

# उत्तर प्रदेश पुलिस तकनीकी सेवायें मुख्यालय,

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

संख्या-टीएस-एमओडी-288-2016(एफएसएल)

दिनांक - मई, 2016

## अल्प कालिक निविदा

- 1- उत्तर प्रदेश पुलिस हेतु निम्न उपकरणों की सील बन्द निविदा भारतीय मैनुफैक्चरर/डीलर/रजिस्टर्ड फर्म/विदेशी मैनुफैक्चरर के अधिकृत विक्रेता से आमंत्रित की जाती है।
- 2- निविदा प्रपत्र व उपकरण से सम्बन्धित तकनीकी स्पेशीफिकेशन उत्तर प्रदेश पुलिस की वेबसाइट <http://uppolice.gov.in> से डाउनलोड किया जा सकता है। निविदा शुल्क के रूप में ₹0 300.00 का बैंक ड्राफ्ट/बैंकर चेक/एफडीआर पुलिस अधीक्षक/सहायक निदेशक, उ०प्र० पुलिस 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- प्रत्येक टेण्डरकर्ता द्वारा टेण्डर की ईएमडी डीडी/एफडीआर के रूप में, जो पुलिस अधीक्षक/सहायक निदेशक, उ०प्र० पुलिस कम्प्यूटर केन्द्र, लखनऊ के नाम देय होगा, जमा की जायेगी, जो कि वारन्टी पीरियड के समापन के पश्चात लौटाया जायेगा।
- 5- सफल टेण्डरकर्ता द्वारा कयादेश का 10 प्रतिशत सिक्क्योरिटी मनी के रूप में जमा किया जायेगा।
- 6- तकनीकी मुख्यालय द्वारा जनहित में किसी भी समय बिना किसी पूर्व सूचना/कारण के टेण्डर को निरस्त किया जा सकता है।
- 7- 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।
- 8- समस्त टैक्स सहित न्यूनतम निविदा एल-1 पर विचार किया जायेगा।

टेण्डर संख्या	आइटम नाम	सं०	ई०एम०डी० (रु० में)	टेण्डर डाकुमेंट का मूल्य (रु० में)
1-टीएस-मोड-289/2016 (एफएसएल)	ऑटोमेटिक डिस्टिलेशन आपरेटस उपकरण	01	50,000/-	300/-
2-टीएस-मोड-290/2016 (एफएसएल)	डेन्स्टोमीटर विद एल्कोलिजर उपकरण	01	80,000/-	300/-
3-टीएस-मोड-291/2016 (एफएसएल)	HPLC उपकरण	01	50,000/-	300/-

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

25.05.2016 समय 11.00 बजे पूर्वान्ह  
25.05.2016 समय 02.00 बजे अपरान्ह  
25.05.2016 समय 04.00 बजे अपरान्ह  
26.05.2016 समय 11.30 बजे पूर्वान्ह  
26.05.2016 समय 11.30 बजे पूर्वान्ह  
27.05.2015 समय 02.00 बजे अपरान्ह

(संजय कुमार)

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

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U.P. POLICE TECHNICAL SERVICES, HEAD QUARTERS,  
IV<sup>th</sup> 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.

(Signature)  
23/4/16  
(SANJAY KUMAR)  
AD.DL. 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)

## Automatic Distillation Apparatus

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### Specification

1. The apparatus should confirm to test methods ASTM D86 (Group 1, 2, 3, 4).
2. Instrument should test sample from 20 °C to 450 °C temperature.
3. Instrument should have volume detection by LED based static light barrier system and Drop Count with volume accuracy of 0.1 ml.
4. Heating system should be by Infra-Red Lamp technology with minimum 5 yrs. Warranty.
5. Apparatus should have integrated CFC free cooling system via, coolant circulation
6. Inbuilt pressure sensor for automatic barometric pressure measurement and corrections.
7. System should have Automatic fire extinguishing system and can be connected to CO<sub>2</sub> or N<sub>2</sub> supply. The apparatus should have safety feature and automatic shut off for overheat protection, over pressure, overflow protection and low-level detection of cooling.
8. Device should have memory of at least 500 results or more and for 250 programs or more.
9. Data export through USB, LAN etc.
10. Device should be equipped with mechanical jack for precise and safe adjustment of flask.
11. Safety door with top metal grid cover should be provided for safe placement of flask.
12. System should automatically calculate Cetane index on insertion of density value.
13. The instrument should be microprocessor based standalone unit. Device should have embedded software with TFT color touch screen user inter phase to show the progress of test live and display results and graphs in detail. Software should have 50 free user licenses.
14. Instrument software should automatically recommend adequate heat parameters for the next test run, automatic heating optimization.
15. Receiver temperature should be established as per selected standard when the program is selected (Before the start of the run). Receiver chamber should be cooling by coolant circulation system ensuring maximum temperature uniformity and which can be also used as sample storage for sample temperature standardization.
16. Provision to edit the fix point table with unlimited points after the test run is completed.
17. Should feature a manual heating curve method to optimize the distillation performance of complicated mixtures when the same sample is tested again.
18. The apparatus should automatically set, monitor and control all distillation parameters including initial and final heating rates, distillation rate, condenser and receiver temperatures, receiver chamber conditions etc. on its own for any given unknown sample.
19. A Lab work station with suitable working chairs & cooling system ( air conditioning about 1.5 ton)
20. System should be complete at the time of installation.

### **21. Standard Supply**

- Distillation flask 125 ml
- Heater board, center hole Ø 38 mm (1½"), center hole Ø 50 mm (2")
- Measuring cylinder 100 ml with metal base, Metal base for measuring cylinder
- Sample temperature sensor Pt100, Holder for Pt100
- Stopper, made of Arlon, with 3 O-rings

- Drip plate
- Cleaning-spiral for condenser tube
- Grad. Cylinder, 5 ml, for meas. Recovery
- Glysantin G48, Antifreeze, 1.5 L
- Anti-Dazzle Screen for ADU 5
- Boiling stones, pack of 20g

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

### **TECHNICAL SPECIFICATION OF DIGITAL DENSITY METER**

- Designed for fast and reliable measurement of the relative density and concentration of Liquid, Beverages, Petroleum & Petrochemicals, Medical, Pharma, Cosmetic and much more type of samples.
- Instrument should have integrated reference oscillating system.
- It should have High precision and reproducibility combined with simple and error free operation
- It should have built-in facility for automatic detection of gas bubbles.
- Required to have highest precision and reproducibility.
- Measuring range should perform between 0 - 3 g/cm<sup>3</sup>.
- Repeatability of Density should be within 0.00002 g/cm<sup>3</sup>.
- It should have very precise resolution around 0.00001 g/cm<sup>3</sup>.
- Very Wetted parts should be made of Borosilicate glass & PTFE.
- Bubble detection should be possible through visual & electronic.
- Drying should be do by integrated diaphragm pump.
- It should built-in facility for automatic temperature compensation.
- It should be capable to measure very low sample volume  $\pm 2$  ml.
- It should able to perform the each measurement within < 30 second after reaching the set temperature.
- Temperature range should be between 5 Deg C to 95 Deg C.
- Temperature accuracy should be around 0.03 Deg C.
- Temperature resolution should be around 0.001 Deg C.
- Temperature reproducibility should be 0.01 Deg C.
- It should have Pressure range 0 to 10 Bar / 0 to 145 PSI.
- Instrument should have color TFT Touch screen display.
- Data storage memory should be 20 / > 1000 or it should have extendable memory up to 4 GB.
- It should have Serial and Ethernet interface facility.
- Ambient working condition should be within 10 to 35 Deg C.
- Condensing relative humidity should be not less than 85 %
- It should capable to work 110 to 260 V AC and 50/60 Hz VA maximum.
- Allowing measurements of various substances at same high precision.
- Instrument should be design for a broad spectrum of applications.
- It should comply with GLP / GMP and European, American standard with various ASTM, ISO.
- Software should have forgery proof data export facility with deferent security level.
- It should have Password protection with audit trial facility and security levels for minimum 3 users.
- Offered suitable workstation to operate the system through software.
- Offered Laser Jet Printer to take printout of analysis reports.
- Offered optional essential accessory if any.



# Specifications and Technical details

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## Specifications for Analytical HPLC System

### 1. Delivery System - Quaternary Low Pressure Gradient Pump with dual reciprocating pistons in series.

- Flow rate range : 0.001–10 mL/min
- Flow rate accuracy :  $\pm 0.1\%$
- Flow precision :  $< 0.05\%$  RSD
- Pressure range : 9000 psi
- Proportioning accuracy :  $\pm 0.5\%$  (of full scale)
- Proportioning precision :  $< 0.15\%$  SD
- Solvent degassing : Built-in, 4-channels

### 2. Variable Wavelength UV – VIS Detector

- **Data Collection Rate:** Up to 100 Hz
- **No. of Channel :** 1
- **Noise:**  $< \pm 3.5 \mu\text{AU}$
- **Drift :**  $< 1 \times 10^{-4} \text{ AU/h}$  at 254 nm and dry analytical flow cell.
- **Linearity :**  $< 5\%$  RSD at 2.5 AU at 272 nm based on ASTM
- **Light Source :** Deuterium lamp, tungsten lamp
- **Wavelength Range :** 190–900 nm
- **Wavelength Accuracy :**  $\pm 1 \text{ nm}$
- **Wavelength Repeatability :**  $\pm 0.1 \text{ nm}$
- **Optical Bandwidth :** 6 nm at 254 nm
- Lamp Warranty for 2000 Hrs.

### 3. Thermostated Column Compartment TCC-3000SD.

- Temperature Range :  $5^\circ\text{C}$  to  $80^\circ\text{C}$  (maximum  $18^\circ\text{C}$  below ambient)
- Temperature Accuracy :  $\pm 0.5^\circ\text{C}$
- Temperature Stability :  $\pm 0.1^\circ\text{C}$
- Temperature Precision:  $\pm 0.1^\circ\text{C}$
- Maximum column length: 30 cm
- Column Identification System for columns.

### 4. Chromatography software

- Chromatography data system for control, acquisition, processing, & reporting software.
- Chromatography Software package should be Oracle based.
- It should have flexible reporting as users desires for complete chromatography information Reporting.
- It should also record the instrument event such as injection, complete instrument settings, changes & conditions in real time.
- Software should have 3<sup>rd</sup> party interfacing facility.

• Audit Trail and Auto Peak Processing features.

• PDA Detector

• Specifications :

• Wavelength Range : 190-800 nm at 1nm increment

• Wavelength Accuracy :  $\pm 1$  nm at 254 nm and 640 nm

• Wavelength Calibration : Using Holmium oxide solution

• Wavelength Resolution : 1.2 nm (512 pixel array)

• Absorbance Non-Linearity : < 5% at 2.0 AU at 256 nm

• Absorbance Range : - 2.0 to + 4.0 AU, 20 - bit

• resolution

• Drift : < 1 mAU/hr after warm-up at 254 nm at a stable temperature ( $\pm 1^\circ\text{C}$ )

• Light Source : Pre-aligned Deuterium and Tungsten

• lamps

• Short-Term Noise : < 6  $\mu\text{AU}/\text{cm}$  at 254 nm, using a 50 mm LightPipe flow cell

• Warmup Time: 90min required to meet noise & drift

• specification

• Cell Dimensions : 10 mm, 2  $\mu\text{L}$  LightPipe flow cell; 50 mm, 10  $\mu\text{L}$  LightPipe flow cell

• Cell Pressure Range : 0 - 1000 psi, Diodes : 1024, Diode

5. Columns – C18, C8 along with guard Columns. Also column applicable for Carbohydrate and Fatty acids.

6. Branded PC and Printer for operating HPLC system.

7. Suitable UPS System for above system.