

अति आवश्यक / महत्वपूर्ण / आज ही निर्गत
उत्तर प्रदेश पुलिस तकनीकी सेवायें मुख्यालय,
चतुर्थ तल, जवाहर भवन, अशोक मार्ग, लखनऊ-226001

पत्रांक-टीएस/एमओडी-64/2014(एफएसएल)
सेवा में,

दिनांक-लखनऊ, अक्टूबर 2014

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

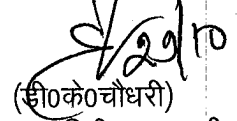
महोदय,

कृपया पुलिस विभाग हेतु शासन द्वारा स्वीकृत संलग्न उपकरणों के कय हेतु कार्यवाही तकनीकी सेवायें मुख्यालय, लखनऊ द्वारा की जा रही है, जिस हेतु निविदा आमंत्रित किया जाना है।

2/ संलग्न निविदा प्रारूप में उल्लिखित 16 उपकरणों के कय हेतु विज्ञापन का प्रारूप हिन्दी में संलग्न कर इस आशय से प्रेषित है कि कृपया राष्ट्रीय / महानगर स्तर पर प्रकाशित होने वाले प्रमुख दैनिक समाचार पत्रों हिन्दी एवं अंग्रेजी (जैसे लखनऊ से प्रकाशित हिन्दी दैनिक जागरण, दैनिक हिन्दुस्तान, दि प्वाइनियर, न्यू इन्डियन एक्सप्रेस व अन्य) में व्यापक प्रचार प्रसार कराने का कष्ट करें।

3/ इस सम्बन्ध में निविदा के विज्ञापन की स्वच्छ टंकित प्रति एवं एमएस वर्ड (फारमेट में सी0डी) साफ्ट कापी भी वेब साइट पर प्रसारित कराने हेतु संलग्न की जा रही है। अनुरोध है कि कृपया संलग्न निविदा को प्राथमिकता के आधार पर प्रकाशित कराने का कष्ट करें।
संलग्नक-निविदा 5 प्रतियों में

भवदीय,


(डी0के0चौधरी)

पुलिस उपमहानिरीक्षक, तकनीकी सेवायें,
लखनऊ।

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

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

3- प्रतिलिपि- निम्नांकित को निविदा की एक एक प्रति संलग्न कर इस आशय से प्रेषित है कि उक्त निविदा के सम्बन्ध में अग्रेतर कार्यवाही कराते हुये विज्ञापन की एक प्रति कार्यशाला के नोटिस बोर्ड पर भी चस्पा कराने का कष्ट करे:-

4- प्रतिलिपि-निदेशक, एफएसएल, लखनऊ / संयुक्त निदेशक, एफएसएल रामनगर, वाराणसी / आगरा को 16 उपकरणों की निविदा जो आमंत्रित की गई है, के व्यापक प्रचार प्रसार हेतु प्रेषित है।

5- प्रतिलिपि- नोटिस बोर्ड, तकनीकी सेवायें, लखनऊ को चस्पा करने हेतु।

U.P. POLICE TECHNICAL SERVICES HEADQUARTERS

IVth. FLOOR JAWAHAR BHAWAN,ASHOK MARG, LUCKNOW-226001

TENDER NO.TS-MOD-64/2014

DATED. OCT. 2014

NOTICE INVITING TENDER

- 1- The tender documents for tender mentioned below alongwith technical specification for each equipment may be purchased on payment at the cost given against tender in Demand Draft from the office of the undersigned on any working day between 10-00AM to 6-00PM. Those desirous of obtaining the tender document by Speed Post or Courier may send Demand Draft for tender document cost+Rs. 75/-drawn in favour of Superintendent of Police, Uttar Pradesh Police Computer Centre, payable at Lucknow.
- 2- Tender documents can be down loaded from U.P. Police website <http://uppolice.gov.in>. In this case the tenderer will have to enclose the cost of tender documents in the form of Bank Draft drawn in favour of above with the technical offer. Separate Bank draft in the respect of the cost of tender document and earnest money should be enclosed. Cost of tender document is not refundable, while earnest money is refundable.
- 3- Each Tenderer will have to deposit an Earnest Money (EMD) as mentioned against tender in the form of DD/Banker cheque/FDR in favour of Superintendent of Police, Uttar Pradesh Police Computer Centre, payable at Lucknow.
- 4- Cost of tender document is not refundable, while earnest money is refundable.Tender documents will not be given on cash through Technical Services Head Quarter
- 5- Successful tenderers will have to deposit a Security Money @ 10% of the order value, which is returnable after expiry of warranty period.
- 6- The undersigned 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-86/2014(FSL)	Universal Tensile Strength Machine	01	1,10,000/-	300/-
(2)TS-MOD-87/2014(FSL)	Vehicle Chasiss Indentification Machine	01	1,10,000/-	300/-
(3) TS-MOD-88/2014(FSL)	Mobile/Sim Analysis System	01	13,000/-	200/-
(4) TS-MOD-89/2014(FSL)	Forensic Magic Tube (Data Recovery Tools)	01	70,000/-	300/-
(5) TS-MOD-90/2014(FSL)	Nuix Software	01	36,000/-	300/-
(6) TS-MOD-91/2014(FSL)	Elcom(Password Recovery Tools)	01	6000/-	300/-
(7) TS-MOD-92/2014(FSL)	Forensic Image Indentificaton System	01	60,000/-	300/-
(8) TS-MOD-93/2014(FSL)	Bullet Puller	01	10,000/-	200/-
(9) TS-MOD-100/2014(FSL)	Microscop Trinaculor with Digital Camera, Computer and Printers	02	20,000/-	200/-
(10) TS-MOD-101/2014(FSL)	Vacume Pump High Power	01	6000/-	200/-

(11) TS-MOD-102/2014(FSL)	Sample Collection Kit	40	40,000/-	300/-
(12) TS-MOD-97/2014(FSL)	Plate Centrifuge with Rotor	01	10,000/-	200/-
(13) TS-MOD-98/2014(FSL)	Shacking Water Bath (Shacker)	01	6000/-	200/-
(14) TS-MOD-96/2014(FSL)	PCR Machine	01	16,000/-	300/-
(15) TS-MOD-95/2014(FSL)	Thermo Mixer with Thermo Block	01	6000/-	200/-
(16) TS-MOD-8/2011(II) (FSL)	Electronic Balance	16	13,000/-	200/-

Start of Sale of Tender documents from

Last date of receipt of tenders

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

07-11-2014 at 11-00 am

08-12-2014 upto 11-00am

08-12-2014 upto 02-00pm

08-12-2014 at 04-00pm

11-12-2014 at 11-30am

15-12-2014 at 11-30am

17-12-2014 at 11-00 am



(D.K. Chaudhary)

Dy. Inspr. Genl. Of Police, Technical Services,
Lucknow.

आवश्यक/द्वारा फौक्स

उत्तर प्रदेश पुलिस तकनीकी सेवायें मुख्यालय,

चतुर्थ तल, जवाहर भवन, अशोक मार्ग, लखनऊ
संख्या-टीएस-एमओडी-64/14 (एफएसएल)

दिनांक -अक्टूबर, 2014

निविदा सूचना

उत्तर प्रदेश पुलिस विभाग हेतु निम्नांकित उपकरणों के कय हेतु सील बन्द निविदा आमंत्रित की जाती है:-

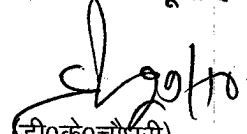
- 1- निम्नांकित उपकरणों के सम्मुख अंकित टेण्डर धनराशि में डिमाण्ड डाफ्ट देकर कार्यालय दिवस में 1000 बजे से 1600 बजे के मध्य कय किये जा सकते हैं। टेण्डर फार्म को स्पीड पोस्ट/कोरियर से टेण्डर फार्म फीस + 75/- रु० डिमाण्ड डाफ्ट जो पुलिस अधीक्षक/सहायक निदेशक, उ०प्र० पुलिस कम्प्यूटर केन्द्र, लखनऊ के नाम देय होगा, द्वारा भी प्राप्त किया जा सकता है।
- 2- टेण्डर फार्म उत्तर प्रदेश पुलिस वेबसाइट <http://uppolice.gov.in> डाउनलोड किया जा सकता है। टेण्डर फार्म डाउनलोड करके मय टेण्डर फीस के (बैंक डाफ्ट के रूप में) तकनीकी आफर में संलग्न कर प्रेषित किया जायेगा। टेण्डर डाकुमेंट्स की फीस तथा टेण्डर की ई०एम०डी० अलग अलग प्रेषित की जायेगी। टेण्डर डाकुमेंट की फीस वापस नहीं की जायेगी, जबकि ई०एम०डी० तत्समय वापस कर दी जायेगी। टेण्डर डाकुमेंट तकनीकी सेवायें मुख्यालय द्वारा नगद भुगतान पर देय नहीं होगा।
- 3- प्रत्येक निविदादाता अलग अलग टेण्डर की ई०एम०डी० डी०डी०/एफ०डी०आर० के रूप में, जो पुलिस अधीक्षक/सहायक निदेशक, उत्तर प्रदेश पुलिस कम्प्यूटर केन्द्र, लखनऊ के नाम देय होगा, जमा की जायेगी।
- 4- सफल निविदादाता द्वारा कयादेश का 10 प्रतिशत सिक्योरिटी मनी के रूप एफ०डी०आर/बैंक गारन्टी जमा किया जायेगा, जिसे वारन्टी अवधि पूर्ण होने के उपरान्त वापस किया जायेगा।
- 5- प्राधिकृत अधिकारी द्वारा जनहित में किसी भी समय बिना किसी पूर्व सूचना/कारण के टेण्डर को निरस्त किया जा सकता है।

टेण्डर संख्या	आइटम	संख्या	ई०एम०डी० (रु० में)	टेण्डर डाकुमेंट का मूल्य (रु० में)
(1) टीएस-मोड-86/2014(एफएसएल)	यूनिवर्सल टेन्सिल स्टन्थ मशीन (यूटीएम)	01	1,10,000/-	300/-
(2) टीएस-मोड-87/2014(एफएसएल)	वेहिकल्स चैसिस आइडेन्टीफिकेशन मशीन	01	1,10,000/-	300/-
(3) टीएस-मोड-88/2014(एफएसएल)	मोबाइल सिम एनालिसिस सिस्टम	01	13,000/-	200/-
(4) टीएस-मोड-89/2014(एफएसएल)	फोरेन्सिक मैजिक द्यूब (डाटा रिकवरी टूल्स)	01	70,000/-	300/-
(5) टीएस-मोड-90/2014(एफएसएल)	नूइक्स साफ्टवेयर	01	36,000/-	300/-
(6) टीएस-मोड-91/2014(एफएसएल)	एल्काम (पासवर्ड रिकवरी टूल्स)	01	6000/-	300/-
(7) टीएस-मोड-92/2014(एफएसएल)	फोरेन्सिक इमेज आइडेन्टीफिकेशन सिस्टम	01	60,000/-	300/-

(8) टीएस-मोड-93/2014(एफएसएल)	बुलेट पुलर	01	10,000/-	200/-
(9) टीएस-मोड-100/2014(एफएसएल)	माइक्रोस्कोप टाइनाकुलर विद डिजिटल कैमरा, कम्प्यूटर तथा प्रिन्टर	02	20,000/-	200/-
(10) टीएस-मोड-101/2014(एफएसएल)	वैक्यूम पम्प हाइ पावर	01	6000/-	200/-
(11) टीएस-मोड-102/2014(एफएसएल)	सैम्पुल कलेक्शन किट	40	40,000/-	300/-
(12) टीएस-मोड-97/2014(एफएसएल)	प्लेट सेन्टीफ्यूज विद रोटार	01	10,000/-	200/-
(13) टीएस-मोड-98/2014(एफएसएल)	शेकिंग वाटर बाथ (शेकर)	01	6000/-	200/-
(14) टीएस-मोड-96/2014(एफएसएल)	पी0सी0आर0मशीन	01	16,000/-	300/-
(15) टीएस-मोड-95/2014(एफएसएल)	थर्मो मिक्सर विद थर्मो ब्लाक	01	6000/-	200/-
(16) टीएस-मोड-08/2011(एफएसएल)	इलेक्ट्रानिक बैलेंस	16	13,000/-	200/-

निविदा विक्री की तिथि
निविदा फार्म प्राप्त 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

07-11-2014 समय 11-00 बजे पूर्वान्ह
08-12-2014 समय 11-00 बजे पूर्वान्ह
08-12-2014 समय 02-00 बजे अपरान्ह
08-12-2014 समय 04-00 बजे अपरान्ह
11-12-2014 समय 11-30 बजे पूर्वान्ह
15-12-2014 समय 11-30 बजे पूर्वान्ह
17-12-2014 समय 11-00 बजे पूर्वान्ह


(डी0के0चौधरी)
पुलिस उप महानिरीक्षक,
तकनीकी सेवायें, लखनऊ।

U.P.POLICE TECHNICAL SERVICES, HEAD QUARTERS,IVth 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 Headquater 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 Headquater 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.

(D.K. Chaudhary)

Dy. 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 45) 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)

परिशिष्ट - 1

TS-mod - 86/2014

Name of Equipment : Universal Tensile Strength Machine

Specification:

Models AT/Ct	M500-50		
Range kN	50		
Accuracy	±0.5% of reading down to 1/100 th of load cell capacity.		
Vertical space mm	1180		
Crosshead travel/resolution mm	980 by 0.001		
Throat mm	420		
Frame stiffness kN/mm	200		
Speed range mm/min	0.001 to 100		
Speed accuracy	±0.1% under stable conditions.		
Crosshead guidance	Linear slides integral within column 50mm Dia precision ground guide pillars		
Max force at full speed kN	50		
Max speed at full load mm/min	600		
Data sampling rate	Maximum 12kHz with up to 200Hz data frames.		
Overall width mm*	760		
Overall depth mm	505		
Overall height mm	1585		
Weight kg*	235		
Electrical supply	Dual input selectable 115 or 230v 1ph 50/60Hz.	Universal input. (de-rate max speed at 115V)	380/400V 3ph
Operating temp degree C	-10 to +40		
Operating humidity	+10 to +90% non-condensing		
Machine Configuration	Table top, base cabinet available		Floor standing
Number of Columns	2		
Available load cells	5n, 10n, 20, 100n, 250n, 500n 1kn, 2.5kn, 3kn, 5kn, 10kn, 20kn, 25kn, 30kn, 50kn, 100kn, 125kn, 150kn, 200kn, 300kn. Maximum of four load cells up to capacity of machine.		
Spigot dia mm	30		
Power kN	1		

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Including following features

The models listed above conform to all international standards of accuracy including EN10002.2, DIN 51221, ASTM e4, AFNOR A03-501, JIS B7721 and JIS B7731 and JIS B7733. They also conform to all European and other safety standards and carry a CE mark with NAMAS certification.

Machines with extended frame height and wide throat versions are also available. All machines are manufactured in the UK by Testometric which is an ISO 9001 registered company.

Notes

- 1 Vertical test space is the distance between the top surface of the bottom crosshead and the underside of the moving crosshead in its uppermost position.
- 2 The width measurement does not include display unit or printer.
- 3 The above specifications are general reference and are subject to change without notice.
- 4 Testometric and win Test are general reference and are subject to change without notice.
- 5 Crosshead travel is excluding grips.
- *AT Models Only
- 6 Overall width does not include touch

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75-Mod-87/2014

**Name of Equipment : Vehicle Chassis Identification Number
QR FOR RECOVERY & AUTHENTICATION NUMBER**

Functions of the system

- controlling authenticity of numbers of vehicle body and units;
- recovering original numbers if their relief is insufficient;
- restoring original numbers if they were altered or erased;
- verifying vehicle and driver documents.
- system should be portable

MAIN TECHNICAL SPECIFICATION:

- Area of application.....ferromagnetic materials
- Maximum length of magnetic tape.....unlimited
- Acceptable thickness of non-ferromagnetic layer.....0.1-0.5 mm
- Acceptable thickness of remote surface metal layer.....1.0 mm
- Approximate time for VIN magnetogram entry.....15 sec
- Operating system.....Windows XP, Vista
- Image format.....BMP, PCX, GIF, JPG
- Operation in autonomous mode.....minimum 1.5 hours
- Power consumption.....2.5 W
- Dimensions.....460*370*140 mm
- Weight (with PC)less than 17 kg

System should include:

1. Main device
2. Portable Video Spectral Magnifier for authentication of documents
3. Compact Network (for OEM suggested specifications) which fits inside main unit
4. Magnetic copying tool kit]
5. Scanner for ferrous metal surfaces
6. High frequency Scanner
7. Scanner for Aluminium surfaces

COMPOSITION:

Functional devices:

- Magneto-optical visualization unit
- Videospectral magnifier model 4177/4077

Accessories:

- Magnetic copying tool kit
- Magnetography Vortex for aluminium alloy.

Software Products:

- VideoScope and NUCA (EYER)
- Auto VIN (optional)
- Notebook

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NAME OF EQUIPMENT :

MOBILE/SIM ANALYSIS SYSTEM

UFEED-Propriety Item (Cellebrite)

- 1- Cellebrite Universal Forensic Extensionm Device(UFED) Fast Secure Data Extraction qand analtysis form mobile phone smart phone GPS Device Designed Specifially dat form thousand of mobile device including ismart p[hones legency phones and GPS device
- 2- Easy to use out in the field or in the lab(UFED) gives investigation all tools necessary to do job efficientlywith full complement of accessories cables,
- 3- Card Readers, and much more plus powerful analysing, Extraction and Reporting Software that can be run from any PC
- 4- With more than a decade of experience in mobile data technologies, Cellebrite provides the widest coverage in the market, supporting all measure mobile OS, Including iOS, Android, Windows Mobiles and More.
- 5- Cellebrite Universal Forensic Extensionm Device Product are Deployed throughout the world and in use by military and law.
- 6- Upgradation Version and All accerrories Required for running Equipment

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TS-MOD-89/2014

FORENSIC MAGICUBE (MagiQ-2)Forensic MagiCube (MagiQ-2)Basic Specification

PRODUCT	DESCRIPTION
Performance	Duplication speed up to 11GB/min.
	Remote Duplication speed up to 2.5 GB/min. via Gigabit NIC.
Supported drive interface	SATA/SAS x2; IDEx1, USB 2.0x1 (Data), USB 2.0x1 (Power)
Target	STA/SASx2
External interface	USB 2.0x4 (via internal USB HUB)
Network	Gigabit Network
Display interface	VGA
Wireless	Bluetooth
Processors	CPU; Intel Core™ 2 Duo, 2.26 GHz, 6 MB L2 Cache
Memory	4GB DDR
Hard Drive	2.5 Inch 500GB 7200RPM
Touchpad	LVDS 1024x600 10 inch capacitive touch screen
Security	Fingerprint Sensor
Application	Windows7 64 bit
	VMware player
	Norton Ghost
Weight	4.5kg.
Dimension	310L(mm)*310W(mm)*90H(MM)
Power	40.5W
Voltage Input	DC 12V
Environmental Temperature	0-40°C
Adapter	SATA-IDE Adapter and Micro-SATA to SATA Adapter
I/O devices	Keyboard and mouse
SAS/SATA Cable	SAS Cable and SATA Cable
Accessories	MagiQ-2 host and power adapter
	Carry bag for MagiQ-2 host
	Express card gigabit NIC card
	3-in-1 convert card

Also having additional features as follows-

PROPEITERY ITEM-

SALVATIONDATA TECHNOLOGY www.salvationdata.com

Forensic Magicube is an all- in-one solution for scene digital investigation, MagiQ-2 is the second generation of Forensic MagiCube.

Features

1-It supports

(a)two-two duplication,

(b) forensic analysis and live os emulation and re-mote duplication .

2- In addition to the powerful function, its compelling appearance and portable design win itself the Kapok Prize in2011 China Original Product Design Competition. MagiQ-2 makes scene digital investigation simpler and easier.

HARD DRIVE DUPLICATION

- * One-to one, one-to-two, two-to-two disk, duplication & imaging.
- * Support IDE, SATA, SAS and USB.
- * Keyword searching during duplication.
- * Acquisition in HPA/DCO protected area.
- * Support MD5 and SHA-1 hashing during duplication.
- * Support Remote duplication.

Remote duplication is introduced when you can not operate case hard drive locally. (Need F-Response license by client)

FORENSIC ANALYSIS

- * Quick and automated forensic analysis.
- * Shortcut preview on evidence.
- * Widows artefact: Analyse USB usages history, user accessory history, browser history information.
- *Triage.

FORENSIC EMULATION

- * Emulation software can be used to launch the target OS for investigators have a direct view on the suspect computer.
- * Acquire saved passwords (dial-up, MSN messenger, browser, PSSP) on emulated computer.
- * login emulates suspect OS without password.
- * Emulates mounted raw, 001, or E01 image files, and physical disk with write blocker.

TS-MD-90/14

Name of Equipment: Nuix Forensic - Computer Forensic Tool

Nuix 3.2 further integrates and simplifies Nuix's collection, processing, review and export functionality. This major release delivers significant upgrades covering both the left and right hand side of the Electronic Discovery Reference Model (EDRM).

1-Key Features:

- Relativity Legal Export
- EDRM.net XML Export
- Nuix Collector file support
- Nuix Collector SharePoint support
- MHT processing
- MHT viewing - see the full HTML rendering
- Native file viewer is embedded in the Nuix Preview Pane.
- Legal Export optimization (78% reduction in total export time)
- Lotus Notes processing enhancements
- Scripted legal export
- Directly process FTK (.ad1) logical image files.

2-Processing

- Lotus Notes Processing
- Extract content from all Domino Database formats (not just email) with use of Lotus DXL
- Run 64-bit Nuix with access to 32-bit Lotus Notes client, significantly increases ingestion rate, while dramatically improving processing resiliency
- Use Note ID and passwords with *.nsf files to access encrypted content
- Filter on "Form" type to allow filtering on memo, appointment, person and documents
- Extract folder/view information for Notes items
- Process additional image file formats:
- FTK logical image files (*.ad1)
- Segmented DD files
- Microforensics FileSafe files (*.mfs01)
- ISO CD/DVD ROM image files (*.iso)
- Process additional container files
- Backup Files - Windows *.bkf and Blackberry *.ipd.
- Compressed Formats - 7zip (*.7z), Unix AR (*.ar), Cabinet (*.cab)
- Added additional properties to record the existence of hidden content with Office Suite.
- Excel - Hidden Columns, Hidden Rows, Hidden Sheets, Very Hidden Sheets, Protected Sheets, etc.
- Word, Excel, PowerPoint - Comments and track changes.

3-Exporting

- Relativity Legal Export
- Load data directly into kCura Relativity through Nuix Legal Export
- Streamlined transfer of native files allows Nuix to write files directly to Relativity shared storage
- EDRM.net XML Schema Legal Export (version 1.0 and 1.1)
- Legal Export optimizations reduce the overall time to export 250 GB of natives and text from 19 hours to less than four
- Export format enhancements
- Export emails as HTML
- Add custom headers and footers to documents rendered to PDF/TIFF.

4-Scripting

- Scriptable Legal Exports
- This will allow our LSV clients to perform a complete, end to end processing and export operation using the scripting API
- Deduplicate results and find families with new helper functions
- Create and manipulate compound cases.

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5-Analysis

- Native Viewer
 - Launch items in their native application within the Nuix Preview pane
- New Reports Menu
 - Provides History, Statistics, Word Count, Addresses and Fast Review reports
- Logically group and see all items assigned to a Fast Review job to facilitate a faster, more contextual review
- Directly print various Nuix views
 - Results Pane – Results, Thumbnails, Word List, Event Map, and Networks
 - Preview Pane – Text/Email, Image, Metadata, PDF, Image, and Word lists
- Search by file extension
- New flags to instantly find top-level items and "files on disk"
- Scope wordlist search to properties or content fields to focus on most useful words.

6-With also following features

- 1-Nuix Forensic frequently involve large numbers of devices including multiple computers, mobile devices and a variety of digital storage media, as well as difficult-to-access corporate data formats and storage systems.
 - 2-Nuix's advanced electronic investigation technology is engineered to triage, process, analyze and bring to the surface critical evidence bridging entire data sets, regardless of the geographical location, repository, file type or size. In addition, Nuix can automatically identify key intelligence items such as email addresses and phone, social security and credit card numbers.
 - 3-Nuix Forensic is designed for cases with up to 750GB of evidence. When used with the Nuix Management Server, up to five investigators can access case data simultaneously, with secure web-based remote access for external reviewers and subject matter experts.
 - 4-It enables you to search and correlate across all available data quickly and efficiently, giving you the power to test hypotheses, follow evidence trails and find links between suspects and custodians.
- Suitable for cases up to 750 GB

- Processes 20-24 GB per hour
- Secure web-based remote access for up to five simultaneous reviewers when used in conjunction with Nuix Management Server
- Extracts data from hard drives, smartphones, memory cards, webmail services such as Hotmail and Gmail accounts, and corporate repositories such as Lotus Notes, Microsoft Exchange and Microsoft SharePoint (with Nuix SharePoint Collector)
- Automatically highlights, extracts and correlates intelligence items such as telephone, credit card, bank account and social security numbers and email addresses
- Nuix's evidence pre-filter can quickly examine tens or hundreds of terabytes of email and user-created documents within days, enabling you to concentrate on the most critical information first
- Powerful and interactive visual analytics framework enables investigators to visually interrogate case information using dynamically generated graphics
- Precise skin tone analysis can analyze data sets of any size to locate inappropriate images
- Available for purchase by corporations, law enforcement agencies and regulators

5- A suite of software tools that enables investigators to triage, process and analyze electronic evidence in multiple computers, mobile devices and digital storage media, and extract and correlate intelligence. The Nuix benefits:

- Speed and efficiency
- Empower case investigators
- Bring intelligence to the surface quickly

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TS-MD - 9/12/14

ElcomSoft Password Recovery bundle

1-Forensic edition

2-Propriety Item

Specifications:-----

Product	Number of licenses
Advanced Archive Password Recovery (Professional Edition)	1
Advanced EFS Data Recovery (Professional Edition)	1
Advanced IM Password Recovery	1
Advanced Intuit Password Recovery	1
Advanced Lotus Password Recovery	1
Advanced Mailbox Password Recovery	1
Advanced Office Password Breaker (Enterprise Edition)	1
Advanced Office Password Recovery (Professional Edition)	1
Advanced PDF Password Recovery (Enterprise Edition)	1
Advanced Sage Password Recovery	1
Advanced SQL Password Recovery	1
Advanced WordPerfect Office Password Recovery	1
Elcomsoft Blackberry Backup Explorer (Professional Edition)	1
ElcomSoft Distributed Password Recovery (Up to 100 clients)	1
Elcomsoft Internet Password Breaker (Standard Edition)	1
Elcomsoft Phone Password Breaker (Forensic Edition)	1
ElcomSoft System Recovery (Professional)	1
Elcomsoft Wireless Security Auditor (Professional Edition)	1
Proactive Password Auditor (100 user accounts)	1
Proactive System Password Recovery	1
Elcomsoft Forensic Disk Decryptor	1
Free delivery by Express Mail (EMS)	yes

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TS-MOD-92/2014

Forensic Recovery of Evidence Device Workstation

- A High Speed Intel i7 – 3930K Six Core Processor clocked at 3.2 Ghz (3.8 Ghz Turbo) Cooled by an Intel Sealed Water Cooling System to give you stable high-speed performance.
- 16 GB of High Speed High Capacity DDR3 1866 Quad Channel Memory
- Tableau T35689iu and Tableau T3iu Forensic Bridges
- An NVidia GeForce GTX 650 with multi-monitor support to ensure a silky smooth experience whether you are processing cases, writing reports, or viewing evidence
- A ultra-fast 128 GB SATA 6 Gbp/s SSD OS Drive to give you lightning fast access to your EDAS FOX System
- A High Capacity, High Speed 2 TB 7200 RPM 6 Gbp/s Hard Disk Data Drive to store files.
- Dual 10/100/1000 Mbps LAN Ports, with Teaming function allowing two single connections to act as one for twice the bandwidth.
- High Speed USB 3.0, and XFast USB greatly improving the speed of the onboard USB 2.0 ports.
- High Speed 6 Gbp/s eSATA Ports, giving you the fastest way to connect external devices to the system.
- Included SATA Hard Drive Dock for easy access to Bare SATA Hard Drives.
- 3x Hot Plug SATA Tray-less Bays, giving you access to easy to use, high speed hard drive bays for extra storage.
- An Integrated Write-Blocked Multi-Card Reader to ensure forensically sound access to all types of media cards.
- Two integrated Write-Blocked Forensic Bridges, With USB 3.0, SATA, IDE, SAS, and FireWire Connections.
- A highly efficient 1350 Watt 80 Plus Platinum Certified Fully Modular Power Supply to ensure stability, and high power capacity for all your needs.
- H.T.C.I. Data Analysis Reporting Tool kit (DART) and one year subscription to our Investigator Portal.
- 22 Inch LED Monitor

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Device Seizure Tool Box

Logical and physical extractions advanced parsing and analysis, Google Earth integration, file sorting, and comprehensive reporting gives examiners more for their money. With analysis features such as logical and physical acquisitions, file system acquisitions, password bypassing, advanced data parsers, file viewers, Google Earth integration, a back end database for handling the large amounts of data contained in smart phones, and much more, investigators will be able to perform a completed examination and report on all data acquired. This kit comes with all required cable set and toolbox.

Logical Data Extraction

User data such as call logs, SMS (text messages), contacts, pictures, etc. can easily be acquired using Device Seizure or DDS (included with every license of Device Seizure).

Physical Data Extraction

Full physical acquisitions including file system and deleted data can be performed on many devices including most CDMA phones, Android phones, and some GPS devices.

User Password Extraction

User password recovery of mobile devices and make or break a case. Device Seizure extracts user passwords from hundreds of devices including iPhones (physical extractions), Androids (screenlocks), and more.

Integrated Google Earth

GPS data points can be extracted from GPS devices as well as cell phones. Device Seizure allows you to view these GPS coordinates easily by integrating with Google Earth.

Advanced Data Parsers

Extracting data from handheld devices is just the start. You still need to be able to make sense of that data. Device Seizure has advanced data parsers to display user data and to recover deleted data from both logical files and physical extractions.

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- Should be able to ingest data taken from hard drives, smart phone dumps, memory cards, webmail services such as Hotmail and Gmail accounts, and corporate repositories such as Lotus Notes, Microsoft Exchange and Microsoft SharePoint
 - Should be able automatically highlight, extract and correlate intelligence items such as PAN Card, telephone, Company Name, IP Address, Currency Symbol, URL, Country Name, credit card, bank account and social security numbers and email addresses
 - Should be able to do evidence pre-filter on the basis of folder selection and MIME type to quickly examine only useful information in case
 - Should come with four workers for fast indexing the higher volume size.
 - Should have precise skin tone analysis to analyse data sets of any size to locate inappropriate images with advanced Image colour analysis features such as black and white, grey scale, tinted monochrome and full colour detection.
 - Should be able to ingest and recover deleted data from E01, L01, DD Images directly created from FAT-12, FAT-16, FAT-32 and NTFS file system volumes.
 - Should have capability to interactively search and filter data using the complete search syntax with multiple criteria simultaneously.
 - Should be able to drill down into full metadata with custom metadata addition facility.
 - Should be able to create material for external presentation by printing graphics to a local printer, exporting graphics to PNG, JPG, PDF or SVG formats and exporting tabular data to PDF or Microsoft Excel
 - Should have facility to identify and filter the items on the basis of language
 - Should have Event Map graphical representation to track communication quickly in smart way to understand when, who and whom.
 - Should be able to provide Network view to understand the number of communication threads.
 - Should be able to hide/show immaterial items through single click.
 - Should be able to de-duplicate on custodian basis or over all case.
 - Should be able to show similar and duplicate copies of items.
 - Should be able to ingest and analyse XRY and UFED physical images in case.
 - Should have capability to search items through MD5 hash and multiple keywords list.
 - Should have manual and bulk reduction feature.
 - Should be able to automatically decrypt PGP and S/MIME encrypted email with the ability to programmatically apply keys and passwords during ingestion
 - Should be able to add multiple type evidences such as Hard Drive Image, POP/IMAP mail store, Mobile Phone Dump, DD/E01 Image, Folders in single case to co-relate activity in all evidences.
 - Should be able to create half tera byte case in one go.
 - Should be able to apply useful syntax to extract valuable data i.e. Item-date: [* TO -7Y] to find items older than 7 years before today, date-properties:"mapi*":[20010101 TO 20020202] and date-properties:"mapi*":[20010101 TO *].
 - Should be able to combine multiple cases for finding correlation among the suspects.
 - Should be able to summarize document in five sentences and create topic modelling on the basis of 7 most frequent words
 - Should have inbuilt facility to OCR the unsearchable document to make them searchable.
 - Should be able to extract thumbnails from a movie file supported by ffmpeg.
 - Should be able to analyse the case with next generation enhanced visual analytics interface to display the data in dynamic charts i.e. column, pie, bar and line charts
 - Should provide workflow automation to run multiple activities i.e. culling, exporting, reporting and tagging in single click of mouse.
 - Should be able to build reports including Item date trending, MIME types, Item kind by date, tagged items, pivot report, locations report and search hit report
 - Should be able to travel back and forth between recently viewed visualizations as well as activities and workflows investigator have run
 - Should be able to send email updates on desired email address as each workflow activity completes

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Bullet Puller

Specifications-

The equipment capable of removing and reloading of bullets from/to the shell after increasing or decreasing the propellant powder of following different caliber cartridges for small arms-

- (i) 9 mm/7.62 mm/7.63mm/7.65mm/5.56mm
INSAS/.315"/.303" etc.
- (ii) Should have facility to remove firing primer and re-affix with new one.
- (iii) Should have single station presses which can load all above mentioned cartridges.
- (iv) Should have dies of all sizes of above mentioned standard cartridges.
- (v) Required accessories should be provided along with the system.
- (vi) Must have supplied working system of same type in India along with satisfactory report from uses.

Dr. A.K. Srivastava
(SSA)

Sanjay Khare
(SSA)

Dr. S.B. Upadhyaya
(Director)

विधि विज्ञान प्रयोगशाला
बनारस, लखनऊ

SPECIFICATIONS

TRINOCULAR MICROSCOPE WITH DIGITAL CAMERA, COMPUTER AND PRINTER (ITEM

- LED Based illumination system with automatic adjustment of light.
- Infinity corrected and harmonic compensator (HC) optical system
- Binocular ergonomic head with side phototube should be inclined at 30° angle with 10X lens with F.O.V. 20mm and should be antifungal type.
- High resolution and antifungal treated PLAN ACHROMAT objectives 5X, 10X, 20X, 40X and 100X (oil)
- Fine focus and coarse adjustment knob with coarse motion torque adjustable & limit stop.
- Double layer mechanical sliding stage, 216 X 150 mm, moving range 78 X 54 mm, belt drive in X direction.
- LED Light source with 50,000 hrs Lamp life.
- System with rechargeable battery.
- DIGITAL COLOUR CAMERA
 - Resolution - 2560 X 1920 (5.0 Mpixel)
 - Sensor - CMOS $1/3''$
 - Pixel size - $2.77 \mu\text{m} \times 2.77 \mu\text{m}$
 - Imaging area - $7.33 \text{mm} \times 5.44 \text{mm}$
 - Frame rate at full resolution : 4 frames/sec.
- TWAIN interface software package.
- Continuous auto white balance, continuous auto exposure averaging, subsampling (decimation) 0.41X with additional ring adaptor for stereo^{-se}
- Suitable latest PC with photoquality printer and UPS should be provided along with microscope.

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SPECIFICATIONS

TS-MD-10/2014 (GT-01)

VACUUM PUMP (HIGH POWER) - ITEM NO. 32

(Freeze dry system cabinet)

- Pump Capacity 195 L/min (6.9 cfm)
- Two stage, oil sealed pump with sliding Vane
- Switchable high vacuum and high-throughput modes.
- Three position gas ballast.
- Enclosed, fan cooled, single phase electric motor drives pump.
- Thermal overload protection with automatic restart.
- Cast aluminium housing.
- Mounted on a base plate with rubber feet for stability.

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TS-MOD - 102/2014

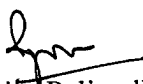
INSTRUMENT FOR D.N.A. UNIT


Sample Collection Kit

Specifications

1. Swab with nylon bristles/ polyesters tipped applicator-10 Swabs.
2. Self-sealing sterilization pouch (10).
3. Nucleic Card- 2 Spots pink- with desiccant and pouch (10).
4. Nucleic Card- 2 Spots white- with desiccant and pouch (10).
5. EDTA vials- 4.
6. Buccal shape tip in plastic tube with active drying system.
7. Crime scene regular head tip in plain tube with antimicrobial action.
8. Crime scene Mini tip in plain tube with antimicrobial action.
9. Rubber gloves powder free - 4 pair.
10. The swab should be validated for forensic application.
11. Swabs should be human DNA free and free and designed for Sample collection of sweat, semen, blood stains, skin and Trace evidence from the crime scene.
12. Syringe - 2ml (4).
13. Distilled water 10 ml.
14. Color coded envelop for paternity case (2) sets.
15. Evidence tape for sealing envelopes two (2).
16. Large size envelops (space for information details) (2).
17. Complete set of 2 packs of above items 1 to 15 in each kit with sample collection forms.
18. System should be complete in a box for demonstration with Guidelines at the time installation for extraction using Standard extraction methods.


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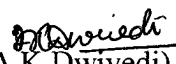
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INSTRUMENT FOR D.N.A. UNIT


Plate Centrifuge with Rotor

Specifications

1. Multipurpose refrigerated centrifuge with rotor for plates (MTP, 96 well PCR and deep well plates) (Max. speed 4000 to 5000 rpm) which run at 230 volt/ 50-60 Hz. Additional rotor for 1.5 ml/ 2.0 ml and 15 ml/ 50 ml centrifuge tubes.
2. System should have the facility for Automatic rotor recognitions.
3. Instrument should have microprocessor controlled with backlit graphical LCD display for run.
4. System should have maximum speed 15000 to 18000 rpm /RCF 25000 to 30,500 x g.
5. Temperature range from -10°C to 40°C with CFC free refrigeration system.
6. Acceleration and deceleration rates should be less than 15 second.
7. Should have pre- cooling program and store up to 99 program
8. Noise label at maximum speed, should be less than 70 dB
9. A compatible branded stabilizer should be provided.
10. System should be complete with all accessories to run the system properly at the time Of installation


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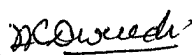
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INSTRUMENT FOR D.N.A. UNIT


SHAKER WATER BATH

SPECIFICATIONS:

1. Shaker water bath with stainless steel body of dimension 700X550X350 mm.
2. Advanced microprocessor controlled temperature regulation.
3. System should have temperature range from 10°C to 99°C with temperature stability $\pm .1^{\circ}\text{C}$ to $.2^{\circ}\text{C}$.
4. Multi display (LED) indicating temperature and setting display.
5. Seamless splash proof keyboard.
6. System should have heating capacity 2 kW.
7. System should have shaking frequency from 20 rpm to 300 rpm shaking amplitude 15mm to 25 mm.
8. System should have carrier tray, suitable test tubes, racks and additional rack for 15ml and 50ml tubes.
9. Provision for drainage.
10. System should be quoted as complete with all necessary accessories to run the system properly at the time Of installation.


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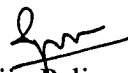
INSTRUMENT FOR D.N.A. UNIT


PCR Machine

Specifications

1. Latest generation (Modular/ Steady slope) 96 well block gradient thermal cycler system with power supply 230V. , 50-60 Hz.
2. Block should have peltier technology for uniformity and gradient temperature Control with sample format 96 well plate or 0.2 ml tubes.
3. Temperature control range from 4° C to 99° C with temp accuracy/ uniformity should be $\pm 0.2^{\circ}$ C to $\pm 0.4^{\circ}$ C .
4. Temperature heating and cooling ramp rate should be 3°C / S and 2.5° C / S respectively.
5. Lid temperature range should be from 37° C to 115° C and programmable.
6. System should have touch screen display for programming, with memory of more than 700 programs.
7. System should have two USB ports: for protocol transfer.
8. A compatible 2KVA online branded UPS with 2 hours back up should be provided.
9. System should be validated for forensic applications.
10. System should be complete with all accessories to run the system properly at time of installation


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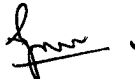
INSTRUMENT FOR SERLOGY DIVISION


THERMOMIXER WITH THERMOBLOCK

SPECIFICATIONS:

1. Instrument with latest thermal block with peltier based temperature control and mixing technology.
2. Should have exchangeable thermo block suitable for 1.5ml, 2.0ml, 15ml, 50ml tubes and PCR 96 well plate with automatic block recognition.
3. Temperature control device range from -15° C below room temperature to 100° C with temperature accuracy and block homogeneity ($\pm 0.5^\circ \text{C}$)
4. Should have mixing speed from 300 up to 3000 rpm.
5. Digital display of time, temperature and speed control
6. Should have program space and predefined programmable keys for temperature.
7. System should have facility for transferring the data - USB interface.
8. System should be complete with all accessories to run the system properly at time of installation


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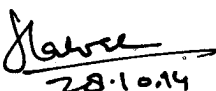
TS-MOD-8/2011

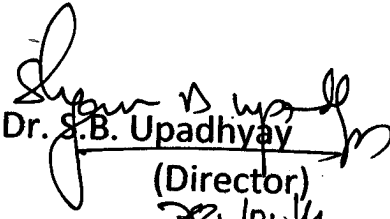
ELECTRONIC BALANCE

SPECIFICATIONS- FOR ONE UNIT

1. Maximum Capacity: 220 gram or more.
2. Readability: 1 mg or better.
3. Repeatability: $\leq \pm 0.02$ mg at 220 gram.
4. Linearity: $\leq \pm 0.002$ gram.
5. Adjustment with internal weight adjustment.
6. Settling Time: 2 Sec maximum.
7. Weighing Pan: size 120mm diameter or more.
8. RS232 interface / USB support.
9. Balance should have high contrast display (HCD).
10. Balance should have self diagnostics test like key pad test, repeatability test.
11. Balance should have quick and fast dismantling of draft shield..
12. The Balance must have built In date & time facility
13. Facility for Quick and error free data transfer to PC .
14. Balance should have solid metal base
15. Bidding firm should be registered with the respective state Govt. Weight & Measurement dept.


28.10.14
Sanjay Khare
(SSA)


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Dr. S.K. Rawat
(Joint Director)
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