



**Request for Proposal (RFP)
for
Automatic Forensic Sperm Detection System
(Automated Slide Scanner for Sperm Detection
System on Motorized Upright Fluorescence
Microscope)
for
State FSL, Bhubaneswar.**

Tender No: 48-RFP-AFSDS-2024-25

Date: 11/02/2025

Tender Fee: Rs.590/- (Including GST 18%)

**A.I.G. of Police (Provisioning)
Tender Calling Authority
At/Po- Buxibazar, Cuttack, PIN – 753001**

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RFP for Automatic Forensic Sperm Detection System (Automated Slide Scanner for Sperm Detection System on Motorized Upright Fluorescence Microscope) for DGP Office, Bhubaneswar

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2. Disclaimer

RFP document is neither an agreement nor an offer by the Odisha Police (the “Authority”) to the prospective Applicants or any other person. The purpose of this RFP is to provide information to the interested parties that may be useful to them in the formulation of their proposals pursuant to this RFP. The Authority does not make any representation or warranty as to the accuracy, reliability, or completeness of the information in this RFP document and it is not possible for the Authority to consider particular needs of each party who reads or uses this RFP document. This RFP includes statements which reflect various assumptions and assessments arrived at by Authority in relation to the consultancy. Such assumptions, assessments and statements do not purport to contain all the information that each Applicant may require. Each prospective Applicant should conduct its own investigations and analysis and check the accuracy, reliability and completeness of the information provided in this RFP document and obtain independent advice from appropriate sources.

Authority will not be responsible for any delay in receiving the proposals. The issue of this RFP does not imply that the Authority is bound to select an Applicant or to appoint the Successful Applicant, as the case may be, for the firm and the Authority reserves the right to accept / reject any or all of proposals submitted in response to this RFP document at any stage without assigning any reasons whatsoever. Authority also reserves the right to withhold or withdraw the process at any stage with intimation to all who submitted the Application in response to this RFP.

The information given is not an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. Authority accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on the law expressed herein.

Authority reserves the right to change/ modify/ amend any or all provisions of this RFP document. The amended RFP will be made available on the website of Authority.

Key Definitions:

- i. “AUTHORITY” means Odisha Police, Office of the D.G & I.G. of Police, Odisha, Cuttack
- ii. “BIDDER” means the agencies/firms submitting proposal against this RFP
- iii. “AGENCY” means the selected bidder to carry out the assignment in accordance with the terms defined in this RFP
- iv. “Applicable Law” means the laws and any other instruments having force of law in India from time to time
- v. “Proposal/bid” means proposal submitted by bidders in response to the RFP issued by Odisha Police, Office of the D.G & I.G. of Police, Odisha, Cuttack
- vi. “Contract Value” means the price payable to the selected bidder under the Contract for the complete and proper performance of its contractual obligations.
- vii. “Day” means Working day as defined by Government of Odisha
- viii. “Services” means the work to be performed by the Agency pursuant to the selection by Odisha Police and to the contract to be signed by the AGENCY

3. Notice Inviting Tender



Odisha Police
Office of the D.G & I.G. of Police, Odisha, Cuttack
Tel. :0671-2304001,
Website:www.odishapolice.gov.in, **Email :** dirtsfl.orpol@gov.in
RFP No. 48-RFP-AFSDS-2024-25 Date : 11.02.2025

Online Bids through e-Tender Portal <https://tendersodisha.gov.in> are invited from the eligible bidders for procurement of Automatic Forensic Sperm Detection System for State FSL, Bhubaneswar during the current financial year 2024-25 as per the schedule mentioned below.

Events	Date
RFP Issue Date	11.02.2025
Date & Time of Pre-Bid meeting Queries to be submit on dirtsfl.orpol@gov.in , 2 days prior to the pre - bid meeting as per the format prescribed in Annexure 5	In this connection a pre-bid technical committee will be held in virtual mode based on quires which is submitted by the bidder. and the link will be sent through mail for the meeting (Online Link shall be shared based on the request receive from bidder on dirtsfl.orpol@gov.in before 15:00 hours, by 13.02.2025 Venue _ O/o the State FSL, Rasulgarh, Bhubaneswar.
RFP Submission Due Date and time	20.02.2025
Date & Time of Opening of Technical Bids	21.02.2025
Date & Time of Opening of Financial Bids	To be intimated
Tender Document fee	In favour of A.I.G. of Police (Prov.), Odisha, Cuttack payable at Cuttack.
EMD (Earnest Money Deposit)	In favour of A.I.G. of Police (Prov.), Odisha, Cuttack payable at Cuttack.

The bid document with all information relating to the bidding process including cost of bid document, Prequalification criteria and terms & conditions are available in the websites: <https://tendersodisha.gov.in> The Authority reserves the right to accept / reject any part thereof or all the bids without assigning any reason thereof.

A.I.G. of Police (Provisioning),
Cuttack, Odisha
(Tender Calling Authority)

4. Instruction to the Bidders

1. The Odisha Police –Odisha Police (Tender Inviting Authority) is a Govt. organization working under Home Department, Govt. of Odisha.
2. The bid documents published by the Bid Inviting Officer (Procurement Officer/Publisher) in the e-procurement portal <https://tendersodisha.gov.in> will appear in the “Latest Active Tender”. The Bidders/ Guest Users can download the Bid documents from 11/02/2025 and submit it online on 20/02/2025, 05.00 PM after which the same will be removed from the list of “Latest Active Tender”.

4.1 PARTICIPATION IN BID

4.1.1 PORTAL REGISTRATION:

The bidder intending to participate in the bid is required to register in the e-procurement portal using an active personal/official e-mail ID as his/her Login ID and attach his/her valid Digital signature certificate (DSC) - Class II or III to his/her unique Login ID. He/ She has to submit the relevant information as asked for about the bidder. The portal registration of the bidder is to be authenticated by the State Procurement Cell after verification of original valid certificates/documents such as (i) PAN and (ii) Registration Certificate (RC) / GST Certificate (for Procurement of Goods) of the concerned bidder. The time period of validity in the portal is co terminus with validity of RC/ GST. Any change of information by the bidder is to be re-authenticated by the State Procurement Cell. After successful authentication, bidder can participate in the online bidding process.

4.1.2 LOGGING TO THE PORTAL:

The Bidder is required to type his/her Login ID and password. The system will again ask to select the DSC and confirm it with the password of DSC as a second stage authentication. For each login, a user's DSC will be validated against its date of validity and also against the Certificate Revocation List (CRL) of respective CAs stored in system database. The system checks the unique Login ID, password and DSC combination and authenticates the login process for use of portal.

4.1.3 DOWNLOADING OF BID:

The bidder can download the bid of his / her choice and undertake the necessary preparatory work off-line and upload the completed bid before the closing date and time of submission.

4.1.4 CLARIFICATION OF BID:

The registered bidder can ask questions related to the online bid in the e-procurement portal before the pre-bid meeting. The State FSL (Hdqs), BBSR, At-Rasulgarh, Bhubaneswar, (Email – dirsfsfsl.orpol@gov.in) will clarify queries related to the bid. Through e-mail by the e-mail ID: dirsfsfsl.orpol@gov.in and aig-prov.odpol@gov.in and e-Procurement cell help desk 1800-3456765, 0674-2530998 for assistance in this regard.

4.1.5 PAYMENT OF COST OF BID DOCUMENTS:

The detail guideline for payment of Cost of Bid Document is mentioned at General Condition of contract

4.1.6 SUBMISSION AND SIGNING OF BID

The detail guideline for submission of & signing of bid is mentioned at General Condition of Contract

Note :For management of space the bidders can serially arrange their scanned documents as per Annexure 1,2(all pages should be signed by authorized signatory with seal and then to be scanned) and create two equalized PDF files and upload them to avoid any space constraint.

5. General Definitions

5.1 General Definitions

- 5.1.1 *Department* means Odisha Police under Home Department, Government of Odisha.
- 5.1.2 *Government* means Government of Odisha.
- 5.1.3 *Bid / Tender Inviting Authority* is the Odisha Police or authorized person of Odisha Police (A.I.G. of Police (Provisioning), Odisha, Cuttack, who on behalf of the User Institution/Government or the funding agencies calls and finalize bids and ensure supply, installation and after sales service of the equipment's procured under this bid document.
- 5.1.4 *Tender Evaluation Committee & Technical Committee* are Committees authorized by the D.G. & I.G. of Police, Odisha, Cuttack to decide on the purchase of the items to be procured by the Odisha Police.
- 5.1.5 *User Institutions* are the Odisha Police under Home Department, Govt. of Odisha for which the items under this bid is procured.
- 5.1.6 *De-recognition/ Debarment* – the event occurring by the operation of the conditions under which the bidders will be prevented for a period of 3 years from participating in the future bids of Tender Inviting Authority, more specifically mentioned in the Specific Conditions of Contract and General Conditions of Contract of this bid document, the period being decided on the basis of number of violations in the bid conditions and the loss/hardship caused to the Tender Inviting Authority on account of such violations.

6. Objective

The primary objective for procuring Automatic Forensic Sperm Detection System (Automated Slide Scanner for Sperm Detection System for a Motorized Upright Fluorescence Microscope) for Odisha Police is to enhance the efficiency, accuracy, and reliability of forensic investigations related to sexual assault cases and must be able to serve following objectives:

- i. **Automated & Rapid Sperm Detection** – Reducing manual effort and increasing detection speed.
- ii. **High Accuracy & Sensitivity** – Ensuring precise identification of sperm cells for forensic evidence.
- iii. **Improved Case Turnaround Time** – Enhancing efficiency in forensic labs for faster case resolution.
- iv. **Standardized & Reliable Analysis** – Minimizing human error and ensuring reproducibility of results.
- v. **Compliance with Forensic Standards** – Adhering to national and international forensic guidelines.

7. Scope of Work:

The primary reason to procure a Automatic Forensic Sperm Detection System integrated with a Motorized Upright Fluorescence Microscope for the Odisha Police Department is to enhance forensic analysis efficiency, improve the accuracy of sperm detection in sexual assault cases, and reduce case processing times. It will support standardized forensic procedures and ensure compliance with legal and scientific standards, thereby strengthening criminal justice outcomes. Additionally, it should align with modern forensic standards, strengthening the department's investigative resources. It should have following technical specification.

Sl No.	Specification	Value
1.	<u>Part-A</u>	<p>Fully motorized Upright fluorescence microscope with apochromatically corrected beam path for fluorescence applications.</p> <p>Motorized stand with Z drive step resolution 10nm or better with adjustable height stop and torque of focusing. Objective specific focusing speed adjusting for scanning and capture.</p> <p>The microscope should have built in TFT/ LCD monitor to display the microscope parameters and controls the motorized functions like light manager, contrast manager, motorized nosepiece, motorized fluorescence turret etc.</p> <p>Motorized Microscope should have integrated light and contrast manager.</p> <p>Revolving Motorized Septuple nosepiece for accommodating up to 7 Objectives or better.</p> <p>RGB tunable and pure white tunable LED illumination for Transmitted light applications.</p> <p>Objectives for Bright field and Fluorescence of magnifications 10x (N.A:0.25), 20x(N.A: 0.50) for samples with cover slip, 20x Epi-Plan (N.A: 0.50) for samples without cover slip and 63x (N.A: 0.95) should be quoted.</p> <p>Motorized scanning stage for fast and convenient Sperm cell detection with scan speed of at least 10 fields per second or better.</p> <p>High through-put auto slide loader for unattended scan and detection of sperm cells for at least 75 slides per run or better.</p> <p>Trinocular phototube with 15° inclination and a high field of view of minimum 23mm should be offered with 10X focusable eyepieces or better.</p>
2.	<u>PART B:</u> <u>Imaging Workstation</u>	Camera: Ultra High-resolution camera with 4000 x 3000, 31 fps, 12 Megapixel or better, 12 Bit, minimum 1 inch color camera with minimum pixel size 3.45 µm x 3.45 µm or better and exposure time between 80 µs and 270 s with global shutter or better.
3.	<u>Workstation</u>	<p>Intel (R) Core i9 Intel Core i9-10900X (10-Core,3.7 Ghz ,4.7 Ghz Turbo,19.25MB, HT ,165 W) or better</p> <p>16 GB (2x8) RAM DDR4 or better.</p> <p>10GB graphics card- NVIDIAQuadro RTX 3080 or better</p> <p>Monitor 30" TFT or higher with 1920X 1080 resolution or better</p> <p>256 GB SSD, Hard Disk 1TB or higher.</p> <p>3 X PCIe slots and 1 X PCI slot or better.</p> <p>4 USB3.0 and 4 USB2.0 ports or better.</p> <p>950W chasis.</p> <p>Original Window 10 Pro 64 bit.</p> <p>Attached with UPS.</p> <p>Key Board with mouse and Printer (or better).</p>

	Accessories should be provided along with the instruments	AC (1.5 Ton) branded company Computer table -01 Wooden stool -01
4.	<u>Automated Sperm Detection Software</u> The offered software should perform High speed sperm / sperm nuclei scanning.	Unattended sperm scanning up to 75 slides or more. Artificial Intelligence / Deep Neural Network based software for precise identification of region of interest and record of position. Identification and counting of spots/sperms with their position. Graphical presentation of every process. User trainable and customizable classifiers. Results to be stored with images and should be displayed in gallery or convenient histogram and scatter plots. Centered relocation of sperm at different magnification for observation.
5.	Report / Archiving Software.	<ol style="list-style-type: none"> 1. Dedicated software for Report generation, analysis, archiving and classifying with institute/university logo or other related images. Scheduled backup and notification if data is not getting saved. Dedicated software for Report or case data searching and sorting. Editing can be done for a work group or multiple cases. Provides security check so that unknown user can't modify data. User Defined report generation with graphic interface. 2. The above system should be upgradable for digital pathology, automated metaphase finder and karyotyping software to identify male chromosomes in the sample if require 3. The system should supply with required consumables for demonstration and installation purpose.
6.	Warranty:	3 years or more.

8. Qualification Criteria

The bidder must meet the below eligibility criteria to be considered for further shortlisting purpose

Sr. No.	Basic Requirement	Specific Requirement	Documents Required
1	Entity Type	<p>Bidder must be Company registered under Companies Act, 1956 or any of its amendments thereafter</p> <p>or</p> <p>Partnership registered under Indian Partnership Act, 1932 or any of its amendments thereafter</p> <p>or</p> <p>Proprietor registered under Shops and Establishment Act</p>	<ul style="list-style-type: none"> • Copy of Certificate of incorporation / Registration certificate with relevant authority • PAN Card • GST Registration certificate and GST Clearance certificate upto March 2023
2	Existence of Firm	The Bidder should be in business in the supply of Automatic Forensic Sperm Detection system to govt agencies for at least	<ul style="list-style-type: none"> • Work order or Agreement Or • Payment Proof Or

		last Five (5) years as on date of bid submission	<ul style="list-style-type: none"> • Completion Certificates or Satisfactory Certificate Or • Delivery Challan
3	Turnover	The Bidder shall have average annual turnover of not less than 5 crores and Bidder shall have average annual turnover of not less than 10 crores in last three consecutive financial years (Financial years 2021-22, 2022-23, 2023-24)	CA Certificate/ Audited Balance Sheet clearly stating turnover
4	Relevant Experience	The bidder must have supplied at least 1 nos of Automatic Forensic Sperm Detection system/ Similar product for any Govt Agencies in last 3 years as on date of bid submission.	Work order copy from the client stating the quantity of equipment supplied
5	Blacklisting And Pending Petitions	Bidder shall not have been debarred / blacklisted till bidding period by Central Govt. / State Govt. / Public Sector Undertaking / any other Local Body or body established under or in the control of the Central or state Government on the date of submission of their Bid.	Self-certification on furnished with 20 rupees stamp paper

The bidder meeting the criteria mentioned above shall be eligible for financial bid opening.

9. Evaluation of Bid

Selection may be made on LCS Least Cost Selection method, which means the bidder quoting the lowest rate shall be identified as preferred bidder.

10. Deliverables

Vendors need to supply the required qty of Automatic Forensic Sperm Detection system within 30 days from date of issuance of Purchase order.

11. Payment Terms

100% payment on successful delivery, testing and training of Automatic Forensic Sperm Detection system

12. Performance Security

The Bidder shall be submitting the Performance Security equivalent to 5% of the agreement value in the form of a Bank Guarantee

13. Conflict of Interest

Conflict of interest exists in the event of conflicting assignments, typically monitoring and evaluation of the mandate being executed by the selected bidder in the future.

14. Anti-corruption Measure

- a) Any effort by Bidder(s) to influence the Authority in the evaluation and ranking of commercial proposals, and recommendation for award of contract, will result in the rejection of the proposal.
- b) A recommendation for award of Contract shall be rejected if it is determined that the recommended bidder has directly, or through an agent, engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the contract in question.
- c) In such cases, the Authority shall blacklist the bidder either indefinitely or for a stated period of time, disqualifying it from participating in any related bidding process for the said period.

15. Legal Jurisdiction

All legal disputes between the parties shall be subject to the exclusive jurisdiction of the Courts in Cuttack only.

Annexures

16. Annexure 1 : Technical Bid Format

Technical Bid Format

(To be submitted in Technical Bid Envelope)

The documents have to be arranged serially as per order mentioned below:

1	Name of the Firm/Company	
2	Name of the Authorized Signatory and Designation	
3	Address & Contact Details	
4	E-mail ID	
5	Registration Details: Company / Firm	Certificate of Incorporation/ Registration PAN Card GST Registration Certificate Bank Account & RTGS details
6	Experience in similar field	Work order/Contract Agreement Copy Filled up for per Annexure-2
7	Annual average turnover of Bidder of Rs 5 Crs. And OEM 10 Crs. in the last three financial years (i.e. 2021-22, 22-23 and 23-24)	Annual Turnover Statement certified by Chartered Accountant as per Annexure-3 Filed IT return of last 3 years
8	The Firm/ Agency should not have been blacklisted/banned by Central/State Govt. & PSU/ CPSEs	Self-certification on furnished with 20 rupees stamp paper
9	Submission of undertakings for Bid terms & conditions acceptance.	To be submitted on the Letter Head
11	Non-refundable RFP Document Fee of Rs.590/- (500 + 90 (18% GST) = 590	In favour of A.I.G. of Police (Prov.), Odisha, Cuttack payable at Cuttack.
12	Earnest Money Deposit (EMD) of Rs.5,00,000/- along with Offer Document.	Demand Draft In favour of A.I.G. of Police (Prov.), Odisha, Cuttack payable at Cuttack.

Place:

Date:

Bidder's Signature

17. Annexure 2:Summary of Technical Capability

(To be submitted in Technical Bid Envelope)

Name of the Assignment	Name/ Address of the Organization	Date of Award of Assignment	Value of Work Order In Rs.

Note: Please furnish the Work order/Contract Agreement copy only in support of the information mentioned above.

Place:

Date:

**Bidder's
Signature**

18. Annexure 3: Financial Capability of Bidder/Agency Annual

Turnover Statement (To be signed by Certified Chartered Accountants)

(To be part of Technical Bid Envelope)

The Average Annual Turnover for the last three financial years of M/s _____ Are given below and certified that the statement is true and correct.

Year	Annual Turnover in Rs.	Average Annual Turnover
2021-22		
2022-23		
2023-24		

Average annual turnover for the above three years in Rs. (In words _____

Date:

Signature of Auditor/

Chartered Accountant

Place:

Name:

Seal:

19. Annexure 4: Template of financial bid

(To be submitted in Financial Bid Envelope)

SI No.	Description of Item	Qty	Amount Quoted by the bidder (INR)
1	Cost of Automatic Forensic Sperm Detection system	1	
Total			

Note:

1. The quoted rates shall be inclusive of Logistics, packaging and training and all other conditions mentioned in the RFP document.
2. All Quoted rate are inclusive GST.

Date:

Place:
Bidder's Signature

20. Annexure 5 : Format for Pre-Bid Queries

Name of the Bidder				
Name of the Sender				
Designation				
Sr. No.	Page no.	Clause Reference	Clause Description	Modification/ Clarification required

Manufacturer's Authorization Form (MAF)

(To be submitted on OEM Letterhead)

Ref. No. _____ Dated _____

To

The A.I.G. of Police (Provisioning),
Odisha, Cuttack.

Dear Sir,

Tender Reference No./ NIT / GeM Bid No. : _____

Name of the item:

We M/s. _____ who are established and reputable manufacturers of
_____ do hereby authorize M/s. _____ (Name and address of Agent / Dealer) to participate in the above tender.

We hereby extend our technical assistance to the bidder during installation and inspection of the product.

We hereby certify that, the equipments being sold would not be declared End of Support (EoS) or become obsolete in the next 5 years. Also, we certify that the products being sold would be covered under Warranty / Support and OEM support will be available for ____ years (as specified in the GeM Bid / Tender / NIT No.) from the date of installation, even in the case, the bidder becomes "Out of service".

We have studied the requirements of the product and confirm that we will adhere to the specifications of the tender and quality plan and extend all support during the inspection and provide documentary evidence at the time of inspection for the verification by Client/Client's representative.

Yours faithfully

(Name)

For and on behalf of M/s. _____

(Name of manufacturers)

Certificate for Prevention of Corruption Act / non Debarment Certificate

"I certify that I have not committed any offence-

(a) Under the Prevention of Corruption Act, 1988;

or

(b) The Indian Penal Code or any other law for the time being in force, for causing any loss of life or property or causing a threat to public health as part of execution of a public procurement contract.

(c) I have not been debarred by any Central / State Government Organization/Bodies for the last 3 years."

Signature with designation.

Please note that non-submission of this certificate will lead to disqualification.