

# UTTAR PRADESH POLICE TECHNICAL SERVICES HEADQUARTERS

IVth FLOOR JAWAHAR BHAWAN, ASHOK MARG, LUCKNOW-226 001

DATED : Dec.

2016

TENDER NO.: TS-MOD-294/2015-16 (Training Lab)

## TENDER INVITATION NOTICE

- 1- Sealed Tenders are invited from the Indian Manufacturers/registered firms/ Authorised agent of foreign manufacturer for purchase of the following equipment for the use of U.P. Police.
- 2- The tender form and tender document for item mentioned below along with Technical specification for Item given may be downloaded from U.P. Police website <http://uppolice.gov.in> on payment of Rs. 300-00 as fee of Tender cost documents in the form of DD/Banker Cheque/FDR/ in favour of S.P.AD. Uttar Pradesh Police Computer Centre, payable at Lucknow.
- 3- Cost of tender document is not refundable, while earnest money(EMD) is refundable after tender process.
- 4- Tender documents will not be sold on cash through Technical Head Quarter.
- 5- Each Tenderer will have to deposit an E.M.D. as mentioned against tender in the form of DD/Banker's Cheque/FDR. in favour of **S.P./AD. Uttar Pradesh Police Computer Centre, payable at Lucknow.**
- 6- Successful tenderers will have to deposit a security money @ 10% of the order value, which will be refundable after expiry of warranty period.
- 7- For any specification which amounts to proprietary items its equivalent Product / Services of international quality will also be acceptable. However the decision of Technical Committee regarding Product / Services of International Quality will be final.
- 8- The Number of equipments may be increased or decreased as per need and the increased/decreased quantity will also have to be supplied within time stipulated by the Department.
- 9- In condition of amendment in any following item's specification. It will be uploaded before 7 days from submitting tender date'
- 10- Tender will be submitted separately for Group-A and Group-B with seprate technical and financial bid. Lowest will be decided group wise. Any firm may submit tender for Group-A or for Group-B separately or for both group.
- 11- Tender of Group-A item's Technical Bid should be quoted with Hardware and software system separately according to technical specification.
- 12- The lowest bid will be decided on the basis of total cost (inclusive of all taxes.)
- 13- The Technical Head Quarters may cancel the tender at anytime without asigning any reason for the same in the public interest.

Tender No.	Item	Qty	EMD (in Rs.)	Cost of Tender Document (in Rs.)
(1)TS-MOD-294/2015-16(Trg.Lab)	Forensic Cyber Crime Training Labs	05	9,01,100-00	300-00

last date of deposit of tenders  
Date of opening of Technical Bid  
Date of Purchase committee meeting for technical evaluation  
Date of opening of financial offer  
Date of purchase committee meeting for financial evaluation

16-01-2017 upto 12-00noon  
16-01-2017 at 01-00 pm  
18-01-2017 at 11-30am  
18-01-2017 at 04-00pm  
19-01-2017 at 04-00 pm

(Kirit Rathod)

Superintendent Of Police,  
For- Add. Director Genl. Of Police,  
Technical Services Hqrs. UP. Lucknow.



# उत्तर प्रदेश पुलिस तकनीकी सेवायें मुख्यालय,

चतुर्थ तल, जवाहर भवन, अशोक मार्ग, लखनऊ

संख्या-टीएस-एमओडी-294 / 2015-16 (प्रशिक्षण लैब)

दिनांक -दिसम्बर, 2016

## निविदा सूचना

- 1- उत्तर प्रदेश पुलिस हेतु निम्न उपकरणों की सील बन्द निविदा भारतीय मैनुफैक्चरर / डीलर / रजिस्टर्ड फर्म / विदेशी मैनुफैक्चरर के अधिकृत विक्रेता से आमंत्रित की जाती है।
- 2- निविदा प्रपत्र व उपकरण से सम्बन्धित तकनीकी स्पेशीफिकेशन उत्तर प्रदेश पुलिस की वेबसाइट <http://uppolice.gov.in> से डाउनलोड किया जा सकता है। निविदा शुल्क के रूप में ₹0 300.00 का बैंक ड्राफ्ट / बैंकर चेक / एफडीआर पुलिस अधीक्षक / सहायक निदेशक, उ0प्र0पुलिस कम्प्यूटर केन्द्र लखनऊ के नाम देग होगा, जमा की जायेगी।
- 3- निविदा शुल्क किसी भी दशा में वापस नहीं किया जायेगा तथा निविदा प्रक्रिया उपरान्त ईएमडी नियमानुसार वापस की जायेगी।
- 4- तकनीकी सेवायें मुख्यालय से नगद भुगतान पर टेण्डर डाकुमेंट्स विक्रय नहीं किये जायेंगे।
- 5- प्रत्येक टेण्डरकर्ता द्वारा टेण्डर की ईएमडी डीडी / एफडीआर / बैंक गारन्टी के रूप में, जो पुलिस अधीक्षक / सहायक निदेशक, उ0प्र0पुलिस कम्प्यूटर केन्द्र लखनऊ के नाम देय होगा, जमा की जायेगी।
- 6- सफल टेण्डरकर्ता द्वारा कयादेश मूल्य का 10 प्रतिशत धनराशि सिक्योरिटी मनी के रूप में जमा किया जायेगा, जो उपकरण के सन्तोषजनक ढंग से कार्य करने के उपरान्त उनके वारन्टी अवधि के उपरान्त वापस कर दी जायेगी।
- 7- तकनीकी स्पेशीफिकेशन के अनुसार प्रोप्राइटीरी आइटम या उनके समतुल्य उत्पाद / सेवा अन्तराष्ट्रीय स्तर के स्वीकार होंगे। प्रोप्राइटीरी उत्पाद या इसके समतुल्य उत्पाद / सेवा के सम्बन्ध में तकनीकी समिति का निर्णय अन्तिम निर्णय होगा।
- 8- उपकरणों की संख्या विभाग की आवश्यकतानुसार बढ़ायी जा सकती है तथा विभाग द्वारा बढ़ायी गयी संख्या को फर्म द्वारा निर्धारित अवधि में आपूर्ति करना होगा।
- 9- यदि किसी उपकरण के तकनीकी स्पेशीफिकेशन में यदि कोई संशोधन किया जाता है तो निविदा जमा करने की अन्तिम तिथि के 07 दिवस पूर्व ही संशोधित तकनीकी स्पेशीफिकेशन अपलोड कर दिया जायेगा।
- 10- ग्रुप-ए व ग्रुप-बी में अंकित उपकरणों का ग्रुपवार अलग-अलग तकनीकी एवं वित्तीय निविदायें डाली जायेंगी। ग्रुप-ए व ग्रुप-बी की अलग-अलग तकनीकी / वित्तीय निविदायें खोली जायेंगी एवं तदानुसार अलग-अलग एल-1 निर्णीत किया जायेगा। कोई भी फर्म ग्रुप-ए अथवा ग्रुप-बी किसी एक ग्रुप के लिए अथवा दोनों ग्रुपों के लिए अपनी अलग-अलग निविदा डाल सकेगा तथा निविदा लिफाफों पर अलग-अलग ग्रुप-ए अथवा ग्रुप-बी स्पष्ट रूप से अंकित किया जायेगा।
- 11- निविदा के ग्रुप-ए के तकनीकी बिड में हार्डवेयर एवं साफ्टवेयर सिस्टम को तकनीकी स्पेशीफिकेशन के अनुसार अलग अलग कोट करें।

11- समस्त टैक्स सहित न्यूनतम निविदा (एल-1) पर विचार किया जायेगा।

12- तकनीकी मुख्यालय द्वारा जनहित में किसी भी समय बिना कारण दर्शाये टेण्डर को निरस्त किया जा सकता है।

टेण्डर संख्या	आइटम	सं०	ई0एम0डी0 ( ₹0 में )	टेण्डर डाकुमेंट्स का मूल्य (₹0 में)
(1)टीएस-मोड-294 / 2015-16 (प्रशिक्षण लैब)	फारेन्सिक साइबर काइम प्रशिक्षण लैब हेतु उपकरणों का कय	05	9,01,100-00	300.00

निविदा जमा करने की अन्तिम तिथि  
तकनीकी भाव पत्र खोले जाने की तिथि  
तकनीकी भाव पत्र पर कय समिति की बैठक  
वित्तीय भाव पत्र खोले जाने की तिथि  
वित्तीय भाव पत्र पर कय समिति की बैठक

16.01..2017 समय 12.00 बजे मध्यान्ह  
16.01..2017 समय 01.00 बजे अपरान्ह  
18.01..2017 समय 11.30 बजे पूर्वान्ह  
18.01..2017 समय 04.00 बजे अपरान्ह  
19.01..2017 समय 04.00 बजे अपरान्ह

(किरीट राठौड़)

पुलिस अधीक्षक,

निमित्त-अपर पुलिस महानिदेशक,  
तकनीकी सेवायें मुख्यालय, उ0प्र0, लखनऊ।



# U. P. POLICE TECHNICAL SERVICES, HEADQUARTERS,

IV<sup>TH</sup> FLOOR, JAWAHAR BHAWAN, ASHOK MARG, LUCKNOW-226001

## GENERAL TERMS AND CONDITIONS FOR TENDERS

The details of specifications & instructions are to be followed strictly in accordance with the tender notice.

- (1- The tendering firms are requested to submit the offer in TWO PARTS. The First Part will be named as Technical Offer & the Second Part will be called as Financial Offer. The technical offer as well as financial offer are to be prepared separately for each tender. BOTH TECHNICAL OFFER AND FINANCIAL OFFER PROPERLY SEALED IN SEPERATE COVERS, MUST BE KEPT IN ONE BIG ENVELOPE AND SEALED. ON EACH COVER INDICATE. CLEARLY THE TENDER NO. \_\_\_\_\_ ITEM AND DATE \_\_\_\_\_ OPENING DUE ON \_\_\_\_\_ DO NOT QUOTE RATES IN THE TECHNICAL OFFER, OTHERWISE THE TENDER WILL BE REJECTED.
- (2- After submission of tender any addition, alteration or change in any offer shall not be acceptable.
- (3- All the enclosures should be valid on the date of opening of the tender..
- (4- If any cutting/ corrections, it should be properly attested by the tenderer.
- (5- Earnest money (as mentioned in tender advertisement in news papers) has to be deposited FOR EACH ITEM SEPARATELY along with the Technical Offer in the form of Fixed Deposit of Scheduled Bank in the name of Superintendent of Police/ Asstt. Director, Uttar Pradesh Police Computer Center, payable at Lucknow,. Offers without earnest money will be ignored. If any firm is exempted from furnishing earnest money, enclose government orders If government order is not submitted by the tenderer his tender will not be considered.
- (6- It shall be the responsibility of the tendering firms to present themselfess on the dates of opening of Technical & Financial offers and acquaint themselves with the short comings in the tender if any. No separate intimation will be sent to them in this regard.
- (7- The Technical Committee has the right to accept the items which is functionally equivalent and of international reputre and quality. Decision of Technical Committee shall be final in this regard.
- (8- Tenderer / Authorized person who shall sign the offer and all the enclosures submitted by them should have signature with their designation, seal and date and serialised bid with proper check list.
- (9- Quoted equipments should be complete working system with all necessary accessories including stabilizer / UPS, cables, wires etc. to run the system properly at the time of installation.


*[Signature]*  
20/12/14

- (10- Clearly mention installation requirements in the technical offer. Only space and electrical points will be provided at the time of installation. Installation of the supplied equipments shall be completed within 30 days from the date of receipt of equipment, failing which equipments costing up to Rs.5 lacks, penalty of Rs.100-00 per day and for every additional 5 lacks Rs.100-00 per day may be charged.
- (11- On Site Comprehensive Warranty of the equipments (including software and hardware) will be THREE YEARS on parts and labour from the date of supply and successful installation. Maintenance work of the supplied equipments shall be done by the supplier firm during warranty period.
- (12- During warranty period in case of local service centers complaints should be attended Next Business Day and in case of out station service centers complaints should be attended within 7 days, failing which equipments costing up to Rs. 15 lacks penalty of Rs. 100.00 per day and for every additional 5 lacks Rs. 100.00 per day may be charged.
- (13- Supply is to be executed as mentioned in the purchase order. Officer who is issuing purchase order can, permit extra time on his discretion If after making purchase agreement, any tenderer fails to supply goods of desired quality and quantity within 30 days in case of indigenous supply and 60 days in case of foreign supply, supply order may be cancelled and Security Money/Earnst money deposited by tenderer may be forfeited.
- (14- Attach list of organizations to which the equipments have already been supplied and performance reports obtained from them with the technical offer.
- (15- The items quoted should be of repute/ standard brand. The tenderer should mention full particulars about the brand, name, make, model, manufacturer and detailed specifications of the material offered by them with printed literature/technical broser. The Tenderer must quote Atleast Two model of Laptop, Desktop, UPS, Printer with Scanner, Digital Still Camera and Digital Vedio Camera with printed literature/technical brochere .
- (16- Technical details as per tender specifications or their compatibility with the tender, specifications shall be clearly mentioned in the technical offer.
- (17- Firms shall quote in Indian Rupees and they must enclose (i) Self attested photocopy of valid U.P. Trade Tax Registration / Central Sales Tax / VAT Registration / latest Clearance Certificate (ii) photo copy of PAN / TAN no. (iii) Bank account no., name of bank and branch and FSC Code.
- (18- The tenderer is required to submit an affidavit on 10 rupees stamp paper stating that:  
a. there is no dispute between the tenderer and state Govt./UP Police.  
b. the tenderer has no link with Mafia or some unsocial elements or organized crime.


*S*  
20/12/13



- (19- Quote rates including packing, forwarding, insurance, installation FOR destination any where in U.P. excluding all taxes and duties. However. VAT, Entry Tax, other taxes and levies etc., should be mentioned separately. Rates should be quoted in two parts: 1- Cost of equipment with Three years on site comprehensive warranty, 2- Year wise charges for on site comprehensive annual maintenance contract from 3rd year to 5th year.
- (20- After the receipt of goods in Police Training Institutions across Uttar Pradesh, as specified in the purchase order (any district of UP), installation where needed shall have to be carried out by the firms at the required places within Uttar Pradesh.
- (21- Any conditional discount on quantity basis (different discounts for different quantities) shall not be acceptable and such offers shall be rejected out rightly. However, unconditional discount given on quoted price on whole quantity, mentioned in financial offer only be acceptable.
- (22- THE UNDER SIGNED RESERVES THE RIGHT TO ACCEPT OR REJECT ANY TENDER, EITHER IN PART OR FULL, WITHOUT ASSIGNING ANY REASON THERE OF.
- (23- Firms must come prepared to demonstrate their goods in U.P. Police Technical Services Hqrs., Lucknow -226001 on the next date of opening of technical bid. Demonstration will be asked if required, failing which tender will be rejected/ disqualify.
- (24- The undersigned has right to accept any lower or higher rates of the tenders without assigning any reason.
- (25- The validity of the rates should be at least for six months from the date of opening of the tender.
- (26- It is hereby clarified that the tender is not restricted to Authorized Representative of OEM'S for any product. Authorization from Resellers, if any, where ever required at any stage, will also be valid.
- (27- Tenderer have to accept one of the following payment terms.  
OPTION-A: ON CAD TERMS i.e. 100% payment by Swift/ Wire Transfer to tenderer's Bank Account upon submission of required documents together with certificate of acceptance of equipment by the end-user's Department/Consignee to release 100% payment to the supplier.  
OPTION-B: On LC Terms i.e. Letter of Credit for 100% value of the purchase order shall be established. Payment shall be released to the supplier by the Bank upon submission of documents to the bank by the beneficiary together with certificate of acceptance of equipment by the end users Department/Consignee after its installation. Bank charges in India shall be born by us whereas all bank charges in the foreign country, including confirmation charges of Letter of Credit, shall be to the account of the supplier.

  
90/2016

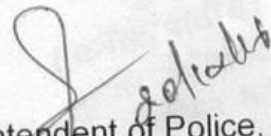
- (28- It will be the responsibility of the Indian agent of foreign principal to clear the consignment from customs and deliver it to Dr. B.R. Ambedkar Police Training Academy/Uttar Pradesh Police Training Institutes across the Uttar Pradesh as specified in the purchase order. The Indian Agent would bear the custom clearance charges (except custom duty), transportation charges, octroi etc. for supply of the goods to Dr. B.R. Ambedkar Police Training Academy/Uttar Pradesh Police Training Institutes.
- (29- Custom duty Exemption Certificate will be provided by Police Training Directorate, UP, Lucknow.
- (30- Successful Tenderer will deposit 10% of the cost of equipment in India as security money and sign a purchase agreement within 7 days after receipt of purchase order on Rs. one hundred non judicial stamp paper at their own cost. Draft of purchase agreement shall be enclosed with the purchase order. Purchase order to the firms, who fail to execute the agreement shall be cancelled and EMD deposited by them shall be Forfeited. Owner/partners of the firm /authorized person will sign purchase agreement. All signatures should be attested by notary. (authorized person will attach authority letter of owner/partners of the firm).
- (31- Security Money will be in the form of Fixed Deposit of scheduled Bank in the name of Superintendent of Police / Asstt. Director , Uttar Pradesh Police Computer Center, payable at Lucknow, or in the name of tenderer and pledged to Superintendent of Police / Asstt. Director, Uttar Pradesh Police Computer Center, Lucknow, which will be returned after expiry of warranty period.
- (32- After thorough examination if the equipment delivered is found defective and unserviceable , it is to be replaced with new one within 30 days in case of indigenous items and 90 days in case of imported items. The expenditure incurred on this account will be borne by the "Supplier Firm". In case of inability to do so, the total cost of the equipment shall have to be refunded by the firm to the government of U.P.
- (33- Bill to be submitted in triplicate by the firm in the name as mentioned in Purchase Order. Normally payment of bill will be made within 30 days but in case of delay no interest will be paid.
- (34- Special Terms and conditions if any for any particular equipment has been mentioned below the specifications the equipment in the tender form.
- (35- If any item is on D.G.S & D/D.I. rate for contract enclose copy of rate contract along in the technical offer.
- (36- Tendering firms will also impart hands on training for the supplied equipments at the site of installation and wherever necessary free of cost. (Minimum 10 batches of 10 participants).
- (37- Due to continuous research and developments and introduction of new models tendered can supply upgraded model at the quoted price with permission of the department.

  
20/12/16



- (38- Tendering firms should ensure that they will make available consumables, spares and services for equipments at least for five years from the date of supply and installation.
- (39- If supplier is unable to supply consumables, spares and services for five years, he has to take back the supplied equipment and replace it by upgraded version free of cost. Supplier firm will provide driver software for new operating systems free of cost for five years.
- (40- Tenders received after the due date and time or incomplete tenders will not be accepted. This office will not be responsible for postal delay. Conditional tenders will not be accepted.
- (41- If any firm will be defaulter of any terms and conditions given above the undersigned has right to deduct the, part or full amount of the Earnest money/ Security money deposited by the firm, firm may be black listed and legal action may be taken.
- (42- All disputes will be subject to jurisdiction of court at Lucknow only.

Following declaration form duly filled in and signed should be submitted along with the technical offer failing which tender will be rejected.

  
 Superintendent of Police,  
 for Addl. Director General of Police,  
 U.P. Police Technical Services, Lucknow

### DECLARATION

I, \_\_\_\_\_ (name of authorized representative)  
 \_\_\_\_\_ of \_\_\_\_\_ M/S \_\_\_\_\_ Son of \_\_\_\_\_  
 \_\_\_\_\_ (Name of firm).....

..... have read all the rules of tender (1 to 42) given above. These are acceptable to our firm. Earnest Money in the form of Fixed Deposit of scheduled bank Rs. \_\_\_\_\_ (in words) \_\_\_\_\_ in favors of "Superintendent of Police / Asstt. Director, Uttar Pradesh Police Computer Centre, payable at Lucknow is enclosed herewith.

PLACE: .....

DATE: .....

(Signature and seal)

## Group-A

### Sl.No. Technical Specification 1-High End Forensic Workstation

21.	Processor	Dual Intel Xeon E5 Processors , 8 Cores 2.4 GHz or Higher CPU speed; CPU Cache 20 MB or higher
22.	RAM	32 GB DDR4 2133 Quad channel memory; Extendable upto 512 GB
23.	Graphic Card	NVIDIA GeForce GTX 750ti, 2GB GDDRS,5400MHZ;with 1x HDMI & 1x DVI ports
24.	Optical Drive	Blu-Ray/DVD Burner Drive
25.	Network Adapter	2 x GB LAN Controller(s), (Intel 82574L, 10/100 /1000Mbps)
26.	I/O Ports or higher  or higher	<b>Front Ports:</b> 4xUSB (min. 4x USB 3.0) 1x e-SATA; 1x Microphone; 1x Headphone or <b>Rear Ports:</b> 4x USB (min. 4x USB 3.0); 2x e-SATA 3GB/s;2x RJ-45;1-1394b;1x S/PDIF out; Audio Ports
27.	Operating System	Window 7 or higher
28.	Power Supply	1300 Watts or better SMPS
29.	Write Blocker	Integrated IDE/SATA/USB/SAS/Fire wire for write protection of suspected storage device.
30.	Cable & Adapter Set	3.5",2.5",1.8" & ZIF Drives
31.	OS Drive	512 GB SATA 6 GBPS SSD Drive
32.	Temp Drive	512 GB SATA 6 GBPS SSD Drive
33.	Cache Drive	1x PCI-e 512GB internal SSD ( connected on board M.2 port )
34.	Storage for Case Data	1x 3 TB 7200 RPM 6 GBPS Hard Disk Drive
35.	Onboard Expansion Slots	7 X PCI Express (x16 Slots; Version 3.0)
36.	Front Mounted Drive Bays	1X SATA Tray less for OS 1X SATA Tray less for Temp Drive 3 X Hot Swap SAS/SATA 3.5" Tray less Bays
37.	Multi Card Reader	Should have integrated write Blocked Multi- Card Reader.
38.	Peripherals	22" LED Monitor, Samsung/LG/Dell or equivalent ,wireless keyboard & mouse Logitech or equivalent
39.	Warranty	3Years Parts and labour warranty
40.	Toolkit	Multi-Piece toolkit to assist in Digital Evidence Gathering CD containing system restore media

*20/12/18*



## Data Retrieval Softwares -

1	Should have gallery view option to quickly reveal all photographs and graphics files stored on hard drives and other media.
2	Should have timeline view option to provide an easily adjustable, graphical calendar like display for file activity of particular interest.
3	Should contain Full Unicode support to allow users to search text and fonts from any foreign country and in any language.
4	Should support acquisition Restart facility: continue a windows-based acquisition from its point of interruption.
5	Should have Inbuilt LinEn utility to acquire evidence via boot disk
6	Should have Inbuilt WinEn utility to acquire RAM evidence
7	Should do Image verification by CR and MD5
8	Should have Inbuilt support for writing scripts & should have pre-built scripts
9	Should Support more than 150 Filters and Conditions
10	Should Support combining filters to create complex queries using simple "OR" or "AND" logic
11	Should have Inbuilt Active Directory Information Extractor
12	Should be able to automatically rebuild the structure of formatted NTFS and FAT volumes.
13	Should support Recovery of deleted files/folders
14	Should have inbuilt windows event log parser, Link file parser to search in unallocated space
15	Should have Inbuilt support for Compound (e.g., zipped) document and file analysis.
16	Should support file Signature analysis
17	Should have native viewing support for ~400 file formats
18	Should have built-in Registry Viewer
19	Should Meet the mentioned criteria for searching: Unicode index search , Binary search, Proximity Search , Internet and email search, Active Code Page: keywords in many languages, Case Sensitive, GREP , Right to Left Reading, Big Endian/Little Endian, UTF-8/UTF-7, Search file slack and unallocated space etc.
20	Should Support Internet and Email Investigation for: Browser History Analysis, WEB History & cache analysis, Kazaa toolkit, HTML carver, HTML page reconstruction, Internet artifacts, Instant Messenger toolkit - Microsoft® Internet Explorer, Mozilla Firefox, Opera and Apple Safari
21	Should Include Email Support for: Outlook PSTs/OSTs ('97-'03), Outlook Express DBXs, Microsoft Exchange EDB Parser, Yahoo, Hotmail, MBOX archives, Netscape Mail, AOL 6.0, 7.0, 8.0 and 9.0 PFCs, Lotus Notes v6.0.3, v6.5.4 and v7
22	Should Include System Support for:
i	Hardware and software RAIDs.
ii	Dynamic disk support for Windows 2000/XP/2003 Server
iii	Interpret and analyze VMware, Microsoft Virtual PC, DD and SafeBack v2 image formats.
iv	File systems: Windows FAT12/16/32, NTFS; Macintosh HFS, HFS+; Sun Solaris UFS, ZFS; Linux EXT2/3; Reiser; BSD FFS, FreeBSD's Fast File System 2 (FFS2) and FreeBSD's UFS2; Novell's NSS & NWFS; IBM's AIX jfs, JFS and JFS with LVM8; TiVo Series One and Two; CDFS; Joliet; DVD; UDF; ISO 9660; and Palm
23	Should support reporting facility with:
i	Listing of all files and folders in a case
ii	Detailed listing of all URLs and corresponding dates and times of web sites visited
iii	Document incident response report
iv	Log Records
v	Registry
vi	Detailed hard drive information about physical and logical partitions
vii	View data about the acquisition, drive geometry, folder structures and bookmarked files and images.
Viii	Export reports in Text, RTF (opens in Microsoft Office), HTML, XML or PDF formats.
24	Smartphone and Tablet support: Acquire data from devices running the following operating systems: Apple's iOS, Google's Android™ OS, Rim's Blackberry™ OS, Nokia Symbian, Microsoft's Windows Mobile OS etc.
25	Should have warranty, updates and upgrades for 3 years.

*20/12/16*

## 1-Portable Forensic Lab-

37.	Device should be os platform independent.
38.	Device should support IDE/SATA/SAS/USB/Fire wire devices for imaging and provide or external add on for SCSI
39.	Device should work with fastest available hard drives. Captures, authenticates and sanitizes at full SATA-3 speed (15 GB/min. Speed and more) or 15 GB SSD Drives
40.	Should support forensic disk duplication of IDE/SATA(III,II,I)/USB(3.0,2.0,1.0)/SAS Drives
41.	Should support 1 to 1 , 1 to 2 and 1 to 3 source to destination combinations
42.	Should support various forensic image format like RAW (dd), E01, .dmg, EX01
43.	Should have imaging speed of up to 15GB per Min while concurrently calculating MD5 and SHA-1 hashes
44.	Should support Following Duplication Mode c. Disk to Disk (Clone) d. Disk to File (Image)
45.	Should Calculate MD5 and SHA1 Hash simultaneously
46.	Should allow Blank disk check
47.	Should Allow encryption of forensic images using XTS-AES encryption algorithm
48.	Should allow Destination Drive Wiping and formatting
49.	Should have LCD Screen 3.5" for displaying various information related to drives connected and operations
50.	Should have USB port for connecting Keyboard and USB Printer
51.	Should have various types of adapters for 2.5" Drives, 1.8" Drives, ZiF, LIF, Micro SATA , SSD etc.
52.	Should have a high-end laptop (Core i7, 16 GB RAM, 2TB HDD, Windows8 Prof 64Bit OS, MS Office Prof. License) to perform analysis in the field
53.	Should have built in module to Create forensic images of suspected storage device in DD,E01, SMART & AFF format with authentication with MD5 and SHA1 hash
54.	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.
55.	Should have built in module to Recover passwords (Password recovery Tool) from 100+ applications as MS Office up to version 2010, Financial Accounting software Tally, Adobe pdf, Win Zip, allow examiner to perform distributed password recovery by harness idle CPUs across the network to decrypt files and perform robust dictionary attacks, facility for generating biographical dictionary for password attack.
56.	Should allow user to create physical drive from image
57.	Should use Oracle or PostgreSQL database in background to store large amount of data.
58.	Should have KFF hash library with 45 million hashes
59.	Should have advanced data carving engine which allows examiner to carve allocated and unallocated data on mentioned criteria to reduce the amount of irrelevant data carved while increasing overall thoroughness: File size, file type, pixel size, over 50 custom data carvers for windows, MAC, Linux and Internet artifacts.
60.	Should support RAM dump analysis.
61.	Should support 32 bit or 64 bit windows .
62.	Should support email analysis of various email clients as: Outlook PST/OST, Outlook Express DBX, Exchange EDB, Notes NSF, EML (Microsoft Internet Mail), Eudora, Thunderbird, Quickmail, Netscape, AOL etc.
63.	Should Supports analysis of encrypted images with popular encryption technologies, such as Credant, SafeBoot, Utimaco, EFS, PGP and Guardian Edge with known passwords.
64.	Should support for Mac like Process B-Trees attributes for metadata, PLIST support, SQLite database support, Apple DMG and DD_DMG disk image support, JSON file support etc.
65.	Should Create reports and export them into native format, HTML, PDF, XML, RTF, and more - with links back to the original evidence.
66.	easy-to-use GUI with pre-defined and customizable data views, advanced filtering, dock able windows and automated data categorization.
67.	Should have one screw driver set for opening of computer and laptop, Digital Camera with 20 MP to capture crime scene.
68.	The solution should come in tough ,airtight , watertight ruggedized , wheeled carrying case
69.	Should have 3 years warranty and updates for software.
70.	SIM Card seizure
71.	Write blocking stick or add on
72.	Memory card write blocker

*20/12/2016*



## 2- Cellphone data Extractor-

1	The supplied Mobile Phone Forensic System must be capable of logical, file systems and physical mobile data extraction for wide range of mobile phones, mobile tablets and GPS devices with different operating system or chipset.
2	Should support proprietary custom boot loaders to ensure forensically sound extractions.
3	Should be possible to do Simultaneous operations like extraction, decoding and analysis, on a single platform.
4	Should come with a compact and lightweight case.
5	Extraction software should be touch screen enabled, allowing easy use on tablets.
6	Should be operated with a USB software license dongle.
7	Shall be able to recover deleted data e.g. image, SMS, emails, video, GPS locations etc.
8	Shall be able to decode mobile Apps such as Viber, Whatsapp, Skype, Facebook messenger, QQ messenger, Nimbuzz etc.
9	Should support Physical extraction and decoding while bypassing pattern lock / password / PIN from Android devices including Samsung Galaxy families, LG, HTC, Motorola, and more.
10	Should support Physical extraction from BlackBerry devices running OS 4-7. Exclusive decoding: BBM data, apps, emails, Bluetooth and more.
11	should enables forensically sound data extraction, decoding and analysis techniques to obtain existing and deleted data from these iOS Devices: iPhone 2G, iPhone 3G, iPhone 3GS, iPhone 4, iPhone 4S, iPhone 5, iPhone 5S, iPhone 5C, iPhone 6, iPhone 6Plus, iPod Touch 1G, iPod Touch 2G, iPod Touch 3G, iPod Touch 4G, iPod Touch 5G, iPad Mini, iPad 1, iPad 2, iPad3, iPad 4.
12	Physical extraction and decoding from locked Nokia BB5 devices – password extraction from selected devices. should support decoding of Symbian databases including Decoding of intact and deleted contacts, SMS, MMS and call logs; Decoding support for multilingual content.
13	Should support File system extraction from any device running Windows phone 7.5 and 8 including Nokia, HTC, Samsung, Huawei and ZTE.
14	Should support recovery of deleted data from unallocated space in the device's flash memory.
15	Should support decoding of JTAG physical extractions from a rich set of data.
16	Should support data extraction from portable GPS devices. It should provide a solution to the encrypted TomTom trip-log files that reside in the TomTom device STATDATA folder. It should support Extraction and decoding of existing and deleted data from TomTom devices. TomTom extraction and decoding of information includes: Home, Favorites, Recent, User entered, Locations, Last journey, Location, Date & Time, Routes, GPS fixes (also deleted), Deleted locations (of all categories)
17	Should support Data Extraction from Garmin & Mio devices. Extracted data includes: Favorites, Past journey (containing all the fixes during the journey), Deleted GPS fix
18	Should support comprehensive analysis capabilities including timeline, project analytics, malware detection, and watch list.
19	Should decrypt WhatsApp's new encrypted chat history database i.e. Crypt8.
20	Should support iCloud Backup to Decode the iCloud backup obtained from Apple devices
21	Shall be able to provide a phone power up cable, to be used on mobile device with damage batteries
22	Shall be able to provide generic Android, Windows phones file systems extraction
23	Shall be able to provide MD5 and SHA256 data integrity verifications
24	Shall be able to decode and extract password screen locks for certain devices
25	Shall allow extracted data to be searched, view and exported, including deleted data
26	Shall allow search of data either by specific parameters or open text
27	Shall be able to provide Analyst with ability to search and decode data using python scripting based programming
28	Shall be able to import 3rd party mobile device binary extractions for decoding
29	Shall be able to provide a comprehensive list of supported mobile devices and the their respective data and applications which could be extracted and decoded
30	GPS and location based data. <ul style="list-style-type: none"> <li>- Shall be able to do physical extraction of GPS devices;</li> <li>- Shall be able to extract GPS data (Geotag, GPS coordinates) from mobile device;</li> <li>- Shall be able to decode GPS data e.g. previously entered locations etc</li> </ul>
31	Shall be able to customize and generate reports in different format e.g. HTML, PDF, Excel etc
32	Shall be able to provide an application for report reading for non-licensed users
33	Shall be able to password protect sensitive reports
34	Shall be able to generate reports with organization logo

20/12/16

35	Shall be able to edit fields such as case name, number, examiner's name and more
36	Shall provide input cables for all phones that the system is able to support
37	Shall provide SIM ID Cloning Cards
38	Shall provide Micro, Nano SIM adapter
39	Shall provide either USB flash drive or memory card for saving of extracted data
40	Should support Entities bookmarks for Quick reference pointer set to analyzed data item and data file item.
41	Should support SQLite databases viewer for Viewing, searching and exporting tables and content (including deleted data) from SQLite database files.
42	Shall provide the support for Chinese phones extractions with different connectors in kit.
43	Should support Chinese chipsets from MTK (MediaTek), Spreadtrum and Infineon.
44	<b>Should support private cloud data analysis using credentials extracted from phones</b>
45	Should have warranty, updates and upgrades for 3 years.

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20/12/16

10	Should be able to generate following reports in PDF: <ul style="list-style-type: none"> <li>o Captured CDR</li> <li>o Frequency Report</li> <li>o IMEI Report</li> <li>o Location Report</li> <li>o Miss Frequency Report</li> <li>o Country Frequency Report</li> <li>o Call Type Analysis</li> <li>o Area Of Interest</li> <li>o Target to Target Party</li> <li>o Common Numbers Multiple Party</li> <li>o Common Call</li> <li>o Common Connections</li> <li>o Target List</li> <li>o First and Last call of the Day</li> <li>o Average CDR</li> <li>o Top 100 Calls</li> <li>o Single Number</li> <li>o Area of Interest</li> <li>o Target to Target Party</li> </ul>
11	Should be able to generate following reports in HTML: <ul style="list-style-type: none"> <li>o Location Party</li> <li>o Uncommon Party</li> <li>o Single Phone Multiple Party</li> <li>o Single SIM Multiple Phone</li> <li>o Green Tower Report</li> <li>o New Number Report</li> <li>o Frequency Report</li> <li>o CDR/CDR Search</li> <li>o Multiple calls between Target and other Party</li> <li>o Support List</li> <li>o Multiple Target used by Target</li> <li>o First and Last call of the Day</li> <li>o Area of Interest</li> <li>o Target to Target Party</li> </ul>
12	Should have advance filtering & searching system. It should able to filter by: <ul style="list-style-type: none"> <li>o Date range</li> <li>o Time range</li> <li>o Duration range</li> <li>o A Party name</li> <li>o B Party name</li> <li>o State/Country/Time zone</li> </ul>



3- CDR Analysis Software-	
1.	Should be able to install and run on standalone and Server-Client mode
2.	Should run on Windows XP, 7, 8/8.1 and 10
3.	Should be able to import CDR, Tower Dump & SDR of different companies and circles
4.	Should have a facility to import various formats of CDR's, IMEI Reports, Tower Data regardless of their company and format e.g. html, csv, xls, xlsx, txt, tab etc
5.	Should be able to analyze the ISD and Gateway data
6.	Should be able to analyze the exported files from Cellebrite's UFED and MSAB's XRY
7.	Should have an option to make groups in tower dumps
8.	Should have an inbuilt case management system
9.	Should have user management and access system
10.	<p>Should be able to produce following reports in CDR</p> <ul style="list-style-type: none"> <li>○ <i>Compiled CDR</i></li> <li>○ <i>Frequency Report</i></li> <li>○ <i>IMEI Report</i></li> <li>○ <i>Location Report</i></li> <li>○ <i>State Frequency Report</i></li> <li>○ <i>Country Frequency Report</i></li> <li>○ <i>Call Type Analysis</i></li> <li>○ <i>New No. Analysis</i></li> <li>○ <i>Target to Target Party</i></li> <li>○ <i>Common Between Multiple Cases</i></li> <li>○ <i>Conference Call</i></li> <li>○ <i>Circular Communication</i></li> <li>○ <i>Suspect List</i></li> <li>○ <i>First and Last call of the Day</i></li> <li>○ <i>Meeting Point</i></li> <li>○ <i>Day location</i></li> <li>○ <i>Night Location</i></li> <li>○ <i>Book Mark</i></li> <li>○ <i>Send to Google Earth</i></li> </ul>
11.	<p>Should be able to produce following reports in TDR:</p> <ul style="list-style-type: none"> <li>○ <i>Common Party</i></li> <li>○ <i>Uncommon Party</i></li> <li>○ <i>Single Phone Multiple SIM</i></li> <li>○ <i>Single SIM Multiple Phone</i></li> <li>○ <i>Cross Tower Report</i></li> <li>○ <i>New Number Report</i></li> <li>○ <i>Frequency Report</i></li> <li>○ <i>CDR/TDR Match</i></li> <li>○ <i>Multiple calls between Tower to other Party</i></li> <li>○ <i>Suspect List</i></li> <li>○ <i>Multiple Tower used by Target</i></li> <li>○ <i>First and Last call of the Day</i></li> <li>○ <i>Plot on Google Earth</i></li> <li>○ <i>Target to Target</i></li> </ul>
12	<p>Should have advance filtering &amp; searching system. It should able to filter to</p> <ul style="list-style-type: none"> <li>○ Date wise</li> <li>○ Time wise</li> <li>○ Duration wise</li> <li>○ A Party wise</li> <li>○ B Party wise</li> <li>○ State/Country/Day of week wise</li> </ul>

*20/12/16*

	○ Call type/IMEI Wise/IMSI/Cell ID wise
13	Able to search multiple items on single search like Mobile number, IMEI, Cell ID, MSC Code, Search SDR, LRN search, Cell ID
14	Should be able to import Database like Cell ID, Suspect Cell ID, Suspect
15	Number, Suspect IMEI, LRN Codes, MSC Codes and Suspect List.
16	Able to produce standalone report which can be viewed without any license
17	Should support Google earth map for different reporting
18	Should have link analysis facility
19	Should have Geo Fencing features for CDR calls as well as to identify installed towers in marked area
20	Should have facility to export all the report in CSV, xls, html, PDF etc
21	Should Export all CDR reports in HTML/xls in one touch with summary linked to other reports
22	Should have facility to backup and restore of cases
23	Should have facility to export/import CDR mappings from one computer to other
24	Three year warranty with upgrades
25	Onsite training to be provided with manual
26	<b>Should be dongal enabled</b>
27	3 Yrs updating & Support

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20/12/16

#### 5-Desktop with CPU and QI- printer/ Scanner/ copier -

- The desktop should have minimum Intel i3 processor 3.7 GHz or higher
- Windows 7 OS or later
- 8 GB or 16 GB RAM
- 1 TB SATA Hard Drive, 256 GB SSD for OS
- 22" LED Monitor
- DVD Writer
- Add External Blu-ray Writer
- At least 4 USB Ports
- The CPU should support 1080p with atleast 30 frames per second
- Minimum 1 year Warranty
- Vendor/Supplier should be able to provide on-site training, Print, copy and scan
- Printer should be Inkjet type and should print with 1200 dpi
- Printer should be A4 and White Paper
- Vendor/Supplier should provide



#### 4- Digital Video Camera-

1.	Carl- Zeiss Lens or Equivalent
2.	At least 2.7" vide LCD screen
3.	Memory 8 GB or Higher
4.	External memory 16 GB or Higher
5.	At least 25 X Optical Zoom
6.	2.7" or Higher Wide LCD screen
7.	8.0 Mega Pexels still image recording
8.	Steady Shot with active mode, Intelligent Auto
9.	Capable or recording high quality videos
10.	Built in Projector
11.	Face detection technology
12.	1920 x 1080 full High definition
13.	Built in USB
14.	Carrying Case & necessary cables should be provided.
15.	Minimum 1 year warranty

#### 7- Multi Card Reader

#### 5-Desktop with UPS and 01- printer/ Scanner/copier –

1	The desktop should have minimum
a.	Intel 3 <sup>rd</sup> gen core i5 2.7 GHz or Higher
b.	Windows 8 OS or Latest
c.	16 GB DDR3 SD RAM
e.	1 TB SATA Hard Drive, 256 GB SSD for OS
f.	22" LED Monitor
g.	DVD Writer
h.	Add External BlueRay Writer
i.	At latest 4 USB Ports
2.	The UPS should support 1000 VA with atleast 30 minutes backup Minimum 1 year Warranty.
3	Printer/Scanner should be able to
a.	Perform all the functions- Print, copy and scan
b.	Scanning should be flatbed type and scan image upto 1200 dpi.
c.	Print 18 ppm for Black and White Print
d.	Minimum 1 year warranty


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20/12/18

**6-Storage Media -**

1	Hard Drive 1 TB (2 Per Set)
2	Pen Drive 16 GB & 32 GB (10 per set)
3	External Hard Drive 1 TB (06 per set)
4	Internal Hard Drive 1 TB
5	BlueRay Disk writer
6	DVD R/W Disks (100 Per Pack) (02 Pack)

**7- Multi Card Reader**

1.	Shluld be compatible with wide range of memory or multimedia cards used in Digital Cameras, MPs Players Voice Recorders, PDA'S Cellphones, Computers and other digital storage devices.
2.	Should connect directly to a USB 2.0 (or USB 1.x) port on the workstation or laptop
3.	Should be able to acquire data from the following Cards:
4.	Compact Flash Card (CFC)
5.	Micro Drive (MD)
6.	Memory Stick Card (MSC)
7.	Memory Stick Pro (Ms Pro)
8.	Smart Media Card (SMC)
9.	XD Card (XD)
10.	Secure Digital Card (SDS)
11.	Multi Media Card (MMC)
12.	Mini 50
13.	Micro SD (for most mobile phones)
14.	Minimum 1 years warranty
15.	Onsite training to be provided

  
20/12/16



## 8-Furniture for the lab

1.	Table 08 nos.	5 X 3 Ft. with side racks and middle Slab well furnished mica top, Back Closing (Should be from reputed/Branded company)
2.	Chairs 08 nos.	Revolving height, support above table, front and back Cushion with side hand rest.

## 9-Networking and Broadband Internet connection charges (4 MBPS Broadband internet connection):

1.	Internet connectivity Installation with cables and router and Wi-Fi and LAN supported (both).
2.	This connectivity and Dedicated Lease Line for Two years, Connectivity speed 4 MBPS upto min. 30GB Data download with unlimited broadband Internet connection plan.

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