as URLs, addresses, phone numbers, etc.)</li> </ul>

		<ul style="list-style-type: none"> <li>• Should have features a Memory subview for analyzing processes, libraries, sockets, handles, and drivers</li> <li>• Solution should support Processes memory files many times faster than traditional open-source forensic tools</li> <li>• Solution should support File name, kind, size, or extension</li> <li>• Solution should support Date created, modified, or accessed</li> <li>• Solution should support Picture metadata attributes, including GPS coordinates and camera (iPhone/iPad device) type</li> <li>• Solution should support Positive and negative hash set filtering</li> <li>• Should have built-in GPS Mapping: <ul style="list-style-type: none"> <li>• All media files containing GPS data will be identified with a placemark badge</li> <li>• Examiners can view media geolocation data on a Mercator map (offline) or using Google Maps (online) directly from the built-in GPS view</li> </ul> </li> <li>• Should have Proprietary Skin Tone Analysis Algorithm: <ul style="list-style-type: none"> <li>• Sort picture and video files by the skin tone percentage contained in the file</li> </ul> </li> <li>• Should support Video Frame Analysis: <ul style="list-style-type: none"> <li>• Solution should initially displays video files as 4x4 frame sequences, allowing examiners to quickly triage multiple video files in order to locate potential evidence</li> </ul> </li> <li>• Should easily tag evidence and include any and all relevant metadata in the examiner report</li> <li>• Solution should export your report in your choice of formats, including .pdf, .html, .docx, and .txt</li> <li>• Solution should support export eDiscovery data to a generic Concordance load file that is compatible with all major review platforms</li> <li>• Solution should support mask (blur) sensitive data contained within examiner reports that may be shared with non-authorized third parties</li> <li>• Apple iMac (21.5-inch, 2.3GHz Dual-core Intel Core i5, 8GB RAM, 1TB Fusion Drive) or higher</li> <li>• 21.5-inch (diagonal) 1920-by-1080 resolution display</li> <li>• Stunning 5-mm-thin design</li> <li>• Seventh-generation 2.3GHz dual-core Intel Core i5 processor</li> <li>• Intel Iris Plus Graphics 64</li> <li>• Two Thunderbolt 3 (USB-C) ports</li> <li>• 802.11ac Wi-Fi</li> <li>• Magic Mouse 2 and Magic Keyboard</li> <li>• 36 months Warranty and updates</li> </ul>
11.	Video Forensic Tool Kit	<ul style="list-style-type: none"> <li>• It should have Complete More than 100 different filters for all possible needs during forensic investigations. Every filter is a solution to a specific technical problem.</li> <li>• It should not have Single Solution require additional plug-ins or third-party software.</li> <li>• It should have Portable Works on a laptop in the field as easily as on a desktop in the lab.</li> <li>• It should have Modern looking interface based on modern techniques.</li> <li>• Should have Processing Workflow Add, configure, move, and modify an</li> </ul>

		<p>unlimited number of filters, in real time even while playing video. You can apply real-time, non-destructive image adjustments that don't require re-rendering as changes are applied. Every process is a filter: filters have a common workflow and interaction and can be modified, added, copied, pasted, disabled or deleted in any moment.</p> <ul style="list-style-type: none"> <li>• Should have Bookmarks allow to quickly select interesting frames in a video, or different steps in the processing. Every bookmark is associated to a specific frame of a specific filter and has a name and a description for quick access. Bookmarks can be edited moved or deleted. Images from bookmarks are included in the report.</li> <li>• Should have Tracking Track areas or target of interest (such as people or objects) through static, dynamic, and manual tracking.</li> <li>• Should have Filters Selection All local filters support applications on the whole image, a static region or the tracking of a moving object with either static (more precise) or dynamic (more robust) template.</li> <li>• Should have Keyboard Shortcuts Most features of the software are available through keyboard shortcuts, carefully chosen to match those commonly used in standard photo editing software and non-linear video editors.</li> <li>• Should have theme support for multiple themes of different colors in addition to the system theme to fit the user working environment.</li> <li>• Font Size Customizable font size in addition to the system defined font dimensions.</li> <li>• Should have Log All operations performed by the user are logged on a text file, together with system info and other critical information.</li> <li>• Should have Pixel values Visualization Display current pixel coordinates and values.</li> <li>• Should have Image Statistical Information Display in real time the histogram and statistical features of the image, on one or multiple color channels. Optionally mark on the image white saturated or black areas to avoid excessive processing.</li> <li>• Should have Selections Tools Multiple selectors available to best interact with different filters with pixel level precision.</li> <li>• Should have Essential file information current file name, image size, and number of frames always visible on screen for quick reference.</li> <li>• Should have format and metadata visualization Display file format and metadata information, such as EXIF data, present in image and video files.</li> <li>• Should have Zoom Tool Precise zoom tool with no interpolation to see actual pixels value. Interpolation can be applied under the user control with the specific filter.</li> <li>• Should have video playback integrations advanced video playback. With a single click it is possible to send the current image to Word, PowerPoint or copy it onto the clipboard for pasting in any other tool. It is possible just to copy the image data, the full software user interface, or the whole screen. This makes it very easy and quick to prepare custom reports and instructions for colleagues.</li> </ul>
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		<ul style="list-style-type: none"> <li>• Should have input image formats Supports any standard digital image format (i.e. jpeg, tiff, png, bmp, targa, ...).</li> <li>• Should have input video formats Supports 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.</li> <li>• Should have Multiple Video (FFmpeg, DirectShow, VideoForWindows, Quick Time, Dahua, MediaFoundatio and Hikvision engine) to test different decoding capabilities.</li> <li>• Should have image sequences multiple images can be loaded together to work on them as if they were frames of a single video file.</li> <li>• Should have Proprietary CCTV/DVR formats Supports the conversion of most proprietary video formats from video surveillance systems (approximately more than 75% of the formats encountered) to AVI, MP4, MOV, MKV formats. For most of them it is a simple format change which does not involve transcoding and thus quality loss, but preserves the quality of the original data. More than 200 formats are supported and new formats are added upon request of the users. Optionally, files can be converted to a specific format and codec, concatenated. Batch processing can automatically convert all the files in a folder and optionally concatenate them. The conversion writes a log file with the details of the process.</li> <li>• Should have Screen Capture Integrated screen capture with the option to save standard uncompressed video files for maximum quality and compatibility.</li> <li>• Should have video input View, grab and process any stream coming from a DirectShow compatible device.</li> <li>• Should have Export Video Export the current video frames with any supported FFmpeg, Video For Windows, DirectShow and QuickTime codec and format.</li> <li>• Should have Live Output Blackmagic device video output.</li> <li>• Should have Audio Support The user can optionally enable the support for audio, which includes playback of the audio stream in video and the copying or converting of the video stream from input to output files.</li> <li>• Should have print automatic report generation Print generated images and video frames. Automatic generation of a report containing all the scientific methodology and details of the processing steps, settings, and the bibliographic references to the algorithms in PDF format. This reporting feature is a critical advantage for US users working in Frye or Daubert states. The user can customize different parts of the report such as case, author, description, image size and which frames and processing steps to include in the report, including the images with a proper title and description.</li> <li>• Should have with single click of a button the user can save the image temporary status of the project (the currently displayed image and the project file needed to recreate it). This allows for a very quick experimentation and to review at a later time different attempts and results. The filename of the snapshots can be assigned automatically or customized by the user.</li> <li>• Should have File Verification Supports the visualization and verification of hash codes of input and output files in saved projects to detect unexpected</li> </ul>
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		<p>alteration.</p> <ul style="list-style-type: none"> <li>• Should have Compatibility High Resolution Support Runs on any standard PC, with Windows 7, 8, 10.</li> <li>• Should have Support for HiDPI (Retina) screens keeping the proper layout of text and panels.</li> <li>• Should have Licensing Mode Standalone software protected by a USB dongle for easy license management.</li> <li>• Should have Updates All software updates, both minor and major, are guaranteed when the SMS (software maintenance and support) is active. The first year of SMS is included with the initial purchase of the license, additional years can be purchased together with the license or at a later time.</li> <li>• Should have Supported Languages available in in English, Dutch, German and Chinese and Vietnamese.</li> <li>• Should have Complete and in depth documentation which includes: Quick Start Guide, Tutorials, Program Reference Guide, Filter Reference Guide, Keyboard Shortcuts. The Filter Reference Guide includes bibliographic references with ISBN number of books and web links to the scientific papers.</li> <li>• Should have Samples Includes more than 50 different sample projects and files to learn how to apply the software in numerous situations.</li> <li>• Should have Training In depth training on the use of the software available worldwide (to be purchased separately, not available for all countries).</li> <li>• Should have Specific manipulation detectors Feature based clone detection, Noise based splicing detection, Flat inpainting detection.</li> <li>• Should have Background processor tool (videos) Inconsistent motion in videos detection, Duplicate frames in videos detection</li> <li>• Should have General filters Error level analysis (ELA), Gradient, Noise map, Zoom test (replicated zoom only), Histogram.</li> <li>• Should have File type specific operations JPEG, JPEG layout visualization, Thumbnail extraction, Quantization tables, PNG, PNG layout visualization.</li> <li>• Should have Input- All standard image formats like jpeg, png, tiff, bmp, etc, Using the FFMPEG, DirectShow, Media Foundation, VideoForWindows, Dahua and Hikvision video engines at the same time Mandet support a great range of video formats, Probing function with overview of the video engines with specific information, All done in separate processes, so problematic codecs will not result in program.</li> <li>• Should have Output- Save a video to uncompressed avi, Save an image to the tiff format.</li> <li>• Should have Image and video comparison -You can compare both images and videos, Comparison between filter results.</li> <li>• Should have visual viewer Normal way of looking at an image, Zoom in on the image and inspect it by eye.</li> <li>• Should have Hexadecimal viewer View all the bytes in the file in the hexadecimal viewer, Search through the file for specific byte combinations with the hexadecimal.</li> <li>• Should have Metadata viewer, View the metadata available in the file, Copy</li> </ul>
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		<p>the Google maps URL from the file and paste it in Maps to view the location.</p> <ul style="list-style-type: none"> <li>• Should have Help functionality, General filter description, Parameter description, Limitations and alternatives, References to literature.</li> <li>• 36 months of warranty and updates</li> </ul>
12.	Video Acquisition Tool	<ul style="list-style-type: none"> <li>• The software should support recovery of digital video from original evidence or a forensic clone in E01 or DD format.</li> <li>• The software should be able to bypass system level passwords and provide the examiner with direct access to the recorded data.</li> <li>• The software should be able to generate outputs in native file format including .264, .h264, .dat, .drv, .dvr, etc. and should also provide a player to view these exported files.</li> <li>• The software should support recovery of recorded audio from supported DVR systems.</li> <li>• The software should also be able recover video inaccessible (also known as overwritten) to the DVR.</li> <li>• The software should not encode, transcode or make any changes while exporting video in native file format.</li> <li>• The software should also be able to generate outputs in open file formats without any modification, transcoding or loss of quality during the exports.</li> <li>• The software should support popular DVR manufacturers like Swann, Zmodo, Q-See, Hikvision, Samsung, etc</li> <li>• The software should support at least 110 or more DVR filesystems from various manufacturers.</li> <li>• The software should be able detect the DVR filesystem automatically without the need to select the DVR manufacturer.</li> <li>• The software should support video preview feature with metadata overlay and ability to add tags and notes during the review period.</li> <li>• The software should be able to adjust incorrect data/times on the recorded videos as well as allow users to set an offset on individual or group of clips.</li> <li>• The software should be able to recover additional metadata including recording type like motion &amp; schedule records as well as channel names from supported systems.</li> <li>• The software should be able to identify and handle drive level encryption on supported file systems.</li> <li>• The software should be able to recover the data without the use of the DVR system itself incase if the DVR system is destroyed by fire or other methods.</li> <li>• The software should be able to recover formatted, deleted and partially overwritten videos.</li> <li>• The software should be able to use proprietary metadata within the proprietary DVR system for a faster identification of video clips.</li> <li>• The software should allow automated scan and export of video data from DVR systems.</li> <li>• The software should allow easy sorting and filtering of the recovered videos.</li> <li>• The software should allow integration with 3rd party video</li> </ul>

		<p>analysis tools like Input Ace, Amped Five and Video Focus.</p> <ul style="list-style-type: none"> <li>The software support should include at least 12 product updates each year with new file system support and features.</li> </ul>
13.	Disk Forensic Analysis Software	<ul style="list-style-type: none"> <li>Acquisition from Smartphone and Tablet support.</li> <li>Displaying detailed information about the evidence acquired from a Smart device. Report includes ability to export KML data. Acquire data from devices running the following operating systems</li> <li>Apple's iOS, Google's Android™ OS, Rim's Blackberry™ OS, HP's Palm™ OS, Nokia Symbian, Microsoft's Windows Mobile OS</li> <li>Should support Native Encryption: Encrypt evidence files directly using AES-256 strength encryption</li> <li>Evidence File Formats: The improved Ex01and Lx01 file formats, built on E01 and L01 formats, should be supported for increased performance and optimized data management</li> <li>Evidence Processor should include: Automate common tasks associated with preparing evidence for investigation should include: <ul style="list-style-type: none"> <li>Recover Folders</li> <li>File Signature Analysis</li> <li>Protected File Analysis</li> <li>Hash Analysis (MD5 and SHA-1)</li> <li>Expand compound files</li> <li>Find Email (PST, NSF, DBX, EDB, AOL, MBOX)</li> <li>Find Internet Artifacts (IE, Firefox, Safari)</li> <li>Search for Keywords</li> <li>Index</li> </ul> </li> <li>EnScript Module Processing: It should incorporate the following modules by default in the processor</li> <li>System Info Parser</li> <li>IM Parser (AOL, MSN, Yahoo)</li> <li>File Carver</li> <li>Personal Information (CC, Phone Numbers, Email, SSN)</li> <li>Windows Event Log Parser</li> <li>Windows Artifact Parser</li> <li>Unix Login</li> <li>Linux Syslog Parser</li> <li>Customization of EnScript Module Processing</li> <li>New Indexing Engine: Optimized for the forensic examiners needs with robust query language, Deep Forensic Analysis</li> <li>New Supported Files: EXT4, HSFx o Microsoft Office 2010 o iOS Physical Images (iPad, iPhone, iPod)</li> <li>Should support Checkpoint/Pointsec Full Disk Encryption. Existing &amp; encryption product support updated</li> <li>New E-Mail Investigation Platform: E-mail investigations are now as easy as reading email in an inbox. Added capabilities to review e-mail conversations and related messages to uncover context and identify all individuals related to the case.</li> <li>Tagging: Create custom tags and apply to any file, including hash records, to enable easy export of files for review by</li> </ul>

		<p>others.</p> <ul style="list-style-type: none"> <li>• Unified Search: Now search across the entire case from one easy to use, flexible, and powerful search interface. Incorporate the index, keyword search results, and tags into a single search.</li> <li>• Customizable Templates: Create custom report templates for consistent reporting for every case</li> <li>• Formatting: Choose formatting for each section of the report, tailoring the representation of finding to meet the audience's needs.</li> <li>• Easy Export Options: Save reports in any of the following formats: Text / RTF (opens in Microsoft Office) / HTML / XML / PDF</li> <li>• 36 months of warranty and updates.</li> </ul>
14.	Email Examiner tool	<ul style="list-style-type: none"> <li>• The software should support various email formats, like:- <ul style="list-style-type: none"> <li>○ Microsoft Outlook (PST)</li> <li>○ Microsoft Outlook Offline Storage (OST)</li> <li>○ America On-line (AOL)</li> <li>○ The Bat! (version 3.x and higher)</li> <li>○ Thunderbird</li> <li>○ Outlook Express</li> <li>○ Eudora</li> <li>○ Email file - RFC 833 Compliant(EML)</li> <li>○ Windows mail databases</li> <li>○ Maildir</li> <li>○ Plain Text mail</li> </ul> </li> <li>• Support for more than 750 MIME Types</li> <li>• It should also be able to identify and recover permanently deleted</li> <li>• Software should be able to identify similar copies emails and attachments.</li> <li>• It should have an advanced query structure allowing searches through wildcard queries, fuzzy queries, Boolean operators, phrase queries, proximity queries and field-specific queries.</li> <li>• Should be able to search specific email and attachment through file type filter, comments (entered by the reviewer), classifications (entered by the reviewer), communication date, lists of hash values, list of keys words and skin tone filtering of images to identify inappropriate images.</li> <li>• Should be able to provide a network view to know communications between sender &amp; receiver.</li> <li>• Should be able to provide full indexing information (e.g. word counting) of each word.</li> <li>• 36 months of warranty and updates</li> </ul>
15.	Desktop	<ul style="list-style-type: none"> <li>• All in one computer.</li> <li>• Processor Intel i5/i7 or AMD make Processor or equivalent with latest generation or higher</li> <li>• Processor speed 2.80 GHz or higher</li> <li>• Cache Memory 3 MB or higher</li> <li>• Ram 8GB DDR4 or latest</li> <li>• Storage 1TB or higher</li> <li>• Windows 10 (64 bits) or latest</li> </ul>

		<ul style="list-style-type: none"> <li>• Peripheral Wireless mouse, wireless keyboard</li> <li>• Connectivity and Compatibility USB and standard ports with IEEE 802.11a/b/g/n compatible</li> <li>• Screen Size of Monitor 12 Inch LED</li> <li>• One year Warranty Support</li> </ul>
16.	Laptop	<ul style="list-style-type: none"> <li>• Processor I7, Ram 8 GB, 4 GB graphics card, 2 TB Storage with DVD Writer or higher, Web cam</li> <li>• One Year Of warranty</li> </ul>
17.	Cell ID Graber	<ul style="list-style-type: none"> <li>• Device should be operational without sim</li> <li>• Device should have external Antenna for better signals.</li> <li>• Device Should be capable of collecting real time 2G, 3G/WCDMA and 4G/LTE cell id data from towers of different telecom companies</li> <li>• Device should be compatible with Windows based Operating Systems with prior loaded MS Dot Net Framework 4.</li> <li>• Device should be able to provide GPS Location where the Data was extracted in the Report Chart.</li> <li>• Device should be simply operated in one click without any repeated human intervention.</li> <li>• Should have facility to save data is automatically in excel, PFD and Html files and Doc format, which can instantly be send on e-mail.</li> <li>• Device Should have features to runs on three modes Quick Mode, Normal Mode and Deep Scan Mode for advance Cell ID Extraction</li> <li>• Should have facility to shift license from one System to another easily whenever required.</li> <li>• Should have facility for Technical Support (Email &amp; Phone)</li> <li>• Free Software Updates should be available during the warranty period.</li> </ul>
18.	Segno Hunt Software	<ul style="list-style-type: none"> <li>• Should identify if steganography is present in the case file by scanning for over 1,000 data hiding applications using Fibonacci search methods.</li> <li>• Should be capable to Identify suspect carrier files that otherwise go undetected, including program</li> <li>• Artifacts, program signatures, and statistical anomalies.</li> <li>• Should use multiple operational discovery modes, including directory, drive, archives, drive image, and network path.</li> <li>• Should generate case specific reports for management or presentations in different file format.</li> <li>• Should provide deep analysis for detected images and audio files.</li> <li>• Should use the file viewing panel to display individual file attributes, including image details, DCT coefficients, and color pairs for a complete analysis of identified carriers.</li> <li>• Should provide option to select from various filter options for further analysis, such as Least Significant Bit (LSB's) of specific colors.</li> <li>• Should be capable to crack and extract payloads from many carrier files using a simple point and click interface.</li> <li>• Should support the popular password dictionaries included in order to execute a dictionary attack.</li> </ul>

		<ul style="list-style-type: none"> <li>• 36 months of warranty and updates</li> </ul>
19.	Offline Printer	<ul style="list-style-type: none"> <li>• Laser jet with throughput of &gt;25 pages per minute with best Resolution</li> <li>• RAM – 1 GB or higher</li> <li>• Page type support – A4</li> <li>• Connectivity – USB</li> <li>• Self –Diagnostic – Self-test print out</li> <li>• Paper Feed - A4 Sheets</li> <li>• Spare Cartridges – Two numbers of spare cartridges should be provided</li> </ul>
20.	BIG Size Touch Screen LED	<ul style="list-style-type: none"> <li>• Screen Size: 85 inch or above diagonally</li> <li>• Source: VGA, RGB, DVI, HDMI, USB</li> <li>• Resolution: 1920 x1080 Native or better</li> <li>• Brightness: 450 Nits</li> <li>• Contrast ratio Min 3,000:1</li> <li>• Colors 281 trillion</li> <li>• Hor. viewing angle:120°</li> <li>• Vert.viewing angle:+/-60°</li> <li>• Refresh rate: 60 Hz</li> <li>• Touch: Min four simultaneous touches</li> <li>• Standard Features</li> <li>• Variable width line, highlighter, eraser etc. functions.</li> <li>• Spot Light, Curtain, Zoom.</li> <li>• Screen Capture and audio recording.</li> <li>• Transparency level of screen can be varied.</li> <li>• Import Picture.</li> <li>• Handwriting reorganization.</li> <li>• Save, Print, and Export image text annotations.</li> <li>• OS Support: Should support all the latest available OS.</li> <li>• Speaker: 15 W + 15 W @ 8 ohm</li> <li>• Lifetime: 100,000 hours (@50% brightness)</li> <li>• One Year of warranty.</li> </ul>
21.	UPS	<ul style="list-style-type: none"> <li>• UPS of 10 KVA Capacity</li> <li>• Minimum 30 minutes back on full load</li> <li>• Technology Smart - Online IGBT based PWM type using microprocessor / DSP for control or better.</li> <li>• Voltage -230VAC <math>\pm</math> 25%, single phase</li> <li>• Frequency - 50 Hz <math>\pm</math> 10%,</li> <li>• Power Factor - 0.85</li> <li>• Voltage - 230VAC <math>\pm</math>1%, 1 phase, 2 wire</li> <li>• Frequency - 50Hz <math>\pm</math> 0.1% in async mode</li> <li>• Overload -150% for 1 min</li> <li>• Overall - AC to AC</li> <li>• efficiency - 85%</li> <li>• Harmonic distortion - &lt; 3% on linear load</li> <li>• Isolation Inbuilt double wound isolation transformer with class "H" insulation</li> </ul>

		<ul style="list-style-type: none"> <li>• Wave form Sinusoidal</li> <li>• Protections - Input Over / Under voltage Output Over/ Under voltage Battery over/ under voltage Low battery Output overload / short circuit Over temperature , Manual bypass switch</li> <li>• Indications LED indications for Line ON, Battery ON, Mains abnormal, Load on battery, load on bypass &amp; Inverter trip</li> <li>• One year of warranty and support</li> </ul>
22.	Podium with I Panel and Visualizer	<ul style="list-style-type: none"> <li>• i. Dimension Standard Height. Length and width to be decided based on dimension on housing equipment</li> <li>• ii. Housing space Suitable space for mounting following items. <ul style="list-style-type: none"> <li>i) PC</li> <li>ii) Keyboard</li> <li>iii) I Panel</li> <li>iv) Visualizer</li> <li>v) Microphone</li> <li>vi) Table Lamp</li> <li>vii) Power strip for above equipment</li> <li>viii) Storage space (for laser pointer, presenter, pen, remote etc.</li> </ul> </li> <li>• iii. Table Top space Space for <ul style="list-style-type: none"> <li>i) I Panel</li> <li>ii) Space for Presenter Laptop</li> <li>iii) Suitable assembly for Table Lamp and Microphone.</li> </ul> </li> </ul> <p style="text-align: center;"><b>I - PANEL</b></p> <ul style="list-style-type: none"> <li>• i. Screen Type 15" interactive touch Screen</li> <li>• ii. Platform Support Should support all latest operating system.</li> <li>• iii. Screen Size Minimum 15" Diagonal</li> <li>• iv. Resolution Minimum 1024 x 768 (XGA)</li> <li>• v. Active Area 12" x 9" (304 mm x 228 mm)</li> <li>• vi. Response Time 30 ms or better</li> <li>• vii. Accuracy +/-0.5 mm</li> <li>• viii. Pixel Pitch 0.012" x 0.012" (0.297 mm x 0.297 mm)</li> <li>• ix. Incline 20° to 80°</li> <li>• x. Number of Colours Minimum 16.7 Million</li> <li>• xi. Contrast Ratio Minimum 300</li> <li>• xii. I/O Connectors DC Power In VGA 15-Pin D-Sub (IN/OUT) USB Connector</li> </ul>