

**STATE FORENSIC SCIENCE LABORATORY**  
**5 CIVIL LINES, SAGAR (M.P.) 470 001**  
{Ph No.- 07582-267707 Fax No.- 07582-267791 e-mail : dir\_fsl@mppolice.gov.in}

No./FSL/Tender/DNA/2/SB 2018-19 Date 10 / 01 /2019

**e TENDER NOTICE**

FSL Sagar invites online e\_tenders from the Original Kit/Chemical manufacturers/Authorized dealers of Original Kit/Chemical manufacturers for following items.

**List of Items**

S. No.	DNA Kits/Consumables	QTY	Earnest Money Rs.	Cost of Tender Document
1	Genotyping Kit for Autosomal STR Markers	3000 Reactions	60000	5000
2	Genotyping Kit for Y chromosome Markers	2000 Reactions	40000	5000
3	Genotyping Kit for X chromosome Markers	200 Reactions	4000	2000
4	Genotyping Kit for complex paternity cases	100 Reactions	4000	2000
5	POP 4 (Performance optimized Polymer)	384 Reactions x 20	10400	5000
6	Centrifugal Filter Device 0.5ml (30k)	1000 Nos.	7000	2000
7	Centrifugal Filter Device 4.0ml (30k)	500 Nos.	7000	2000
8	Protienase K	6 grm	6000	2000
9	DNA Quantification kit	1200 Reactions	4800	2000
10	Genetic Analyzer Anode buffer	12 Packets	1600	2000
11	Genetic Analyzer Cathode buffer	12 Packets	1600	2000
12	Genetic Analyzer Conditioning reagent	12 Nos.	1600	2000
13	Capillary Array	2 Nos.	10000	2000
14	Hi Di Formamide	25 ml x 24 Nos.	2000	2000
15	DNA EXTRACTION KIT	3500 Sample	40000	5000

1. Tender documents can be purchased only online from <https://mptenders.gov.in> by making payment as cited above Tender forms, specifications of items& terms and conditions are available on the website [www.mppolice.gov.in](http://www.mppolice.gov.in) & <https://mptenders.gov.in> Tender documents of specified item can be down-loaded.
2. Intending bidders shall enroll online in the website <https://mptenders.gov.in>
3. The Tendering Process involves 2-stage scrutiny (for details see Terms & Conditions)
4. The Bid Data should be filled and the documents which are to be uploaded by the Bidders submitted online up to as per time schedule (key Dates).
  - (a) Publish Date : 10-Jan-2019 at 11.00 AM
  - (b) Document Download / Sale Start Date : 10-Jan-2019 at 11.00 AM
  - (c) Document Download / Sale End Date : 31-Jan-2019 at 05.30 AM
  - (d) Prebid Meeting Date: 18-Jan-2019 at 11.00 AM (At FSL Sagar)
  - (e) Bid Submission Start Date: 10-Jan-2019 at 11.00 AM
  - (f) Bid Submission End Date: 02-Feb-2019 at 05.30 PM  
(Place of Submission: Bids will be accepted through e-procurement site only)
  - (g) Hard copy of EMD Submission End Date: 04-Feb-2019 at 05.30 PM
  - (h) Bid Opening Date : 06-Feb-2019 at 11.00 AM.
  - (i) Financial Bid Open Date: 11-Feb-2019 at 12.10 PM.
  - (j) The Price Bids of bidders, who qualify at Technical Bid Stage, will be opened thereafter.
  - (k) Validity of Tender: The tenders shall remain valid up to 1 year from the date of tender issue.

5. The hard copy of EMD, received later than the prescribed date and time, will not be considered. No tender will be entertained after the due date and time of receiving EMD.
6. Tenderer will have to submit a bank draft/FDR/Bank Guarantee (validity 15 months) of earnest money in favour of Director, Forensic Science Lab Sagar M.P. in a sealed envelope duly address to The Director, Forensic Science Lab, 5-Civil Line Sagar M.P. 470001 as shown against the tendered items. This will be returnable after the finalization of the tender.
7. The Director General of Police reserves the right to postpone, accept or reject the tenders in full or in part of this notice without assigning any reason.
8. All charges & price of Kit/Chemical must be quoted in INR. All prerequisites must be mentioned & quoted separately. Amount of applicable taxes including GST should be clearly mentioned & quote separately.
9. Terms & Condition regarding Guarantee (free replacement of faulty Kit/Chemical) should be specified.
10. In case of imported Kit/Chemical Custom Duty, Custom Clearance, Airway House charges, Transportation charges of Kit/Chemical up to F.S.L., Sagar etc. shall be borne by the supplier.
11. All the required documents has to be scanned and uploaded on the e portal.
12. Each page of the Tender should be numbered and signed by the Tenderer with the seal of the firm while uploading the documents.

Note:- If tender forms are not properly filled and Tenderers are not fulfilling the terms and conditions of the tender, the tenders are liable to be rejected.

Director,  
Forensic Science Laboratory  
Sagar (M.P.)

**OFFICE OF THE DIRECTOR FORENSIC SCIENCE LABORATORY SAGAR**

**TENDER FORM**

**(TO BE FILLED UP BY THE TENDERER)**

(No./FSL/Tender/DNA/2/SB 2018-19 Date 10 /01/2019)

1. NAME & FULL ADDRESS OF THE FIRM .....
2. ADDRESS OF THE REGISTERED OFFICE.....  
OF THE FIRM
3. INCOME TAX PAN No. ....
4. a. GST REGISTRATION No. ....
- b. TAX CLEARANCE CERTIFICATE OF CURRENT YEAR .....  
(Attach Certificate)
5. WHETHER PVT. FIRM/LIMITED .....  
COMPANY/PRIVATE LTD. / PARTNER SHIP
6. IF SINGLE PROPRIETOR, NAME & .....  
ADDRESS OF THE PROPRIETOR
7. IF PARTNERSHIP FIRM, NAME & .....  
ADDRESSES OF THE PARTNERS
8. WHETHER YOU HAVE ANY SHOP OR .....  
ESTABLISHMENT IN M.P. IF SO DETAIL  
ADDRESS OF THE SAME
9. NAME & ADDRESS OF THE PERSON .....  
WHO WILL REPRESENT THE FIRM WHILE  
DEALING WITH THE FORENSIC SCIENCE  
LABORATORY, SAGAR

SIGNATURE OF THE TENDERER  
WITH SEAL

CHECK LIST OF DOCUMENTS ENCLOSED

S. No.	Certificate	Yes/No
1.	Mandatory bid Should contain following	
	Detail of Tender money	
	GST clearance certificate	
	Proof of SSI (If applicable)	
	Firm Registration Certificate	
	E.M.D.:-Bank Drafts /FDR/Bank Guarantee (validity 15th month) in favour of Director, Forensic Science Laboratory, Civil line, Sagar M.P.	
	Financial status of the firm.	
	Users list (Last five years)	
2.	Technical bid Should contain following	
	Technical details of quoted item	
	(Brochure /Technical details of the items tendered )	
3.	Financial bid Should contain following	
	Financial aspect of the bid, tax applicable should be shown separately.	

**OFFICE OF THE DIRECTOR FORENSIC SCIENCE LABORATORY SAGAR**  
(No./FSL/Tender/DNA/2/SB 2018-19 Date 10 /01 /2019)

**TENDER FORM "A"**  
**TECHNICAL BID**

No./

Dt.

- (i) Subject: Tender for item against Tender No. ....  
For item/items .....  
.....
- (ii) Name and full address of the firm submitting the tender. ....
- (iii) Address to: The Director Forensic Science Laboratory, Sagar, M.P.
- (iv) Reference: No./FSL/Tender/DNA/SB 2018-19 Date 10 /01 /2019
- (v) Tender fee has been deposited online challan/receipt no..... Date.....  
Bank.....
- (vi) We agree to abide by all the terms & conditions mentioned in attached sheets (Page 1 to 3 GENERAL TERMS AND CONDITIONS OF TENDER AND CONTRACT) with tender notice No./FSL/Tender/DNA/2/SB2018-19 Date 10 /01 /2019
- (vii) Tender form and all the attached sheets of terms & conditions have been signed in the prescribed margin by us, in token of our acceptance of the terms and conditions there in.
- (viii) Our specifications for the supply of .....are as under:  
(Mention name of Item)

(Mention specifications in the above space and also quote item on letterhead of firm along-with detail specifications and attach pamphlet and literature of quoted item.)

- (ix) We further agree to deliver mentioned stores within a period of ..... days from the date of the receipt of supply order.
- (x) Details of earnest money Bank Drafts /FDR/Bank Guarantee (validity 15th month) No. ....  
Date..... Rs.....(in words) .....Bank ..... in favour of  
the Director F.S.L. Sagar, against earnest money as mentioned in the advertisement, is enclosed herewith.

SEAL AND SIGNATURE OF PROPRIETOR/MANAGER/  
REPRESENTATIVE OF THE FIRM ON BEHALF OF THE  
FIRM GIVING TENDER

Note: Please ensure  
The name of Tendering firm is written on the overleaf of Bank Draft of EMD.

**OFFICE OF THE DIRECTOR FORENSIC SCIENCE LABORATORY, SAGAR**  
(No./FSL/Tender/DNA/SB 2018-19 Date 10 /01 /2019)  
**TENDER FORM "B"**  
**FINANCIAL BID**

No./

Dt.

- (i) Subject: Tender for item .....  
.....
- (ii) Name and full address .....  
.....  
of the firm submitting the tender.
- (iii) Address to: The Director Forensic Science Laboratory, Sagar, M.P.
- (iv) Reference: tender Notice No./FSL/Tender/DNA/SB 2018-19 Date 10 /01 /2019
- (v) Tender fee has been deposited online challan/receipt no..... Date.....  
Bank.....
- (vi) We agree to abide by all the terms & conditions mentioned in attached sheets (Page 1 to 36 GENERAL TERMS AND CONDITIONS OF TENDER AND CONTRACT) with tender notice No./FSL/Tender/DNA/2/SB2018-19 Date 10 /01 /2019
- (vii) Tender form and all the attached sheets of terms & conditions have been signed in the prescribed margin by us, in token of our acceptance of the terms and conditions there in.
- (viii) Our rates for the supply of .....are as under:  
(Mention name of equipments)

(Mention rates in the above space and also quote item on letterhead of firm along-with detail specifications and attach pamphlet and literature of quoted item).

- (ix) We further agree to deliver mentioned stores within a period of ..... days from the date of the receipt of supply order.
- (x) We confirm the rates quoted above are valid up to.....
- (xi) Details of Bank Drafts /FDR/Bank Guarantee (validity 15th month) No. ....Date.....  
Rs.....(in words..... Bank ..... in favour of the Director  
F.S.L. Sagar, against earnest money as mentioned in the advertisement.

SEAL AND SIGNATURE OF PROPRIETOR/MANAGER/  
REPRESENTATIVE OF THE FIRM ON BEHALF OF THE  
FIRM GIVING TENDER

Note: Please ensure

- The cost of items and taxes should be shown separately.

## **GENERAL TERMS AND CONDITIONS OF TENDER**

(No./FSL/Tender/DNA/2/SB 2018-19 Date 10 /01 /2019)

1. The Mandatory bid should contain Detail of Tender Money, Earnest Money, Current Clearance GST certificates, letter of authorization from Original Kit/Chemical manufacturer, list of users, financial status of the vender.

Technical bid should contain duly filled tender documents, Technical specifications of item, pamphlet/catalogue, signed copies of general terms & conditions of the tender.

Financial bid should contain price of Kit/Chemical etc. along with relevant details pertaining to the financial aspect of the bid. The price of quoted item & applicable taxes ( GST etc.) must be quoted in INR Separately.

2. The rate/unit, under any circumstances shall not be altered and shall be entered in words as well as in figures. If there is any overwriting or cancellation on the tender, it shall be supported by a full signature and seal of the tenderer.

3. The tenders shall remain valid up to 1 year from the date of tender issue. Conditional tender will not be entertained. No tender will be entertained after the due date and time.

4. Director General of Police, reserves the right to increase, decrease the number of tendered items & postpone, accept or reject the tenders in full or in part of this notice without assigning any reason.

5. Tenders should be submitted by those firms/dealers who are either Original Kit/Chemical manufacturers or suppliers/contractors for those articles/goods/items etc. authorized by the Original Kit/Chemical manufacturers. Tenderer should attach authorization letter of dealership mentioning name of articles/goods/Kit/Chemical in original from the OM.

6. The approved supplier/contractor shall be deemed to have carefully examined the condition/specification of the goods to be supplied. If he has any doubt about any portion of these conditions should clarify from Director, F.S.L., Sagar, M.P. before submitting his tender.

7. The tenderer shall be fully responsible to supply item/items to Lab & its related job mentioned in your bid/work order.

8. All the goods/materials supplied shall be new and of best quality as per technical specification. The decision of the committee authorized by the DGP, shall be binding upon the tenderer and if in case, any of the articles supplied are not approved, these shall be liable to be rejected or replaced and any expenses or loss caused to suppliers as a result of rejection or replacement of supplies shall be entirely at the account of the tenderer. Any loss caused to the department or any expenses incurred in this regard shall be recoverable from the tenderer.

9. In case goods other than those of the approved specification are supplied, they shall be rejected and will have to be replaced within the period prescribed for the completion of the order by the supplier without extra cost.

10. The rejected articles must be removed by the tenderer from the Central Stores, F.S.L., Sagar/Bhopal/Indore/Gwalior/Jabalpur within 15 days of the date of information or rejection. The In-charge Stores will not be responsible for any loss, damage shortage that may occur to them while they are in the premises of Central Stores, F.S.L., Sagar/Bhopal/Indore/Gwalior/Jabalpur.

11. The tenderer shall be responsible for the proper packing of the goods so as to avoid damages under normal conditions of transport by sea, rail, road or air and for delivery of the material in good conditions to the consignee at destination. In the event of any loss, damage, breakage, leakage or any shortage, found at the time of checking/inspection of the materials by the consignee or his duly authorized representative, tenderer shall be liable to make good of such loss. No extra cost on such account shall be admissible to him.

12. All rates quoted in the tender must be F.O.R. destination based. All charges & price of item must be quoted in INR All prerequisites must be mentioned & quoted separately. The delivery of goods shall have to be given during working hours at the premises of the Central Stores as directed.

13. The tenderer whose tender accepted shall arrange supplies within stipulated period as mentioned in work supply order, at the place of destination. The date of placing the order shall be the date of dispatch of order .

14. If the supplier fails to supply the ordered item/items in the stipulated time and also do not make request for the extension of the delivery period then the order shall be cancelled and the security money shall be forfeited and the name of the firm shall be recommended to be put in black list for a certain period not to receive any order from MP Police.

SEAL AND SIGNATURE OF TENDERER

15. After expiry of delivery period as mentioned in clause 13 above, if requested by tenderer the delivery period can be extended after examining the merits of the case and a penalty on extension @ 0.25% per week shall be imposed. If the supplies are not completed in the extended period than the remaining order shall be cancelled and the security money deposited shall be forfeited and the firm concerned shall be put in the black list for certain period not to receive orders from MP Police. The delivery period can be extended only once for the maximum of 60 days.

16. The payment shall be made on receipt of the complete item/items ordered.

17. Clearance of the goods through customs shall be arranged by the supplier. This institute is registered with the Department of Scientific and Industrial Research (DSIR) for the purpose of availing Customs Duty exemption. The institution shall provide the certificate for the purpose of Customs Clearance.

18. The contract of supply can be repudiated at any time if the supplies are not made to the satisfaction of the Director General of Police, M.P.

19. The tenderer shall sign and seal all the copies of tender form and of the general terms and conditions at the bottom of each page, in token of the acceptance of all the terms and conditions of the tender.

20. The tender shall be accompanied by a Bank Drafts /FDR/Bank Gurantee (validity 15th month) of earnest money amount as specified in the tender notice, in favour of the Director, Forensic Science Laboratory, Sagar. No interest shall be paid by the department on such amount. The earnest money shall remain deposited in the office of the Director FSL, Sagar till the final decision on the tenders. After the final decision of the tenders the earnest money of unsuccessful tenderers shall be refunded. Firms registered in Madhya Pradesh, under micro or under small scale industries are (as per M.P. purchase rule) exempted from payment of earnest money (Registration certificate must be attached along with mandatory bid).

21. If the tenderer is unable to complete the supply or fails to comply with the terms and conditions of the tender within the specified or extended period, the Director General of Police MP shall be at liberty to arrange supply either through condition given in point 24 or otherwise through retender. On behalf of DGP M.P. the Director FSL Sagar shall give 7 days notice in writing to the approved supplier to complete the supplies or make good the failure, neglect or contravention of compliance of which the date of service thereof, and if the Director thinks fit, he may direct the supplier to make good the loss sustained or any expenditure incurred by the Government in arranging the supplies through any other agency. He may also use the earnest money deposit of the supplier to make good such a loss.

22. (1) Very small and small scale industries registered with the directorate of industries are exempted for tender document cost.  
(2) Very small and small scale industries registered with the directorate of industries are exempted from payment of a earnest money.

23. If the tenderer is unable to complete the supply or fails to comply with the terms & conditions of tender, the remaining supply or work will be distributed by Director General of Police M.P. in judicious manner to the other tenderer/ tenderers, Excess of amount payable to the other tenderers will be recovered from the earnest money/security deposit of the lowest tenderer.

24. The goods shall be delivered at the destination in perfect condition. The supplier, if so desire, may insure the valuable goods against loss by theft, destruction or damage by fire, flood, under exposure to weather or otherwise viz., to be borne by the supplier and the State shall not be required to pay such charges, if incurred.

25. No advance payment shall be made, except in very rare and special cases for which valid reasons shall have to be recorded. Payments shall be due and payable by the Director General of Police MP, on behalf of the Governor, only when the supplied quantity has been delivered, inspected and accepted by the stores Inspection Committee/Persons appointed by Director General of Police, M.P. and a certificate of having done so is recorded by the them.

26. Subject to the fulfillment of terms & Conditions of tender the successful tenderers shall have to deposit 10% of the cost of the item/items as security amount in the form of fixed deposit/FDR/Bank Guarantee valid up to two month after the Warranty period is over, in favour of the Director, Forensic Science Laboratory, Sagar. This amount shall be retained for the above mentioned period after received of the item, in the premises as directed. After the receipt of security amount the earnest money of the successful tenderers shall be returned.
27. Upon breach of any of the General terms and conditions of contract and breach of trust of the agreement by the supplier it shall be lawful for purchaser to forfeit the earnest Money/Security Deposit in whole or part or impose such penalty as he may deem fit and recover the same from the Security Deposit or from any other payment to be made to the supplier or in any other manner as the purchaser may deem fit.
28. Direct or indirect canvassing on the part to tenderers or their representatives shall disqualify their tenders.
29. Tenderer shall have to submit a current GST Clearance Certificate from the concerned assessing authority, along with the tender, without which the tender shall not be considered.
30. All legal proceedings, if any necessity arises, to be instituted by any of the parties (Govt or supplier) shall have to be governed by Indian laws & under the jurisdiction of Sagar Court.
31. No other terms and conditions except those mentioned above will be entertained in the tender.
32. All the required documents has to be scanned and uploaded on the e portal.
33. Onsite Installation of kit & training must be free of cost.
34. Terms & Condition regarding Guarantee (free replacement of faulty spares and free services, as & when required) & Warranty (maintance of instrument free of cost visit as & when required) mentioned in the specification must be strictly followed.

SEAL AND SIGNATURE OF PROPRIETOR/MANAGER/  
REPRESENTATIVE OF THE FIRM ON BEHALF OF THE  
FIRM GIVING TENDER



**STATE FORENSIC SCIENCE LABORATORY, 5 -CIVIL LINES SAGAR (M.P.) 470 001**

No./FSL/Tender/DNA/SB 2018-19

(DNA Kits/Consumables)

**TECHNICAL SPECIFICATION**

**1. Genotyping Kit for Autosomal STR Markers (Qty- 3000 Reactions)**

- Kit should have the minimum 20 CODIS Autosomal STR markers and amelogenin with published validation on the kit in PUBMED JOURNAL.
- Kit should work on 6 dye chemistry and have built-in features such as resistance to PCR inhibitors.
- Kit should have one or more Y STR/INDEL marker
- Kit should work on ABI 3500XL Genetic analyzer.
- Kit sensitivity- equal to or less than 500 picogram
- Kit should be supplied with appropriate quantity of Control DNA, Size standard, Allelic ladder and PCR grade water (cost of Control DNA, Size standard, PCR grade water and Allelic ladder should be included in the kit)
- Kit should be supplied in small aliquots of 100 or 200 reactions
- Suitable Matrix standards one pack should be supplied with this supply order

**2. Genotyping Kit for Y chromosome Markers (Qty- 2000 Reactions)**

- Kit should have the minimum 20 Y-STR markers with published validation on the kit in PUBMED JOURNAL.
- Kit should work on 5/6 dye chemistry and have built-in features such as resistance to PCR inhibitors.
- Kit should work on ABI 3500XL Genetic analyzer.
- Kit sensitivity- equal to or less than 200 picograms
- Kit should be supplied with appropriate quantity of Control DNA, size standard, allelic ladder and PCR grade water (cost of Control DNA, size standard, PCR grade water and allelic ladder should be included in the kit)
- Suitable Matrix standards should be supplied with this supply order.
- Y-STR kit for specific and sensitive detection of male DNA in the presence of high amounts of female DNA
- Kit should be supplied in small aliquots of 100 or 200 reactions

**3. Genotyping Kit for X chromosome Markers (Qty- 200 Reactions)**

- Kit should have the minimum 12 or more X-STR markers
- Kit should work on ABI 3500XL Genetic analyzer.
- Kit sensitivity- equal to or less than 1 ng
- Kit should be supplied with appropriate quantity of Control DNA, size standard, allelic ladder and PCR grade water (cost of Control DNA, size standard, PCR grade water and allelic ladder should be included in the kit)
- Suitable Matrix standards should be supplied with this supply order.
- Kit should be supplied in small aliquots of 100 or 200 reactions

#### **4. Genotyping Kit for complex paternity cases (Qty- 100 Reactions)**

- Kit should have the minimum 20 or more autosomal STR markers
- Kit should have atleast more than 10 non CODIS markers
- Kit should work on ABI 3500XL Genetic analyzer.
- Kit sensitivity- equal to or less than 2 ng
- Kit should be supplied with appropriate quantity of Control DNA, size standard, allelic ladder and PCR grade water (cost of Control DNA, size standard, PCR grade water and allelic ladder should be included in the kit)
- Suitable Matrix standards should be supplied with this supply order.
- Kit should be supplied in small aliquots of 100 or 200 reactions

#### **5. POP 4 ( Performance optimized Polymer) (Qty- 384 Reactions x 20 Nos.)**

- POP should be used as a replaceable sieving medium that separates the DNA fragments by size during electrophoresis.
- It should be used in fragment Analysis.
- Optimized / Compatible for genetic analyzer 3500 xL
- Validated for HID application.

#### **6. Centrifugal Filter Device 0.5ml (30k) (Qty- 1000 Nos.)**

- Membrane should be vertical shaped.
- High sample recovery (>90%)
- Maximum initial sample volume 0.5ml
- Maximum relative centrifugal force (with fixed angle rotor) 14000xg

#### **7. Centrifugal Filter Device 4.0ml (30k) (Qty- 500 Nos.)**

- Membrane should be vertical shaped.
- High sample recovery (>90%)
- Maximum initial sample volume 4.0ml
- Maximum relative centrifugal force (with fixed angle rotor) 7500xg

#### **8. Protienase K (Qty- 6 gm)**

- Enzyme should be recombinant PCR/MB Grade
- Highly purified and should be DNAase and RNAase free
- Maximum activity up to 60<sup>0</sup>C
- Contamination free.
- Packs Size not more than 1gm.

#### **9. DNA Quantification kit (Qty- 1200 Reactions)**

- The kits should be able to provide human and male DNA quantities, check for inhibition and degradation in a single 4- plex reaction.
- Kit should be Compatible with ABI 7500/Quant studio V-5.
- Kit should be supplied in small aliquots of 200/ 400 reactions
- Supplier must supplied 1 system calibration kit and perform instrument performance verification and calibration of 7500/Quant Studio V-5 RTPCR to ensure optimal performance with the supplied kit.

**10. Genetic Analyzer Anode buffer (Qty- 12 Packets)**

- It should be used in DNA sequencing & DNA fragment Analysis.
- Optimized for use during capillary electrophoresis on Applied Bio Systems Genetic Analyzer 3500 xL
- Validated for HID application.

**11. Genetic Analyzer Cathode buffer (Qty- 12 Packets)**

- It should be used in DNA sequencing & DNA fragment Analysis.
- Optimized for use during capillary electrophoresis on Applied Bio Systems Genetic Analyzer 3500 xL
- Validated for HID application.

**12. Genetic Analyzer Conditioning reagent (Qty- 12 Nos.)**

- Optimized for use during maintenance of capillary electrophoresis on Applied Bio Systems Genetic Analyzer 3500 xL

**13. Capillary Array (Qty- 2 Nos.)**

- It should be composed of 24 silica capillaries.
- Length 36cm
- Internally Uncoated.
- Capillaries should be enable the separation of the fluorescently labelled DNA fragments by electrophoresis, it should be supplied with capillary sleeve, capillary electrode, comb Detector cell.
- Validated for HID application

**14. Hi Di Formamide (Qty- 25 ml x 24 Nos.)**

- It should denature (Separate) the DNA strands.
- It should resuspend DNA samples before starting a sample run.
- It should resuspend calibration standard during the preparation of calibration or sample run.
- It should maintain the electrical connection between the polymer in the capillaries and the injection well in the electrophoresis chambers by act as an electrolyte.
- It should be optimized/compatible with genetic analyzer 3100 and 3500 xL
- Validated for HID application.

**15. DNA EXTRACTION KIT (Qty- 3500 Sample)**

- The kit should be suitable for DNA extraction from common forensic sample types, including body fluid stains and swabs of body fluids.
- The isolation should be magnetic bead based.
- Kit should be compatible with Automated DNA Extraction platform for provided kit.
- Kit should contain all reagents, plastic components, suitable platform necessary to yields DNA from samples.