

FORENSIC SCIENCES DEPARTMENT

MYLAPORE, CHENNAI-600 004

1. Tender Notification No. : D1/ 34814 /2022.
Office of the Director,
Forensic Sciences Department,
30 A, KamarajarSalai, Mylapore,
Chennai-600 004.
(044) 2844 7771.
email id : fsddirector@gmail.com
2. Cost of the Tender Document for : Rs.525/-
each of the items. [Additional Rs.75/- for postage]
3. Tender for the supply of : Instruments / Equipments /
Mobile Forensic Vehicles
(VIII A, VIII B & VIII C)
4. EARNEST MONEY DEPOSIT : **Rs. /-**
(1% of the total value of the vehicle
quoted by bidder)
5. Pre-Bid meeting : 10.08.2022 at 03.00 P.M.
6. Last date and time for submission : 23.08.2022 at 02.00 P.M.
of tender under two bid system.
(Technical Bid / Price Bid).
7. Date and time of opening of : 23.08.2022 at 03.00 P.M.
Technical Bid.
8. Name and address of the tenderer : -
to whom tender document sold.
9. Office Ref.No. : D1/34814 /2022
dated:21.07.2022
10. Enclosure : **Specifications for the above**
Items furnished in Schedule –
VIII A, VIII B & VIII C

TENDER INVITING AUTHORITY

CHECK LIST

TENDERER TO FILL IN THE CHECK LIST GIVEN BELOW

(Tick ✓ wherever applicable)

1.	Whether the Tender is submitted in full shape in two bid system? (Technical bid & Price bid)	Yes	No
2.	Whether the Cover contains EMD cover containing EMD amount a) Pre-Qualification cover containing all the details of satisfying the qualifications as laid down in the tender document under eligibility criteria. b) Technical bid cover containing original tender document & other supportive documents, in a separate sealed cover. c) Whether valid SSI / NSIC Certificate and EMD exemption agreement as per schedule - I is enclosed in the EMD Cover if the tenderer is exempted from payment of EMD? e) Price Bid in a separate sealed Cover	Yes Yes Yes Yes	No No No No
3.	Whether the Service Centre Details are enclosed with necessary proof or the undertaking as per format?	Yes	No
4.	Whether the letter of authorisation for signing the tender document is enclosed?	Yes	No
5.	Whether the filled up and signed original Technical bid & Price bid, each in a separate sealed cover are together enclosed in a single sealed cover?	Yes	No
6.	Whether the deviation Statement, if any and Specification Sheets for tendered Items are enclosed?	Yes	No
7.	Whether the Manufacturer's authorisation letter(s), wherever applicable is enclosed?	Yes	No
8.	Whether Technical bid cover contains the Incorporation Certificate of your company?	Yes	No
9.	Whether the Price bid cover contains filled up and signed Original Price bid documents in full with price details?	Yes	No
10.	Have you enclosed photocopy of latest Income Tax Clearance Certificate?	Yes	No
11.	Have you enclosed photocopy of applicable Tax Verification Certificate?	Yes	No
12.	Have you furnished details of factory, capacity of plant, etc?	Yes	No
13.	Have you enclosed details of orders executed for Govt Departments / Public Sector Undertakings / Autonomous Boards and orders for such organizations on hand or pending execution?	Yes	No
14.	Have you enclosed certificates as evidence of orders executed / pending as mentioned above?	Yes	No

NOTE: 1) Please ensure all the relevant boxes are ticked (√) against each column. Tenderers must ensure to submit all the required documents indicated in the tender document without fail. Please flag all the documentary proof submitted for quick processing of Tender documents.

For Example: The Technical bid cover containing the incorporation certificate should be flagged as “Flag-8”.

**SIGNATURE OF THE TENDER INVITING
AUTHORITY WITH DATE & SEAL**

OTHER TERMS & CONDITIONS

ELIGIBILITY CRITERIA

1) Pre-qualification criteria

Authorization :

Only Original Equipment Manufacturers (OEM) or their representatives / authorized dealers are eligible to apply. [They need to produce authorization letter in the prescribed format. (**Schedule IV**)]

- i) In this tender, either the Indian agent on behalf of the Principal / Original Equipment Manufacturer (OEM) or Principal / OEM itself can bid but, both cannot bid simultaneously for the same item.
- ii) If an Indian agent submits bid on behalf of the Principal / Original Equipment Manufacturer (OEM), the same agent shall not submit a bid on behalf of another Principal / OEM in this tender.
- iii) The tenderer should not have been black listed by any State / Central Government / Public Sector Undertakings during the last 5 years.
(Undertaking to be submitted)

2) Undertaking:

An undertaking from the Original Equipment Manufacturer (OEM) is required stating that they would facilitate the bidder on a regular basis with technology / product updates and extend support for the warranty as well, as per **Schedule-XI**.

Note: The bid of the vendor/bidder which does not comply with the pre-qualification criteria will not be processed / evaluated further.

3) Delivery:

The Instruments / Equipments / Mobile Forensic Vehicle should be delivered and installed within the period as specified in the purchase order and be ready for use within two weeks of delivery unless otherwise prescribed.

4) Penalty:

If the suppliers fails to deliver and place any or all the items or perform the service by the specified date, penalty at the rate of 1% per week of the total order value subject to the maximum of 10% of total order value will be deducted.

5) Training:

Suppliers need to provide adequate training to the nominated person(s) at “Forensic Sciences Department, 30A, KamarajarSalai, Chennai-600 004” or at any other places at their cost. Forensic Sciences Department, Chennai-600 004 will not bear any training or living expenditure in this regard. The supplier should arrange for regular visit to the FORENSIC SCIENCES DEPARTMENT campus by its technical team and assist in maintenance of Mobile Forensic Vehicle within warranty period.

6) Installation & Warranty Declaration:

Suppliers must give the comprehensive onsite warranty as required from the date of successful delivery of Instruments / Equipments / Mobile Forensic Vehicles against any manufacturing defects. The model, number of Instruments / Equipments / Vehicle and all spares parts / accessories numbers should be entered as in the line of purchase order and suppliers are required to submit the warranty certificate (as per **Schedule-XII**). If any item covered under warranty fails, the same shall be replaced free of cost including all the applicable charges (shipping cost both ways). **Instruments / Equipments / Vehicle must be supplied within stipulated time period from the date of delivery as specified in the purchase order.**

Any deviation in the material and the specifications from the accepted terms may liable to be rejected and the suppliers need to supply all the Instruments / Equipments / vehicles in the specified form to the satisfaction / specifications specified in the Purchase order and demonstrate at their own cost.

7) Service Centre:

The tenderer shall have at least one Service Centre in **Chennai or in any one of the four Regions of Tamil Nadu or in any of the Major Cities in India**. Service Centre shall either be a Direct Service Centre or Franchisee or authorized dealer Service Centre of the tenderer. (Documentary proof for meeting service center conditions shall be enclosed).

REGIONS	HEADQUARTERS
NORTH	CHENNAI
SOUTH	MADURAI
WEST	COIMBATORE
CENTRAL	TRICHY

Manufacturer should submit an undertaking to attend service directly or through their authorized service partners under their supervision in the format as in Schedule – IV

8) Years of existence:

The tenderer should be in existence for **at least 2 years** prior to the year 2022 in the field of tender products manufacturing or services. This should be supported by documentary proof of "Certificate of incorporation".

9) Proof of purchase order:

The tenderer should have executed at least one single purchase / Supply order for the tendered items and copy of such order must be enclosed.

10) Tender Cost:

- a) The cost of each Tender Document is Rs.525/- The Tenderer who requires the tender document by post will have to pay Rs.75/- additionally for postage. (Rs.525 + Rs.75 = Rs.600/-)
- b) The Tender document can be purchased from the Office of the Director, Forensic Sciences Department, KamarajarSalai, Chennai – 600 004 on payment by cash during working hours on any working day, till the closing date of sale of tender document. The copy of the above receipt should be enclosed along with the bid document.
- c) The cost of Tender document if paid by Banker's Cheque (BC) or Demand Draft (DD) should be drawn in favour of "**The Director, Forensic Sciences Department, 30 A, KamarajarSalai, Chennai – 600 004**", payable at Chennai.
- d) Alternatively, the Tenderer can download the tender document free of cost through the designated web-site www.tenders.tn.gov.in
- e) The tenderers are advised to browse website www.tenders.tn.gov.in till the closing date of this tender for any corrigendum (if issued) in connection with this tender and must download the same and submit with entire original Tender document, without fail.

11) Earnest Money Deposit (EMD):

EMD is payable for Rs. /-. (Rupees only) by way of DD / Banker's Cheque only, drawn in favour of "**The Director, Forensic Sciences Department, 30 A, KamarajarSalai, Chennai – 600 004**" payable at Chennai. The EMD amount will not earn any interest till it is returned to the tenderers.

Note: The details of meeting the above eligibility criteria must be clearly furnished as per the format given in **Schedule - III** with necessary documentary proof attached duly flagged in the Prequalification cover. Only on fulfillment of the above conditions, the Tender will be considered for technical evaluation.

**SIGNATURE OF THE TENDER INVITING
AUTHORITY WITH DATE & SEAL**

FORENSIC SCIENCES DEPARTMENT

TENDER NO. D1/ 34814 /2022

DUE DATE: 23.08.2022

SUBMISSION OF TENDER, OPENING OF TENDER, VALIDITY AND EMD EXEMPTION DETAILS

CONDITIONS FOR PREPARING AND SUBMITTING SINGLE COVER SYSTEM

1. (i) Sealed tender will be received by the Director, Forensic Sciences Department, Mylapore, Chennai-600 004, up to 2.00 p.m. on 23.08.2022.

(ii) Tenderer is required to submit the tender in the form of single cover system in the manner described below:-
 - (a) Tenderer should submit both technical bid (Cover-I) and price bid (Cover-II) of the tender in a sealed single cover.
 - (b) Tender should be completed in all respects for taking decision immediately on opening of the tender. In the absence of Tenderer's disagreement on any particular clause it will be construed that they are agreeable to the Department's condition where they have not expressly deviated.
 - (c) Tenderer should submit the tender as per specification indicated in **The Technical Specification** and in accordance with the instructions to tenderer i.e., Directions for the guidance of Tenderer, General terms & Conditions of Tender and General Conditions of Contract.
 - (d) Tenderer should submit the Price Bid as per the format furnished in **Schedule – X**
2. Tender Documents are not transferable and in case, if the tender documents are to be purchased on behalf of some other firm, it has to be indicated at the time of purchase of tender document itself, otherwise such tender will be treated as defective and it will not be considered.
3. In the event of tender being submitted by a partnership it must be signed separately by each member thereof or in the event of absence of any partner it must be signed on behalf of person holding a **power of attorney** for authorizing him to do so.
4. Tender being submitted by a Company / Private Limited Company the authorized signatory should sign the tender documents and a certificate to that effect should be furnished along with the tender documents (Authorization Certificate issued by the concerned)

**SIGNATURE OF THE TENDER INVITING
AUTHORITY WITH DATE & SEAL**

5.

 - (i) The amount of Earnest Money Deposit is Rs. /- (Rupees
only)
 - (ii) EMD should be in the form of Demand Draft or Banker's Cheque drawn
in favour of “The Director, Forensic Sciences Department, 30 A,
KamarajarSalai, Chennai – 600 004” payable at Chennai. Failure to
enclose EMD in the cover will result in summary rejection of the offer.
 - (iii) Tenderers who have valid SSI / NSIC / MSME Certificate for the
exemption of Earnest Money Deposit and tender document cost shall
enclose the document as per **Schedule I**.
6. Tender must be sent in one sealed cover containing technical bid, price bid and
EMD / EMD exemption certificate and EMD Agreement as per **Schedule I** and
price bid sealed covers which shall be superscribedas “Tender for the supply of
Instruments / Equipments /Mobile Forensic Vehicles and the same shall be
addressed to “The Director,Forensic Sciences Department, 30 A,
KamarajarSalai, Chennai – 600 004”. Name and address of the tenderer shall
also be written in all the covers at the left side.
7. Contents of Cover:

 - a) EMD covers containing EMD amount superscribed on the cover as “EMD
COVER”.
 - b) Pre-Qualification (Eligibility criteria) cover containing all the details of
satisfying the qualifications as laid down in the tender superscribed on the
cover as PREQUALIFICATION COVER”.
 - c) Technical bid cover containing signed original tender document and other
supportive documents indicating the technical competence of the tenderer,
superscribed on the top of the cover as “TECHNICAL BID DOCUMENTS”.
These documents should be signed by the tenderer / authorized
representative.

- d) Price bid in the format enclosed (**Schedule X**) must be kept in a separate sealed cover superscribed as "PRICE BID". FORENSIC SCIENCES DEPARTMENT reserves the right to reject any tender wherein the price bid is submitted in a different format than the prescribed one.

NOTE : 1. Different sealed covers for "EMD". "PRE-QUALIFICATION", "TECHNICAL BID" and "PRICE BID", have to be accommodated within a sealed Envelope for early processing of the tender documents.

2. Only one set of tender documents should be furnished in. No additional copies are required.

FORENSIC SCIENCES DEPARTMENT also reserves the right to reject a tender document, which is incomplete or quoted for only part of the requirements. **Conditional offer is not acceptable and liable for rejection.** Each and every cover must be superscribed as stated above with Tender number, due date and Name of the item on the respective cover.

Details to be furnished in the Sealed Cover

In order to enable quicker evaluation of the tender documents, the following multiple cover procedure has been prescribed:

(i) **EMD Cover:** Title this cover as "**EMD cover**"

TENDER NO: -----

1. Banker's Cheque / Crossed DD for EMD Amount 2. EMD exemption certificate & EMD Agreement as per **Schedule - I**

(ii) **Pre-Qualification Cover:** Title this cover as "**Pre-Qualification Cover**"

- 1) Profile of the Company as per **schedule - III** of Technical Bid.
- 2) Authorization letter from the Board of Directors or their authorized Executive to sign this tender document. (As per **Schedule – II** of Technical bid).
- 3) All the required documents for eligibility criteria and other documents wherever insisted in the Tender for Technical bid for eligibility criteria should be submitted.

**SIGNATURE OF THE TENDER INVITING
AUTHORITY WITH DATE & SEAL**

(iii) Technical bid cover: Title this cover as “**Technical bid cover**”.

1. Filled up Technical bid along with necessary Brochures 2. Compliance Statement, etc., 3. Original Technical bid documents.

(iv) Price bid cover: Title this cover as “**Price bid cover**”.

Price bid: Prices must be given as per **Schedule –IX & X**

MODE OF SUBMISSION

1) All the documents viz., EMD, Pre-qualification, Technical bid and price bid must be put in a single cover, sealed and superscribed as Tender for the supply of **NAME OF TENDERED ITEM** along with Tender Number and Due date and shall be addressed to the “**The Director, Forensic Sciences Department, 30 A, KamarajarSalai, Chennai – 600 004**”.

2) The Tender may be submitted in person to the “**The Director, Forensic Sciences Department, 30 A, KamarajarSalai, Chennai – 600 004**”, on or before the due date and time.

3) Alternatively, the tenders can be sent by registered post / courier and must reach the “**The Director, Forensic Sciences Department, 30 A, KamarajarSalai, Chennai – 600 004**” on or before the due date and time. Forensic Sciences Department will not be responsible for the postal delay, if any.

4) The Tenders received after due date and Time / Unsealed or Incomplete shape or by Facsimiles (FAX) or by Electronic mail are liable for rejection.

**SIGNATURE OF THE TENDER INVITING
AUTHORITY WITH DATE & SEAL**

OPENING OF TENDERS

Tenders will be opened by the Tender Scrutiny Committee or Tender Accepting Authority at the Office of “**The Director, Forensic Sciences Department, 30 A, Kamarajar Salai, Chennai – 600 004**” on the prescribed due date and time in the presence of tenderers or their representatives (only one representative per tenderer) who choose to be present. Tenderers must bring the authorization letter for attending the same.

- 1) Initially EMD Cover will be opened and tenders received without EMD or valid SSI / NSIC Certificate and Agreement in the format prescribed in the **Schedule I** will not be considered for further processing of the Pre-qualification cover.
- 2) After opening of Prequalification cover, the documents received in respect of Eligibility criteria will be scrutinized by Tender Scrutiny Committee/Tender Accepting Authority.
- 3) Tenderers who qualify in all Prequalification conditions indicated in the tender documents will alone be considered for processing of Technical bid cover containing Technical Documents.
- 4) “Price Bid” of the tenderers who are qualified in Technical evaluation alone will be considered for further process and award of Tender as per their quote.

VALIDITY OF THE TENDER

Price: The prices are to be kept valid for **1 year** from the date of opening of the Tender.

**SIGNATURE OF THE TENDER INVITING
AUTHORITY WITH DATE & SEAL**

GENERAL CONDITIONS OF CONTRACT

1. This contract is last for 1 year or until the supply of Instruments / Equipments / Mobile Forensic Vehicles are effected whichever period is advantageous to this department from its date. But in the event of any breach of agreement at any time on the part of the contractor, the contract shall be terminated by the Tender Accepting Authority on behalf of the Governor of Tamil Nadu upon giving fifteen days' notice to the contractor.
2. The item to be supplied under this contract are to be of the quality of sort specified and in every respect equal and answerable to the technical specifications of instruments submitted during evaluation, (as per the technical Compliance format enclosed along with the technical specification) and such as the Government or any other duly authorized authority shall approve.
3. The item are to be delivered free of charge at the contractor's risk in such quantities or number at such times and in such manner as the Director, Forensic Sciences Department Chennai or anyone duly authorized by him/her shall from time to time order. If freight charges are claimed they will not be admitted.
4. Rejected item shall be removed by and at the expense of the contractor within seven days after receipt of such notice. If not so removed, the Director, Forensic Sciences Department, Chennai, may cause the item to be removed and charge the contractor with all expenses incurred in such removal
5. In case of failure by the contractor to deliver item demanded from him within the period specified for delivery or in case of item delivered by him not being of the stipulated quality, sort, weight or measure or in case of articles being delivered without a correct invoice in triplicate, the Director, Forensic Sciences Department, Chennai or anyone duly authorized by him shall have power to reject any such item and to purchase from others instead of any item so rejected or not delivered. Unless the contractor shall himself forthwith supply that shall be sufficient and satisfactory, any excess of cost so incurred by the Govt., over the contract price together with all charges and expenses attending the purchase shall be recoverable by the Govt., from the contractor.
6. In case of failure to complete the supplies within the date of delivery specified in terms of the contract placed on the contractor in preference to the lowest acceptable offer shall be recoverable by the Govt., from the contractor.
7. The contract or any part, share or interest in it shall not be transferred or assigned by the contractor directly or indirectly to any person or persons whomsoever without the written consent of the Director, Forensic Sciences Department, Chennai.
8. The Contractor shall make his own arrangements for obtaining import licenses in respect of item tendered for supply under this contract from the authorities concerned and in no case his applications will be forwarded in this regard.
9. The Govt., hereby agree that during the term fixed by this contract, and except as herein provided Govt., shall not purchase from any persons other than the contractor or from any company or corporation all or any quantities of the goods or materials agreed to be supplied by the contractor.

10. Nothing herein contained shall prevent the Tender Inviting Authority/Tender Accepting Authority from, at any time, requiring the contractor to supply and deliver any larger number of any one or more of the said item than the number of the same mentioned in the said schedule and in any such case and so often as the same shall happen, the contractor shall and will supply and deliver as aforesaid such additional number of all or any of the said item subject to the several provisions herein contained as shall be required by him and nothing herein contained shall render it obligatory on the Director, Forensic Sciences Department, Chennai, to take from the contractor the whole or any of the said articles and the contractor shall supply and deliver under this contract only such of the said articles as shall from time to time be required by or on behalf of the Director, Forensic Sciences Department, Chennai.
11. Any notice to the contractor shall deemed to be sufficiently served if given or left in writing at his usual or last known place of abode or business.
12. The contractor shall furnish money security for the due fulfillment of the contract equivalent to five (5%) percent of the total value of the supplies contracted for. This security may be in the form of cash or Government securities, municipal debentures, Port Trust Bonds and deposit receipt of the SBI., or Post Office Five-Year Cash Certificates or Bank Guarantee given by any Nationalised Bank. In the case of cash security, the amount should be deposited in the Post Office Saving Bank and the pass book should be sent to the Director, Forensic Sciences Department, Chennai. The Director, Forensic Sciences Department, Chennai on behalf of the Govt., of T.N., may, at his discretion in lieu of such securities, will require a security bond from two sureties to be approved by him.
13. Upon the complete fulfillment of this contract by the contractor to the satisfaction of the Govt., or any officer duly authorized by the Government, the security furnished by the contractor shall be returned to him, after completion of warranty period less the amount if any due by the contractor to the Government.

(Signature of the Contractor)

Witness:

- 1)
- 2)

**SIGNATURE OF THE TENDER INVITING
AUTHORITY WITH DATE & SEAL**

Acceptance

The foregoing tender, in accordance with the conditions of contract thereunto annexed is hereby accepted by me, acting for and on behalf and by the order and direction of the Governor of Tamil Nadu.

Signature of Officer accepting the tender.

Designation:

Place.

**GENERAL TERMS AND CONDITIONS FOR THE TENDER FOR THE SUPPLY OF
INSTRUMENTS / EQUIPMENTS /MOBILE FORENSIC VEHICLES TO
FORENSIC SCIENCES DEPARTMENT**

Tender form

1. The tender schedule is not transferable and it should be used only by the tenderer to whom it is officially issued by the Forensic Sciences Department.
2. Only the tender document supplied by this office/downloaded from the designated website should be used and it should be resubmitted in full shape without detaching/modifying any page from it. Tenders in any forms other than the forms and schedules issued by the Department to the Tenderer will not be considered and will be rejected as non-responsive.
3. Incomplete tender documents will be rejected.
4. Each page of the tender document, including technical specifications, should be duly signed.
5. When the tender is made by an individual, it shall be signed with his name and address and in case of a partnership firm, it shall be signed by one of the partners empowered to submit tender on behalf of the partnership as contemplated. If it is made by a Company or Corporation it shall be signed by an officer duly authorized for the purpose. In all cases, the status of the tenderer, whether a proprietorship, partnership, company or corporation should be furnished in the covering letter with full address of the tenderer's name, names of partners, directors etc. The tenderer should also furnish such particulars / evidence as may be required by the competent authority in this department before execution of the agreement.
6. If any covering letter accompanying the tender document is in the tenderer's letter head form, all terms and conditions printed there in should be scored out and duly authenticated. It should be distinctly understood that such printed terms and conditions in the letter head will not have any binding on this department and those terms and conditions quoted in the tender document only will be considered.
7. No erasures, interpolations or alterations will be allowed except when initialed by the tenderer.
8. Only manufacturers or their representative / authorized dealers can participate in the tender.
9. Leaflets / brochures regarding the product should invariably be enclosed.

Earnest Money Deposit

10. Earnest Money Deposit for Rs. /-(Rupees only) by way of Banker's Cheque or Demand Draft in favour of The Director, Forensic Sciences Department, Chennai, payable at Chennai should be compulsorily appended with the tender document. **Personal / Company Cheques will not be accepted.**
11. Any tender submitted without EMD will be summarily rejected.
12. In the case of unsuccessful tenderers, their Earnest Money Deposit will be returned to them in due course soon after the final decision is taken on the tenders by the department. The Earnest Money Deposit of unsuccessful tenderers outside Tamil Nadu State will, however, be returned by Demand Draft / Banker's Cheque.
13. The Earnest Money Deposits will not bear any interest.

Furnishing of Price details and other conditions

14. Rates should be shown distinctly in **Indian Rupeeonly** in words as well as in figures.
15. The rates must be quoted separately for the supply of each item. Evaluation will be done item wise in respect of this tender.
16. Basic rate, Goods and Services Tax and other taxes should be indicated separately in the respective columns.
17. Prices quoted should include the cost of all accessories **essential to make the Instruments / Equipments /Vehicle /** as per Technical specification. **The price of only one model of the Instruments / Equipments / vehicle should be mentioned.**
18. The country of manufacture of the vehicle and of the materials and parts used in the manufacture or assembly of the item should be clearly noted in the tender.
19. The rates should be kept by the tenderer for 1 year from the date of opening of the tenders for acceptance.
20. No charges other than those mentioned in the supply order will be paid under any circumstances.

Demonstration of equipment and Evaluation

21. The tenderer should produce the Instruments / Equipments / Mobile Forensic Vehicle which he has quoted in the tender document for demo before the technical evaluation committee as and when called for. If it is not feasible for the tenderer to produce the Instruments / Equipments / Mobile Forensic Vehicle for demo before the technical evaluation committee, he may arrange for such demo, at his own risk, in the organisation / laboratory / agency where such Instruments / Equipments / Mobile Forensic Vehicle which is quoted in the tender document, has been supplied. Seeking time for demonstration by the tenderers on his own accord will not be entertained.
22. The tender will be rejected if the is not produced for demo and the EMD is liable to be forfeited in the event of such failure.
23. Each Instruments / Equipments / vehicle produced for demonstration must have a label attached to it, showing clearly the name of the tenderer and the country of manufacture and that of the origin of material used in the manufacture.
24. Evaluation will be based on whether the Instruments / Equipments / vehicle meets the vital specifications and upon the quality and durability of the product and terms and conditions regarding warranty, training and servicing capability.
25. **DEMO PROCEDURE:**

If the Instruments / Equipments / Mobile Forensic Vehicle supplied for evaluation meets the tender specifications it would be treated that the Instruments / Equipments / Mobile Forensic Vehicle had passed the "specifications test". If the specifications are below the tender specifications, then the Instruments / Equipments / Mobile Forensic Vehicle would be treated as "failed" in the "specifications test". The tenderers should take utmost care to bring in the Instruments / Equipments / Mobile Forensic Vehicle which should be equal to or better than the specifications given in the tender documents. Department reserves the right to reject the Instruments / Equipments / Vehicle, if it is found that it does not meet the specifications. In such cases, the tenderers would be treated as "failed" in this test. However, Department reserves its right to offer one last opportunity to the tenderer to produce another for evaluation, say within a short period of 2-3 days. Such a sample would be evaluated solely at the discretion of Department and the Department would be pleased to provide such an opportunity if public interest (for healthy competition) demands such a step. In the normal course, such an additional opportunity would not be given to the tenderers.

Warranty

26. The specified Comprehensive onsite extended warranty for the maintenance of Instruments / Equipments / Mobile Forensic Vehicle supplied by the tenderer shall be provided.
27. The warranty shall cover defects in Instruments / Equipments / Mobile Forensic Vehicle or poor workmanship with company / factory trained personnel and service during the period of warranty notwithstanding the fact that the Instruments / Equipments / Mobile Forensic Vehicle were inspected and approved by inspecting officers.

Acceptance of tender

28. Notification of acceptance of tender by the department shall be deemed to result in and constitute a valid and considered contract binding on the tenderer. If the tenderer withdraws his / her tender after acceptance by the department, the EMD shall be forfeited.
29. A tender may be accepted for one or more or the whole of the Instruments / Equipments / Mobile Forensic Vehicle and their accessories / peripherals, as the case may be.

Release of Purchase Order

30. The contractor should examine carefully the purchase order immediately on receipt and bring to the notice of the indenting officer within five days of receipt of purchase order any discrepancy with regard to the quantity ordered, specifications, packing, etc., for prompt rectification. The letter should be sent by registered post with Acknowledgement due. Meanwhile, supply of the Instruments / Equipments / Mobile Forensic Vehicle which are cleared in all respects for dispatch and acceptance by the consignees shall be arranged by the date mutually agreed upon and should not be held up for any reason whatsoever.

**SIGNATURE OF THE TENDER INVITING
AUTHORITY WITH DATE & SEAL**

Agreement

31. The successful tenderer should execute an agreement in non-judicial stamp paper, having a face value of Rs.20/- within 15 days from the date of notification of acceptance by the department for the due fulfillment of the contract. If the value of the tender exceeds Rs.10,00,000/- (Rupees Ten Lakhs) the said agreement should be executed in non-judicial stamp paper, having a face value of Rs.100/- within the aforesaid stipulated period. If failed, the provisional order will be cancelled and the EMD amount paid will be forfeited.
32. Successful tenderers will be required to execute an agreement in the form, which is available at the office of the Director, Forensic Sciences Department, Chennai. The stamp duty on the Agreement shall be borne by the successful tenderer. On their executing the agreement, the EMD will be returned to them. In case of firms outside Tamil Nadu State, the EMD received will be returned to them by Demand Draft / Bankers' cheque.

Security Deposit

33. Security Deposit /Bank Guarantee given by any Nationalized Bank equivalent to five (5%) percent of the total value of the supplies contracted for will have to be furnished by the successful tenderer. This is liable to be forfeited either in full or in part for any breach of conditions of contract or default on the part of the contractor. Security deposit paid by the successful tenderer will not bear any interest.

Security deposit of five (5%) percent will be returned after getting a certificate from the user unit to the effect that the items purchased are up to their satisfaction.

34. The EMD will be forfeited if the successful tenderer fails to remit the security deposit and execute the agreement within the period specified. The security deposit will be refunded only upon satisfactory fulfillment of the contract after completion of supply of the entire Instruments / Equipments / Mobile Forensic Vehicle ordered and expiry of the warranty period duly adjusting the amount due to the Department, if any.
35. **Performance Guarantee Bond**
 - a. Performance Guarantee Bond is mandatory.
 - b. Successful supplier / firm should submit performance guarantee as prescribed and to be received in the office of Deputy Registrar, Administration and Materials Management Division before the date of commencement of supply or 30 days from the date of acceptance of the purchase order, whichever is earlier. The performance guarantee bond to be furnished in the form of Bank Guarantee as per given proforma of the tender documents, for an amount covering 3% of the value of quantity of material on landed cost basis.

- c. The Performance Guarantee should be established in favour of "The Director, Forensic Sciences Department, 30A, KamarajarSalai, Chennai-600 004" through any Nationalized Bank / Schedule Bank.
- d. Validity of the performance guarantee bond shall be for a period of entire warranty period from the date of installation and commissioning.
36. On successful completion of installation and supply to the satisfaction of the Forensic Sciences department and on receipt of the invoice bill in triplicate, 100% payment will be settled based on budgetary provision.
37. The Director, Forensic Sciences Department, Chennai, acting on behalf of the Governor of Tamil Nadu or any other authority empowered in this matter shall have the right of rejecting any tender without assigning any reason for doing so.
38. The Director, Forensic Sciences Department, Chennai or any other authority empowered shall have the right of requiring a successful tenderer to supply more than the required number of quantity of the Mobile Forensic Vehicle mentioned in the schedule than the number or quantity mentioned therein.
39. **Terms for rejection of Instruments / Equipments /Mobile Forensic Vehicles.**
 - a) f the country of manufacture and the origin of material used in manufacture of Instruments / Equipments / Vehicles is not mentioned in the tender.
 - b) If the tender is not in the form supplied by this office/downloaded from the Tamil Nadu Government website (www.tender.tn.gov.in)
 - c) If Instruments / Equipments / Mobile Forensic Vehicle quoted are not submitted as and when required as per condition vide Sl. No. 21 and 22 of Page 23 for technical evaluation test, the EMD amount paid by the Tenderer will be forfeited.
 - d) If the tender is not accompanied by the receipt of the Earnest Money Deposit.
 - e) If the tenderer imposes any restriction on other conditions in his tender.
 - f) If the tenderer enters one rate in figures and another in words and declines to abide by the lower of the two.
 - g) If the tenderer alters the period of supply or expunges any clause in the form of tender
 - h) If the tender is presented without signature.

**SIGNATURE OF THE TENDER INVITING
AUTHORITY WITH DATE & SEAL**

Reservation of rights

40. The authority competent reserves the rights:-
- a) To award contract to one or more tenderers in respect of each item covered by the tender.
 - b) To reject any or all the tenders without assigning any reasons there-for.
 - c) **To relax or waive or modify** at his discretion any of the condition/specification in the interest of the department
 - d) The decision of the tender accepting authority of this department in this regard shall be final, conclusive and binding on the supplier.

Delivery

41. The rates accepted will be for delivery at such destinations as indicated in the tender document or in subsequent purchase order. The delivery and installation should be made within the stipulated period prescribed in the purchase order. Otherwise penalty clause will be levied.
42. The supplier shall reckon the delivery period from the date of receipt of the purchase order. The date of delivery as per postal acknowledgement due in the case of purchase order sent by post or the date of delivery if delivered in person or through special messenger, shall be deemed to be the date of receipt of the purchase order.
43. Delivery period is inclusive of pre-delivery inspection. The date of delivery of Vehicles in good condition to the consignees shall be the date of supply. The rate indicated in the purchase order should be maintained. The materials should be delivered to the consignees as per the purchase order placed.
44. Acceptance of materials by the consignee:- If on examination of the Instruments / Equipments / Vehicles, any portion of the supplied Instruments / Equipments / Vehicles are found to be damaged or substandard or not fully in accordance with the relevant specifications, the whole supply shall be rejected irrespective of the fact that this material was cleared under pre-delivery inspection. The Instruments / Equipments / Vehicles should be strictly conform to the specifications given in the tender conditions. In case of doubt whether the materials conform to the specifications or not, the decision of the consignee shall be final. The consignee has the right to reject the Instruments / Equipments / Mobile Forensic Vehicle found not conforming to the specifications and they should be replaced within seven days at the cost of the supplier.

**SIGNATURE OF THE TENDER INVITING
AUTHORITY WITH DATE & SEAL**

Penalty

45. Where the supply is not completed within the delivery schedule, without prejudice to the right of the department to cancel undelivered portion of the purchase order, extension of time may, if so required by the contractor may be granted at the discretion of this department. Such extension of time will entail recovery of penalty from the contractor at one percent per week, on the value of the undelivered quantities subject to a maximum of five percent of the value of the undelivered quantity.
46. The Tender Accepting Authority will have the right to cancel the purchase order and to recover from the contractor liquidated damages at 2% of the value of the undelivered quantity or the extra financial commitment to this department on the purchase of the balance quantity, whichever is higher besides forfeiting the security deposit/bank guarantee. The Three (3%) percent of the payment amount/ bank guarantee will be retained during the warranty period as performance guarantee and will be paid after successful completion of the warranty.
47. The Instruments / Equipments /fabricated vehicle should be delivered within the prescribed delivery schedule mentioned in the purchase order. If not, thereafter, Forensic Sciences Department holds the option to complete the fabrication work of the vehicle through alternate sources at the risk and cost of the defaulting contractor / supplier.

Certificates and details to be furnished

48. Latest income tax clearance certificate and latest appropriate tax verification certificate should also be appended with the tender document.
49. The following certificates should also be furnished: (a) Valid NSIC Registration Certificate, if registered under NSIC, (b) Valid SSI Registration Certificate, if registered under SSI, (c) An existence certificate and capacity certificate for the particular item of Tender issued by the authorized SSI / NSIC and, (d) Forensic validation certificate, wherever necessary, should be produced.
50. The Tenderer should furnish details of orders executed for Government departments / autonomous body, etc., and details of orders on hand or pending execution. Certificates in proof of these should also be furnished.
51. The tenderer shall furnish the location and full address of the factory and the details and capacity of the plant.

**SIGNATURE OF THE TENDER INVITING
AUTHORITY WITH DATE & SEAL**

Schedule I

FORM OF AGREEMENT TO BE SUBMITTED BY THE TENDERERS CLAIMING EMD

**EXEMPTION (To be submitted in Rs.20/- / Rs.100/- Stamp Paper along with the
Technical bid)**

THIS Deed of Undertaking executed at Chennai on thisday of Two Thousand.....by M/s..... a company registered under the companies Act, 1956, having its Registered Office at -----
----- herein after called the “ TENDERER” (which expression shall where the context so admits mean and include their Agents, Representatives, Successors- in office and assigns) to and in favour of The Director, Forensic Sciences Department, Chennai – 600 004, herein after called “FORENSIC SCIENCES DEPARTMENT”.

WHEREAS the Tenderer is exempted from payment of Earnest Money Deposit for participation in the tender for the supply of

AND WHEREAS the Tenderer is exempted by FORENSIC SCIENCES DEPARTMENT from payment of Earnest Money Deposit subject to the Tenderer executing an undertaking to the value of Rs. (Rupees.....) Specified to be paid to FORENSIC SCIENCES DEPARTMENT in the event of non-fulfillment or breach of any of the conditions of the said tender by the Tenderer as mentioned hereunder:

1. Withdrawing its tender before the expiry of the validity period (OR)
2. Withdrawing its tender after acceptance of its tender by FORENSIC SCIENCES DEPARTMENT, (or)
3. Violating any of the conditions of the tender.

NOW this undertaking witnesses that in pursuance of the said agreement the tenderer hereby both Covenant with FORENSIC SCIENCES DEPARTMENT that in consideration of FORENSIC SCIENCES DEPARTMENT waiving the condition of payment of EMD in cash, the tenderer has agreed to pay to FORENSIC SCIENCES DEPARTMENT in the event of :

1. Withdrawing its tender before the expiry of the validity period ;
2. Withdrawing its tender after acceptance. ;
3. Violating any of the conditions of the tender ; and
4. Failure in supply of Instruments / Equipments / Mobile Forensic Vehicle submission as per the conditions of the tender.

NOW this condition of the above written undertaking is such that if the tenderer shall duly and faithfully observe and perform the conditions specified as above then the above written undertaking shall be void, otherwise the same shall remain in full force.

IN WITNESS WHEREOF Mr.....(Name with Designation), acting for and on behalf of the Tenderer has signed this deed on the day, month and year herein before first mentioned.

In the presence of witnesses: Signed and delivered by and on behalf of the tenderer

1

2

In the presence of witnesses: Accepted for and on behalf of FORENSIC SCIENCES DEPARTMENT

1

2

SIGNATURE OF THE TENDERER

Schedule II

AUTHORISATION LETTER FOR SIGNING OF THIS TENDER:

In the case of PSU / Public / Private Limited Companies, authorization from the appropriate authority to sign the tender document must be enclosed along with Technical bid. Documents received without such authorization will not be considered for further processing.....

SIGNATURE OF THE TENDERER

Schedule III

Sl.No	Description	Details of Enclosure	Enclosed / Not Enclosed
1.	Only Manufacturers or their Representatives / authorized dealers are eligible to apply. [They need to produce authorization letter.]	Authorized by : Date :	
2	Service Centre: The tenderer shall have at least one Service Centre in Chennai or any one of the four Regions of Tamil Nadu. viz Chennai, Madurai, Trichy and Coimbatore (or) in any of the Major Cities in India (Service Centre shall either be a Direct Service Centre or Franchisee or authorized dealer Service Centre of the tenderer.)	CHENNAI Fixed line / Fixed Wireless Telephone No: Latest Bill No: Date: Previous Bill No: Date:	
3		CENTRAL REGION (Trichy) Fixed line / Fixed Wireless Telephone No: Latest Bill No: Date: Previous Bill No: Date:	
4		SOUTHERN REGION Madurai Fixed line / Fixed Wireless Telephone No: Latest Bill No: Date: Previous Bill No: Date:	
5		WESTERN REGION Coimbatore Fixed line / Fixed Wireless Telephone No: Latest Bill No: Date: Previous Bill No: Date:	
6		Details of service centre in any other cities in India	
7	Years of Existence: The tenderer should be in existence in India or abroad for at least 2 years prior to 2018 in the concerned field. This should be supported by documentary proof of “Certificate of incorporation”.		
8	The tenderer should have executed at least one single Purchase / Supply order for the tendered items (Proof of Purchase order must be enclosed)		

NOTE :-

- 1) The copies of the telephone bills should be enclosed.
- 2) Mobile numbers are not considered as a proof for the Service Centre.
- 3) Resident Engineers are not considered as Service Centre.
- 4) Any alternative valid proof for existence of service centre, which is in operation, may be submitted. Forensic Sciences Department reserves the right to reject the documents if Department consider the document not as a valid one.

SIGNATURE OF THE TENDERER

Schedule IV

SAMPLE FORMAT FOR MANUFACTURER'S LETTER OF GUARANTEE

To

The Director,
Forensic Sciences Department,
30A, Kamarajar Salai,
Chennai – 600 004.

Sir,

We hereby undertake to submit a tender, and subsequently negotiate and sign the contract with the purchaser against Tender No.D1/ 34814 /2022 / FORENSIC SCIENCES DEPARTMENT / 2022-23 for the (type the Description of goods) manufactured by us. We hereby extend our full guarantee and warranty for the goods offered for supply by the above firm against this tender.

We also undertake to provide timely supplies as per terms of tender and as agreed mutually and also to provide a trouble free and continuous support either directly or through our authorized partners under our supervision during the Warranty and Extended warranty period. We will provide the necessary spares support in the event of replacement of any spare parts which is necessitated while providing Warranty and Extended Warranty services and if the spares are not available, then we will arrange for complete replacement of the item(s) with an equivalent / higher model.

For this tender we authorize M/s. _____ (Complete address and full contact details of the partner) to be our sales and service partner. In the event of discontinuation of service by our partner or any problem arising during provision of services, the entire responsibility to provide trouble-free and continuous services to the end-user rests with us and we undertake to provide services directly or through our alternative sales / service partners.

(Signature for and on behalf of Principal)

Note : Competent authority of the manufacturer / Principal should issue the letter of authority individually for all the items quoted and flag the letters with the name of the manufacturer / Principal.

SIGNATURE OF THE TENDERER

Schedule V

LETTER OF UNDERTAKING BY THE TENDERER

To

The Governor of Tamil Nadu,

Represented by

The Director,
Forensic Sciences Department,
30A, Kamarajar Salai,
Chennai – 600 004.

I / We

of

hereby contract and agree on the acceptance of the Tender to supply to the Government of Tamil Nadu (hereinafter referred to as “the Government”) in accordance with the conditions of contract stated below, the articles specified in the schedule of the Tender Document of quality of sort and the price specified in the Price bid and I / We hereby forward a sum of Rs..... (Rupees)

towards Earnest Money Deposit in the form of Demand Draft bearing No.-----
-, dated -----

drawn on -----Bank, -----Branch, which is to be returned to me / us if my / our offer is not accepted.

2. If this tender shall be accepted, I / We hereby undertake to execute the order within ----- days on the receipt of notice of acceptance to execute a contract in accordance with the terms and conditions laid down in the Tender Documents and any further conditions laid down before the execution of the contract may be agreed upon between the successful tenderer and the authority concerned in the Department.

SIGNATURE OF THE TENDERER

Schedule – VI

FORM OF CERTIFICATE OF INCOME-TAX ASSESSMENT TO BE PRODUCED BY AN APPLICANT FOR CONTRACTS

i)	Name and style (of the company, firm, Hindu undivided family, or individual) in which the applicant is assessed or assessable to Income tax and address for the purpose of assessment.				
ii)	Name and address of all companies firms or association or persons in which the applicant is substantially interested in his individual or Judiciary capacity.				
iii)	The Income –Tax Circle / ward / Dist. in which the application is assessed to Income – Tax and G.I.R. No.				
iv)	<p>The following particulars to be furnished concerning the Income-Tax assessments for preceding four years.</p> <p>The total contract amount received during the preceding three accounting years (give date of the closing day of the year) being previous year of-</p>				
a)	<div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> 2018 - 2019 </div> <div style="width: 60%;"></div> </div>				
	<div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> 2019 - 2020 </div> <div style="width: 60%;"></div> </div>				
	<div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> 2020 - 2021 (31 March 2021) </div> <div style="width: 60%;"></div> </div>				
b)	Year	Total income Assesse d Rs.	Tax deman ded Rs.	Tax paid Rs.	Balance due Rs.
	(1)	(2)	(3)	(4)	(5)
	2018 - 2019				
	2019 - 2020				
	2020 - 2021 (31 March 2021)				
c)	Whether maximum paid during the past five years-				
	i)Below Rs. 100				
	ii)Between Rs.100 and Rs.1000				
	iii)Between Rs.1000 and Rs.5000				

	iv)Between Rs.5000 and Rs.10000				
	v)Above Rs.10000				
d)	In case there has been no income-tax assessment in any year whether returns have been submitted under section 22(1) or 22(2) or tax has been paid in advance under section 18-A (3) of the act; and if so the amount of income returned for each year and tax for each of four years mentioned above and in the income-tax, Circle, Ward / District concerned where such returns have been filed; give reasons for the same.				
e)	Whether any attachment or certificate proceeding pending in respect of branch (es), if any.				

State for the three years –

Note: 1) Tax in columns (3) and (4) of 4(b) above should include all items, income tax, super-tax, surcharge, excess profit-tax and business profit tax. If any tax remaining unpaid, the reasons should be explained in an attached statement.

2) The entries pertaining 4 (c) may be completed also in cases of firms Registered under Income- Tax act with reference to the tax Payable by the firm if assessed as an unregistered firm. In case of final assessment has been made, it should be stated whether tax paid in advance (or payable) on the basis of Returns filed under section 22(1) or 22(2) and 23(b) or 18-A (3) of the Income-Tax act was: -

- i. Below Rs. 100
- ii. Between Rs. 100 and Rs.1, 000
- iii. Between Rs. 1,000 and Rs.5, 000
- iv. Between Rs. 5,000 and Rs.10, 000
- v. Above Rs.10, 000

I declare that the above information is correct and complete to the best of my knowledge and belief.

Name of the Contractor:

(Signature):

Registered No:

Address:

SIGNATURE OF THE TENDERER

Schedule VII

FORM OF CERTIFICATE OF APPROPRIATE TAX VERIFICATION TO BE PRODUCED BY AN APPLICANT FOR CONTRACT OR OTHER PATRONAGE AT THE DISPOSAL OF THE GOVERNMENT OF TAMILNADU.

(To be filled in by the applicant)

1)	Name and style in which the applicant is assessed or assessable to appropriate tax and address for the purpose of assessment.					
2)	Name and address of all companies firms or associations or persons in which the applicant is interested in his individual or Judiciary capacity.					
3.	The districts, taluks and subdivisions in which the applicant is assessed to appropriate Tax. (All the places of business should be furnished)					
4(a)	Total contract amount or value of patronage received in the preceding three years.					
	2018 - 2019					
	2019 - 2020					
	2020 - 2021					
(b)	Particulars of appropriate- tax for the proceeding three years:-					
	Year	Total T.O. assessed Rs.	Total tax assessed Rs.	Total tax paid Rs.	Balance due Rs.	Reasons for balance
	(1)	(2)	(3)	(4)	(5)	(6)
	2018 - 2019					
	2019- 2020					
	2020- 2021					

(c)	If there has been no assessment in any year whether returns were submitted and if there were, the division in which the returns were sent.	
(d)	Whether any penal action or proceeding for the recovery of appropriate tax is pending.	
(e)	The names and addresses of branches, if any	

I declare that the above information is correct and complete to the best of my knowledge and belief.

Signature of the applicant:

Address:

Date:

NOTE: A Separate certificate should be obtained in respect of each of the places of business of the applicant from the Deputy Commercial Tax Officer or Assistant Commercial Tax Officer having jurisdiction over that place.

SIGNATURE OF THE TENDERER

Schedule – VIII - A

Tender Document should be submitted as D1/ 36225 /2022

A -3500XL Genetic Analyzer (24 Capillary System) for
Human Identification Services – 1 No.

1. Fully automated multi-capillary, fluorescence-based DNA Sequencer.
2. Only licensed version of the system to be quoted along with user license to perform the sequencing and fragment analysis
3. **Number of capillaries:** 24 capillaries. Employ capillary arrays that use bare silica capillaries with a useful life that exceeds 160 runs.
4. Fluorescence based 24 capillary electrophoresis system along with all hardware and software needed for generating DNA profiles from different types of forensic samples. The system and all major accessories should be validated as per the SWGDAM guidelines for forensic DNA testing.
5. The system should have option of handling 96-well plate/8-well strips and should have capability of tracking consumables with 36 cm uncoated capillaries for forensic applications and suitable capillaries / array with high efficiency applications and system should also be capable of running 50 cm array and vendor should be able to supply as and when needed.
6. **Excitation source:** Single line 505nm Solid State long life laser utilizing a standard power supply and without heat removal ducting.
7. **Dye detection:** Cooled CCD detection technology and a spectrograph for color separation. Should be able to detect and analyze 6 or more fluorescent dyes simultaneously for DNA fragment analysis.
8. **Capillary illumination:** Simultaneous dual-side illumination detection system to maximize signal uniformity and sensitivity that in turn reduces the requirements placed on the user for sample preparation and cleanup.
9. **Tracking of consumable:** Radio-Frequency identification technology to track key consumables data.
10. **Heating/cooling:** Active temperature cooling/heating that can maintain temperatures from 18°C to 70° C.
11. **Sequencing throughput:** > 275 samples / day having ≥500bp read length with QV20.

12. Capillaries should be uncoated internally with new generation of polymer optimized for its performance for medium to high throughput DNA sequencing and fragment analysis requirements.
13. The system should have capability for tracking consumables using RFID technology to monitor usage, lot nos., part nos., expiry dates, and on instrument lifetime.
14. Vendor should be capable to validate instrument with Human Identification Professional Services as and when required.
15. Forensic specific validated software (as per SWGDAM and DAB guidelines) for data analysis with expert functionality and mixture analysis tools along with operating hardware specs 3.60 GHz, windows 10, 8 GB RAM, 500 GB HDD, DVD/RW or latest configuration, 1 TB external hard disk for data storage with colour printer.
16. **Real time analysis:** System software should allow real-time data quality evaluation providing immediate access to base-called or size called data to make decision about the quality of data as it is generated.
17. Power backup: A compatible online 7 KVA UPS with 2 Hour backup should be provided for the complete setup.
18. All the relevant brochure and certifications should be provided for adherence of the submitted compliance sheet for the tendered specification.
19. The satisfactory performance report should be attached. User list for at least 20-25 users in India should be attached with their contact details.
20. Two air Conditioners (2 Ton) to be provided to maintain optimum temperature for trouble free operation of the equipment.
21. The Genetic analyzer matching all the above specifications and accessories should be installed and maintained at Regional Forensic Science Laboratory, Madurai.

Schedule – VIII - B

Tender Document should be submitted as D1/ 37273 /2022
B - Liquid Chromatograph - Mass Spectrometer (LC-MS/MS) – 1 No.

S.No	Components/Main Heads	Prescribed Specification
1	LC-MS/MS	A compact High Resolution LC-MS/MS instrument from a reputable brand with direct manufacture support for qualitative and quantitative analysis of narcotic samples/toxicological samples including plant poisons with user friendly software with inbuilt library with traceability. It must have a strong track/traceable record for reliability, reproducibility/repeatability and robustness.
1.1	Interface	<ul style="list-style-type: none">• Interface should be capable of ambient temperature operation and without complex apertures to maintain structural integrity of thermally labile and fragile compounds• It should maintain cleanliness of ion optics and capable of handling complex sample matrix over a long period of time without performance degradation• Electro spray or any other efficient technology capable of avoiding interference from solvents and other extraneous matter• Cleaning of source should be done without venting the system and facility to vacuum interlock.• The total gas consumption for high efficiency of ionization should be not more than 50ml/min
1.2	Dynamic Range	<ul style="list-style-type: none">• Dynamic range should be 5 orders of magnitude or better pulse counting
1.3	Mass Stability	<ul style="list-style-type: none">• Mass Stability 0.1Da over 24 hours or better (provide graphical data)
1.4	Mass Analyser	QuadrupoleAnalyser <ul style="list-style-type: none">• The instrument should be configured with a quadrupole mass filter for the efficient transmission of ions in MS mode and selection of precursor ion for MS-MS mode• The analyser should have more than one aspect for the efficient ion separation with maximum resolution (high standard & fast scanning Quadrupoles and one high efficient multipole type collision cell). The Collision cell should be capable of ensuring lowest cross talk for accurate and precise quantitation even at rapid analysis. Below 0.3% at 3msec dwell time.• The collision gas used should be Argon gas for optimization of gas pressure for efficient collision thus increasing the sensitivity

1.5	Sensitivity	<p>Lower detection (LOD) and Sensitivity(Highest): Detection of Positive/Negative ions should be end-user selectable and switching time must be fast enough to analyse large number of samples in a single run without compromising the sensitivity.</p> <ul style="list-style-type: none"> • ESI Positive Ion Sensitivity: The signal to noise ratio for 1pg of reserpine should be more than or equal to 400,000 or better, in MRM mode of reserpine at the transition m/z 609 to m/z195 (Proof document /application note to be submitted along with the tender document) • ESI Negative Ion Sensitivity: The signal to noise ratio for 1pg of chloramphenicol should be more than or equal to 400,000 or better, in MRM mode of Chloramphenicol at the transition m/z 321 to m/z 152 (Proof document /application note to be submitted along with the tender document) • The IDL should be less than 2.5fg in ESI positive mode (using reserpine on column) and ESI Negative mode (using chloramphenicol on column)
1.6	Scan Speed	<ul style="list-style-type: none"> • It Should have scan speed of 25,000mu/sec or above (higher scan speed is preferable)
1.7	Mass range	<ul style="list-style-type: none"> • Mass range should be from 2 to 2000 m/z or better
1.8	Ionisation& Ion Source	<ul style="list-style-type: none"> • The system should be equipped with ESI (Electro Spray Ionisation) with concentric Gas Flow for Nebulisation to cover flow rates upto 2ml/min. • Multimode Ionisation: ESI / APCI (Atmospheric Pressure Chemical Ionisation) combined source must be provided as standard with the instrument. ESI and APCI ionization must be achieved using a single probe. It should be able to perform both ESI and APCI operations. • The heating block temperature of APCI must withstand temperature up to 500°C • Switching of ionization probe must be simple and tool free • An extra syringe pump must be provided as an option for direct sample infusion.
1.9	Integrated Fluidic Device	<ul style="list-style-type: none"> • An infusion device must be integral to the instrument or equivalent and must be controllable from the instrument software. At least 2 user-changeable sample vials should be built into the system to allow tuning and calibration solutions to be infused into the probe via the switching valve (to minimize space and tubing)

1.10	Polarity Switching time	<ul style="list-style-type: none"> • The polarity switching(+ve to –ve) time between alternate MRM scans should be less than 15msec or better (proof of the supporting documents must be provided)
1.11	Resolution	<ul style="list-style-type: none"> • In general, it should be below 0.7u. In case of High Resolution mode, it must be 0.5u
1.12	Mass Measurement Accuracy	<ul style="list-style-type: none"> • It must be less than +/- 0.1u
1.13	Vacuum System	<ul style="list-style-type: none"> • Robust high efficiency vacuum system with minimum maintenance and utility with low noise level • It should be of a differential type with Triple inlet turbo-molecular pump and one rotary pump. • Vacuum read backs must be digitally monitored and controlled through software to ensure fail-safe operation in the event of power failure • All accessories required for the proper functioning of the vacuum system should be supplied • High Vacuum Turbo molecular pump : 250L/Sec or better
1.14	Gas Control	<ul style="list-style-type: none"> • All gases must be controlled by the Software
1.15	Operating Modes	<p>Mass Spectrometer should have the following scan options</p> <ul style="list-style-type: none"> ➤ Full Scan ➤ Selected Ion monitoring/ Recording (SIM/SIR) ➤ Product Ion Scan ➤ Precursor Ion Scan ➤ Neutral loss Scan ➤ Multiple Reaction Monitoring (MRM) ➤ MS and MS-MS in a single injection with matrix background monitoring or equivalent. (Proof document/application note to be submitted along with the technical tender document) ➤ Simultaneous full scan and MRM or better (Optional)
1.16	Detector	<ul style="list-style-type: none"> • A high sensitive and high throughput detector with zero dead time, low noise and high accuracy at low level detections • An off-axis dynolite photomultiplier/Electron Multiplier detector • It must operate in both the modes (positive/negative) • Capable of switching polarity rapidly • Should have a better 'long life' (life time of the detector shall be furnished)

1.17	Nitrogen Generator	<ul style="list-style-type: none"> It should be supplied with the system along with the trouble free inbuilt compressor and appropriate capacity reservoir which should be sufficient enough to deliver the gases (purity >99.99%) required to run the system
1.18	Vacuum Manifold with compatible SPE Cartridges	<ul style="list-style-type: none"> Minimum 10 cartridges for extraction at one time.(for Narcotic drug analysis) Minimum 500 cartridges for different analytes. (for Toxicological analysis)
2.0	Ultra High Performance Liquid Chromatography system	<p>PUMP: High Pressure Binary Gradient System with pressure handling capability.</p> <ul style="list-style-type: none"> Pressure tolerance 15,000psi or better and online membrane vacuum Degasser Operating flow range should be 0.010-2.0ml/min or better with 1µl increments Flow Accuracy: +/- 1.0% or better
2.1	Auto sampler with Sample Cooler	<p>Number of samples : 100Nos each of 1.5ml capacity vials or equivalent Pressure tolerance : 15,000psi or better</p> <p>Injection VolumeRange: 0.1-50 µl with 0.1 µl increments Sample temperature : 4-40°C Sample delivery Precision : <0.15%RSD or better for 5 µl increments Sample Carry Over : <0.005% or better</p>
2.2	Column Oven with temperature	<p>Column Oven should be capable of accommodating at least three columns of 30cm length. Column temperature 5°C-80°C or better Temperature Stability : +/- 0.1°C Temperature Accuracy : +/- 0.5°C</p>
2.3	Column	<p>a. C-18, 150mm x 2.1mm id x 1.9µm b. C-18, 150mm x 2.1mm id x 1.7µm c. C-18, 250mm x 4.6mm id x 5µm d. C-18, 150mm x 2.1mm id x 2-2.5µm with guard column should be offered.</p>
2.4	Photo Diode Array Detector	<p>th Range : 190 – 800nm Wavelength Accuracy : +/- 1nm Number of diodes : 1024 Noise : 0.45 x 10⁻⁵ AU Drift : 4 x 10⁻⁴ AU/h Linearity : 2.5 AU Standard Flow Cell with a flow of 1.0µl or better</p>

2.5	System Controller and Operating System[Software/Method development]	<ul style="list-style-type: none"> • The vendor should provide method packages related to Forensic applications along with LC/MS parameters and MRM transitions for Narcotic drugs/Toxicological analysis(drugs/pesticides/insecticides/herbicides /plant poisons/etc.,) • Single Software platform with multitasking type for all the modules of LC and MS. Application Manager must be compatible with data of full scan, SIM/SIR or MRM. • Data acquisition, Peak integration, Calibration, Quantification and QC calculations must be fully automated. • It should cover full digital instrument control, report creation, self diagnosis and auto-tuning.
3.0		<ul style="list-style-type: none"> • The quantification method editor must be viewable in page view or spreadsheet. • The software must be capable of performing 'Automatic optimization of MRM'. Manual optimization must also be available. <p>The Software must be capable of performing the following functions and should be upgradable:</p> <ul style="list-style-type: none"> ➤ Workstation must be able to control the MS, acquire, store, process and reproduce the data by the same computer. ➤ Workstation must be able to control LC, Detector and auto sampler. ➤ It must be able to regulate the gas pressure and flow during the data acquisition and append to the relevant data file ➤ Software must have automated Calibration and Quantitative optimization. ➤ Automated MS to MS/MS switching during a single run with user selectable criteria ➤ Perform alternating positive/negative scans in one run and data may be processed as it is being acquired ➤ The software should simultaneously use both mass-spectrometry and PDA

4.0	Calibration Standards	One set of NIST or other traceable standards for Pesticides/Insecticides/Herbicides/Plant Poisons and Narcotic Drugs with a minimum expiry period of two years (support for 5 years) should be provided.
5.0	LC-MS grade Solvents	LC-MS grade Methanol and Acetonitrile (each of 2.5 litres) and TFA (Tetra Fluro Acetic Acid), Formic Acid, HFBA (Hydro fluro Butyric Acid) (each of 500 ml) must be provided.
6.0	PC with Printer	Intel core i7 processor, 2.0 Ghz or more, 19" or more LCD/TFT Monitor, 1TB Hard disk Storage, DVD-RW 4GB RAM, 4USB port or higher configuration for use with the above system to be provided. Reputed and Branded multi-functional (three in one) colour Laser Jet Printer must be provided.
7.0	Power Supply	A branded UPS System (minimum 10KVA) with input/output phases as per the requirements of LC-MS/MS must be provided. It should have suitable rating with voltage regulation, spike protection and minimum of 3hrs backup for the supplied instrument.
8.0	Additional requirements	<ul style="list-style-type: none"> • Startup package for 100 samples to be provided. In addition, the bidders should give a list of recommended consumables along with their source and budgetary prices. • Operation kit comprising all required items for startup/regular operation of the instrument. • Bidders should also quote all essential pre-installation requirements and utility requirement for LC-MS/MS. • Operation and Maintenance Manual for each module must be provided both in hard copy and softcopy. • Service Manual with set of required tools for each system/unit should be supplied. • The System should have server connectivity and should be capable of 21 CFR Part 11 compliance. • The necessary validations will have to be carried out by the equipment supplier. • Complete methods library with MRMs of Pesticides, Insecticides, Herbicides, Narcotic drugs, Plant Poisons, Miscellaneous substances, etc., with instrument method details and SOPs, related Software and user manuals to be provided. • Maintenance chart for all of the components in LC-MS/MS System should be provided

		<ul style="list-style-type: none"> • Gas Cylinder (1 No) which is required for collision induced dissociation/fragmentation should be supplied with pressure regulators/fittings. • 2 TON Air Conditioner for ambience setup. • Branded Working table (1 No) with ergonomically designed operator rest. (2 Nos.) • 0.1mg readability Digital Balance & Standard weights with calibration certificate should be provided. • High end branded ultrapure type I grade Water Purification System should be supplied
9.0	Operation and Maintenance	<ul style="list-style-type: none"> • Supplier will have to carry out successful installation at our laboratory premises (wherever the system has to be installed) • Training at the suppliers technical support laboratory premises is also required for 4 scientists. • IQ/OQ/PQ to be performed as per OEM guidelines/protocol, should be done free of cost with necessary traceable standards along with performance kit standard solutions.
10.0	Training component	<ul style="list-style-type: none"> • “Onsite Comprehensive Training Support” to the Forensic scientists by a person well trained by the supplier should be provided free of cost atleast for a year.
11.0	Warranty & Service	<ul style="list-style-type: none"> • Standard warranty of 3 years for the complete LC-MS/MS System, Nitrogen generator and UPS including Battery should be offered after successful installation and faultless functioning of the equipment. • Comprehensive Maintenance Contract (CMC) for a period of 60 months (5 years) after expiry of standard warranty should be included. • Annual Calibration of the equipment shall be a part of the CMC should also be mandatory to perform calibration after every major repair/breakdown. • The vendor should have available guaranteed parts and CMC service for 10 years. • The vendor should have a good after sales service /technical support and should be available locally in Tamil Nadu preferably at Chennai. • Current users performance list with contact details (customer name, phone number, email etc..) and data installation has to be provided. • Onsite performance evaluation of the equipment will be carried out for those who qualify in the technical bid.
12.0	Pre installation requirements	<ul style="list-style-type: none"> • Provide all pre installation requirements

Schedule – VIII - C

Tender Document should be submitted as D1/ 34814 /2022

C- ISUZU Vehicle – Hi Lander – 9 Nos.

Engine	
Type	4Cylinder,CommonRail,VGSTurboIntercooledDiesel
EngineDisplacement(cc)	1898
MaxPower(kW/hp@rpm)	120/163@3600
MaxTorque(Nm @rpm)	360@2000-2500
Transmission	
DriveType	2WDSsystem
No.ofSpeeds,ShiftType	6Speed,Manual
Suspension	
Front	IndependentDoubleWishbone,CoilSpring
Rear	SoftRide,LeafSpring
Wheel	
TyreSize	245/70R16
TyreType	Radial,Tubeless
RimType	Steel
Brakes andSteering	
FrontBrakeType	VentilatedDiscwithTwin-PotCalipers
RearBrakeType	Drum
SteeringType	HydraulicPowerAssistwithTiltAdjustment
Dimensions	
OverallVehicle(LxWxH)(mm)	5295x1860x1785
Wheelbase(mm)	3095
DeckInner(LxWxH)(mm)	1485x1530x465
TrackFront/Rear(mm)	1570
SeatingCapacity (Incl.Driver)	5

S.NO	Body Fabrication Work Descriptions
1	Body Fabrication
2	Inner painting works & Rear 2 door opening
3	Electrical wiring with cabin lights - 2 nos
4	Fire Extinguisher – 2 nos
5	9 to 10 boxes to be placed inside the cabin
6	Lights with siren and PA system
7	Rear Foot step
8	Body painting works & Labeling
9	GPRS Tracking device - 1 no
10	Flood lights & 2 side door lights -2
11	Art work will be supplied
12	Table light
13	Antenna
14	12 boxes to be placed inside the cabin - (SS - & 2 nos boxes additional)
15	Both sides Glass window open and close type, and Rear doors Glass windows
16	Plug Point 5 AMS & 15 Amps
17	Seat forward and Backward adjustable , single seat is require with foldable table
18	2 NOS Fan is required
19	wooden floor with vinyl flooring
20	Rear Door Handle
21	Rear Sun Film
22	Music System Fr. Panel &Labour
23	Vehicle polishing
24	Labeling - Branding
25	Side Foot step
26	Partition between front and back of vehicle.

GENERAL INVESTIGATION KIT		
Sr.No	Description	Qty
1	SprayMarkingPaint,350Gm	01No.
2	Barrier&WarningTape,500ft	01No.
3	DigitalDistanceMeasuringDevice	01No.
4	LaserLightPen	01No.
5	DirectionCompass	01No.
6	SmallBatteryoperatedUVlight	01No.
7	Eliminationkit(Pad&slips)	01No.
8	FoldingScale	01No.
9	RigidphotoScales(white)	01No.
10	RigidphotoScales(Grey)	01No.
11	LargeTypeTorch	01No.
12	PocketKnife	01No.
13	SwissKnife21functions	01No.
14	Magnifier(4"mmdia.)	01No.
15	VernierGuage(Digital)	01No.
16	Scissors-4"&6"	1Each
17	MetalMirror	01No.
18	MagnetPickTool(PenType)	01No.
19	SetofForceps	01No.
20	File	01No.
21	Scalpel	01No.
22	NitrileGloves	20Nos
23	PackofAssortedEvidenceLables	01No.
24	MoldedPlasticEvidenceContainers	05Nos
25	SetofEvidenceBags	05Nos
26	FireTins	01No.
27	SetofPermanentMarkerPens(Red,Black,Green)	2Set
28	SoapTowel	02Nos
29	DustMaskShoesCover&HeadCovers.	10Each
30	SteelMeasuringTape-5M	01No.
31	GlassCutter	01No.
32	RatchetscrewdriverwithAssortedHeads	01No.
33	ElectricTestMasterScrewdriver	01No.
34	JuniorHacksaw	01No.
35	WireCutter	01No.
36	N95Filtermask	10Nos
37	Carryingcase	01No.

**SIGNATURE OF THE TENDER INVITING
AUTHORITY WITH DATE & SEAL**

Format of the Compliance report to be given by the bidder for each Instruments / Equipments / Mobile Forensic Vehicles

Sl.No	Tender Specification	Specification of the vehicle/accessories /peripherals mentioned in the quote	Compliance Status (Mention YES or No)	Remarks/Reason (if any Deviation from the tender specification)

SIGNATURE OF THE TENDERER

PRICE BID

Schedule IX

THIS PRICE BID PAGE MUST BE KEPT SEPARATELY SUPERSCRIBED AS

“PRICE BID”

SL. NO:

NAME OF THE PARTY:

NOTE: The price details like net rate including State Goods and Services Tax, Central Goods and Services Tax, Integrated Goods and Services Tax , surcharge, freight, insurance for delivery, installation and commissioning of the **(Name of the tendered item to be mentioned here)** and such other levies that may be applicable must be quoted separately in the Price Bid only as per format given in **Schedule X** - and incomplete details as above will be treated as non-responsive offer and the tender is liable for rejection. The rates should be valid for **1 Year** from the date of the opening of the Tenders for acceptance. The rates should be quoted for each item with specification and model if applicable and should be indicated clearly in **INR** both in words and figures. If there is any scoring or over writing, the same should be attested by the tenderer with full signature. The rate quoted should be firm and should not be subjected to any variation clauses and conditions. Tenderer shall pay any increase in duties, taxes and surcharges on account of any revision by the Government after expiry of the stipulated delivery period in the Purchase Order.

Tenders with incomplete information, subjective conditions and with variance / contradiction between Technical & Price Bid & noncompliance of any tender terms will not be considered.

**SIGNATURE OF THE TENDERER
WITH DATE & SEAL**

Schedule X

A	B	C	D	E	F	G	H	I	J
Sl. No	i.) Description of Mobile Forensic Vehicle. ii.) Make and Model iii) Country of origin of the article or components	Basic Price	SGST	CGST	IGST.	Other levies and charges/ per unit	Rate per unit. (C+D+E+F+G)	Total Qty.	Grand Total (H X I)

SIGNATURE OF THE TENDERER

Schedule - XI

Undertaking

(Submitted on Letterhead of Original Equipment Manufacturer (OEM))

An undertaking from the Original Equipment Manufacturer (OEM) is required and stating that they would facilitate the Tender on a regular basis with technology/product updates and extends support for the warranty as well.

Sign of authorized person (OEM):-_____

Date:-_____

Name of the authorized

Person (OEM):-_____

Schedule - XII

Warranty Declaration

(Submitted on Letterhead of Tenderer/supplier)

The warranty declaration states that “everything to be supplied by us hereunder shall be free from all defects and faults in material, workmanship and shall be of the highest quality and material of the type ordered, shall be in full conformity with the specification and shall be complete enough to carry out the experiments, as specified in the tender document.”

Sign of authorized person of tenderer:-_____

Date:-_____

Name of the authorized_____

Person of Tenderer:-_____

**SIGNATURE OF THE TENDER INVITING
AUTHORITYWITH DATE & SEAL**