

उत्तर प्रदेश पुलिस तकनीकी सेवायें मुख्यालय,

चतुर्थ तल, जवाहर भवन, अशोक मार्ग, लखनऊ

संख्या-टीएस-एमओडी-120/2015-16(एफएसएल)

दिनांक -जनवरी 8, 2016

अल्प कालिक पुनर्निविदा 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 बेवसाइट <http://uppolice.gov.in> से डाउनलोड किया जा सकता है। निविदा शुल्क के रूप में ₹0 300.00 का बैंक डाफ्ट / 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- समस्त टैक्स सहित न्यूनतम निविदा एल-1 पर विचारा किया जायेगा।
- 11- तकनीकी मुख्यालय द्वारा जनहित में किसी भी समय बिना कारण दर्शाये टेण्डर को निरस्त किया जा सकता है।

टेन्डर संख्या	आइटम	सं०	ई0एम0डी0 (₹0 में)	टेण्डर डाकुमेंट का मूल्य (₹0 में)
1-टीएस-मोड-118/15(एफएसएल)	फोरन्सिक डाकुमेंट एग्जामिनर	01	80,000-00	300.00
2-टीएस-मोड-135/15(एफएसएल)	वर्क लैब स्टेशन	12	50,000-00	300.00
3-टीएस-मोड-136/15(एफएसएल)	सेमी ऑटोमैटिक फ्लश प्वाइन्ट आपरेटस	01	14,000-00	300.00
4-टीएस-मोड-137/15 (एफएसएल)	बाइस्पेक्ट्रल मानिटर फार नार्को एनालिसिस	01	10,000.00	300.00
5-टीएस-मोड-138/15 (एफएसएल)	डेफ्रिग्रेलेटर फार नार्को एनालिसिस	01	08,000.00	300.00
6-टीएस-मोड-139/15 (एफएसएल)	डबल डिस्टिलेशन वाटर प्लान्ट	02	20,000.00	300.00
7-टीएस-मोड-141/15 (एफएसएल)	इलेक्ट्रानिक बैलेंस	02	10,000.00	300.00
8-टीएस-मोड-152/15-16 (एफएसएल-एमडीडी)	स्टीरियो माइक्रोस्कोप	01	14,000.00	300.00

9-टीएस-मोड-153 / 15-16 (एफएसएल-एमडीडी)	टाइनाकुलर माइक्रोस्कोप	01	8,000.00	300.00
10-टीएस-मोड-154 / 15-16 (एफएसएल-एमडीडी)	गैस कोमेटोग्राफ (जीसी)	01	21,000.00	300.00
11-टीएस-मोड-155 / 15-16 (एफएसएल-एमडीडी)	यूवी वीआईएस स्पेक्ट्रोमीटर	01	12,000.00	300.00
12-टीएस-मोड-159 / 15-16 (एफएसएल-केएनजे)	डीप फ्रीजर -20डिग्री से0ग्रे0 - 350-550	02	14,000.00	300.00
13-टीएस-मोड-160 / 15-16 (एफएसएल-केएनजे)	स्टोरी को माइक्रोस्कोप	01	12,000.00	300.00
14-टीएस-मोड-161 / 15-16 (एफएसएल-केएनजे)	टैण्डर्ड टेस्ट सीव विद सीव शेकर	01	08,000.00	300.00
15-टीएस-मोड-162 / 15-16 (एफएसएल-केएनजे)	मफल फर्नेश हाइ टेम्परेचर विद प्लेटिनम कूसिबल	02	12,000.00	300.00

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

18.01.2016 समय 02.00 बजे अपरान्ह
19.01.2016 समय 04.00 बजे अपरान्ह
20.01.2016 समय 11.30 बजे पूर्वान्ह
21.01.2016 समय 11.30 बजे पूर्वान्ह
22.11.2016 समय 04.00 बजे अपरान्ह


01/11/16
(संजय कुमार)

अपर पुलिस अधीक्षक, तकनीकी सेवायें,
निमित्त- पुलिस महानिरीक्षाक, 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 :JANUARY. 2016

NOTICE INVITING RE--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- In condition of amendment in any following item's specification. It will be uploaded before 7 days from submitting tender date'
- 11- 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-118/15(FSL)	Forensic Document Examiner	01	80,000-00	300-00
2.TS-MOD-135/15(FSL)	Lab Work Station	12	50,000-00	300-00
3.TS-MOD-136/2015-16	Semi Automatic Flash Point Apparatus	01	14,000-00	300-00
4.TS-MOD-137/2015-16	Bispectral Monitor for Narco Analysis	01	10,000-00	300-00
5.TS-MOD-138/2015-16	Defibrillator for Narco Analysis	01	08,000-00	300-00
6..TS-MOD-139/2015-16	Double Distillation water Plant	02	20,000-00	300-00
7.TS-MOD-141/2015-16	Electronic Balance	02	10,000-00	300-00
8-TS-MOD-152/2015-16(FSL MDD)	Stereo Microscope	10	08,000-00	300-00
9-TS-MOD-153/2015-16(FSL MDD)	Trinaculor Microscope	10	08,000-00	300-00
10.TS-MOD-154/2015-16(FSL MDD)	Gas Chromatograph (GC)	01	21,000-00	300-00
11.TS-MOD-155/2015-16(FSL MDD)	UV VIS Spectrophotometer	01	12,000-00	300-00
12.TS-MOD-159/2015-16(FSL KNJ)	Deep Freezer -20 C	02	14,000-00	300-00

13.TS-MOD-160/2015-16(FSL KNJ)	Strereo Microscope	01	06,000-00	300-00
14.TS-MOD-161/2015-16(FSL KNJ)	Standard Test Sieve with sieve shaker	01	8,000-00	300-00
15.TS-MOD-162/2015-16(FSL KNJ)	Muffle Furnace high temperature with platinum crucible	02	12,000-00	300-00

last date of deposit of tenders

Date of opening of Technical Bid

Date of Purchase committee meeting for technical evaluation

Date of opening of financial offer

Date of purchase committee meeting for financial evaluation

18-01-2016 upto 02-00pm

19-2016 at 04-00pm

20-01-2016 at 11-30am

21-01-2016 at 11-30am

22-01-2016 at 04-00 pm


01/11/16

(SANJAY KUMAR)

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

(3) 2-2

(6)
PHONE/FAX-(0522)2286615

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 SEPARATE 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 within 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.


(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 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)

33

Forensic Document Examination System

PROPOSED TECHNICAL SPECIFICATION

High Resolution CCD Digital Firewire Color Camera or better with Hyper Spectra.

Camera Spectral Response Approx. 360-1100 nm or better.

5.0 or above MP (Optional) High Resolution CCD Digital Firewire Color Camera

Spectral range: 360-1000nm.

Hyper Spectrometer

MONITOR

30" TFT wide screen Monitor or better.

Magnification (Optical) up to x170 or above.

Field of view approx. 200 x 150 nm or above

Illumination:-

- 1) Long Wave Incident UV at 365 nm,
- 2) Medium Wave Incident UV at 312/313 nm,
- 3) Short Wave transmitted UV at 254 nm,
- 4) Long Wave transmitted UV at 365 nm,
- 5) Visible & IR Incident High Intensity Light,
- 6) Visible/Infrared Co-axial Light,
- 7) Visible/Infrared Oblique Light,
- 8) Visible/Infrared Transmitted Flood Light,
- 9) IR Illumination for Anti-Strokes features detection.

32

SOFTWARE (SW)

- 1) 2D/3D Technology,
- 2) ICAO Data Reader,
- 3) Hidden Image Decoder,
- 4) Histogram Stretching,
- 5) Case Work recording,
- 6) Side by side comparison of live & stored image,
- 7) Colour Measurement to measure colour Coordinates,
- 8) Comparison of spectrums for whole visible & NIR Region,
- 9) Split Screen for simultaneous ink analysis on two separate Documents,
- 10) Calibration procedure including measuring statistics, Image Analysis, Processing & Reporting P.C.
- 11) Operating System – WINDOWS or advance
- 12) X-Y Translator stage,
- 13) Polarcife viewer for UV

Accessories

Distance between two points, Area within a user defined box, Radius of a circular feature from three peripheral points, Angle between two lines, Area of user defined shapes, Area of selected features i.e. an alphanumeric character of logo.

Image Comparison & Transformation:

- 1) OVI imaging
- 2) Image Integration
- 3) Superimposition of live & stored image with adjustable mix, 0 to 100%
- 4) Variable speed image storable between a live and a stored image
- 5) Left to right image reversal (Horizontal mirror reversal)
- 6) Top to Bottom Image Reversal (vertical mirror reversal)
- 7) Grey Level reversal (Positive to Negative)
- 8) Image rotation through any angle
- 9) Contract Stretch
- 10) Image Processing, Image Quality enhancement filters, Multi Laser Imaging, IPI decoder, OVI Viewer, MRZ decoder

Sh



Examination of Indented Writings

Facility for Examination of Indented writings

Data Base

Passport & Travel Documents data and bank Note. Bank Note Data Base of various countries with upgradation/ modification free for next 5 years.

Computer

A computer with latest configuration & operating system.

Printer

Colour Laser Printer with High Resolution and high speed and quality out put on normal paper or better

UPS

Online ups of 2KVA with 30 minutes backup

Service Support

- 1) Warranty: Two (02) Years with spare parts
- 2) AMC & Services: 5 years AMC (with/ without spare parts).
- 3) Registered Complaint should be attended with in 48 hrs.

License & Software Upgradation : The installed software free upgradation till the item is declared obsolete/till the warranty period and their free license/no expiry of license

Training: Free of Cost training for three days or more days if required; further 1 day training with upgradation of Hardware/Software.

3.

(Madan Sain)
SSA
FSL, Varanasi

(Saurabh Gupta)
S.A.
FSL, Varanasi

Shree
22-05-15
(Dr. Sudhin Kumar)
DD (Doc)
FSL, Varanasi

SPECIFICATION OF LAB WORK STATION

5

ISLAND BENCH:-L 3000mm x W 1500mm x H 900mm

- C Frame Structure in 32x32x1.2mm thick hollow Galvanized iron pipes with epoxy coating of high chemical resistance.
- Work top in 18 ± 1 mm thick Jet Black Granite construction with moulding at the front and grooved at the bottom to protect module from chemicals.
- 750 mm wide storage module with two drawers and two shutters .
- 500 mm wide storage module with one drawer and one shutters
- 350 mm wide storage module with one drawer and one shutters
- Leg Space -2 Nos.(one side each).
- Doubled sided double tier reagent rack with electrical raceway.
- Electrical sockets 5/15 amp and switch/Tiny Trip – 12 Nos.
- Data Socket- 2 Nos (one side each).
- Single piece moulded PP Sink (L560xW355xD230)-1NO.
- Worktop mounted three way water tap with swan neck spout-1No.
- Peg Board in Phenolic Resin construction with 20 Nos PP Pegs -1No.
- Worktop mounted hand held type double outlet eye wash with SS breaded.
- Flexible hose -1No.
- Splash Guard.
- Sitting round stool with arm rest -4 Nos.

WALL BENCH:-L 2450mm x W 750mm x H 900mm

- C Frame Structure in 32x32x1.2mm thick hollow Galvanized iron pipes with epoxy coated of high chemical resistance construction.
- Work top in 18 ± 1 mm thick Black Granite construction.
- 750 mm wide storage module with one drawer and two shutters-1No.
- Worktop mounted electrical raceway.
- Electrical sockets 5/15 amp and switch/Tiny Trip – 8 Nos.
- Data Socket- 1 No.
- Leg Space – 1 No.(suitable to module dimension)
- Single piece moulded PP Sink (L560xW355xD230)-1NO. With mounted three way water tap with swan neck spout-1No.
- Flexible hose -1No.
- Sitting round stool with rest arm-2 Nos.

Please quote Island bench and wall bench separately with all necessary fittings and installation charges on site.

23.11.15

ZEBA KHAN
SA

23/11/15

A K SINHA
SO

23/11/15

Dr K K VERMA
DD(CHEM)

TS-MOD-136/2015

Specifications of Semi Automatic Flash Point Apparatus

Instrument should be closed cup (Pensky Marten) semi-automatic Flash Point Apparatus complies

(6)

- Should Complies to ASTM D93-A, ASTM D93-B, ISO 2719-A, ISO 2719-B, ISO 15267, IP 34-A, IP 34-B, JIS K 2265-3
- Suitable for testing for distillate fuels (diesel, kerosene, heating oil, turbine fuels), new lubricating oils, vanishes and other homogeneous liquids, residual fuel oils, cutback residual, used lubricating oils, non-homogeneous materials like mixtures of petroleum liquids
- High-grade stainless steel housing with two-color powder coated. □ Swivel-mounted Multi-Function-Head □ Automatic overheat protection for safety.
- Electric heating and electronic heater control.
- Electric stirrer, 110 rpm (method A) and 250 rpm (method B).
- Stirrer shut-off automatically during dipping of igniter.
- Re-cooling fan.
- CRM standard to be provided with certification. (diesel 01 and lubricant 01) 250ml each.
- Temperature Range: ambient to +350 °C
- Digital-Thermometer with temperature probe (Pt-100), Hold-key stops the display for easy storing of the Flash-Point, while the normal display runs further.
- Ignition Type: gas & electric.
- Stirring speeds: 120 or 250 rpm (selectable)
- Gas Connection port for propane/butane or natural gas (max. 0.05 bar)
- Data export through RS232, USB, LAN etc.
- Laser Printer with 5 Set of Cartridges should be provided.
- Temperature modulation unit (2 ton X 2) with suitable lab workstation for installation of instrument.

Spares and accessories

- (1) Electrical igniter × 2
- (2) Thermometer × 2


SARITA
SA)


ABHA RANI
(SSA)


PANKAJ KRISHNA
(SO)


Dr K K VERMA
DD(CHEM)

Bispectral TS-mod-137/2015

BIS MONITOR With Accessories

Specification:-

1-Features

- BIS MONITOR provides a measure of the hypnotic effects of anesthetic and sedative agents on the brain.
- The BIS measurement allows clinical professionals to easily monitor the patient's level of consciousness or sedation in the Operating Room and in the Intensive Care Unit.
- In the OR, it is used to monitor a patient's risk of awareness and helps to achieve:
 - Reduced hypnotic drug usage
 - Faster, more consistent wake-up from Anesthesia Faster qualification for discharge from the PACU.
- In the ICU, it is used to objectively assess the patient's level of sedation and helps to achieve:
 - Reduced sedative drug usage
 - Decreased number of ventilation days
 - Improved patient comfort.
- Bispectral Index technology continuously processes a patient's Electroencephalographic (EEG) signal, performing complex calculations to arrive at a single BIS value ranging from 100 (fully awake) to 0 (absence of electrical brain activity).
- BIS measurement data and trends are fully integrated on the patient monitor display, and BIS alarms are signaled audibly and visibly by the monitor.

2-Indications(Signals) By the BIS Monitor:

- BIS (Bispectral Index)
 - EMG (Electromyographic strength)
 - SQI (Signal Quality Index)
 - SR (Suppression Ratio)
 - SEF (Spectral Edge Frequency)
 - TP (Total Power).
 - Burst Count1
 - EEG (Continuous, single channel, real-time EEG waveform)
- Electrode-to-skin impedances are continuously measured and displayed in the relevant window. If the patient monitor used has this functionality

3-Filters

Users can select from a range of low-pass and high-pass filters for artifact rejection. The low-pass filters allow the rejection of muscle artifacts. The high-pass filters allow the rejection of ECG signal interference. In addition, a notch filter suppresses line frequency interference. The BIS technology suppresses interference from electrocautery, EMG, and other high frequency noise sources

4-Description

Bispectral Index (BIS) monitoring is used in monitoring the state of the brain by data acquisition of EEG signals in the intensive care unit, operating room, and for clinical research.

5-Alert Capabilities

Visual and audible BIS high and low limit alarms are generated. In addition, various INOP alerts are generated, for example: an indication when a lead is no longer present and when the impedance is high.

6- Physical Features

Device	Size	Weight
BIS MODEL	36 x 103.5 x 110 mm	220 g (7.6 oz) (appox)
BIS Module	(1.4 x 4.0 x 4.3 inches) (appox) W x H x D	
Covidien LoC (BIS Device)	95.3 mm (3.7 in) diameter x 63.5 mm (2.5 in) height	226.8 g (8.0 oz) (appox) without cables 499.3 g (1.1 lb) (appox) with cables

Patient Interface Cable: 1.25 m (4.1 ft) (appox)

Protected against damage from defibrillation and electrosurgery.

7-BIS Measurement Specifications

Measurement Ranges

- Bispectral Index (BIS): 0–100
- Signal Quality Index (SQI): 0–100%
- Electromyographic Strength (EMG): 0–100 dB
- Suppression Ratio (SR): 0–100%
- Spectral Edge Frequency (SEF): 0.5–30.0 Hz
- Total Power: 0–100 dB
- Burst Count: 0–30

8-Noise (EEG Waveform)

δ 0.3 μ V RMS (2.0 μ V peak-to-peak)

9-Bandwidth

0.25–100 Hz (-3dB)

10-Sensors

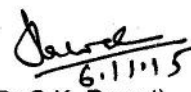
BIS Module

BIS Device (including cables)

5 Sensors (Quatro / 4-electrode sensor)


5.11.15
(Sangita Seth)
SO-FSL-LKO


6/11/15
(Dr. G. Khan)
DD-(Medico)-FSL-LKO

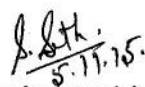

6.11.15
(Dr. S.K. Rawat)
JD(Anaes) -FSL-LKO


TS-MOD. 138/2015

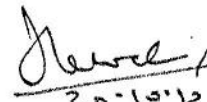
Technical Specification for procurement of Defibrillator with external pacemaker

(2)

1. The defibrillator should have biphasic technology having energy selection of 2-200 joules.
2. The machine should have facility for ECG monitoring defibrillation, external pacing & recorder.
3. Machine should have more than 8" TFT screen.
4. Machine must be with sweep rate 25mm/sec-50mm/sec.
5. Machine should have 24 hour trend storage facility.
6. It should be capable of monitoring ECG through ECG cables, electrodes & paddles.
7. The machine should have ECG defibrillation facility for adult & pediatric patients.
8. The machine should have ECG waveform display or bright screen along with other vital numeric information.
9. The machine should be compact, portable with built in rechargeable battery & light weight.
10. The machine should have inbuilt auto & manual recorder for printing ECG trace & stored information.
11. The machine should have user selectable alarm setting.
12. The machine should work on mains (without battery) and on battery as well.
13. The machine should have AED feature as inbuilt with manual override for manual operations.
14. Machine must be with carry bag & accessory bag.
15. The machine must be supplied with all the essential accessories in 2 set movable trolley.
16. Service centre must be in Lucknow (U.P.) for more than 2 years.
17. Machine should have warranty as per IRS condition is mandatory.


(Sangita Seth)
S.O.
F.S.L., U.P., LKO


(Dr. G. Khan)
Deputy Director
F.S.L., U.P., LKO


(Dr. S.K. Rawat)
Joint Director
F.S.L., U.P., LKO

TS MOD-139/2015

Specification for Double Distillation Water Plant

1. The water purification system must produce both type I and type II water for usage.
2. System must be compatible to be fed by tap water available on the site i.e., must have treatment system.
3. The system shall be comprised of purification units for
 - a) RO water
 - Pretreatment
 - Reverse osmosis
 - Deionization system
 - b) Type I water
 - Ultra purifier system including UV Irradiation (dual channel) ,polishing system and other necessary filters/cartridges.
4. The purified water must be de-ionized and ultra pure (Type-I).
5. The purified water must have a resistivity of 18.2 mega-ohm.cm at room temperature and conductivity for type I water should be $0.055 \mu \text{ S/cm}$.
6. TOC should be $\leq 5 \text{ ppb}$.
7. Filtration rate must be $\geq 10 \text{ l/hr}$ and capable of filtering at least 40-50 liters of water in a day.
8. Bacteria concentration must be $\leq 1 \text{ cfu/ml}$.
9. Particulate matter : $< 1/\text{ml}$.
10. RO product recovery : 25-40%
11. System must have a reservoir of water capacity of > 20 liters that can maintain the purity of water with tap.
12. System should be provided two years standard warranty including spares , consumables and accessories from the date of installation as per tender condition and separate quote for five years additional CMC after two years of standard warranty with all consumables and other accessories.
13. Instrument should be complete in all respect for installation and demonstration of the system.


4.11.15
Abha Rani
(SSA)


04.11.15
Pawan Kumar
(S.O.)


04/11/15
Dr. K.K. Verma
Deputy Director (Chemistry)

③

TS-mod - 141/2015-16

Electronic Balance

Specifications:

Capacity :	0.01mg-210g
Readability :	0.01mg
Repeatability :	$\pm 0.1\text{mg}$
Linearity (g) :	$\pm 0.3\text{mg}$
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)	$\pm 1 \text{ ppm}/^\circ\text{C}$
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.

Samal
27-11-15
(Samal Anil)
SA, FSL, LKO

Shyam Sunder
27-11-15
(Shyam Sunder)
SO-FSL-LKO

Shyam Sunder
27-11-15

75-MOD-143/2015 (MOD-II)

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)

SSA


(S.N. Yadav)

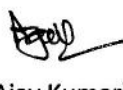
SSA


(C.P. Pandey)

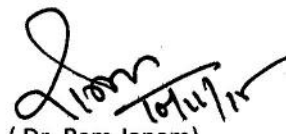
SSA


(Arun Sharma)

SO


(Ajay Kumar)

DD


(Dr. Ram Janam)

JD

TS-MOD-143/2015-16 (MDD-III)


Trinocular Microscope


Technical Specification:-

1. Trinocular Microscope with variable light path for visual examination and camera.
2. Trinocular optical tube with range of 30° - 45° 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)
SSA


(S.N. Yadav)
SSA


(C.P. Pandey)
SSA


(Arun Sharma)
SO


(Ajay Kumar)
DD


(Dr. Ram Janani)
JD

SPECIFICATION OF GC with Gas Generator

Specifications of Gas Chromatograph:

1. GC-HS system fully PC controlled from ambient temperature +4°C to 450°C
2. Facility to install two capillary columns of 30m.
3. Oven temp ramp rate of oven should be 100°C or better.
4. Possible to program 8 temp ramp or better.
5. 8 EPC/PPC channel for inlets, detectors or auxiliary gases or more.
6. Preferably cool down rate 450°C to 50°C within 4 minutes or better.
7. Possible to use capillary columns of 50, 100, 250, 320microns and above.
8. The pressure set point should be adjustable by increments of 0.01 psi to 100 psi. Maximum temperature attainable should be 400°C or more.
9. Two injectors should be provided. The system should be provided with one split/split-less inlet and one programmable temperature injector for capillary columns having pressure range up to 100 psi.
10. Fully automatic auto sampler: having capacity of 100 vials or more with area reproducibility of 0.5% RSD or less. It should inject from 0.1µl to 20µl or better with variable speed & varying syringe sizes and must operate from software.
11. The system should have one FID detector with the following specification or better.
FID :MDL<3pgc/s or better, dynamic range > 10⁶ Data Acquisition rate up to 200Hz or better. All gases flow should be adjustable/controlled by software.
12. GC System must be field upgradable with MS detector in future.
13. The system should be Quoted with all necessary utilities for GC-HS
14. PC operated static heated transfer line based dedicated headspace analyzer with 25 or more vials with minimum 3 or more thermostatic over lapping injection possibility and 2 or more priority samples positions having an RSD of < 2 % operational through software
15. Columns: suitable capillary columns for narcotic drugs, petroleum samples, alcohol samples, toxicological samples two numbers each.
16. All BIS marked gas cylinders(hydrogen, zero air, nitrogen ETC), regulators (2 stage), gas purification panels, tubing's, ferrules with all necessary chemicals and all necessary spares for two years. Automatic leak check facility for carrier gas. Additional syringes of 2, 5 and 10 micro liters (2 each).

[Signature]
05/01/16

[Signature]
05/01/16

[Signature]
05/01/16

[Signature]

[Signature]
05/01/16


17. Standard mixture FID -2No.

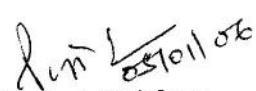
COMPUTER SPECIFICATION

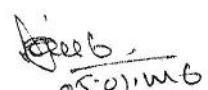
1. Branded with i5 processor with at least 500GB HARD DISK, 19 inch Colored TFT with cordless mouse and keyboard with Laser Printer with 5 set cartridges.
2. Latest Ver. Of Windows software & Antivirus (all in original).
3. 5 KVA Online UPS with ONE HOUR Backup (maintenance free batteries).
4. Comprehensive Training for lab staff and support till familiarity with the systematic our site with our samples. Installation should not be treated complete unless and until training on our instrument at our site is completed.
5. Needles for auto sampler (5 piece), Headspace (5piece) and linear auto sampler vials with caps and septa (1000 piece) and headspace vials with caps and septa (1000 piece) with all necessary utilities.


PART B (ITEMWISE PRICE TO BE QUOTED SEPERATELY)

1. Branded Gas generators like Peak make of hydrogen, nitrogen and zero air should be quoted separately.
2. One ECD :Source :Ni Source, Operating temperature 100 °C to 400 °C or better in 1 °C increments, Minimum detectable quantity < 0.06pgperchloroethylene or equivalent with argon/methane or nitrogen, Linearity > 104, Makeup gas Standard
3. FIVE years CMC (QUOTE YEARWISE RATE) after two year standard warranty
4. Temperature modulation unit (2 ton X 2) with suitable lab workstation for installation of instrument.


Manoj K Verma
(SA)
MEMBER


Pankaj Krishna
(SO)
MEMBER


Ajay Kumar
DD(TOXI)
MEMBER


Dr K K VERMA
DD(CHEM)
CHAIRMAN
Tech Committe



UV-Visible Spectrophotometer

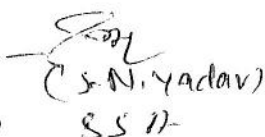
Technical Specification

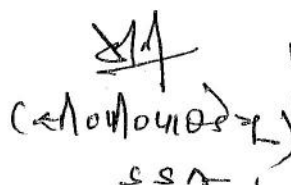
TS-MED-143/2015-16 (MDD-TV)

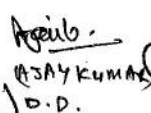
System should be microprocessor based computerized		
2	Photometric method	Transmittance, absorbance, energy, reflectivity
3	Wavelength range	190nm-1100nm
4	Optical Beam Configuration	Double Beam
5	Optical Bench	Symmetrical Czerny Turner 75mm Focal length
6	Light source	Visible : LED'S
		UV : Series of LED'S (300-365 nm) LED'S for Luminescence Spectra
7	Detector	CCD with 2048 pixels to 3648 pixels >150 nm deep UV detector coating Slit size 25 μ m
8	Spectral bandwidth	1nm-2nm
9	Stray light	$\leq 0.03\%T(220nm, 360nm)$
10	Wavelength accuracy	$\leq + / - 0.3nm$
11	Wavelength reproducibility	$\leq 0.1nm$
12	Photometric range	-4A-4A
13	Photometric accuracy	$\leq + / - 0.3\%T(0-100\%T)$ $\leq + / - 0.002A (0-0.5A)$ $\leq + / - 0.004A(0.5-1A)$
14	Photometric reproducibility	$\leq + / - 0.001A (0-0.5A)$ $\leq + / - 0.002A (0.5-1A)$
15	Stability	$\leq + / - 0.003A/h$
16	Noise	$\leq + / - 0.003A$
17	Base line flatness	$\leq + / - 0.008A$ $\leq + / - 0.001A$
18	Power	100-240v, 50/60Hz
19	PC with printer & UPS	Latest windows based PC with printer(colour Laser multifunctional)
20	Lab work station	A suitable work station with working chairs /stools and air conditioning systems (about 1.5 ton)
21	Accessories and connectivity	Cell changers 8 cell's Sippers
22	System should be complete at time of installation	
23	The supplier should also provide all the consumable,connectors,cables,etc along with the system .The supplier should provide free training at our lab	
24	Warranty	Two years ,back up of parts 5 years


S. S. N. Yadav

(S. S. N. Yadav)
S. S. N.


(S. S. N. Yadav)
S. S. N.


(S. S. N. Yadav)
S. S. N.


S. S. N. Yadav
D. D.


S. S. N. Yadav
27/11/15

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

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

QTY (02)

SPECIFICATIONS:-

- 20/11/15
- 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 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

P. S.
(Pankaj Krishna)
S
A.S.C. Lucknow

20/11/15
(Dr Faizan Ahmad Khan)
Scientific Officer
FSL UP Lucknow

S
(Smyant Sudin)
S. O. Lucknow

20/11/15
(ADARSH KUMAR)
D. O. Lucknow

Vipin
(VIPIN ASHOK)
(SA)
FSL LKO

TS-MOD-144/245-16 (KNJ-VI)

STEREO MICROSCOPE

15.11.11 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

F.A.R.HAN
(CDR F.A.R.HAN) (SO)
FSL LKO

Suyam Sankar
(Suyam Sankar)
SO, FSL-LKO

Ajay Kumar
(AJAY KUMAR)
DD (TOXI)

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

Standard 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, F.S.L LKO

(Ranjit Karishna)
So
F.S.L LKO

(Rajendra Singh)
F.S.L LKO

(Smyamsundar)
So F.S.L LKO

(Asa Kumar)
DO (TRK)

Muffle Furnace (High Temp)

Specifications

- 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 MoSi₂) 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 ₂ O ₃ Sample Plate | 1 pcs |
| Al ₂ O ₃ Furnace Door Block | 1 pcs |
| Protection Glove | 2 pairs |
| Crucible Clip | 1 pair |
| Crucibles | 6 pcs |
| Platinum crucible 50 ml | 02 pc |


Vibin

pcns

(VIPIN ASHOK)
(SA)
FSL LKO

(Bankaj / crising)
So
AEL 440

DR. RAJESH K. S. S.
FSC LKO


 Gary Anderson
 Sober-100

Zeutern
(Asayirnar)
D-D (Tux)

अति आवश्यक/महत्वपूर्ण/द्वारा फैक्स

उत्तर प्रदेश पुलिस तकनीकी सेवायें मुख्यालय,

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

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

दिनांक, जनवरी 8 2016

सेवा में

निदेशक,

सूचना एवं जन सम्पर्क विभाग, (विज्ञापन प्रभाग),

उत्तर प्रदेश, लखनऊ।

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

महोदय,

कृपया उपर्युक्त विषयक विज्ञापन की 05 प्रतियाँ अंग्रेजी / हिन्दी में मय सीडीडी 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, दिव्याइनियर, 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 सीडीडी) 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-सीडीडी की साफ्ट कापी।

भवदीय,

(संजय कुमार)

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

प्रतिलिपि-पुलिस महानिरीक्षक, प्रो०/बजट, उ०प्र० पुलिस मुख्यालय, इलाहाबाद को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित है।

2-प्रतिलिपि- पुलिस अधीक्षक/सहायक निदेशक, उ०प्र० पुलिस कम्प्यूटर केन्द्र, लखनऊ को विज्ञापित निविदा की एक प्रति एवं सीडीडी संलग्न कर इस आशय से प्रेषित है कि उक्त निविदा को उ०प्र० पुलिस की वेबसाइट पर भी प्रसारित कराने का कष्ट करें। संलग्नक-यथोपरि

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

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