

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)
सेवा में

दिनांक, 23/4/2016

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

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

महोदय,

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

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

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

संलग्नक-विज्ञापन की प्रति 05 प्रतियों में।

2-सी0डी0की साफ्ट कापी।

भवदीय,

(संजय कुमार)

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

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

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

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

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

Phone/Fax No..0522-2286615

U. P. POLICE TECHNICAL SERVICES HEADQUARTERS

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

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

DATED : April 21 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 /decreased 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-94/2015-16(FSL)	Desktop Computerise(Modular)	01	22,000-00	300-00
2-TS-MOD-110/2015-16 (FSL)	GCMS (Gas Chromatograph with Mass Spectrometer)	01	1,60,000-00	300-00
3-TS-MOD-118/2015-16(FSL)	Forensic Document Examining System	01	80,000-00	300-00
4-TS-MOD-130/2015-16 (FSL)	RAMAN SPECTROMETER	01	1,70,000-00	300-00
5-TS-MOD-132/2015-16(FSL)	GC	02	1,00,000-00	300-00

pre bid meeting and Demo equipment
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

28-04--2015 at 11-00 am
05-05--2016 upto 02-00pm
05-05-2016 at 04-00pm
06-05-2016 at 11-30am
09-05--2016 at 11-30am
09-05-2016 at 04-00 pm

(SANJAY KUMAR)

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

उत्तर प्रदेश पुलिस तकनीकी सेवायें मुख्यालय,

चतुर्थ तल, जवाहर भवन, अशोक मार्ग, लखनऊ

संख्या-टीएस-एमओडी-120/2015-16(एफएसएल)

दिनांक -अप्रैल 23 2016

पुनर्निविदा सूचना

- 1- उत्तर प्रदेश पुलिस हेतु निम्न उपकरणों की सील बन्द निविदा भारतीय मैन्युफैक्चरर/डीलर/रजिस्टर्ड फर्म/विदेशी मैन्युफैक्चरर के अधिकृत विक्रेता से आमंत्रित की जाती है।
- 2- निविदा प्रपत्र व उपकरण से सम्बन्धित तकनीकी स्पेशीफिकेशन उत्तर प्रदेश पुलिस की वेबसाइट <http://uppolice.gov.in> से डाउनलोड किया जा सकता है। निविदा शुल्क के रूप में ₹ 300.00 का बैंक ड्राफ्ट/बैंकर चेक/एफडीआर पुलिस अधीक्षक/सहायक निदेशक, उ0प्र0पुलिस कम्प्यूटर केन्द्र लखनऊ के नाम देय होगा, जमा की जायेगी।
- 3- निविदा शुल्क किसी भी दशा में वापस नहीं किया जायेगा तथा निविदा स्वीकृत न होने की दशा में ईएमडी वापस कर दी जायेगी।
- 4- तकनीकी सेवायें मुख्यालय से नगद भुगतान पर टेण्डर डाकुमेंट्स विक्रय नहीं किये जायेंगे।
- 5- प्रत्येक टेण्डरकर्ता द्वारा टेण्डर की ईएमडीए डीडी/ एफडीआर / बैंक गारन्टी के रूप में, जो पुलिस अधीक्षक/सहायक निदेशक, उ0प्र0पुलिस कम्प्यूटर केन्द्र लखनऊ के नाम देय होगा, जमा की जायेगी।
- 6- सफल टेण्डरकर्ता द्वारा क्रयादेश 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 या घटाई 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।

टेण्डर संख्या	आइटम	सं०	ई0एम0डी0 (रु० में)	टेण्डर डाकुमेंट का मूल्य (रु० में)
1-टीएस-मोड-94/2015.16 (एफएसएल)	डेस्कटाप कम्प्यूटराइज (माइयूजर)	01	22,000.00	300-00
2-टीएस-मोड-110/2015.16 (एफएसएल)	जीसीएमएस	01	1,60,000.00	300-00
3-टीएस-मोड-118/2015.16 (एफएसएल)	फोरेंसिक एग्जामिनिंग सिस्टम	01	80,000.00	300-00
4-टीएस-मोड-130/2015.16 (एफएसएल)	रमन स्पेक्ट्रोमीटर	01	1,70,000.00	300-00
5-टीएस-मोड-132/2015.16 (एफएसएल)	जीसी	02	1,00,000.00	300-00

प्री बिड मीटिंग एवं डेमो उपकरण
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

28.04.2016 समय 11.00 बजे पूर्वान्ह
05.05.2016 समय 02.00 बजे अपरान्ह
05.05.2016 समय 04.00 बजे अपरान्ह
06.05.2016 समय 11.30 बजे पूर्वान्ह
09.05.2016 समय 11.30 बजे पूर्वान्ह
09.05.2016 समय 04.00 बजे अपरान्ह

(संजय कुमार)

अपर पुलिस अधीक्षक, तकनीकी सेवायें,

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U.P. POLICE TECHNICAL SERVICES, HEAD QUARTERS,
IVth FLOOR, JAWAHAR BHAWAN, ASHOK MARG, LUCKNOW-226001
PHONE/FAX-(0522)2286615

GENERAL TERMS AND CONDITIONS FOR TENDERS

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

1 - The tendering firms are requested to submit the offer in TWO PARTS. The First Part will be named as Technical Offer & the Second Part will be called as Financial Offer. **The technical offer as well as financial offer are to be prepared separately for each tender.** BOTH TECHNICAL OFFER AND FINANCIAL OFFER PROPERLY SEALED IN SEPERATE COVERS, MUST BE KEPT IN ONE BIG ENVELOPE AND SEALED. ON EACH COVER INDICATE CLEARLY THE TENDER NO. _____ ITEM AND DATE _____ OPENING DUE ON _____. DO NOT QUOTE RATES IN THE TECHNICAL OFFER, OTHERWISE THE TENDER WILL BE REJECTED.

2 - After submission of tender any addition, alteration or change in any offer shall not be acceptable.

3 - All the enclosures should be valid on the date of opening of the tender.

4 - If any cutting/ corrections, it should be properly attested by the tenderer.

5 - Earnest money (as mentioned in tender advertisement in news papers) has to be deposited **FOR EACH ITEM SEPARATELY** along with the Technical Offer in the form of Fixed Deposit of Scheduled Bank in the name of Superintendent of Police/ Asstt. Director, Uttar Pradesh Police Computer Center, payable at Lucknow,. Offers without earnest money will be ignored. If any firm is exempted from furnishing earnest money, enclose government orders. If government order is not submitted by the tenderer his tender will not be considered.

6 - It shall be the responsibility of the tendering firms to present 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 quoting in Indian Rupees 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 hole quantity, mentioned in financial offer only be acceptable.

22 - THE UNDER SIGNED RESERVES THE RIGHT TO ACCEPT OR REJECT ANY TENDER, EITHER IN PART OR FULL, WITHOUT ASSIGNING ANY REASON THERE OF.

23 - Firms must come prepared to demonstrate their goods in 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 undersigned has right to accept any lower or higher rates of the tenders without assigning any reason.

25 - The validity of the rates should be at least for six months from the date of opening of the tender.

26 - 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 - Tender must be quoted in Indian Rupees only otherwise bid will not be accepted.

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.

23/4/16
(SANJAY KUMAR)
ADDL. Super. of Police
For Inspector General of Police,
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 47) 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)

TS-MOD- 94/2015-
(78)

Name of the Instrument:

New Computerized Polygraph : Modular Model with Laptop and colour Printer- Qty.(01)

(न्यू कम्प्यूटाइज्ड पालीग्राफ : माडयूलर माडल विद लैपटॉप एण्ड कलर प्रिन्टर-1 अदद)

Technical Specifications :

1. Expandable upto 32 Channels with Laptop Computer and printer
2. Wired Modular Polygraph System
3. Preumo Module & Cardio Module
4. GSR/PLE Module includes EDA Cable, Metal Plates and 100 disposable electrodes.
5. Pump bulb
6. Arm cuff
7. PLE Finger Clip – Long
8. Activity Module includes : Seat Activity Sensor, Arms Feet
9. Docking station Holds Six Modules
10. Modular cable medium length- 36" UC shoulder Bag
11. Signature Pad Finger Print Reader
12. With seperately attached branded Web Cam of 5-8 mpxl.
13. With branded U.P.S.
14. USB to 18 PIN cable
15. Instrument should be quoted as a complete device at the time of installation.

Note: The instrument can be also purchased through STC process;
New Delhi

Accessories

- Subject Chair

(Sangeeta Seth)
S.O.
F.S.L. U.P. LKO.

(Dr. Raj Kumar)
D.D. Sero
F.S.L. U.P. LKO.

(Suresh Chandra)
D.D. Bio
F.S.L. U.P. LKO.

TS-MOD-110/2015-16

GAS CHROMATOGRAPH MASS SPECTROMETER SPECIFICATIONS

HARDWARE SPECIFICATION

- Fully automatic computer controlled GCMS with programmable electronic control and having capability of qualitative and quantitative analysis
- Provision for mounting three injectors and four detectors simultaneously
- Should have inbuilt fast GC main frame with Split / Splitless Injection port with latest Advanced Flow Controller with Fast GC capability
- Column Oven features
 - Temp range : ambient to 450 deg C
 - Overheat Protection : Programmable up to 470 deg C (fixed circuit provides protection at 500 deg C)
 - Temperature Programming : 20 ramps in total (heating & cooling)
 - Setting : 0.1 deg C/min
 - Program setting : -250 to 250 deg C/min, 0.01 deg C/min increments
 - Large Graphic User Interface Text Display with soft touch key pad for setting/controlling of temperature & pressure/flow parameters, type of carrier gas, carrier gas column pressure, flow rates, split flow, detector gas flow rate and all detector parameters
 - Intelligent self diagnostic functions like septum & glass insert operating status, temperature sensor errors, supplied gas pressure, control status for each gas, ignition operation, DC voltage and AD convertor etc.
 - Should Equipped with a double-jet cooling system, the system enables the reduction of cool down time from 450 deg C to 50 deg C in 3.4 minutes.
- Carrier gas head pressure setting up to 970 kPa
- Injection Port heating up to 450°C
- High power column oven heating up to 450°C
- Mass Range 1.5 m/z to 1,090 m/z
- Resolution of $R > 2M$ (FWHM)
- Maximum Scan rate of 20000 amu /sec
- Vacuum System with dual TMPs 179 ltr/sec (Ion Source) and 185 ltr/sec (Detector) in differential pumping modes i.e. total minimum vacuum 365 lit/sec
- Auxiliary pumping with 30 ltr/min rotary pump
- Direct interface between GC & MS with independent heating up to 350°C
- Direct compatibility of capillary columns with I.D. 0.1mm to 0.53mm
- Rigid Structure, Repeller type, heated lens stack Ion Source
- Independent Ion source heating up to 300°C
- Variable Ionization voltage from 10 to 200 eV
- The Dynamic range of the detector should be 8×10^6
- Variable Ionization current from 5 to 250 μA
- Maximum column flow rate : 15 ml/min
- Ecology mode available to reduce power consumption in standby mode by min 30%
- Number of temperature control zones : minimum seven
- Should have auto tuning feature

- Should have the feature of Easy to replace septa, glass inserts without breaking vacuum
- Front access structure for easy maintenance, the ion source box should be disassembled easily without filament and lens dismounted.
- Filament of Ion source should "Dual rhenium coil type" with automatic change-over feature in built so that in case of one filament other automatically takes over, without having need to change the filament
- Metal Quadrupole mass filter Analyzer with rotateable pre-rods
- Conversion Dynode fitted long life Electron Multiplier Tube with noise suppression lens
- Full Scan and Selected Ion Monitoring Mode with Fast Automated Simultaneous SCAN/SIM
- Mass stability : $\pm 0.1u/48$ hours (constant temperature)
- Vacuum Compensation and automatic leak testing with MS
- EI Scan Sensitivity S/N Ratio >1500 RMS for 1pg Octafluoronaphthalene, m/z 272
- Sensitivity of other optional modes
 - PCI Scan : S/N ratio > 500 (RMS) for 100pg Benzophenone, m/z 183
 - NCI scan : S/N ratio > 500 (RMS) for 100pg Octafluoronaphthalene, m/z 272
- Scan speed : 20,000 u/sec (single scan)

FLAME IONISATION DETECTOR [2nd Detector]

- Type : High sensitivity auto-ranging
- Temp. Range: Up to 450°C in steps of 1°C
- Detection Limit : 1.5 pgC/sec for Dodecane
- Dynamic Range : 10^7
- No make up gas required; Suitable for both capillary & packed column application; Standard Advance Flow Controller for 3 gases & totally software controlled; Fast Flameout detection and efficient automatic re-ignition

SOFTWARE SPECIFICATIONS

The software should be a fully 32-bit application with an assistant bar showing operating procedures graphically and a wizard function that helps enter complicated parameters. These make it easy for even first-time users to use the software. In addition, should be controlling pretreatment accessories, such as headspace sampling unit, the software should allow continuous automatic operation, while using self-diagnostic function of the software validation assistance. If a data problem occurs, the analysis can also be automatically stopped to prevent wasting precious samples. Since measurement parameters and data analysis parameters can be controlled using a single method file and data files include instrument history information, it is capable of supporting GLP compliance and other requirements. Operating System should be Microsoft Windows 2000 / Windows XP / Windows Vista. Should have feature of Automatic Adjustment of Retention Time, creation of Automatic SIM table as standard software feature. Also should have the library search feature like Similarity search, Similarity search with Retention index,

LIBRARY

Latest 2014 version of NIST library to be supplied in original with the instrument and should be supplied directly from manufacturer's end

HEAD SPACE AUT SAMPLER

Head space sampler should be wall to wall connected with GC or GCMS.

Sample Injection Method : Sulfinert sample loop 1 µl

Number of Vials : 90 or more

Vial Mixing : 5 stages max

Leak Check : All-vial automatic check

Vial Warming Temperature : Room temperature + 10 °C to 300 °C (Settings are 0 °C to 300 °C, in 1 °C units, with an accuracy of ± 0.1 °C)

Transfer Line Temperature : Room temperature + 10 °C to 350 °C (set in 1 °C units, accuracy of ± 0.5 °C)

Carrier Gas Control : Electronic control via AFC built into GC

Vial Pressurized-Gas Control: Electronic control via APC built into GC

Carrier Gas and Vial Pressurizing Gas : High-purity helium or nitrogen

PC Interface : USB

Guaranteed Operating Environment : 15 °C to 30 °C, humidity up to 70 % RH (performance guaranteed at 18 °C to 28 °C with room temperature fluctuations within 1.3 °C)

AUTO LIQUID INJECTOR

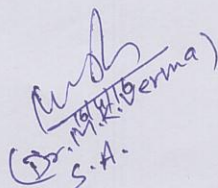
Sample injection method : Liquid sample injection via special microsyringe

Sample Volume : 0.1 to 8.0 µl; 0.1 µl steps, (using 10 µl syringe)

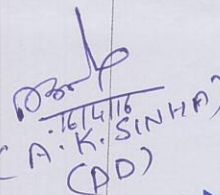
Number of samples : 12 place or more, 1.5ml sample vial each

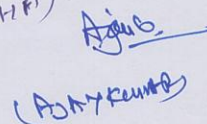
ESSENTIAL CONSUMABLES, TOOL KIT ETC

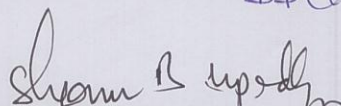
Instrument to be supplied with all essential consumables H₂, N₂, zero gas and He gas cylinder, SS regulators, purification panel for four gases, 10 KVA online UPS with 30 minuts back up and for GC as well for MS, Tool kit etc necessary for installation/demonstration of the GCMS as well as for smooth operation of the GCMS atleast one year


(Dr. M. K. Verma)
S.A.


16/4/16 (A. K. SINHA)
DPC (Chay)


16/4/16 (A. K. SINHA)
(AD)


(AD) Kumbh


Shyam B. Upadhyay

TS-MOD -118/2015-16

33

(1)

90

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.

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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 or 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

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

S.A.

(Saurabh Gupta)

S.A.

Shun
22-05-15
(Dr Sudhin Kumar)

TS-MOD-130/2015-16

TECHNICAL SPECIFICATION OF RAMAN ANALYZER

- The Raman analyzer instrument should be suitable laboratory experiments.
- It should have high sensitive CCD spectrograph with CCD cooling temperature to -60°C with dynamic range: up to 16 bits.
- It should have high throughput laboratory fiber optics probes.
- Rayleigh rejection: working distance : 7mm (standard)
- It should supply with configured laptop and pre loaded operating software.
- The excitation laser is available for dual model of 532 and 785 nm.
- It should have best signal to noise characteristics of any laboratory grade instrument.
- It should suitable for Accurate, Fast, Repeatable raman measurement.
- It should have high throughput laboratory probe with $> 8 \text{ O.D.}$
- It should suitable for best performance, cost ration of raman instrument.
- It should be compact, reliable and easy to use.
- The Laser power should be available with 532 mW at lower side and 400 mW at higher side.
- It should have spectral range from 250cm^{-1} to 3200cm^{-1} / 100cm^{-1} to 3100cm^{-1} for 532nm and 100cm^{-1} to 3300cm^{-1} for 785 nm.
- It should have suitable data acquisition and spectral management software.
- The software should have facility to save data file in TXT, SOC, DAT or BMP formats.
- Also it should have direct export link to Grams or Excel for post processing and modeling.
- Raman analyzer system should be offer with Sample Holder for measure liquid samples in vials or cuvette.
- It should offer with Probe holder for precision stage for fine adjustment on contact for solid samples.
- It should offer with high NA lens tube with working distance from 3mm and lens tube WD 10 lens tube working distance 10mm
- It should supply with safety goggles.
- It should supply with Spectral ID for spectral search and database building raman library.
- Raman analyzer should be offered with complete two years comprehensive warranty.
- ~~Price should be quoted in Indian rupees only.~~

Shyam D Upadhyay

TS-MOD-132/2015-16

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).

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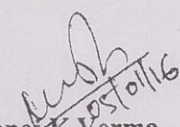
17 Standard mixture FID -2No.

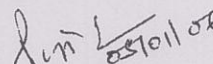
COMPUTER SPECIFICATION

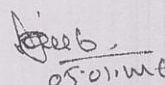
1. Branded with i5 processor with at least 500GB HARD DISK, 19 inch Colored TFT with cordless mouse and keyboard with Laser Printer with 5 set cartridges.
2. Latest Ver. Of Windows software & Antivirus (all in original).
3. 5 KVA Online UPS with ONE HOUR Backup (maintenance free batteries).
4. Comprehensive 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.

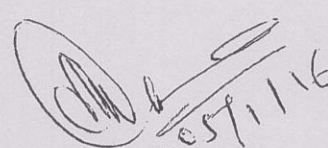
PART B (ITEMWISE PRICE TO BE QUOTED SEPERATELY)

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

