

## उत्तर प्रदेश पुलिस तकनीकी सेवायें मुख्यालय,

चतुर्थ तल, जवाहर भवन, अशोक मार्ग, लखनऊ-226001

पत्रांक-टीएस/एमओडी-120/2015-16 (एफएसएल)  
सेवा में

दिनांक, दिसम्बर 4 2015

निदेशक,  
सूचना एवं जन सम्पर्क विभाग, (विज्ञापन प्रभाग),  
उत्तर प्रदेश, लखनऊ।

विषय- आधुनिकीकरण योजना के अन्तर्गत निम्नलिखित उपकरणों के कयार्थ निविदा आमंत्रित किया जाना।

महोदय,

कृपया उपर्युक्त विषयक विज्ञापन की 05 प्रतियाँ अंग्रेजी / हिन्दी में मय सी0डी0 के संलग्न कर इस अनुरोध के साथ प्रेषित की जा रही है कि उक्त नोटिस को व्यापक प्रचार-प्रसार वाले प्रमुख दैनिक समाचार पत्र हिन्दी / अंग्रेजी जैसे दिल्ली/लखनऊ/मुम्बई से प्रकाशित होने वाले दैनिक जागरण, अमर उजाला, दि प्वाइनियर, टाइम्स आफ इन्डिया तथा द न्यू इन्डियन एक्सप्रेस आदि प्रमुख समाचार पत्रों में प्रकाशित करने का कष्ट करें।

2/ इस सम्बन्ध में निविदा के विज्ञापन की स्वच्छ टंकित प्रति एवं एमएस वर्ड (फारमेट में सी0डी0) साफ्ट कापी भी वेब साइट पर प्रसारित कराने हेतु संलग्न की जा रही है।

3/ अनुरोध है कि कृपया संलग्न निविदा को प्राथमिकता के आधार पर प्रकाशित कराने का कष्ट करें।

संलग्नक-विज्ञापन की प्रति 05 प्रतियों में।

2-सी0डी0की साफ्ट कापी।



(संजय कुमार) 12/15

अपर पुलिस अधीक्षक, तकनीकी सेवायें,  
निमित्त-पुलिस महानिरीक्षक, तकनीकी सेवायें,  
लखनऊ।

प्रतिलिपि-पुलिस महानिरीक्षक, प्रो0/बजट, उ0प्र0पुलिस मुख्यालय, इलाहाबाद को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित है।

2-प्रतिलिपि- पुलिस अधीक्षक/सहायक निदेशक, उ0प्र0पुलिस कम्प्यूटर केन्द्र, लखनऊ को विज्ञापित निविदा की एक प्रति एवं सी0डी0 संलग्न कर इस आशय से प्रेषित है कि उक्त निविदा को उ0प्र0पुलिस की वेबसाइट पर भी प्रसारित कराने का कष्ट करें। संलग्नक-यथोपरि

3-प्रतिलिपि-निदेशक, एफएसएल, लखनऊ लखनऊ को सूचनार्थ एवं व्यापक प्रचार-प्रसार एवं आवश्क कार्यवाही हेतु।

4-प्रतिलिपि- नोटिस बोर्ड तकनीकी सेवायें, लखनऊ को चरप्पा करने हेतु।

# उत्तर प्रदेश पुलिस तकनीकी सेवायें मुख्यालय,

चतुर्थ तल, जवाहर भवन, अशोक मार्ग, लखनऊ

संख्या-टीएस-एमओडी-120/2015-16(एफएसएल)

दिनांक -दिसम्बर 4 2015

## निविदा सूचना

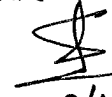
- 1- उत्तर प्रदेश पुलिस हेतु निम्न उपकरणों की सील बन्द निविदा भारतीय मैनुफैक्चरर/डीलर/रजिस्टर्ड फर्म/विदेशी मैनुफैक्चरर के अधिकृत विक्रेता से आमंत्रित की जाती है।
- 2- निविदा प्रपत्र व उपकरण से सम्बन्धित तकनीकी स्पेशीफिकेशन उत्तर प्रदेश पुलिस की वेबसाइट <http://uppolice.gov.in> से डाउनलोड किया जा सकता 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 देय होगा, जमा की जायेगी।
- 3- निविदा शुल्क किसी भी दशा में वापस नहीं किया जायेगा तथा निविदा स्वीकृत न होने की दशा में ईएमडी वापस कर दी जायेगी।
- 4- तकनीकी सेवायें मुख्यालय से नगद भुगतान पर टेण्डर डाकुमेंट्स विक्रय नहीं किये जायेंगे।
- 5- प्रत्येक टेण्डरकर्ता द्वारा टेण्डर की ईएमडीए 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 प्रोप्राइटरी आइटम या उनके समतुल्य उत्पाद/सेवा अन्तराष्ट्रीय स्तर के स्वीकार होंगे। प्रोप्राइटरी उत्पाद या इसके समतुल्य उत्पाद/सेवा सम्बन्धित 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 को निर्धारित अवधि में आपूर्ति करना होगा।
- 9- निम्न 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- निविदा के आइटम नम्बर 1 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 विचारा किया जायेगा।
- 12- तकनीकी मुख्यालय द्वारा जनहित में किसी भी समय बिना कारण दशायें टेण्डर को निरस्त किया जा सकता है।

टेन्डर संख्या	आइटम	सं०	ई0एम0डी0 ( ₹0 में )	टेण्डर डाकुमेंट का मूल्य ( ₹0 में )
(1) टीएस-मोड-48/2015-16	साइबर काइम फोरेंसिक लैब हेतु उपकरणों का कय	8	6,50,000.00	300.00
(2) टीएस-मोड-127/2015-16(FSL)	मोबाइल फोरेंसिक वैन किट्स	75	15,000.00	300.00
(3) टीएस-मोड-141/2015(FSL VNS)	हाई प्रेसीजन इलेक्ट्रॉनिक बैलेंस	02	10,000.00	200.00
(4) टीएस-मोड-143/2015(MDD-I)	फ्यूमिंग हुड	02	14,000.00	200.00
(5) टीएस-मोड-143/2015(MDD-II)	स्टीरियो माइक्रोस्कोप	01	15,000.00	200.00
(6) टीएस-मोड-143/2015(MDD-III)	टाइनाकुलर माइक्रोस्कोप	01	16,000.00	200.00
(7) टीएस-मोड-143/2015(MDD-IV)	यूवी वीआइएस स्पेक्ट्रोफोटो मीटर	01	12,000.00	200.00
(8) टीएस-मोड-143/2015(MDD-VI)	गैस क्रोमेटोग्राफ	01	21,000.00	200.00
(9) टीएस-मोड-144/2015(KNJ-I)	मफल फर्नेश हाइ टेम्परेचर विद प्लेटिनियम कूसिबिल	02	12,000.00	200.00
(10) टीएस-मोड-144/2015(KNJ-II)	डीप फ्रीजर -20 डिग्री 350 -550 लीटर	02	5,000.00	200.00

(11) टीएस-मोड-144 / 2015(KNJ-III)	सेन्टीफयूज रेफ्रिजरटेड	01	10,000.00	200.00
(12) टीएस-मोड-144 / 2015(KNJ-IV)	टाइनाकुलर माइक्रोस्कोप	01	8,000.00	200.00
(13) टीएस-मोड-144 / 2015(KNJ-V)	स्टीरियो जूम माइक्रोस्कोप विद एन्टी फंगल टाइप	01	27,000.00	200.00
(14) टीएस-मोड-144 / 2015(KNJ-VI)	स्टीरियो माइक्रोस्कोप	01	8,000.00	200.00
(15) टीएस-मोड-144 / 2015(KNJ-VII)	स्टेडर्ड टेस्ट सीव विद सीव शेकर	01	10,000.00	200.00

निविदा विक्री की तिथि  
निविदा फार्म विक्री करने की अन्तिम तिथि  
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

08.12.2015 समय 11.00 बजे पूर्वान्ह  
22.12.2015 समय 11.00 बजे पूर्वान्ह  
22.12.2015 समय 02.00 बजे अपरान्ह  
22.12.2015 समय 04.00 बजे अपरान्ह  
28.12.2015 समय 11.30 बजे पूर्वान्ह  
29.12.2015 समय 11.30 बजे पूर्वान्ह  
30.12.2015 समय 04.00 बजे अपरान्ह

  
04/12/15

(संजय कुमार)

अपर पुलिस अधीक्षक, तकनीकी सेवायें,  
निमित्त-पुलिस महानिरीक्षक, तकनीकी सेवायें,  
लखनऊ।

**U. P. POLICE TECHNICAL SERVICES HEADQUARTERS**

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

TENDER NO.: TS-MOD-120//2015-16(FSL)

DATED : December. 4 2015

**NOTICE INVITING TENDER**

- 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 given 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 returnable 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 as per need and the increased quantity will also have to be supplied within time stipulated by the Department.
- 9- The lowest bid will be decided on the basis of total cost (inclusive of all taxes.)
- 10- Tender item no.1 Technical Bid should be quoted with Hardware and software system separately according to technical specification.
- 11- In condition of amendment in any following item's specification. It will be uploaded before 7 days from submitting tender. *date*
- 12- The Technical Head Quarters may cancel the tender at anytime without assigning 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-48/2014-17L)	Cyber Crime Forensic Labs	08	6,50,000-00	300-00
(2)TS-MOD-127/2015(FSL)	Mobile Forensic Van Kits	75	15,00,000-00	200-00
(3)TS-MOD-141/2015 (FSL VNS)	High Precision Electronic Balance	02	10,000-00	200-00
(4)TS-MOD-143/2015-16( MDD-I)	Fuming Hood	02	14,000.00	200-00
(5)TS-MOD-143/2015-16 (MDD-II)	Stereo Microscope	01	15,000-00	200-00
(6)TS-MOD-143/2015-16 (MDD-III)	Trinocular Microscope	01	16,000-00	200-00
(7)TS-MOD-143/2015-16 (MDD-IV)	UV- Vis Spectrophotometer	01	12,000-00	200-00
(8)TS-MOD-143/2015-16 (MDD-V)	Gas Chromatograph	01	21,000-00	200-00
(9)TS-MOD-144/2015-16 ( KNJ-1)	Muffle Furnace high temperature with platinum crucible	02	12,000-00	200-00

(10) TS-MOD-144/2015-16 ( KNJ-II)	Deep Freezer -20degree centi.350 to 550 Ltr	02	5,000-00	200-00
(11)TS-MOD-144/2015( KNJ-III)	Centrifuge Regrigerated	01	10,000-00	200-00
(12)TS-MOD-144/2015 (KNJ-IV)	Trinocular Microscope	01	8,000-00	200-00
(13)TS-MOD-144/2015 ( KNJ-V)	Stereo Zoom Microscope(with anti fungal type)	01	27,000-00	200-00
(14)TS-MOD-144/2015 (KNJ-VI)	Stereo Microscope	01	8,000-00	200-00
(15)TS-MOD-144/2015 (KNJ-VII)	Standard test Sieve with Sieve Shaker	01	10,000-00	200-00

Start of Sale of Tender documents from

Last date of sale tender documents

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

08-12-2015 at 11-00 am

22-12-2015 upto 11-00am

22-12-2015 upto 02-00pm

22-12-2015 at 04-00pm

28-12-2015 at 11-30am

29-12-2015 at 11-30am

30-12-2015 at 04-00 pm

(SANJAY KUMAR)

Adl. Supdt. Of Police, Technical Services,  
For- Inspector Genl. Of Police, Technical Services,  
Lucknow.

Sr. No.	Portable Forensic Lab Description/ Specification
1	Should have standalone forensic acquisitions of all digital media in both field and lab
2	Device should support IDE/SATA/SAS/USB/Fire wire devices for imaging and provide add on for SCSI
3	Device should work with fastest available hard drives. Captures, authenticates and sanitizes at full SATA-3 speed (25 GB/min. Speed and more).
4	The device should run on a windows 7 based operating system or higher version and should have interactive touch screen for smooth operations. Should be able to install windows supported 3rd party software.
5	Device should have 2 SATA/SAS connections and 2 USB 3.0 connections. (Operator can choose to use either the SAS/SATA connection or the USB connection for each of the two "Suspect" positions)
6	Supports IDE, RAID, e-SATA drives as well as a variety of Micro Media cards.
7	Add on hardware to acquire data from CD/DVD .
8	Should support Cross Copy which allows user to image any "Suspect" Drive interface to any "Evidence" Drive interface. (i.e. IDE "Suspect" drive to SATA "Evidence" drive)
9	All Suspect connections should be permanently write-protected at all times to prevent changing Suspect Data
11	Should Captures 'Suspect' drive to one "Evidence" drive (Single Copy Mode), Captures "Suspect" drive to two "Evidence" drives (Multi Copy Mode), Captures 2 "Suspect" drives to two "Evidence" drives (Parallel Copy Mode)
12	Should allow examiner to perform Drive Wiping and Sanitization on destination drives
13	Should generate different hashing (MD-5, SHA-1 and SHA-2) of "Suspect" Hard Drive
14	Uploads suspect Images to Network Storage and or any attached Network Share
15	Should have USB to 1Gigabit Ethernet adaptor to upload data on high speed network.
16	Evidence can be saved as 100% copies, Linux DD images or E01 image files.
17	Should make 100% Copy: Bit-for-bit imaging with verification
18	Should have Linux DD: Supports storing single or multiple DD images (industry standard) on a single "Evidence" Hard Drive or USB storage device
19	User should be able to define the size of the Linux DD segments
20	Should have Built-in Decipher technology allowing the full encryption (AES -256) of Forensic Images. The process should be done without speed degradation during the acquisition phase
21	Forensic disk duplicator should allows for the imaging from one large "Suspect" drive to multiple smaller "Evidence" drives
22	Device should Support single pass drive wiping or full Department of Defense (DOD) Sanitization
23	Should allow the upload of Suspect Data Images to networked storage area using a built-in 1 Gigabit Ethernet connection.
24	Should allow examiner to preview active files on the Suspect Drive utilizing Windows 7 file viewers that allow previewing Word, Excel, PDF, text or multimedia (pictures, video and audio) files prior to seizing the data. Unit should also features a built-in Audio Head Phone Jack for discreet listening
25	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
26	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
27	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.

	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.
29	Should allow user to create physical drive from image
30	Should use Oracle or PostgreSQL database in background to store large amount of data.
31	Should have KFF hash library with 45 million hashes
32	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.
33	Should support RAM dump analysis.
34	Should support 32 bit or 64 bit windows .
35	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.
36	Should Supports analysis of encrypted images with popular encryption technologies, such as Credant, SafeBoot, Utimaco, EFS, PGP and Guardian Edge with known passwords.
37	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.
38	Should Create reports and export them into native format, HTML, PDF, XML, RTF, and more - with links back to the original evidence.
39	easy-to-use GUI with pre-defined and customizable data views, advanced filtering, dock able windows and automated data categorization.
40	Should have one screw driver set for opening of computer and laptop, Digital Camera with 20 MP to capture crime scene.
41	The solution should come in tough ,airtight , watertight ruggedized , wheeled carrying case
42	Should have 3 years warranty and updates for software.
43	SIM Card seizure
44	write block Memory card reader

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Forensic SIM Card Reader	
1	Should recover deleted SMS/text message and perform comprehensive analysis of SIM card data
2	Should have Unicode support to read multiple languages such as Arabic, Chinese & Russian.
3	Should includes SIM Card reader as well as micro and nano SIM Adapters



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TS - MOD-48/2015/6

## Technical Specification

### CDR Analysis Software:

- Should be able to install and run on standalone and Server-Client mode
- Should run on Windows XP, 7, 8/8.1 and 10
- Should be able to import CDR, Tower Dump & SDR of different companies and circles
- 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
- Should be able to analyze the ISD and Gateway data
- Should be able to analyze the exported files from Cellebrite's UFED and MSAB's XRY.
- Should have an option to make groups in tower dumps
- Should have an inbuilt case management system
- Should have user management and access system
- Should be able to produce following reports in CDR:
  - *Compiled CDR*
  - *Frequency Report*
  - *IMEI Report*
  - *Location Report*
  - *State Frequency Report*
  - *Country Frequency Report*
  - *Call Type Analysis*
  - *New No. Analysis*
  - *Target to Target Party*
  - *Common Between Multiple Cases*
  - *Conference Call*
  - *Circular Communication*
  - *Suspect List*
  - *First and Last call of the Day*
  - *Meeting Point*
  - *Day location*
  - *Night Location*
  - *Book Mark*
  - *Send to Google Earth*
- Should be able to produce following reports in TDR:
  - *Common Party*
  - *Uncommon Party*
  - *Single Phone Multiple SIM*
  - *Single SIM Multiple Phone*
  - *Cross Tower Report*
  - *New Number Report*
  - *Frequency Report*
  - *CDR/TDR Match*
  - *Multiple calls between Tower to other Party*
  - *Suspect List*
  - *Multiple Tower used by Target*
  - *First and Last call of the Day*
  - *Plot on Google Earth*

- Target to Target
- Should have advance filtering & searching system. It should able to filter to
  - Date wise
  - Time wise
  - Duration wise
  - A Party wise
  - B Party wise
  - State/Country/Day of week wise
  - Call type/IMEI Wise/IMSI/Cell ID wise
- Able to search multiple items on single search like Mobile number, IMEI, Cell ID, MSC Code, Search SDR, LRN search, Cell ID.
- Should be able to import Database like Cell ID, Suspect Cell ID, Suspect Number, Suspect IMEI, LRN Codes, MSC Codes and Suspect List.
- Able to produce standalone report which can be viewed without any license
- Should support Google earth map for different reporting
- Should have link analysis facility.
- Should have Geo Fencing features for CDR calls as well as to identify installed towers in marked area.
- Should have facility to export all the report in CSV, xls, html, PDF etc
- Should Export all CDR reports in HTML/xls in one touch with summary linked to other reports
- Should have facility to backup and restore of cases
- Should have facility to export/import CDR mappings from one computer to other
- Should be dongle based licensing.
- Three year warranty with upgrades.
- Onsite training to be provided with manual
- 3 Yrs updating & Support.




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<b>Forensic Multi Card Reader</b>	
1	Interface: eSATA and USB 2.0/1.1
2	Maximum Read Speed : eSATA -1500 MB/Sec USB 2.0/1.1 - 480 MB/sec/12 MB/sec auto sense
3	Supported Media : MicroSD, Sony M2, Secure Digital (SD) and SDHC (SD 2.0),SDXC, MiniSD, Multi Media Card (MMC & MMC Plus 4.2),Reduce Size MMC (RS-MMC)(adapted needed),Memory Stick (MS)(Magic Gate),Memory Stick Pro (MS Pro 4bit),Memory Stick Duo (MS DUO),Memory Stick Pro Duo (MS Pro Duo),Compact Flash Type I (CF I),Compact Flash Type II(CF II), Micro Drive, SmartMedia xD, in write blocking mode
4	Supported OS: Read Only Compatible with Windows OS <div> <div>Dimension: 4 in (W) x 5.5 in (D) x 1 in (H)</div> <div>Weight:7.6 oz (215 g) (approx.)</div> <div>Operating Temperature &amp; Humidity : 0°C to + 60°C, 5-95 % RH non condensing</div> <div>Storage Temperature &amp; Humidity: -20°C to + 60°C, 5-90% RH</div> <div>Warranty: 3 Year</div> </div>




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**Technical Specifications****High End Forensic Workstation**

1	Processor	Dual Intel Xeon E5 Processors ,8 Cores 3.5 GHz CPU speed; CPU Cache 20 MB or higher
2	RAM	32 GB DDR4 2133 Quad channel memory; Expandable upto 512 GB
3	Graphic Card	NVIDIA GeForce GTX 750ti,2GB GDDRS,5400MHZ;with 1x HDMI & 1x DVI ports
4	Optical Drive	Blu-Ray/DVD Burner Drive
5	Network Adapter	2 x GB LAN Controller(s),(Intel 82574L,10/100/1000Mbps)
6	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
7	Operating System	Window 7 or higher
8	Power Supply	1300 Watts or better SMPS
9	Write Blocker	Integrated IDE/SATA/USB/SAS/Fire wire for write protection of suspected storage device.
10	Cable & Adapter Set	3.5",2.5",1.8" & ZIF Drives
11	OS Drive	512 GB SATA 6 GBPS SSD Drive
12	Temp Drive	512 GB SATA 6 GBPS SSD Drive
13	Cache Drive	1x PCI-e 512GB internal SSD ( connected on board M.2 port )
14	Storage for Case Data	1x 3 TB 7200 RPM 6 GBPS Hard Disk Drive
15	Onboard Expansion Slots	7 X PCI Express (x16 Slots; Version 3.0)
16	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
17	Multi Card Reader	Should have integrated write Blocked Multi- Card Reader.
18	Peripherals	22" LED Monitor, Samsung/LG/Dell or equivalent ,wireless keyboard & mouse Logitech or equivalent
19	Warranty	3Years Parts and labour warranty
20	Toolkit	Multi-Piece toolkit to assist in Digital Evidence Gathering CD containing system restore media


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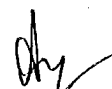
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Disk Duplication Device	
Sl. No.	Description/ Specification
1	The device should run on a windows 7 based operating system and should have interactive touch screen for smooth operations
2	Should be a standalone device support IDE/SATA/SCSI/SAS/USB/Fire wire devices for imaging.
3	Kit should have all cable connector for IDE/SATA/SCSI/SAS/USB/Fire wire HDD. Also have micro SATA, ZIF drives and 1.8" adaptors and connectors.
4	Device should work with fastest available hard drives. Captures, authenticates, and sanitizes at full SATA-3 speed (30GB/min. speed or better)
5	Device should have 2 SATA/SAS connections and 2 USB 3.0 connections. (Operator can choose to use either the SAS/SATA connection or the USB connection for each of the two "Suspect" positions)
6	Supports IDE, RAID, e-SATA drives as well as a variety of Micro Media cards.
7	Kit should have external CD/DVD drive to capture CD/DVD.
8	Should support Cross Copy which allows user to image any "Suspect" Drive interface to any "Evidence" Drive interface. (ie. IDE "Suspect" drive to SATA "Evidence" drive)
9	All Suspect connections should be permanently write-protected at all times to prevent changing Suspect Data
10	Should have 2 SATA/SAS connections and 2 USB 3.0 connections. Optional Drive Adapters should allow imaging to many other drive formats including external RAID devices
11	Should Captures 'Suspect' drive to one "Evidence" drive (Single Copy Mode), Captures "Suspect" drive to two "Evidence" drives (Multi Copy Mode), Captures 2 "Suspect" drives to two "Evidence" drives (Parallel Copy Mode)
12	Should allow examiner to perform Drive Wiping and Sanitization on destination drives
13	Should generate different hashing (MD-5, SHA-1 and SHA-2) of "Suspect" Hard Drive
14	Uploads suspect Images to Network Storage and or any attached Network Share
15	Should have USB 3.0 to Gigabit Ethernet converter.
16	Evidence can be saved as 100% copies, Linux DD images or E01 image files.
17	Should make 100% Copy: Bit-for-bit copy
18	Should have Linux DD: Supports storing single or multiple DD images (industry standard) on a single "Evidence" Hard Drive or USB storage device
19	User should be able to define the size of the Linux DD segments
20	Should have Built-in Decipher technology allowing the full encryption (AES -256) of Forensic Images. The process should be done without speed degradation during the acquisition phase
21	Forensic disk duplicator should allow for the imaging from one large "Suspect" drive to multiple smaller "Evidence" drives
22	Device should Support single pass drive wiping or full Department of Defense (DOD) Sanitization
23	Should allow the upload of Suspect Data Images to networked storage area using a built-in 1 Gigabit Ethernet connection.
24	Should allow examiner to preview active files on the Suspect Drive utilizing Windows 7 file viewers that allow previewing Word, Excel, PDF, text or multimedia (pictures, video and audio) files prior to seizing the data. Unit should also features a built-in Audio Head Phone Jack for discreet listening
25	Should have warranty for 3years.

  
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Sr. No	Cell Phone 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 fixe
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

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	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
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	Should have warranty, updates and upgrades for 3 years.

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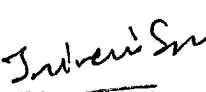
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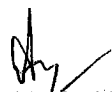
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Sl. No.	Data Retrieval Software
1	Should have gallery view option to quickly reveal all photographs and graphics files stored on hard drives and other media.
2	Should have timeline view option to provide an easily adjustable, graphical calendar like 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.

  
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File TS-MOD-127/2015-16

TS-MOD-127/2015

Name of item: Mobile Forensic Van Kits- (For Crime Scene Investigation)

Qty.-(75) (Seventy Five)

Performa for technical and Financial offer-

Kits For Crime Scene Management-

1. Set of Camera (Still & Video)
2. Crime Scene Protection Kit
3. SOC Tool Kit
4. Search Light/Flood Light
5. Tool Marks Developing & Texting Kit
6. Helmet/ head Protector with Light
7. Digital Microscope Illuminated-
8. Cold Chain maintaining Kit-DC Refrigerator
9. Collapsible Ladder
10. GPS Vehicle Tracker
11. First Aid box

Kits for Primary Detection:-

(A) Biological Materials Testing Kit-

- (12) Blood & Semen Detection Kit
- (13) DNA Sample Collection Kit

(B) Chemical Materials Testing Kit- Narcotics materials testing kits.

- (14) Narcotics Materials Testing kits.

(C) Physical Materials Testing Kit- All type physical materials to be tested by different type of kits.

- (15) Finger Print-Developing and Lifting Kit-Digital & Manual
- (16) Ballistics Kit- Firing/Shooter & Bullet Hole Testing Kit-Chemical Identification
- (17) Explosive Kit

(D) Evidence/ Sample Collection, Labelling, Packing & Sealing Kit-

- (18) This kit is required for different purposes; for Packing of exhibits/Samples recovered from Crime Scene; Vials, zippy bags, envelopes, cardboard of various size & Labelling Numbers in numerals and in Roman with English alphabets- A to Z.

Margherita

DB

Devi

DD (5/6/20)

TS- m20-127/26/15

**Kits For Crime Scene Management-**  
**01- Set of Camera--Still & Video**      **Non-Consumable Items-**  
**Qty:-01 unit**

SL No	Name of item required	Specifications	Qty.	Rate/Unit	Total Amount
A-Camera Digital Camera--Still Type		Display--LCD Monitor	01		
		Micro Lens- size-45 mm and above			
		Capacity-18-24 MP or more	01		
		Sensor --COMS/CCD Image sensor	01		
		Digital Zoom -10x-100x	01		
		JPEG Compatibility	01		
		Auto focus with Normal range- 50 cm Micro mode- 01 cm	01		
		DATA Card - 16 GB or more	01		
		Connectivity-USB & AV cable	01		
		Battery -Rechargeable Lithium-Ion			
		Adapter Charger 220-230V with Speed Data Card Reader.	01		
		With extra Memory card 32 GB	01		
		Large Metallic Tripod Stand.			
		Branded & Standard make and Model: preferably-Sony, Nikon, Canon & etc. With Standard Carrying Case			
B-Micro- Photography Lens Kit		Micro Lens- Auto Focus Micro & High Resolution- 60mm-f/2.8D With Luminance facility in built For Micro photography of Bullets, Hair & Medico-legal exhibits.	01 Unit		
C-Digital Video Camera		Video Camera with full HD Video Recording 25x Optical Zoom & 100x Digital Zoom. Compatibility- AVI, MPEG& WMV and others Rechargeable Battery Pack with AC Adapter 220-230 V With USB and AV Cable. Minimum data storage capacity 8 GB---02 nos With Folding Display Monitor minimum 3-5 Inch. Soft ware Case.	01 Unit		
D- LED light for Micro Photography		Two LED type optical source with flexible attachments for Micro level photography of Bullets, Medico-legal exhibits			


*[Handwritten signatures and initials]*


TS-MED. 127/2015

Power : DC operated with AC power adapter of variable light intensity  
Portability: carrying case

  
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Dy Dir -FSL-LKO

(Dr.S.B. Upadhyay)  
Director-FSLUP-LKO

- 2-MOD - 123 / 2015

**2-Crime Scene Protection Kit: Non-Consumable Items-**


**Qty:01 Unit.**

SL No.	Name of item required	Specifications	Qty	Rate/Unit	Total Amount
1	Crime Scene Protection Barrier Posts	Metallic & Folding Type	06		
2	Crime Scene Protection Barrier Tape	50x4= 200 M Re-Usable	01 Pkt		
3	Light Baton	LED Base	01		
4	Flasher with Stand	LED Base	06		
5	Labelling numbers in numerals (0-9)	Durable & Plastic	10 Pkt		
6	Labelling English alphabets- A to Z	Durable & Plastic	10 Pkt		
7	Set of Evidence Markers	Durable & Plastic	04 Set		
8	Set of Photo Direction Indicator	Durable & Plastic	04 Set		
9	Set of Evidence Marking Flags	Durable & Plastic	04 Set		
<b>Consumable Items-(For 100 Cases)</b>					
10	Face Mask	Medicated	20 Pkt		
11	Head Cover	Branded	10 Pkt		
12	Rubber Gloves	Branded	10 Pairs		
13	Cotton Gloves	Fine Quality	10 Pairs		
14	Latex Gloves	Branded	10 Pkt.		
15	Deodorizer	Branded with 200 gm Pkt	10 Pieces		
16	Carrying case	Rug ged	01		

  
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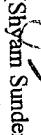
### 3-SOC Tool Kit- Non-Consumable Items


Qty: -01 unit

SL.No	Name of item required	Specifications	Qty	Rate/Unit	Total Amount
1.	Heavy-Duty Sledge-Type Mallet, Unbreakable	Rug ged	01		
5.	Tongs (9")	Stainless steel	05 Set		
6.	Hammerhead and Hatchet	Branded	01		
7.	Collapsible, Folding Steel Shovel	Branded	01 Pair		
8.	Heavy-Duty Rubber Gloves,	Branded	05 Pair		
9.	Pair of Safety Goggles with Eye Covers	Branded	01		
10.	Wire Cutter Pliers	Branded	01		
11.	Scraper/Putty Knife	Branded	01		
12.	Screwdriver with LED fitment	LED lights	01		
13.	Screwdriver (11")	Branded	01		
14.	Screwdriver (7")	Branded	01		
15.	Screwdriver Set of Four Mouth	Branded	01		
16.	Claw Hammer	Branded	01		
17.	All-Purpose Hack Saw with 8 Blade Positions	Branded	01		
18.	Electric Drill Machine	Branded	01 set		
19.	Set of Drill Bits	for wooden, metal and Mansion Size: 2-12 mm	01 set		
20.	Set of 3 Evidence Spider Holder, Different Sizes	Different Sizes 1"	01 Each		
21.	Heavy-Duty Masonry Chisel	1/4"	01		
22.	Wood Chisel	6" (Branded)	01		
23.	Regular Pliers	Branded	01		
24.	Blade Trowel	Branded	01		
25.	Metal Tool-Box Type Carrying Case	Branded	01		
26.	Body Suites	Disposable	10		
27.	Digital Vernier Calipers	Branded	01		
28.	Digital Screw gauge	Branded	01		

  
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4- Light Source / Flood Light Search -

Non-Consumable Items


Qty:-01

SL No	Name of item required	Specifications	Qty.	Rate/Unit	Total Amount
1	Light Source/ Flood Light with Accessories	LED Light Source Minimum for 3 directions with Rechargeable battery with charger, DC Battery and power 100W high beam luminance, 220-230 V- AC. Metallic & durable Tripod to hold Light 5ft folding with Rugged Carrying Case	03 nos.		

  
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**5- Tool Marks Developing & Texting Kit-**

Non-Consumable/ Consumable Items-


Qty:-01 unit

SL No	Name of item required	Specifications	Qty.	Rate/Unit	Total Amount
1	Tool mark frame for casting	Size: 2x2 inch, 4x6 inch & 6x9 inch	01 set		
	Metal quality	Aluminium			
2.	Lab Putty Catalyst	Dark and Light	01 kg each		
3.	Silicon Paste	Good quality	01 pkt		
4.	Set of plasticine	Good quality	1.0 kg		
5.	Cotton gauze roll	Good quality	10 pkt		
6.	Set of sticks	Good quality	10 pkt		
7.	Pack of tooth Pick	Good quality	10 pkt		
8.	Rubber Bands	Good quality	05 pkt		
9.	Adhesive Cement	Branded	1.0 kg		
10.	Modelling Tools	Metallic/ plastic	01 set		
11.	Surface Drawing Brush	Different size	06 pcs.		
12.	Measuring Tape	Branded 5 M	01		
13.	Lead Bricks	Lab Quality- Analytical	1.0 kg		

  
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Qty: 01 unit

6- Helmet/ Head Protector with Light - Non-Consumable Items

SL. No.	Specifications	Qty	Rate/Unit	Total Amount
1	Shape	01 Unit		
2	Protection Cover			
3	Internal Covering			
4	Head Light			
5	Focus			
6	Source			
7	Charger			
8	Carrier			

  
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**7. Digital Microscope / Poroscope-Illuminated-**


**Non-Consumable**


**Qty:-01 Unit**

SL.N.	Name Of items	Specifications	Qty	Rate/Unit	Total Amount
1	Image Sensor	5-8 MP, Colour CMOS	01 unit		
2	Still Image Capture Resolution	2592x1944, 2048x1536, 1600x1200, 1280x960			
3	Video Capture Resolution	1280x960			
4	Focus Range	Manual Focus from 10mm to 300mm			
5	Frame Rate	25fps or higher			
6	Magnification Ratio	10-300x			
7	Video Format	AVI or others			
8	Photo Format	JPEG or BMP or others			
9	Light Source	LEDs (brightness adjustable)			
10	PC Interface	USB 2.0 or higher			
11	Operation System	Compatible to all			
12	Viewing/determination	by software			
13	OSD Language	English			
14	Bundle Software	Micro Capture Pro with measurement & calibration function or equivalent			
15	Mini Fixed Stand/ Folding	Metallic, standard quality			
16	Other Inbuilt Facility	In built USB Connectivity to screen/PC/Laptop/ Printer Units			

  
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8- Cold Chain Maintaining Kit- DC Refrigerator - Non-Consumable Items


Qty: -01 unit

SL No.	Name of item required	Specifications	Qty.	Rate/Unit	Total Amount
1	Capacity	15-18 Ltr. or above	01 unit		
2	Voltage	12V/24V and 110V/220V			
3	Temperature	3 degree Celsius or less adjustable			
4	Quality	Branded& Standard make			

  
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**9- Collapsible Ladder-**

Non-Consumable Items


Qty:-01 unit

SL No.	Name of item required	Specifications	Qty.	Rate/Unit	Total Amount
1	Collapsible Ladder	Foldable	01 unit		
2	Length	12 Ft			
3	Steps	09 Steps or more			
4	Material	High Quality Aluminium			

  
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**10- GPS Vehicle Tracker-**

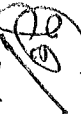
**Non-Consumable Items**


**Qty: 01 unit**

SLNo.	Specifications-	Qty.	Rate/Unit	Total Unit
1	Module : 900/1800/1900 MHz Tri-band GSM/GPRS module, 20 channel GPS receiver	01 unit		
2	System: GSM, GPS			
3	Output : Class 4 (2W for GSM 900) and Class 1 (1W for GSM 1800)			
4	SIM (RUIIM) Interface : External SIM, Power 1.8V & 3V			
5	SMS : Supports Text			
6	GPRS Packet Data Utility			
7	Indication: LED base, GSM, GPS			
8	Connectors/Switches: RS-232 type Serial Port Voice : Headset for two-way voice communication Switch : For emergency SMS and voice call			
9	I/O Ports: 1x ignition ON/OFF detection Input/Output: 2x and 1x digital type			
10	Power Supply: DC input voltage (9V - 30V)			
11	Internal Battery: Internal battery: 7.4/1700Ah Li-ion or more rechargeable			
12	Enclosure: Metallic			
13	Temperature: Operating: Thermo accessibility : -10 C to +55 C with Storage			
14	Humidity: Fully compatible			
15	Antenna: Combo antenna			
16	Software: PC Utility for configuring the unit			

  
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Qty:-01 Unit


**11 First Aid Kit:- Consumable- Items**

SL No.	Name of item required	Specifications	Qty.	Rate/Unit	Total Amount
1.	Body Case	Standard Case : Plastic/Polymer 350x235x80 mm	01 Unit		
2.	Size	Standard & Branded	10 Pcs. Each		
3.	Crape & Cotton- dressing Bandage	Standard & Branded	100 ml		
4.	Savlon/ Detol	Standard & Branded	02 Pcs. Each		
5.	Microbial Ointment	Standard & Branded	02 Pcs. Each		
6.	Antiseptic Cream	Standard & Branded	100 ml		
7.	Iodine Solution	Standard & Branded	10 Pcs.		
8.	Handy Plast	Standard & Branded	05 Pcs.		
9.	Sticky Tape	100x2=200 gm	200 gm		
10.	Cotton Bundle	Standard & Branded	10 tbs. in each strips		
11.	Medicines for pain, headache, sprain & etc.	Branded	10 Pcs.		
12.	Sterilized Gauge	SS- 6 inch	01 nos.		
13.	Scissor	SS- 6 inch pointed	01 nos.		
14.	Forceps				

  
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**12- Blood & Semen Detection Kit- Non-Consumable Items-**

Qty:- 01 unit

S.No.	Items	Specifications	Qty. for 100 Cases	Rate/ Unit	Total Unit
1.	Photograph Numbers-004SW	Matte-Finish Plastic 4 cm	03		
2.	Photograph Numbers 002SW	Matte-Finish Plastic 2 cm	03		
3.	Forensic Scale (metric), 105SW	Matte-Finish Plastic Metric	03		
4.	Photo Evidence Scales,	Matte-Finish Plastic White on black	01		
5.	Inner Storage Case	Water Proof	01		
6.	Attachable portable folding case	Black & Yellow Colour	05		
7.	Scissors - Stainless Steel, 6 inch	Surgical Grade	05		
8.	Forceps - Stainless Steel, 6 inch	Surgical Grade	05		
9.	Spatula - Stainless Steel, 6 inch	Surgical Grade	05		
<b>Consumable Items- For 100 Cases</b>					
1.	Contact Filter Papers	1" X 2" inch	100		
2.	What's man Filter Paper No 1,	Size 6" Disc	10 Pkt		
3.	Evidence Identification labels, "Crime Evidence"	Water Proof	100		
4.	Evidence Bags, 30mm x 101mm x 431mm	Bilingual Printed Kraft	100		
5.	Coin Envelopes, 89mm x 165mm	Bilingual Printed Kraft	100		
6.	Integrity Evidence Bags, 216mm x 180mm	Bilingual, Self Printed Sealing, opaque,	100		
7.	Integrity Evidence Bags, 406mm x 355mm	Bilingual Self Printed Sealing, opaque	100		
8.	Bottle of Distilled water in Aerosol 100ml	Sprayer Form	10		
9.	Blood Collection EDTA Vials/Tubes with stand	Good Quality - 10x10	10 Pkt		

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10	Thermacool box with ice pack & Foam Sheet	EDTA tube with stand storage	10 Pkt			
11	Glass Vials	Sterile	100 Pc			
12	Watch glass,	3" Dia,	02 pkt			
13	Spray Power	Standard	05 pkt			
14	Pricking Needles with Pricking Load Gun	Medicated	01 pkt			
15	Variati bob,	Chrome Plated,	01			
16	Scalpel Disposable	A Grade Plastic	10			
17	Blood Grouping kit with psyxi chamber	For Group A, B, O	05 set			
18	Spot Test Cards of Acid Phosphates Stains	Standard	50 pc			
19	Spot Test Cards of PSA	Standard	50 pc			
20	Blood Stain Detection Tablets	Standard	50 pc			
21	Blood Origin Identification Strip	(Hexagon OBTI)	50 pc			
22	Blood Stain/Evidence Template	Each template is die-cut and features a pre-printed scale and information blanks.	50 pc			
23	Cotton Balls	Each Pocket contains 100 Balls	05 Pkt			
24	Cotton Gauze Small Roll	Each Pocket contains 100 Balls	05 Pkt			
25	Cotton Gloves	Diff Size	20 Pairs			
26	Disposable Syringes	03ml- & 05ml= 50 each	100 Pc			
27	Biohazard Disposable Bag	775mm x 1041mm	50 Pc			


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28.	Plastic Jars with Caps sterile, Bilingual Printed	Bilingual Printed	50 Pc		
29.	Plastic Containers with Caps, Bilingual Printed	Bilingual Printed	50 Pc		

  
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**13- DNA Sample Collection Kit- Consumables Items-**


**Qty: 01 unit**

SNo	Name of item	Specifications	Qty	Rate/Unit	Total Unit
	<b>Consumable For 100 Tests</b>				
1	Sample Collection/Packing Box,	Unbreakable transparent plastic	100		
2	Blood Collection EDTA Vials/Tubes with stand	Good Quality - 10x10	10 Pkt		
3	Evidence Collection Instructions	Instructions should be simple & clear	100		
4	Oral Swabs & Smear Envelope	Self adhesive	100		
5	Clothing Bag	Size 20x15 inch, printed	100		
6	Debris Collection Envelope w/Paper Bindle, Sterile Swabs & Box	Size 15x12 inch, self adhesive ,printed	100		
7	Fingernail Scrapings/Swabs Envelope w/2 ea. Paper Bindles & Scrapers, Swabs & Swab Box	Size 4x8, self adhesive, printed	100		
8	Biohazard Label, Black on Orange	Printed	100		
9	Evidence Seals, Red, "Warning! Police Seal, Do Not Remove"	Should be florescent	100		
10	Specimen Bag containing a liquid-absorbing sheet	Size 1x1.5 ft	100		
11	Attachable Portable case	Rug ged	01		
12	Cotton Gauge	Sterilized	5Pkt		
13	Oral swab sticks	Sterilized packed	5Pkt		

  
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**14- Narcotics Detection Kit-**

**Consumables Items-**

**Qty: - 01 unit**

S.No.	Name of item With Specifications	Qty	Rate/Unit	Total Unit
	<b>For 100 Test</b>			
1	Marquis Reagent (Opium Alkaloids)	Each for 10 test		
2	Nitric Acid Reagent (Heroin/Morphine)	Each for 10 test		
3	Dille-Koppanyi Reagent (Barbiturates)	Each for 10 test		
4	Ehrlich's Reagent (LSD)	Each for 10 test		
5	Duquenois-Levine Reagent (Marijuana, Hashish, Hash Oil, THC)	Each for 10 test		
6	Scott Reagent Modified (Cocaine HCl, Crack)	Each for 10 test		
7	Methadone Reagent	Each for 10 test		
8	Ethyl Alcohol & Methyl alcohol Testing Kit	Each for 10 test		
9	Special Opiates Reagent (Fentanyl, Heroin, Oxycodone)	Each for 10 test		
10	Meckle's Reagent (All Heroin)	Each for 10 test		
11	Talwin (Pentazocine) Reagent	Each for 10 test		
12	Ephedrine Reagent (Ephedrine, Pseudoephedrine)	Each for 10 test		
13	Vallium, Rohypnol, Ketamine Reagent	Each for 10 test		
14	Sodium Nitro Prusside Reagent (Methamphetamine, MDMA)	Each for 10 test		
15	Acid Neutralizer, 1 oz. (30ml)	Each for 10 test		
16	Carrying case	Each for 10 test		

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15- Explosive Kit- chemical based Consumable Items

Qty:- 01 unit


Sl.No.	Specifications	Qty.	Rate/Unit	Total Unit
	For 100 Test			
1.	TNT/PETN/RDX/Nitrate	10 test		
2.	Tests for polynitro aromatic explosives	10 test		
3.	Tests for nitrate-esters nitro mines	10 test		
4.	Tests for chlorates/bromates	10 test		
5.	Test Urea nitrate specifically from other nitrates	10 test		
6.	Ammonium Nitrate test	10 test		

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16- Finger Print Kit- Non-Consumable/ Consumable -Items

Qty:- 01 unit

S.no.	Items	Specifications	Qty.	Rate/Unit	Total Unit
<b>Non-Consumable</b>					
1	Magnifier Normal Branded & Scaled free-hand	10 X 3" Dia	02		
2	Magnifier White Light Illuminated/Lien-mounted	3 X 3" Dia	02		
3	Scissors	6"	06		
4	Scapel	6"	50		
5	Tweezers	Plastic & Steel	10		
6	Attachable portable Case	Colour- Black & Yellow	01		
7	Inkless fingerprint pad big size	Black elimination slip pad	01		
<b>Consumable-Items: For 100 Cases</b>					
1	Finger Print Regular / Normal Powder - Black	Normal Powder - Black 100X10gm pack each	1000 gm		
2	Finger Print Regular / Normal Powder - Grey	Normal Powder - Grey	100 gm		
3	Finger Print Regular / Normal Powder - White	Normal Powder - White	100 gm		
4	Finger Print- Regular/Normal Powder-Dual Use	Normal Powder - Dual Use	100 gm		
5	Finger Print Black Lifters, Bilingual Printed	Printed	50		
6	Finger Print White Lifters, Bilingual Printed	Printed	50		
7	Finger Print Transparent Lifters, Bilingual Printed	Printed	50		
8	Finger Print Black Backing Cards	Printed	50		
9	Finger Print White Backing Cards	Printed	50		
10	Finger Print Powder Blower / Sprayer	Printed	01		
11	Finger Print Feather Marabou Brush - Heavy	Heavy	02		
12	Lip Mark Lifting tape	As per norms	10		
12	Finger Print Feather Ostrich Brush - Heavy	Heavy	02		
13	Finger Print Magnetic Powder Applicator	Branded	02		
14	Soft Hair Brush	Branded	03		

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15	Finger Print Lifting Tape	1"	04 -pcs		
16	Finger Print Lifting Tape	2"	04 - pcs		
17	Soap & Small Towel	Branded	05 Each		

  
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17- Ballistics Kit- Firing/Shooter & Bullet Hole Testing Kit-Chemical Identification - Consumable-Items:

Qty:- 01 Unit

Sl.No.	For 100 cases	Specifications	Qty.	Rate/Unit	Total Unit
1.	Lead Testing Reagent	Laboratory grade Branded	40 test		
2.	Nitrate Test	do	40 test		
2.	Lead Solvent	do	10 test		
3.	Copper Testing Reagent	do	10 test		
4.	Blotting Test Papers	do	10 test		
5.	Zipper Bags for positive Test Papers	do	10 test		
6.	Distilled Water Bottle	500mlx2	1.0 lit		
7.	Instructions Sheet	Branded	02 nos.		
8.	Metallic/Plastic Scale for Photography	Branded	02 Each		

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**18- Evidence / Sample Collection, Labelling, Packing & Sealing Kit- Consumable Items- Qty:-01 unit**

SL.No	Name of item required	Specifications	Qty	Rate/ Unit	Total Amount
1.	Vials for body fluids	7 ml, 10 ml, 50 ml	Each 50		
2.	Zippy bags three size- Transparent	Quality Product/Size: 3x5 inch, 4x6 inch & inch	Each 50		
3	Envelopes size 10"- 15"	Inner plastic coated	1000		
4	Envelopes size 23"- 10"	Inner plastic coated	500		
5	Envelopes size 11"- 25"	Inner cotton coated	500		
6	Envelopes Bags 350X250 mm	Self Adhesive opaque	10 Pkt		
7	Evidence Bags 216X180 mm	Self Adhesive opaque	10 Pkt		
8	Evidence Bags 406 X355mm	Self Adhesive opaque	10 set		
9	Labelling (adhesive) 6"x6"	Numbers - numerals and roman with English alphabets- A to Z	Each 50		
10	Plastic container	Set of three size 25ml, 50ml, 100ml	10 pkt.		
11	Integrity Evidence Bags 315X230mm	Electric Sealing, Transparent	10 pkt.		
12	Integrity Evidence Bags 195X135mm	Electric Sealing, Transparent	5 pkt.		
13	Bio hazard levels	Fluorescent	10 PC		
14	Plastic Jars set different size	Printed Crime detail	1 Piece		
15	Rechargeable Vacuum cleaner	With Recharging unit 100 watt			
16	Electric Sealing Machine	Monogram(As Required)	01 Pc		

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Note:-

- (1) All items of kits should be quoted for branded quality and standard make and model with IS/ISO Or equivalent mark Certification.
- (2) All items of kits should be covered 3 years extensive warranty.
- (3) Demonstration will be required for all kits.
- (4) Validity & expiry of contents of all kits minimum 3 years.
- (5) All kits must be separately packed in heavy carrying case/bags.
- (6) All evidence collecting, packing material/ containers should be bilingual printed with case crime points and kit details.
- (7) Tenderer must quote the financial bid for above every item separately, however the purchase committee reserves the to drop or cancel any item for cost/ budget consideration after deciding L-1 bid.
- (8) L-1 bid will be decided on basis of total cost of all kits, not on the individual item/kit cost.

  
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TS-mod - 141/2015-16

Electronic Balance

Specifications:

Capacity :	0.01mg-210g
Readability :	0.01mg
Repeatability :	± 0.1mg
Linearity (g) :	± 0.3mg
Response time (avg) :	3 sec
Tare Range :	Full to Capacity
Selectable application programs :	Mass unit conversion by toggling, tare, net total, weighing in percent, counting, averaging.
Display Update :	0.1-0.4 sec
Selectable Weight Units	gm, kg, mg
Display Type :	LCD Display with Backlit
Allowable ambient	0°C to 40°C
Operating temp. :	
Sensitivity Drift : (10°C – 30°C)	±1 ppm/°C
Interface :	USB
AC Power source :	AC Adapter 220V AC
Power Consumption :	Approx. 16VA by AC Adaptor
Pan Size :	3.1" or more (Inner diameter) (Three side weighing Pan)
Calibration :	Motorized internal auto calibration, external calibration 100g or more
Below Balance Hook :	A port for a hanger for weighing below the balance is available.

Should be provide Printer, carrying case, USB connector kit, Rechargeable external battery pack, Data transfer software, external calibration mass and Density determination kit.

Air conditioning Device and Work station.

Firm should be approved by calibration certificate from NPL India or other certifying organizations as per IS.

The Instrument should be quoted as a complete device at the time of installation.

Warranty: 3 years comprehensive warranty.

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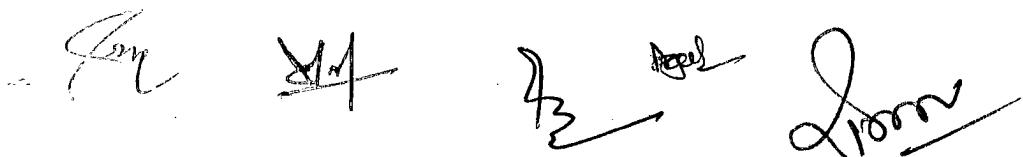
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TS MOD - 143/2015 (MOD - 1)

## Fume Hood

### Technical Specification

1. Internal Dimension- 1800 x 940 x 1200 mm (LXDXH) or more comply with ASHRAE-110 standard or ISO certified.
2. The fume hood chamber will be kept upon the base cabinet at the height of 900 mm from the floor.
3. The fume hood chamber will have a sash door with facilities for moving sash up and down freely and it should be acid resistant & corrosion resistant.
4. The interior and exterior area of the fume hood chamber will be the combination of poly glass/FRP reinforced with BISPHENOL/ESTERVINYL to withstand Acid and Toxic fumes. There will be no exposed screw fixing in inner part of fume hood chamber.
5. Sash door will be made up of heat resistant 6 mm safety glass. Fitted with effectively controlled counter balanced system having FRP sliding channel.
6. The fume hood chamber will have pilot indicators internal lighting electric control panel having flush mounted switches for providing electric current for the appliances kept in fume chamber. Control panel should be fixed with on/off switches for mains, motor-blower and light ( CFL) metal clad socket and gas cock should also be provided in the chamber from both side.
7. The fume hood chamber should be fitted with ceramic Sink size 30x45 cm and resistant fitting with high quality three way water tap and water outlet facility.
8. The surface (base) of the chamber will be of acid resistant ceramic tiles.
9. The suction impeller of the exhaust system will be dynamically balanced for continuous soundless and vibration free running and will be made high grade fully molded poly propylene.
10. Electric motor will be of single phase 2 HP 220 volt Crompton make with 1440 rpm complete with brackets for mounting the motor fan duct etc with support structure and the impeller mounting on motor shaft.
11. The fume duct will be made of high grade PVC/FRP of at least 6" diameter.
12. The base cabinet of the fume hood chamber will be made up of CRCA, Heavy gauge metallic sheets with two pair of epoxy coated double cup board and single drawer unit along with locking system in each cup board and drawer.




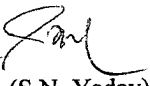
TS-MOD-143/2015-16 (MOD-1)


13. Fume hood chamber should be fitted with water scrubber unit and water tank.


14. Fume hood chamber should be complete in all respect and supplier will provide all accessories for installation i.e. laboratory will not provide any accessories like extra PVC water storage tanks wire & cables etc

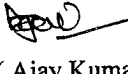
15. Five years CMC of motor & scrubber unit after two years standard warranty i.e. total seven years of complete warranty.

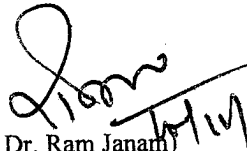
  
(Manoj Sagar)  
SSA

  
(S.N. Yadav)  
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(C.P. Pandey)  
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(Arun Sharma)  
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(Ajay Kumar)  
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(Dr. Ram Janani)  
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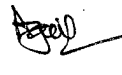
## Stereo Microscope

### Technical Specification

Stereo microscope is required for routine Forensic analytical work i.e. physical and biological examinations having following specifications:

1. Optical System: Optic zoom parallel system
2. Optical resolution: Apochromatic standard objective
3. Magnification range: 5x to 320 X
4. Binocular Tube: 0-45 degree rotate able to 360 degree
5. Zoom Range: 0.8 x- 5 x with magnification ratio of 1:6 ( min)
6. Inter- papillary distance approximately 55 mm – 75 mm adjustable.
7. Free working distance: approx. 75-80 mm at 1x Objective
8. Field of view: 22 mm.
9. Eye pieces: 10 x 22 mm, focusable and adjustable.
10. Depth of field: 70 microns at W10 x / 22
11. Eye pieces: 10x with diapter adjustment
12. Illumination system: Diascopic white light LED with constant temperature
13. Camera: Microscope dedicated high speed digital cooled colour CCD camera with high resolution viewing of live image on computer screen and active CCD sensor, minimum 8.0 mega pixel. Compatible software for image automation, display of micrometer scale and measurement etc.
14. Computer: One suitable latest PC with i3 or better processor with minimum 4GB RAM, 17 inch or more LED monitor with high resolution, photo quality laser printer and configuration as per required for microscope camera.
15. UPS of 30 min backup on full load.
16. A Lab work station with suitable working chairs & coolant system ( air conditioning about 1.5 ton)
17. Suitable dust protecting covers for each item.
18. System should be complete at the time of installation.

**Warranty: Two years, back up of parts: 5 years**

     
( Manoj Sagar ) ( S.N. Yadav ) ( C.P. Pandey ) ( Arun Sharma ) ( Ajay Kumar )

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( Dr. Ram Janam )

## Trinocular Microscope

### Technical Specification:-


1. Trinocular Microscope with variable light path for visual examination and camera.
2. Trinocular optical tube with range of  $30^{\circ}$ - $45^{\circ}$  viewing angle.
3. 2 step focus drive (coarse, fine) or better.
4. 5 or 6 fold nose piece.
5. High resolution and antifungus treated plan achromat objectives 10x, 20x, 40x and 100x (oil).
6. Mechanical stage with micrometer attachment and it has movement up/down & traveling
7. Automated or standard condenser.
8. Transmitted light LED illumination system-spare one LED.
9. Eyepiece PLAN 10x/20-25mm - 2 set.
10. Microscope dedicated high speed digital cooled colour CCD camera (branded) with high resolution viewing of live image on computer screen and active CCD sensor, minimum 8.0 mega pixel
11. Compatible software for image automation, display of micrometer scale and measurement etc.
12. One suitable latest PC with i3 or better processor with minimum 4GB RAM, 17 inch or more LED monitor with high resolution, photo quality laser printer and configuration is required for microscope camera.
13. UPS of 30 min backup on full load.
14. A Lab work station with suitable working chairs & cooling system (air conditioning about 1.5 ton)
15. Suitable dust protecting covers for each item.
16. System should be complete at the time of installation.


**Warranty: Two years, back up of parts : 5 years**


					
(Manoj Sagar)	(S.N. Yadav)	(C.P. Pandey)	(Arun Sharma)	(Ajay Kumar)	(Dr. Ram Janani)
SSA	SSA	SSA	SO	DD	JD


## Technical Specification


TS-MOD-143/2015-16 (MOD-IV)


  
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 SSA


  
 (S.N. YADAV)  
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 (JAY KUMAR)  
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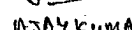
  
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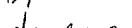
  
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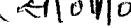
  
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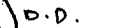
  
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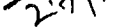
  
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## GAS CHROMATOGRAPH

### Technical Specifications

**A. System should be Microprocessor Controlled with following features-**

1. Column Oven of approximately 12-15 liters.
2. System should have Multi channel & Multifunction control with accuracy and ease of operation
3. Method / Programme can be developed, stored, recalled and run with simple keyboard operation
4. Column Oven Temperature Ambient to 400°C in steps of 1°C
5. Minimum no. of Ramps should be 6 .
6. Programme Rates: 0 to 30 deg C/min. in steps 0.1 deg C steps.
7. Facility for the storage of at least 10 method files. Should be retained in memory when Mains is switched off.
8. Event controls, Auto diagnostics and RS232 interface for Data Communication should be provided.
9. Six Ways Temp. Control System (Oven, Inj, Det, TCD, Aux1, Aux2).
10. Injector system should consist of a SS body which fits into a universal base and accepts Removable Glass insert.
11. Dual Vertical Injection Ports capable to accept Two Fused Silica Capillary Columns. There should be a heated universal injector base.
12. Fast heating and Cooling Speed by Unique Double Air Flow Cold Hot alternate system.
13. Quartz Jet with all glass system
14. Large Screen with Backlight Lattice to show all parameters with user friendly key Board design. Must have simultaneous display of Set & Actual Temp.
15. All SS Diaphragm Regulators
16. Built in Auto Program Start system.
17. Unique Zero Crossing Pulse Triggering Control system that resists the electromagnetic Interference Enormously.
18. Separate Hydrogen Line for dual FID
19. Over Heat Protection for all the 6 heated Zones.
20. DFC Valves for Packed Columns.
21. Stop Watch Function for easy flow Measurement of gases.
22. High Sensitivity for testing of Mixing at Ultra Low/ Trace Levels.
23. Advance Pneumatics for Flow Control.
24. Intelligent breakdown self-checking and alarm function.

**B. Detectors- Dual Flame Ionisation Detector (FID)**

**C. Recording Device - Latest Windows based Dual Channel Chromatography Data Station with latest PC with Printer (Branded) Compatible with GC and Recording Device.**

**D. Following Standard Accessories should also be quoted.**

1. Nitrogen, Hydrogen and Zero Air Cylinders of 47 Ltr. Water capacity filled with High purity gases and fitted with double stage pressure regulators.
2. UPS of 5 KVA for Gas Chromatograph.
3. Fused Silica Capillary columns of 30 mtr length **one each** for Blood Alcohol, Pesticides, Petroleum Residue Analysis.

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



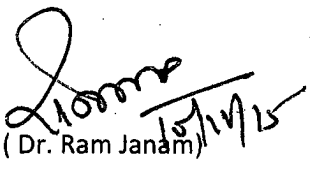
4. Liquid syringe of 10ul capacity (6 Nos.)
5. Liquid syringe of 1ul capacity.(6 Nos.)
6. Silicon Rubber Septum – 100 Nos.
7. Gas Purification and Control Panel for N2, H2 and Zero Air Gas Cylinders
8. Spares for Three years of operation.

**E. A Lab work station with suitable working chairs & air conditioning System (about 1.5 ton)**

**F. System should be complete at the time of installation.**

**G. The supplier should also provide all the consumables, connectors, cables etc. along with the system. The supplier should provide free training at our lab free of cost & should also give at least 3-4 days training to our Scientist free of cost at Principals Factory.**

**Warranty: Two years, back up of parts: 5 years**

					
( Manoj Sagar)	(S.N. Yadav)	( C.P. Pandey)	( Arun Sharma)	( Ajay Kumar)	( Dr. Ram Janam)
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TS-MOD-144/2015-16 (KINJ-1)

## Muffle Furnace (High Temp)

### Specifications

- 25-11-11
- Inside Chamber Size 6" x 6" x 6", 3.6L approx with swing aside door at the front
  - Furnace construction (i) Double shell steel case with cooling fan to keep outside case cool
  - (ii) High purity alumina fiber insulation for max. energy saving
  - Heating element The chamber section should be heated by six to eight Super Kanthal Molybdenum
  - disilicide heating elements (Super 1800 grade MoSi<sub>2</sub>) suspended in a chamber made
  - of high temperature refractory fiber lined with a combination of ceramic fibre blankets.
  - Standard Working
  - Temperature 1600° C (continuous)
  - Maximum Working Temperature 1700° C (< 3 hours)
  - Temperature Control The temperature controller should be a PID automatic control power control and programmable with necessary safety features.
  - Heating Rate The furnace should be of fast heating type with the maximum attainable temperature should reach as a ramp function in less than one hour.
  - Temperature Accuracy +/- 1.0 °C
  - Thermocouple Pt. Pt. Rh. Thyristor controller will be provided along with the furnace to measure the temperature with Recrystallized alumina sheath & connecting holder complete set.
  - Cooling Fan Air Circulation Attached with Furnace, Provided inside the control unit to protect Costly component
  - Max. Power Upto 8 KW Certificate CE certified
  - Along with the furnace one set of the following accessories should be provided
- | Description                                       | Quantity   |
|---|------------|
| Al <sub>2</sub> O <sub>3</sub> Sample Plate       | 1 pcs      |
| Al <sub>2</sub> O <sub>3</sub> Furnace Door Block | 1 pcs      |
| Protection Glove                                  | 2 pairs    |
| Crucible Clip                                     | 1 pair     |
| Crucibles   | 6 pcs      |
| Platinum crucible 50 ml                           | -----02 pc |

Vipin (VIPIN ASHOK) (SA) FSL LKO  
Pais (Bankajkrishna) SO FEL LKO  
DR. P. R. K. (SIO) FSL LKO  
S. J. S. (SIO) SO FEL LKO  
R. K. (SIO) SO FEL LKO  
R. K. (SIO) SO FEL LKO

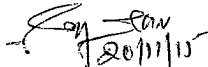
TS-MOD - 144/2015-16 (KNJ-II)

(2) Name of Instrument: DEEP FREEZER -20° C

QTY (01)

SPECIFICATIONS:-

- Type vertical Branded and frost free
- Capacity: Should be 350-550 L
- Door: single door
- Number of Selves: 2 + 5 Drawer
- Sealed drawer to prevent frost loss from open door.
- Should be micro-processor controlled with digital display of temperature.
- Temperature range: From -15 °C to -4°C
- Should have quick freezing function
- Body insulation should be more than 75 mm thick. Poly acrylamide with metal.
- Energy consumption should not be more than 1 unit / 24 Hrs.
- Should be supplied with suitable voltage stabilizer
- Movement: Must have movement on durable wheels.
- Power supply: 230V AC, 50 -60 Hz
- 5 years comprehensive warranty.
- Instrument should be <sup>with</sup> coated with make model No. along with working manual with original brochure .
- The system should be <sup>with</sup> coated as a complete device at the time of installation.

  
(SN Yadav)


Sr. Scientific Assistant  
FSL UP Lucknow

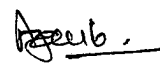
  
(Dr Faizan Ahmad Khan)

Scientific Officer  
FSL UP Lucknow

Vipin  
(VIPIN ASHOK)  
(SA)  
FSL LKO

Pankaj  
(Pankaj Krishna)  
S  
F.S.L LKO

  
(Sanyas Sudas)  
S.O. B.L. LKO

  
(ASHY KUMAR)  
D.O. LKO

TS-MOD-144/2015-16 (KNJ-III)

**List of basic instruments for starting of new Biology Lab**

(1) Name of Instrument: - CENTRIFUGE REFRIGERATED QTY (01)

**SPECIFICATIONS**

- Max. Speed 25,000 rpm
- Max. RCF 16873 g
- Max. Capacity 400 ml at one Time
- Temp. range should be - 8 °C to ambient Temp.
- Pre Cooling facility should be there.
- Fast Spin
- LCD Display
- Self-Diagnostics of errors
- Brushless motor with frequency drive provided
- Choice of rpm / rcf setting
- Digital countdown timer 0-99 min & Continuous run
- Parameter should be set through bi directional encoder.
- Automatic door opening
- Gas Hinge to prevent door falling
- Automatic Rotor Identification provision of rotor three-four type of tubes 20, 10, 5 & 1.5 ml
- Imbalance detection with centrifugation cut off
- Heavy Duty compressor with 05 years warranty fitted with rear side of the unit to minium noise.
- Low noise less then 56 dB. With low vibration.
- Dimension- approx.. 30X46X25 cm
- Supplied with Suitable Voltage Stabilizer.
- Instrument should be coated with make model No. along with working manual with original brochure .
- The system should be coated as a complete device at the time of installation.

Pankaj  
(Pankaj Krishna)

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Sr. Scientific Assistant  
FSL UP Lucknow

Dr Faizan Ahmad Khan  
(Dr Faizan Ahmad Khan)  
Scientific Officer  
FSL UP Lucknow

AS. L. L. K.

Vipin

(VIPIN ASHOK)

SA

FSL LKO

Shyam Sundar  
(Shyam Sundar)  
SA FSL LKO

Asad Khan  
(ASAD KHAN)  
DO LKO

TS-MOD-144/2015-16 (KNJ-IV)

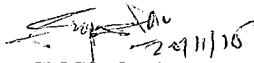
(12) Name of Instrument: TRINOCULAR MICROSCOPE (ANTI FUNGAL TYPE) OF  
STANDARD MAKE QTY (01)

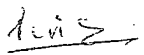
SPECIFICATIONS:-


- Optical System - Infinity corrected (CFI) optical system
- Magnification - 40 x- 1000x for observation with 100 x oil immersion observation.
- Eyepiece Tube - Trinocular Tube (Inclination: 30°. Interpupillary Distance: 47-75mm, 360 Deg Rotatable .
- Eyepiece - 10x (paired) with F.O.V. 20mm or with diopter adjustment facility on both eyes and micrometer in one eyepiece. Anti fungus type.
- Nosepiece - Quadruple Nosepiece Reversed Type.
- Stage - Should be refocusing type the stage can be instantly dropped by pushing it down to exchange specimens or oil the slide, then returns to the original position as soon as the hand is removed .
- Stage size - Stage should be rectangular 216 x 150mm surface stage mounted on the main body. Stage should accommodate 2 slides at a time. Stage should be provided with upper limit stopper.
- Objectives - Plan achromat 4x N.A. 0.10 W.D. 30.0mm, plan achromat 10x N.A. 0.25 W.D. 7.0mm, plan achromat 40x N.A. 0.65 W.D. 0.65mm, plan achromat 100x oil 1.25 W.D. 0.23mm
- Condenser - ABBE condenser N.A. 1.25.
- Illumination system - High intensity led with fly eye lens for eco Illumination and 60,000 hrs lifetimes
- Course/ fine focusing - Fine: 0.2mm per rotation, course: 37.7mm  
Per rotation, minimum reading: 2 microns on left- side fine control knob.
- Microscope should be upgradable with one camera, simple polarising, & epifluorescence attachment. In future.
- Installation table along with operating adjustable comfortable chair
- Five year comprehensive warranty and AMC.
- Instrument should be quoted with make model No. Along with working manual with original brochure .
- The system should be quoted as a complete device at the time of installation.

Vipin

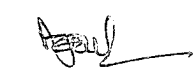
(VIPIN ASHOK)  
SA, FSL LKO

  
(SN Yadav)  
Sr. Scientific Assistant  
FSL UP Lucknow

  
(Chandrajit Mishra)  
FSL UP Lucknow

  
(Dr. Faizan Ahmad Khan)  
Scientific Officer  
FSL UP Lucknow

  
(Dr. Faizan Ahmad Khan)  
FSL UP Lucknow

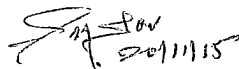
  
(Dr. Faizan Ahmad Khan)  
FSL UP Lucknow

TS-MOD-144/2015-16 (KNJ-V)

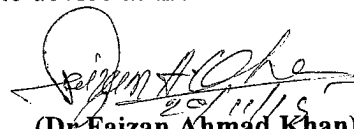
(09) Name of Instrument: Stereo zoom Microscope (Anti fungal type) of standard make QTY (01)

**SPECIFICATIONS:-**

- Optics : Infinity corrected optics system
- Total Magnification : 3X-300X(with various combinations)  
(6.7X to 50X with 1X objective & 10X Eyepieces).
- Eyepiece tube : Trinocular tube inclination at 45°
- Inter pupillary distance : 52-75 mm  
Adjustment
- Eyepieces : 10X (F.N.22) with Diopter adjustment on both the eyes and micrometer scale in one eyepiece.
- Zoom Range : 0.67X-5X
- Zooming Ratio : 7.5:1 or more
- Objective : 1X, 2X, 10 X
- Working distance : 115mm or Higher
- Illumination system : Diascopic LED stand illumination and episcopic LED Ring Illumination.
- Digital Camera- Digital scientific Cmos camera with 5 MP resolutions, live image processing to the laptop/ computer and image analysis software, with laser color printer.
- Latest Laptop compatible to system.
- Installation table along with operating adjustable comfortable chair.
- Five years comprehensive warranty with AMC.
- Instrument should be branded.
- Instrument should be coated with make model No. along with working manual with original brochure .
- The system should be coated as a complete device at the time of installation.

  
20/11/15


( SN Yadav)  
Sr. Scientific Assistant  
FSL UP Lucknow


  
20/11/15


(Dr Faizan Ahmad Khan)  
Scientific Officer  
FSL UP Lucknow

Vipin

( VIPIN ASHOK)  
SA, FSL LKO

  
(Pinky Krishna)  
P.S.L LKO

  
(Dr. Ashok Kumar)  
DD (T)

  
(Dr. Ashok Kumar)  
DD (T)

STEREO MICROSCOPE

25.11.11 specifications:

- Compound trinocular microscope.
- Inbuilt halogen illumination source preferably LED achromatic objectives 4x, 10x, 40x and 100x 1mm (Anti Fungal treated full plan achromatic).
- Eye pieces 5x, 10x (Two each), One separate eye piece of 10x with colour meter.
- Complete photography assembly with digital camera scaled, two dimensional movable stage.
- Spare sets of eye pieces, objectives (10x and 100x) and 02 sets of bulbs.
- System should be quoted as complete working system with all accessories.
- To run the system properly at the time of installation.

VIPIN

(VIPIN ASHOK)  
SA, FSL LKO

Pankaj

(PANKAJ KRISHNA)  
SO  
FSL LKO

FARHAN

(CDR F. A. FARHAN) (SO)  
FSL LKO

Sudam

(Sudam Sood)  
SO FSL-LKO

Ajay Kumar

(AJAY KUMAR)  
DD (TAXI)

TS-MOD-144/2015/16 (K.N.J.-VII)

## rd Test Sieve with Sieve Shaker

### Specifications:-

- Standard Mettalic Frame
- Sieve with Packing plastic box
- Having following no of sieve
- 20,30,40,50,60,70,80,90,100,150,200,250 and 300 micron
- Branded (Standard) Sieve Shaker having following properties-
  - a) Mechanical operated
  - b) Vertical shaking
  - c) Vertical sieves adopter
  - d) Sieve lid
  - e) Digital Display
  - f) Power 220-250V
  - g) Operation indicators

Vipin

(VIPIN ASHOK)  
SA, FSL LKO

Prakash  
(Prakash Krishnan)  
So  
F.S.L LKO

Dr. P. A. K. (S.O.)  
F.S.L LKO

Smyam Sundar  
S O FSL LKO

Prakash  
(Prakash Kumar)  
DO (TAXI)

# U.P. POLICE TECHNICAL SERVICES, HEAD QUARTERS,

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- check list duly filled and signed with stamp must be submitted by the bidder.

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 themselves 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- Authorized Agent/ Dealer / Supplier/ Distributor should submit a self attested valid certificate of authority of their Principal/ Manufacturer. Manufacturer should attach a proof of which being so. Authorization is not necessary for Kits, Chemicals, Glassware, General Apparatus, Lab work station, furniture .

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.

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.

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 in this laboratory, 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 will be TWO YEARS on parts and labour or as specified below the specifications in the tender form from the date of supply and successful installation. Warranty of consumables and glass wares will be one year or as per their shelf life. 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 with in 7 days, 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.



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.

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.

18 - The tenderer is required to submit an affidavit on 10 rupees stamp paper stating that :

- (1) there is no dispute between the tenderer and state Govt./UP Police.
- (2) the tenderer has no link with Mafia or some unsocial elements or organized crime.

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 Two 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 Forensic Science Laboratory, U.P., as specified in the purchase order (any district of U.P.), 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 Technical Headquarter 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 Forensic Science Laboratory, U.P., Mahanagar, Lucknow - 226006, on the next date of opening of technical bid. Demonstration will be asked if required, failing which tender will be rejected.

24 - The Technical Headquarter 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 - In case of imported goods, foreign manufacturers can directly quote their rates but after sales service will be provided by their Indian Branch/ Agent. Name of trained engineers and details of service facilities available should be mentioned in technical offer.

27 - If Indian agents are quoting on behalf of foreign manufacturers/ Principals then self attested valid authority letter from them should be submitted along with the technical offer. Rates should be quoted in FOB as well as CIF. Value at New Delhi air port.

28 - 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-user's 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.

29 - It will be the responsibility of the Indian agent of foreign principal to clear the consignment from customs and deliver it to Forensic Science laboratory, Lucknow/Agra/Varanasi 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 F.S.L. Lucknow/Agra/Varanasi.

30 - Forensic Science Laboratory, U.P., has to pay concessional customs duty. Custom duty at concessional rate certificate will be provided by FSL.

31 - 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.)

32- 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.

33 - 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.

34 - Bill to be submitted in triplicate by the firm in the name of Dy. Inspector General of Police, U.P. Police Technical Services, Head Quarters, Lucknow. Normally payment of bill will be made within 30 days but in case of delay no interest will be paid.

35 - Special Terms and conditions if any for any particular equipment has been mentioned below the specifications of the equipment in the tender form.

36 - If any item is on D.G.S & D/ D.I. rate contract enclose copy of rate contract along in the technical offer.

37 -Tendering firms will also impart hands on training for the supplied equipments wherever necessary free of cost.

38- Due to continuous research and developments and introduction of new models tendered can supply upgraded model at the same quoted price with permission of the department.

39 - Tendering firms should ensure that they will make available consumables, spares and services for equipments at least for ten years from the date of supply and installation.

40 - If supplier is unable to supply consumables, spares and services for ten years, he has to take back the supplied equipment and replace it by upgraded version free of cost.

41 - Supplier firm will provide driver software for new operating systems free of cost for ten years.


42 - Tenders received after the due date and time or incomplete tenders will not be accepted. This office will not be responsible for postal delay.

43 - Conditional tenders will not be accepted.

44 - 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.

45 - 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.

  
(Amitabh yash)  
Insp. Genl. Of Police, Technical Services,  
U.P. Police Technical Services, Lucknow

**DECLARATION**

I, (name of authorized representative) \_\_\_\_\_ Son of-  
\_\_\_\_\_ of M/S (Name of firm) \_\_\_\_\_  
\_\_\_\_\_ have read all the rules of tender (1 to 4<sup>th</sup>) 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)