#### U. P. POLICE TECHNICAL SERVICES HEADQUARTERS

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

TENDER NO.:TS-MOD-04/2012(FSL)

DATED: Jan 28.

#### 2014

#### **NOTICE INVITING TENDER**

- 1- Sealed Tenders are invited from the Indian Manufacturers/registered firms/ Authorised agent of foreign manufacturer for purchase of the following equipment for the use of U.P.Police.
- 2- The tender form for item mentioned below along with Technical specification for each equipment may be purchased on payment at the cost given against tender in cash/ DD from the office of the undersigned on any working day between 10.00 AM to 5.00 PM. Those desirous of obtaining the tender document by Speed Post or Courier may send Demand Draft for tender document cost+ Rs. 100/- drawn in favour of S.P.A/D. Uttar Pradesh Police Computer Centre, payable at Lucknow.
- **3-** Tender documents can also be down loaded from U.P. Police website http://uppolice.gov.in In this case the tenderer will have to enclose the cost of tender documents in the form of Bank Draft drawn in favour of above with the technical offer. Separate Bank drafts in the respect of the cost of tender document and earnest money should be enclosed. Cost of tender document is not refundable, while earnest money is refundable.
- 4- Each Tenderer will have to deposit an Earnest Money (EMD) as mentioned against tender in the form of DD/ Banker's Cheque/FDR in favour of S.P.A/D. Uttar Pradesh Police Computer Centre, payable at Lucknow.
- 5- Successful tenderers will have to deposit a security money @ 10% of the order value, which will be returnable after expiry of warranty period.
- **6-** The Technical Head Quarters may cancel the tender at anytime without assigning any reason for the same in the public interest.

7- 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.

| Tender No.              | Item  | Qty | EMD        | Cost of tender      |
|-------------------------|---|-----|------------|---------------------|
|                         |   |     | (in Rs)    | Documents ( in Rs.) |
| TS-MOD-<br>04/2012(FSL) | (R.T.P.C.R. Equipment ) FOR UPGRADATION OF D.N.A. LAB | 01  | 1,20,000/- | 300/-               |

Start of Sale of Tender documents from Date of Pre Bid conference Last date of Sale of Tender Last date of Receive of tenders Date of opening of Technical offer

Date of opening of financial offer

30-01-2014 at 10-30 am 10-02-2014at 11-30 am 03-03-2014 up to 11-00 a.m. 03-03-2014 up to 4-00 p.m. 03-03-2014 at 4-30 p.m.

05-03--2014 at 11-30 a.m.

(BRAJESH SINGH)

ADDL. SUPDT. OF POLICE, TECHNICAL SERVICES, LUCKNOW(U.P.)

## अति आवश्यक / महत्वपूर्ण / फोन—0522—2286615 पुलिस \_ तकनीकी सेवायें मुख्यालय,

चतुर्थ तल, जवाहर भवन, अशोक मार्ग, लखनऊ

संख्या–टीएस–एमओडी–04–2011(एफएसएल)

उत्तर

दिनांक –जनवरी 28 2014

निविदा

1—उत्तर प्रदेश पुलिस हेतु निम्न उपकरणों की सील बन्द निविदा भारतीय मैन्युफैक्चरर/डीलर/रजिस्टर्ड फर्म /विदेशी मैन्यफैक्चरर के अधिकृत विकेता से आमत्रित की जाती है।

- 2— निम्नलिखित उपकरण हेतु टेण्डर फार्म कैश / डिमाण्ड ड्राफ्ट देकर कार्यालय दिवस में समय 1000 बजे से 1700 बजे के मध्य क्रय किये जा सकते हैं। टेण्डर फार्म को स्पीड पोस्ट / कोरियर से टेण्डर फार्म फीस + 100 रू० का डिमाण्ड ड्राफ्ट ,जो पुलिस अधीक्षक / सहायक निदेशक, उ०प्र0पुलिस कम्प्यूटर केन्द्र लखनऊ के नाम देय होगा, द्वारा भी प्राप्त किया जा सकता है।
- 3— टेण्डर फार्म उ०प्र० पुलिस की बेवसाइड http://uppolice.gov.in से डाउनलोड भी किया जा सकता है। टेण्डर फार्म डाउनलोड करके मय टेण्डर फीस के (बैंक द्वापट के रूप में) तकनीकी आफर में संलग्न कर प्रेषित किया जायेगा। टेण्डर डाकूमेंट की फीस तथा टेण्डर की ईएमडी अलग अलग प्रेषित की जायेगी। टेण्डर डाकूमेंट की फीस वापस नहीं की जायेगी जबिक ईएमडी तत्समय वापस कर दी जायेगी।
- 4— प्रत्येक टेण्डरकर्ता द्वारा अलग—अलग टेण्डर की ईएमडी डीडी / एफडीआर के रूप में, जो पुलिस अधीक्षक / सहायक निदेशक, उ०प्र०पुलिस कम्प्यूटर केन्द्र लखनऊ के नाम देय होगा, जमा की जायेगी,जो कि वारन्टी पीरियड के समापन के पश्चात लौटाया जायेगा।
- 5— सफल टेण्डरकर्ता द्वारा क्यादेश का 10 प्रतिशत सिक्योरिटी 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 बढायी जा सकती है तथा विभाग द्वारा बढायी गयी संख्या को फर्म को निर्धारित अवधि में आपूर्ति करना होगा।

| Tender No.       | Item                         | Qty | EMD        | Cost of tender |
|------------------|------------------------------|-----|------------|----------------|
|                  |                              |     | (in Rs)    | Documents      |
|                  |                              |     |            | (in Da)        |
|                  |                              |     |            | ( in Rs.)      |
| टीएस—मोड'4 / 12; | आर0टी0पी0सी0आर0उपकरण         | 01  | 1,20,000/- | 300/-          |
| (एफएसएल )        | (डीएनए लैब के उच्चीकरण हेतु) |     |            |                |

टेण्डर बिकी की तिथि — प्री बिड कान्फ्रेन्स की तिथि निविदा फार्म विकी की अंतिम तिथि— निविदा फार्म जमा करने की अन्तिम तिथि तकनीकी आफर खुलने की तिथि— वित्तीय आफर खुलने की तिथि— 30-01-2014 at 10-30 पूर्वान्ह. 10-02-2014 at 11-30 ,, ,, 03-03-2014 up to 11-00 ,, ,, 03-03-2014 up to 4-00 अपरान्ह. 03-03-2014 at 4-30 ,, ,, 05-03-2014 at 11-30 पूर्वान्ह

(ब्रजेश सिंह, अपर पुलिस अधीक्षक,तकनीकी सेवायें, उत्तर प्रदेश।

## 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- Checklist duly filled and signed with stamp must be submitted by the bidder.
- 3 After submission of tender any addition, alteration or change in any offer shall not be acceptable.
- 4 All the enclosures should be valid on the date of opening of the tender.
- 5- If any cutting/ corrections, it should be properly attested by the tenderer.
- 6- 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.
- 7 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.
- 8- 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.
- 9- Only the Manufacturing Firm or his Authorise Indian Agent will be allowed to quote the tender. Bidder / Authorized person who shall sign the offer and all the enclosures submitted by them should have signature with their designation, seal and date.
- 10- 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.
- The Bidder should 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.
- 12- On Site Comprehensive Warranty of the equipments will be Three YEARS on parts inclusive of labour charges from the date of successful installation. Warranty of kits consumables and glass wares will two year or as per their shelf life. Maintenance work of the supplied equipments shall be done by the supplier firm during warranty period on installation site and cost on that will be bear by the supplier only. In addition to the aforesaid warranty, the supplier will be required to provide additional annual maintainance warranty as per clause no.21 below for the 4th and 5th. year.
- 13 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.
- 14 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 . supply order may be cancelled and Security Money/Earnst money deposited by tenderer may be forfeited.

- 15 Attach list of organizations to which the equipments have already been supplied and performance reports obtained from them with the technical offer.
- 16- 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.
- 17- Technical details as per tender specifications or their compatibility with the tender specifications shall be clearly mentioned in the technical offer.
- 18- 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.
- 19- Firm quoting in foreign currency on behalf of foreign principal shall enclose(i) Documentary proof that their firm is registgered with competent authority,(ii) Photo copy of PAN /TAN no. (iii) Bank account no. Name of Bank and bracnch and (iv)authorization certificate offoreign principal.
- 20- 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.
- 21- 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 Three years on site comprehensive warranty, 2- Year wise charges for on site comprehensive annual maintenance contract from 4th year to 5th year.
- 22- 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.
- 23- 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.
- 24- THE TECHNICAL HEADQUARTERS RESERVES THE RIGHT TO ACCEPT OR REJECT ANY TENDER, EITHER IN PART OR FULL, WITHOUT ASSIGNING ANY REASON THERE OF.
- 25- 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.
- 26- The TECHNICAL HEADQUARTERS has right to accept any lower or higher rates of the tenders without assigning any reason.
- 27- The validity of the rates should be at least for six months from the date of opening of the tender.
- 28- 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.
- 29 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.
- 30 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.

- 31 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, octri etc. for supply of the goods to F.S.L. Lucknow/Agra/Varanasi.
- 32 Forensic Science Laboratory, U.P., has to pay concessional customs duty. Custom duty at concessional rate certificate will be provided by FSL.
- 33- If retes are quoted in foreign currency by some firms and in Indian rupees by others, the exchange rate of foreign currency as prevailing on the last date of receipt oftender form as mentioned in the tender advertisement would be considered for comparison purpose, bank charges, custom duty, landing expenditures and entry tax etc. shall also be added to the quoted rates for preparation of comparative chart of rates.
- 34- 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.)
- 35- Security Money will be in the form of **Fixed Deposit of Scheduled Bank** in the name of **Superindent of Police / Asstt. Director**, **Uttar Pradesh Police Computer Center, payable at Lucknow**, in the name of tenderer and pledged to **Superindent of Police / Asstt. Director**, **Uttar Pradesh Police Computer Center**, **Lucknow**, which will be returned after expiry of warranty period.
- 36- 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.
- 37- Bill to be submitted in triplicate by the firm in the name of 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.
- 38 Special Terms and conditions if any for any particular equipment has been mentioned below the specifications of the equipment in the tender form.
- 39 If any item is on D.G.S & D/D.I. rate contract enclose copy of rate contract along in the technical offer.
- 40 Tendering firms will also impart hands on training to five scientists for the supplied equipments wherever necessary free of cost.
- 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.

- 42 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.
- 43 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.
- 44 Supplier firm will provide driver software for new operating systems free of cost for **ten years**.
- 45- Tenders received after the due date and time or incomplete tenders will not be accepted. This office will not be responsible for postal delay.
- 46 Conditional tenders will not be accepted.
- 47- 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.
- 48 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.

(BRAJESH SINGH)
ADDL. SUPDT. OF POLICE, TECHNICAL SERVICES,
U.P. Police Technical Services, Lucknow

#### **DECLARATION**

| I, (name of authorized representative)              |                     |                 |                       | Son of         |
|---|---------------------|-----------------|-----------------------|----------------|
| of M/S (N   | Name of firm)       |                 |                       |                |
| have read all the rules of                          | of tender (1 to 47) | given above.    | These are acceptab    | le to our firm |
| Earnest Money in the form of Fixed Deposit of sched | duled bank Rs       |                 | (in words)            |                |
| in favors of '                                      | "Superintendent o   | f Police / Asst | t. Director, Uttar Pr | adesh Police   |
| Computer Centre, payable at Lucknow is enclose      | ed herewith.        |                 |                       |                |
| PLACE:  |                     |                 |                       |                |
| DATE  |                     | (S              | ignature and seal)    |                |

## Real Time PCR

| (Rajiv Paliwal) (Suresh Chandra) (Dr. Archana Tripathi) 6/1/1/19 S.O. Sero. | discrimination Multiple Data Comparison.  Built in software features for sample quality assessment (inhibition, male/female ratio and degradation index), capability of calculating dilution and reaction setup for HID kits.  System should be complete with all accessories to run the system properly at the time of installation | printer.(Internal RAM 256 MB).  8. Should have kits and plastic wares, consumables for quantitation of human DNA (400 reactions) and male DNA samples (400 reactions)  Software Specifications  9. The instrument should be supplied with licensed software that design probes and primers. | use, failing which offer will be rejected.  6. A compatible 2KVA online UPS with 2 hours backup should be provided.  7. Should have a dedicated compatible desktop computer configuration window 7, I 3 processor, Office-10, 4GB RAM, 1TB Hard disk, IGB Graphic card, TFT/ LED Monitor- 22 inches and Antivirus with standard brand color jet laser | 2. The instrument should have five-color detection capability to provide flexibility to perform a variety of applications 2. The instrument should have five-color detection capability to provide flexibility to perform a variety of applications 2. The instrument should have advanced optical configuration that support broad range of fluorophore dyes.  3. The instrument should have advanced optical configuration that support broad range of fluorophore dyes.  4. Sample Format 96-well plates or 0.2 ml tubes and optimized for 15 to 100 μL  5. The system should be validated for latest forensic applications like human / male DNA quantitation kits with published 5. and validated data. Certification by competent authority/ organization under Government of India viz Director. Center of and validated data. Certification by competent authority/ organization under Government of India viz Director. Center of DNA Fingerprinting & Diagnostics (CDFD) Hyderabad, Center for Cellular And Molecular Biology (CCMB), DNA Fingerprinting & Diagnostics (CDFD) Hyderabad, Center for Cellular And Molecular Biology (CCMB). |          | Technical Specifications |
|---|--|---|---|--|----------|--------------------------|
| 11/14   |  | 400 reactions human DNA quantitation kit and plastic wares, 400 reactions male DNA quantitation kit and plastic wares.  | Qty. One<br>Qty. One  |  | Qty. One | Quantity                 |

(Lane Vane)Tech. Chart

(Rajiv Paliwal) S.O. Sero.

# Real Time PCR

|  | <del></del>   |   |  |   |                          |
|--|---|---|--|---|--------------------------|
|  | \$0<br>9.<br>10.<br>11.   | 8 7.6   | 5, 4 3   | 2.  |                          |
| (Rajiv Paliwal)<br>S.O. Sero.              | l hade  | validated for forensic use, failing which offer will be rejected.  A compatible 2KVA online UPS with 2 hours backup should be provided Should have a dedicated compatible desktop computer configuration w 10, 4GB RAM, 1TB Hard disk, 1GB Graphic card, TFT/ LED Monitor- 2 standard brand color jet laser printer. (Internal RAM 256 MB).  Should have kits and plastic wares, consumables for quantitation of huma DNA samples (400 reactions)   | The instrument should have advanced optical configuration that support broad range of fluorophore dyes.  Sample Format 96-well plates or 0.2 ml tubes and optimized for 15 to 100 µL.  Sample Format 96-well plates or 0.2 ml tubes and optimized for 15 to 100 µL.  The system should be validated for latest forensic applications like human / male DNA quantitation kits with published and validated data. Certification by competent authority/ organization under Government of India viz Director, Center of DNA Fingerprinting & Diagnostics (CDFD) Hyderabad, Center for Cellular And Molecular Biology (CCMB), Liderabad Center for Science 1 by CFCR 1 & CFCR 1 that Fundament | Latest generation 96- well block Thermal Cycling System for forensic applications. The instrument should have five-color detection capability to provide flexibility to applications including real time quantitation, SNP genotyping, gene expression an internal positive controls.   | Technical Specifications |
| (Subsection (Tr)))                         | The instrument should be supplied with licensed software that design probes and primeres. Applications comparative Ct., Standard Curve, Relative Standard Curve, Allelic Discrimination, Plus/ Minus Dye discrimination Multiple Data Comparison.  Built in software features for sample quality assessment (inhibition, male/female ratio and degradation index), capability of calculating dilution and reaction setup for HID kits.  System should be complete with all accessories to run the system properly at the time of installation | validated for forensic use, failing which offer will be rejected.  A compatible 2KVA online UPS with 2 hours backup should be provided.  Should have a dedicated compatible desktop computer configuration—window 7, 1 3 processor, Office-10, 4GB RAM, 1TB Hard disk, 1GB Graphic card, TFT/ LED Monitor- 22 inches and Antivirus with standard brand color jet laser printer (Internal RAM 256 MB).  Should have kits and plastic wares, consumables for quantitation of human DNA (400 reactions) and male DNA samples (400 reactions) | The instrument should have advanced optical configuration that support broad range of fluorophore dyes.  Sample Format 96-well plates or 0.2 ml tubes and optimized for 15 to 100 µL.  Sample Format 96-well plates or 0.2 ml tubes and optimized for 15 to 100 µL.  The system should be validated for latest forensic applications like human / male DNA quantitation kits with published and validated data. Certification by competent authority/ organization under Government of India viz Director. Center of DNA Fingerprinting & Diagnostics (CDFD) Hyderabad, Center for Cellular And Molecular Biology (CCMB).  | Latest generation 96- well block Thermal Cycling System for forensic applications.  The instrument should have five-color detection capability to provide flexibility to perform a variety of applications including real time quantitation, SNP genotyping, gene expression analysis and utilizing internal positive controls.                             | ions                     |
| (Dr. Archana Thpathi)  6     Up. D.D.Sero. | 9. Mandatory for legal reasons. 10. Different analysis modules in the software related to quantitation of DNA for analysis with precision and accuracy. 11. Sample quality assessment is a prerequisite for reaction-set up and also to evaluate factors affecting quantitation. 12. For satisfactory installation and working of the instrument for case work.   | <ul><li>6 Run time for 40 cycles for DNA quantitation is about 2 hours.</li><li>7. Technical requirement</li><li>8. Technical requirement</li></ul>   | 3. Allows greater sensitivity for greatest range of dyes; used for application at point no. (2). 4 Minimum volume required is 15 to 25µL. 5. Forensic samples often have a mixture of human male and female DNA specially in sexual assault cases. Validation is required for reproducibility, robustness and reliability of the result; also recommended in BPR & 1) manual.  | 1. 96 well plate preferred by all manufacturers is suitable for high throughput and one block can be used for greater no. of cases. 2. Easily calibrated for the range of dyes without requiring the addition of new filter sets, required fluorescence range for emission/ excitation ranges between 450nm to 750 nm; SNP genotyping to be done in future. | Justification            |

(Lane Vane)Tech. Chart

### **Checklist for bidders**

Bidders to indicate whether the following are enclosed by mentioning the relevant option RT-PCR

| S.No | Particulers   | Documents | Page                                     |
|------|---|-----------|--|
|      | •   | Attached  | N0                                       |
| 1    | Two separate bids filled in and signed in sealed envelopes (delails for | (Yes/No)  |  |
|      | instrument & Kits/Consumables mentioned separetely) (1) Technical       |           |  |
|      | (2) Commercial  |           | l  |
| 2    | The Demand Draft/BG for Rs. 1,20,000/- towards Earnest Money            | (Yes/No)  |  |
|      | Deposit   |           |  |
| 3    | Undertaking that the successful bidder agrees to give a 10% security    | (Yes/No)  |  |
|      | deposit   |           |  |
| 4    | Authorization letter from principals enclosed                           | (Yes/No)  |  |
| 5    | Self Attested copy of Sales Tax Registration certificated (CST/VAT etc) | (Yes/No)  |  |
|      | as applicable   |           |  |
| 6    | Purchase orders from the clients for whom similar supply has been       | (Yes/No)  |  |
|      | made by the bidder in last three years                                  |           | 4 10 10 10 10 10 10 10 10 10 10 10 10 10 |
| 7    | Solvency certificate (not older than twelve months) issued by           | (Yes/No)  |  |
|      | scheduled/ nationalized bank with which bidders holds the current       |           |  |
|      | accout  | *         |  |
| 8    | Copy of PAN No. allotted by concerned authorities                       | (Yes/No)  |  |
| 9    | Validation certificate by Compelent authority/ organization under Govt. | (Yes/No)  |  |
|      | of India Viz Director CDFD, CCMB Hyderabad, CFSLs, SFSLs)               |           |  |
| 10   | Copy of DGS&D Registration if any                                       | (Yes/No)  |  |
| 11   | Compliance sheet with any deviation w.r.t. the terms                    | (Yes/No)  |  |
| 12   | Validity of rate of Kits & Consumable will be of two years during       | (Yes/No)  |  |
| **   | warranty period   |           |  |
| 13   | Acceptance of onsite comprehensive warranty on parts & labour three     | (Yes/No)  |  |
|      | years with free replacements/spares during warranty period along with   |           |  |
| I    | continued AMC for two years (in breakup)                                |           |  |
| 14   | Hands on training for five scientists                                   | (Yes/No)  |  |
| 15   | Validity of rate for one year from date of opening of tender            | (Yes/No)  |  |