



Government of West Bengal
Office of the Administrator Forensic Science Laboratory
Home & Hill Affairs Department
37/1/2 Belgachia Road, Kolkata-700037

Memo No: 306/FSL/ET-06(2nd Call)/2024-25

Dated: 24.02.25

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Log-on for submission: <http://www.wbtenders.gov.in>

NOTICE INVITING e-TENDER

Tender e-NIT No - SFSL/KOL/ET-06/2024-25 (2nd Call)

The Administrator, FSL, Kolkata invites e-Tender for procurement of following **Instruments** detailed in the table below for FSL, WB from reputed Manufactures/ Direct Importers/Authorized Distributors having desired prequalification eligibility credential for execution of supply and satisfactory installation of items of similar nature and requisite financial capability. The technical bid in Part-I would require the bidder to only qualify for the next stage and the Part-II comprising financial bid would determine final selection of bidder. (Collection and Submission of Tender is to be made online through the website - <https://wbtenders.gov.in> only).

Minimum period given to the contractors/bidders for submission of e-bids is counted from the date on which the notice inviting tender including e-tender is actually published in the website.

• SL.	Name of the items	QTY	Earnest money to be deposited (Rs.)	Cost of Tender Documents (Tender fees)	Eligibility of Tender
1	Ballistics Data Management System	1	40,000	Nil	Do
2	X-Ray Fluorescence Spectrometer	1	80,000/-	Nil	Do
3	Forensic Image & Video Enhancement and Analysis System	1	40,000/-	Nil	Do
4	Image Analyser Software	1	10,000/-	Nil	Do
5	Forensic Optical Comparator	1	6,000/-	Nil	Do

- **N.B:** It is advised that tenderers willing to participate only for some of the items in the tender, should opt for availing concession in the beginning before generating challan and then pay EMD for the participating items only.

Terms & Conditions

1. General Instructions: In the event of e-filing, intending bidders may download the tender documents free of cost from the website: <http://wbtenders.gov.in> directly with the help of Digital Signature Certificate.

2. Submission of Bids:

Both Technical Bid and Financial Bid are to be submitted concurrently duly digitally signed, in the website <http://wbtenders.gov.in>. All papers must be submitted in English language.

3. Time Schedules:

The time Schedule for obtaining the bid documents, registration with the tendering authorities, the submission of bids and other documents etc. will be as per the list provided in clause no 19 as given below.

4. Eligibility Criteria:

Only Manufactures/ Direct Importers/Authorized Distributors are eligible for quoting. The price is to be quoted in **Indian Rupees** including cost of insurance, packing, forwarding, freight charges, clearing charges and installation of the new instruments. The GST and other taxes are to be quoted separately in the BOQ. Agency commission is not permissible.

5. Submission of Tender:

The tender is to be submitted in Two Bid System (Technical Bid or Bid A & Financial Bid or Bid B).

(A) Technical Bid or Bid A:

Statutory Cover containing the following documents:

File containing Technical Bid only – single file with multiple scanned pages containing Statutory and My documents separately.

BID A”: PART I

(SINGLE FILE MULTIPLE PAGE SCANNED

Essential Requirements of the Tendering Firm for participation shall contain all papers related to the essential requirements of the Tenderer for participation in the tender viz.

SL. No.	<u>Description</u>	Page no.
1	Duly filled in CHECK LIST in the prescribed format. Page number of documents must be mentioned in the check list before uploading the same	
2	Application in the prescribed format given in Annexure- I	
3	Authorization letter of signatory from Company in Annexure- II	
4	Copy of agreement between the manufacturer and the Distributor in Annexure- III	
5	No Conviction certificate in the form of an Affidavit as per Annexure- IV	

BID A”: PART II(INSTRUCTION TO THE BIDDERS):

Technical specifications of Instrument (in PDF/Excel format, must mention make, model, exact features of the offered item against each point given in the specification chart). **Improper filling &/or suppression of facts/false statement will lead to disqualification and penalty in the form of permanent black listing.**

MY DOCUMENTS: Containing the following documents:

Essential Requirement of the Tendering Firm for participation shall contain all papers related to the essential requirements of the Tenderer for participation in the tender viz.

Sl. No.	Category	Sub Category	Sub Category Description	Page No
	Certificates	AI. Certificates	GST Registration Certificate	
			PAN Card of the authorized signatory	
			Professional Tax Registration Certificate	
			PUC in respect of the manufacturing unit	
	COMPANY DETAILS	BI. COMPANY DETAILS 1	Registration with Registrar of Companies	
			Certificate of country of origin	
			Trade License in the name of participating firm	
			Manufacturing License with validity	

	CREDENTIAL	C1: CREDENTIAL 1	Import License with validity (for importers)	
		C2: CREDENTIAL 2	Manufacturer's guarantee (in case of Distributors and Direct Importer, to be obtained from manufacturer)	
			A declaration in respect of existence of a fully equipped service centre in or around Kolkata in respect of the relevant item.	
			Tenderers under this category shall have satisfactorily completed supply & installation of the quoted items during the last 3 (three) years prior to the date of issue of this Tender Notice to the Govt. or Govt. undertaking Institution in the State of West Bengal or other State or States or Organisation/ Institution of the Govt. of India. The Completion Certificate, Work Order, Value of supply, Date of supply and detail communicational address along with contact number of the Client should be treated as valid Credential and to be submitted with the technical bid documents.	
D.	FINANCIAL INFO	PAYMENT CERTIFICATE 1	Income Tax Returns submitted for the last three years	
		Audited P/L & BALANCE SHEET	P/L & Balance sheet of the last three years	

(B) Financial Bid or Bid B :

COVER "B": Separate file containing financial document only.

Financial Bid : BOQ in INR (in excel sheet)

The folder marked as "Financial Bid" shall contain All INCLUSIVE PRICE in INR only and should include base price along with the cost of allied works and services which are to be undertaken (like installation, commissioning of equipment etc), cost of insurance, packaging, forwarding, delivery charges, clearing charges of the new instrument to be purchased. The GST and any other applicable tax, should be quoted separately.

The tenderers are required to submit the hard copies of Cover A (Transaction document of EMD, General Documents and Technical Specifications) as per schedule described in the time line vide clause 19, preferably by speed post/ Courier, to the office of the Administrator, FSL, Kolkata.

Submission of hard copy of Cover A to the office of the Administrator, FSL, Kolkata is for reference only while examining the technical bid on line and will not be treated as substitute for on line submission. Submission of hard copy of Bid B is totally prohibited.

6. Evaluation of Tender:

During tender evaluation process, "Bid A" will be opened first. Those tenderers who would qualify the Statutory & Non-Statutory requirements on the basis of technical and commercial documents

will be identified and "Bid B" i.e. financial bid of only those qualified bidders will be opened. Verification of hard copies of the audited balance sheet and profit & loss Accounts of the tenderers for the last three years will be made if deemed necessary before opening the Financial Bid (Bid B) of the technically qualified bidders. If found suitable on the basis of above prequalification, the tenderer quoting the lowest rate, will be considered as successful.

7. Earnest Money:

It is advised that tenderers willing to participate only for some of the items in the tender, should opt for availing concession in the beginning before generating challan and then pay EMD for the participating items only. The earnest money of the tenderer is liable to be forfeited if the tenderer withdraws his tender as a whole or for any particular item or items at any stage after opening of the tender or fails/ refuses to furnish Performance Bank Guarantee within the stipulated time. EMD as specified in the above table against the items should be deposited online in the pooling Account of Government of West Bengal maintained at ICICI Bank, RN Mukherjee Road Branch in the manner as prescribed in Government Order No. 3975-F(Y) dated 28/07/2016. (Order copy is available at the site-www.wbfin.nic.in) Hard copy of Bid A should reach the office on or before the stipulated date as mentioned in clause 19.

8. Rate:

The price is to be quoted for one number of item in INR only including cost of insurance, entry tax, packaging, forwarding, delivery charges, clearing charges and installation of the new instrument. The basic rate should be furnished inclusive of Transportation Cost, Insurance, Testing Charges, incidental charges etc. but excluding GST and any other applicable taxes etc. which should be quoted separately in the template for Bill of Quantities (BOQ).

9. Order & Supply:

The tendering authority has the liberty to ask for performance demonstration of any item during any stage of the tender process, before placing order for supply. In case of dissatisfaction, the authority will have to right to disapprove the offer of L1 bidder. Orders for supply of the approved products will be placed with the successful tender and such supply shall have to be made in such instalments as may be fixed or spread over the period to be transported in such packaging so as to avoid damage to primary package of manufacturer. The successful tender will have to supply within the specified time schedule as noted in the purchase order and as assured at the time of selection as supplier.

10. WITHDRAWAL/CANCELLATION & PURCHASE POLICY OF TENDERING AUTHORITY:The tendering authority reserves the right to withdraw any item from the tender at any stage. The selection of such item, if already made in favour of any tenderer, shall be treated as cancelled. The tendering authority reserves the right to reject or accept any tender or part thereof at any stage or to split any tender without assigning any reason. Withdrawal of tender or any revision after submission of tender by the tenderer will not be allowed.

Purchase will, however be made following the existing purchase policy of the Govt. of West Bengal and its amendment(s) made from time to time. The purchase policy of the State Government as provided in the West Bengal Financial Rules, the policy of price preference in particular incorporated under Notification No. 10500-F dated 19.11.04, 5400-F (Y) dated 25/06/2012 and subsequent relevant orders should be observed in considering the tenders.

11. Important Instruction with regard to Submission of Tender:

The rate should be quoted in Indian Rupees for a particular brand or model (model no. of the offered item only must be mentioned in the appropriate column of the 'Tender Form'. Alternative offer will not be accepted). The tender shall be cancelled for the Quotation of item without its brand name, model, model no. etc. Detail information regarding the manufacturer and the item quoted in the 'Tender Form' should be furnished.

12. Spare Parts:

The Bidder will undertake that supplies of necessary maintenance of machine and spare parts will be made available for all items/machine and the complete system for at least six years on a continuing basis. However, this does not relieve the supplier of any warranty obligations under the contract.

13. Guarantee / Warranty Period:

- i) The machine should be covered by free on-site comprehensive Warranty for at least 03 (three) years and may provide extended free warranty for one year to the satisfaction of the Administrator, FSL, Kolkata from the date of successful installation of the instruments.
- ii) The supplier should undertake to execute AMC/CMC for three years after warranty is over at the cost of not more than 10% of the cost of instrument which will be paid during the period of AMC/CMC. **Extended AMC price should not be included in the quoted price of the instruments.**
- iii) All faults appearing and their rectification shall be periodically advised to the institute, the period being not more than two weeks.
- iv) Any lacuna or lacunae noticed in the functioning of the installation as a result of any design or other feature shall be rectified by the supplier free of cost within 48 hours of call log.

14. After Sales Services and Maintenance Contract:

After sales service must be provided by the supplier, during and after warranty period of the equipment. The selected vendor or his authorized servicemen has to attend the machine within 24 hours of Call Log. It is desirable to have a fully equipped service center in or around Kolkata.

15. Delivery, Installation and Commissioning

- i) Delivery of the machine at the purchaser's premises shall be completed by the Supplier in accordance with the terms specified by the purchaser.
- ii) The installation, testing and commissioning of the proposed system shall be completed in accordance with the order.
- iii) **All items are to be delivered within six weeks from the date of placement of order.**
- iv) In case of distributor, the firm should be direct distributor of manufacturing unit. **Sub distributor authorization by distributor will not be accepted at all.**

16. Penalty Clauses:

PENALTY FOR FORMATION OF CARTEL OR FURNISHING OF FRADULENT/MISLEADING DOCUMENTS: If during the tender process or at any stage during the validity of the tender period, it is found that a tenderer(s) has formed a cartel in what so ever form or name to fix up the rates or suppliers to the detriment of the fairness of the tender process, penal measures shall be initiated. Similar penal measures shall also be initiated against those tenderers who have submitted false/misleading/fraudulent documents or made incorrect declarations. The penal measure will be forfeiture of Earnest Money in addition to any other legal action against the firm.

17. Performance Bank Guarantee:

The performance bank guarantee will be mandatory for all suppliers and will not be waived in any case. The successful tenders shall be required to furnish the 'Performance Bank Guarantee' from any Nationalized/Scheduled Bank acceptable to Govt. of West Bengal for the period of **free warranty period @ 3% of quoted base rate** for which the tenderer has been selected as supplier. The performance bank guarantee will be transferred to the bidder's account after free warranty period.

18. Payment Terms:

Payment will be made electronically by Govt. of West Bengal approved system after execution of due supply and successful installation and commissioning subject to:

- i. Submission of Performance Bank Guarantee in terms of Clause 17 and subject to penalty clause in terms of Clauses 16.
- ii. Supply of the materials as per specification as provided in the tender documents and the catalogue. Supply of the materials must be made within the stipulated period as specified in the work orders.
- iii. On being selected, the successful vendors will have to submit one application to the Administrator, FSL, Kolkata, stating the name of the payee/recipient, Bank account no with IFS code of the payee/recipient for making e-payment. Payment will only be released after satisfactory installation and verification of following items-
 1. Supplier's invoice in original.
 2. Challan and installation certificate.
 3. Any other thing of importance on the discretion of Authorities.

19. Dates & Information:

Sl. No.	Particulars	Date & Time	
1.	Date & Publishing of NIT online through the website https://wbtenders.gov.in	25.02.2025 at 10:00 a.m.	
2.	Date of pre-bid conference	N/A	
3.	Date & Time for downloading of Tender documents through the website https://wbtenders.gov.in	Start	25.02.2025 at 10:00 a.m.
4.	Date & Time of Submission of Tender documents through the website https://wbtenders.gov.in	Start	05.03.2025 at 10:00 a.m.
		End	18.03.2025 at 04:00 p.m.
5.	Date, Time & Place of opening of Technical Bid through the website https://wbtenders.gov.in	20.03.2025 at 04:00 p.m. Office of the Administrator, FSL.Kolkata, Kolkata-700037.	
6.	Date of Uploading the Final List of Technically Qualified Bidders through the website https://wbtenders.gov.in	To be informed later	
7.	Date, time & Place of opening of Financial Bid through the website https://wbtenders.gov.in	To be informed later	
8.	Date of Uploading of List of Bidders along with their Rate Offered through the website https://wbtenders.gov.in	To be informed later	

- **The Administrator, FSL, Kolkata, reserves the right to change the above schedule in case of any exigencies.**

20. Validity of Tender: i) The tender will remain **valid up to 1 (one) year** from the date of finalization of tender **which can be extended for a period of 6 months**. Any objection raised by any bidder in this respect will not be entertained. No informal tender will be entertained in the bid further, ii) During the scrutiny, if it comes to the notice of Tender Inviting Authority that the

credential or any other paper found incorrect/manufactured/fabricated, that bidder would not be allowed to participate in the tender and that application will be out rightly rejected without any prejudice, **iii)** Prospective bidders must take training from authorized agencies before submission of their bids.

21. NO-CONVICTION CERTIFICATE:

“No conviction certificate” in the form of an affidavit is to be submitted in the prescribed Pro-forma as Annexure-IV attached herewith from Notary Public/Judicial Magistrate/Executive Magistrate issue not earlier than 11 months from the date of publication of NIT.

22. Technical Specifications: Technical specification of items Sl no 1 to 13 are enclosed separately as **Annexure-“A”**.

23. The Tender Inviting Authority reserves the right to cancel the N.I.T. at any time due to unavoidable circumstances and no claim in this respect will be entertained.

Sd/-
Administrator
Forensic Science Laboratory
West Bengal

Annexure-“A”

Item No. 1 Ballistics Data Management System

General Specifications:

VELOCITY MEASUREMENT SYSTEM

The system should have the provision to measure any velocity in the 'rang' of 10 – 2000 m/s (or more) with an accuracy of up to 0.01%. The system should also have the provision of measuring velocities at a minimum of three points of the trajectory simultaneously so as to evaluate the muzzle velocity, striking velocity and remaining velocity. The non-contact velocity measurement equipment will consist of optical detectors, light sources, multi-channel timer units, workstations and various connectors, cables etc. as described in the subsequent section. The calibration protocol of these measurement systems should also be provided and suitable training is given during the pre-dispatch inspection stage.

1.1: OPTICAL DETECTOR – 06 Nos. (3 sets)

- Projectile calibre: 4mm to 10mm or more
- Projectile Velocity: up to 1500 m/s
- Sensitivity: The optical detectors should be able to work in ambient light and respond to less than 0.1% change in ambient light level.
- Operating temperature: up to 60° C
- Provision of automatic/fixed alignment with the light source
- Mountable on rails with brake/locking system
- Apparatus must be sealed against moisture.
- Commissioning, testing and training at a site

1.2: LIGHT SOURCE – 06 Nos.

- Coupled with optical detectors
- Rugged construction
- Power supply: 200 – 260v AC $\pm 10\%$, 50/60 Hz
- Humidity: up to 95%
- Operating temperature: up to 60°C
- Mountable on rails with brake/locking system
- Commissioning, testing and training at the site

1.3: MULTI-CHANNEL COUNTER – 1Nos.

- Each multi-channel counter will support optical detectors (minimum 3 sets)
- Storage capacity: ≥ 256 velocities or rate of fire measurements
- Rate of fire: 1000 rounds per minute or more
- Operating temperature: up to 60°C
- Humidity: up to 95%.
- Sufficient cable for minimum 100 m installation.

1.4: WORKSTATION (1 Nos.) AND ACCESSORIES

- Workstations comprising of latest and high-end processors along with hardware accessories like high-end graphics, data writers (DVD/CD), wireless keyboards, mouse, external memory devices, Ethernet modules, high-end printers etc. The mainframes should be interconnected.
- OS and other s/w: High-end graphics s/w, Windows (latest), data acquisition s/w, range control, office suites, networking.
- Commissioning and testing at the site.

1.5: UNIVERSAL BREECH SYSTEM AND STANDARD BARRELS (1 EACH)

- One universal receiver for above barrels, recoil rest with barrel support and laser alignment tool.
- Remote firing units and security equipment for the above.
- Cleaning and spares kit.
- Mountable on rails with brake/locking system
- Commissioning, testing and training at the site

1.6: STANDARD BARRELS

- One test barrel (rifled) as per ANSI/SAAMI standard for 5.56x45 mm ammunition.
- One test barrel (rifled) as per ANSI/SAAMI standard for 7.62x51 mm ammunition.
- One test barrel (rifled) as per ANSI/SAAMI standard for 7.62 x 54 mm ammunition.
- One test barrel (rifled) as per ANSI/SAAMI standard for 7.62X39 mm ammunition.
- One test barrel (rifled) as per ANSI/SAAMI standard for 9x19 mm ammunition.
- Cleaning and spares kit

1.7: WARRANTY

- Minimum 3 years warranty with an understanding to undertake AMC for further 3 years at an annual rate of not more than 10% of the cost of equipment which will be paid during the period of AMC.

Item No. 2 X-Ray Fluorescence Spectrometer

General Specifications:-

S. No.	Technical Parameter	Specifications
01	H.V. Generator	H V generator should be 3 KW or more, 60 KV (with 1 kW steps), 100 mA (with 1 mA steps), Stability of the Generator should be $\pm 0.005\%$ (for both kV and mA, against $\pm 10\%$ input variation) or better.
02	Excitation Source/probe beam	Rhodium (Rh)/ Tungsten (W) anode based X-ray tube (about 4 kW) capable of operating up to 40 kV, suitable for analysis of low Z and high Z elements. Appropriate filters for detection of various elements with a wide difference in atomic numbers.
03	Optics	Optics should be best suitable for analyzing powder and solids samples. The system should have proper dust trap for protection of the optical chamber.
04	Detector	High Resolution & large area Fast Silicon Drift Detector (Fast SDD) with the capability to acquire X-ray data/count rate greater than 100 kcps (kilo counts per second).
05	Operating environment	Temperature: $-5\text{ }^{\circ}\text{C}$ to $+50\text{ }^{\circ}\text{C}$ or more; Humidity: 10 % to 90 % relative humidity non- condensing.
06	Resolution	$<145\text{ eVFWHM @ }5.95\text{ keV Mn K}\alpha\text{ line.}$
07	Elemental Range	F(9) to U (92) OR Mg(12) to U (92)
08	Sample Chamber and Automatic Sample Changer	The system should be offered with at least 12 positions Automatic Sample Changer. Sample chamber should be easily accessible for the user for day to day cleaning purpose.
09	Vacuum Pump	Single vacuum pump with dust trap should be offered
10	Spectrometer Chamber	Should have a system for Thermal stabilization preferably heater system to keep optical chamber temperature steady.
11	Data acquisition	Data acquisition and user-friendly instrument operation and data processing and file storage software and hardware (PC/Monitor/Printer/Licensed software) should be offered.
12	Measurement area	Minimum spot size shall be 5 mm or less
13	Safety provisions for the instrument and	X-ray enabling only in the presence of the sample using an IR proximity sensor. Safety provision for X-ray detector. Shock and

	operation	water-resistant case.
14	Data storage and transfer	Internal memory: 500 GB or better Data transfer : Through USB port for connection to a computer for data transfer. The instrument software should support Microsoft windows 8/10 or higher version of the PC for data transfer and readable through Microsoft-Word/Excel.
15	Operating Environment /Power supply	Line Voltage: 230V±10%, 50/60Hz ± 5% (without any step-up or step-down transformer) with protective RF ground. Appropriate DC power supply cord with an adapter to operate from an AC power source (100-240 VAC, 50-60 Hz.) shall be provided.
16	Device/ instrument software	The operating system of the instrument shall be licensed and Microsoft Windows-based software. There should be a backup of all essential software related to OS and application software in the form of the flash drive. Spectrometer software should be compatible with Window 8/10, 64bit, including multipoint background correction, line overlap correction, ratio calculation, calibration curve, qualitative analysis incorporating matrix correction, recalibration program, data storage & retrieval facilities.
17	Application software for composition analysis	Built-in calibration check at the start including standard specimens. Automatic grade identification using a database of standard grade library (≥300 grades) covering various International standards. Standard Library:- It shall include grade library.
18	Training	Hands-on training including details of hardware components, OS, application software, calibration checking, chemical composition analysis of various standard specimens and others, troubleshooting, report generation, data transfer and saving the spectra and composition results to other computers through USB.
19	Certificates/ Manuals	ISO Certificates. Full details of authorized service partner in India for providing after-sales technical support.
20	Consumable Accessories	As per requirements of the instrument, consumables & accessories should be supplied along with equipment for the smooth functioning of the XRF Analyzer.
21	Warranty	Minimum 3 years warranty with an understanding to undertake AMC for further 3 years at an annual rate of not more than 10% of the cost of equipment which will be paid during the period of AMC
22	System Accessories	Suitable UPS (15 KVA, 30 min back up) to run the system and any other recommended items or support system. Suitable branded computer (1 no) with the printer, Suitable cooling system (water chiller–1 no). Sample holders.

Item No.3 Forensic Image & Video Enhancement and Analysis System

General Specifications:-

- A computerized system with preloaded software.
- Capture Uncompressed/compressed audio-data from a variety of video sources including CCTV.
- The system should have editing features such as crop, flip, rotate, re-size, de-interlace.
- The system should have the capability to extract and compare the frames.
- Pre-processing of the video signal and image clarification.
- Video de-multiplexing and stabilization.
- Process Digital (DVR) or Analog Video Evidence.
- DVR security video-decode digital video (DVR) files from proprietary security systems into the uncompressed video.
- Enhance dark video and poor quality video security and surveillance video.

- De-interlace field recorded forensic video to avoid blurry stills printed from video frame averaging.
- Facility for enhancing image/video by Laplacian filtering, Gaussian, Bilateral, Wiener, Deblocking filters or other suitable filters for forensic applications.
- Support for enhancement/Noise suppression (Signal SNR up to 4dB).
- Variable slow motion speed adjustment to compensate for time-lapsed video.
- The system should be compatible with digital and analogue video, still image and should be scalable with different modules.
- The system should have the facility to analyze with photogrammetric tools and measurement tools.
- Perpetual licence for the software with free updates.
- Suitable hardware to meet the above requirement.

Item No.4 Multi Spectral Imaging System (Video Spectral Comparator)

1. General Specifications

- High-Resolution CCD/ digital FireWire
- Color Camera of 1.3 megapixel and above
- Camera Spectral Response range 74 approx. 350 – 1100 nm
- Hyper Spectrometer

2. Optics

- 30" flat screen monitor
- Magnification up to x170
- Field of view 74 approx. 200 x 150 nm

3. Illumination

- Long Wave incident UV at 365 nm
- Medium Wave incident UV at 312 / 313 nm
- Short Wave incident UV at 254 nm
- Long Wave transmitted UV at 365nm
- Visible & IR Incident High-Intensity Light
- Visible / Infrared Transmitted Flood Light
- IR illumination for Anti-Stokes features detection
- IR Luminescence

4. Image Comparison & Transformation

- Superimposition of Live and stored image with the adjustable mix, 0 to 100%
- Variable Speed Image storable between a live and a stored image
- Left to right image reversal (Horizontal image reversal)
- Top to bottom image reversal (Vertical image reversal)
- Grey level reversal (Positive to negative)
- Image rotation through any angle
- Contract / Stretch
- Image processing, Image quality enhancement filters, Multi-layer imaging,
- IPI decoder, OVI viewer, MRZ decoder

5. Image Measurements

- Distance between two points
- The area within a user-defined box
- The radius of a circular feature from three peripheral points
- The angle between two lines
- Area of user-defined shape

- Area of selected features i.e. An alphanumeric character or logo

6. Data Base and Computer Hardware

- Passport database with a free update for the next 5 years
- Bank Note database with a free update for the next 5 years
- Reputed Brand of PC Workstation of latest model with latest OS, Monitor and colour laser Printer with 5 KVA Online UPS with 30 minutes battery backup.
- Keyboard and Mouse.
- The supply should include a Calibration Tool automatic calibration of filters and light sources, automated diagnostics to check the status of motors, light sources and filters along with lamp life monitoring and lamp failure detection features.

7. Training:

Training should be imparted for FSL West Bengal personnel on operation, maintenance and troubleshooting problems at the place of installation.

8. Warranty and AMC:

The warranty of the equipment should be for a period of at least 03 years from the date of installation. During the warranty period free upgrades of the software, if any, should be provided. The supplier should undertake to execute AMC (annual maintenance contract) for three years after warranty is over at the cost of not more than 10% of the cost of instrument which will be paid during the period of AMC.

9. Miscellaneous :

- The offered model should have international CE/ ISO certificates.
- The system must be factory tested and a certificate should be provided.
- Instrument should be compact bench top device for use in forensic lab and industrial environment.
- Instrument should work with stable power supply from 100 to 240 VAC, 50 to 60 Hz.
- Vendor should have proven track record and should provide at least 03 installation details in various Forensic Labs, Government Institutes in last five years along with institute name, customer details contact details as per requirement.
- Vendor should have a service engineer stationed in Kolkata/ eastern region or preferably have a branch office for attending to problems, if any during the warranty/ AMC period.

Item No.5 Forensic Optical Comparator

General Specifications:-

- Screen – 300 mm diameter or more
- Lens Axis – Vertical
- Magnification – 10X or better
- On Screen accuracy – 0.05% or better
- Focusing – 100 mm
- Resolution – 0.001 mm
- Measuring System – Built-in system with accuracy of 0.002 mm or better
- Illumination – Profile and Surface lamps 150W, 24V or better with appropriate cooling system
- Power supply – Instrument should work with stable power supply from 100 to 240 VAC, 50 to 60 Hz.
- Warranty – 03 years. Party should be willing to enter into AMC for further 03 years at the cost of not more than 10% of the cost of instrument which will be paid during the period of AMC.

CHECK LIST (MUST BE PROPERLY FILLED)**NOTE: For Non applicability for some documents please mention "NA" in the check list.**

o.	I t e m	Please put tick or NA	Page No.
1	Application submitted in Annexure I		
2	Annexure II (Authorization letter of signatory from the company)		
3	Annexure III (Copy of agreement between the Manufacturer and the Direct Importer/Distributor)		
4	No conviction certificate in the form of an Affidavit as per Annexure - IV		
5	Income Tax Returns submitted for the last three Assessment years.		
6	VAT/CST Returns (of the last quarter) for the last three Assessment years.		
7	GST Registration certificate		
8	PAN Card of the organization and authorized signatory.		
9	Manufacturer's guarantee (in case of Distributors and Direct Importers, to be obtained from manufacturer)		
10	Audited P/L & Balance sheet of last three years		
11	Technical specifications of Instrument (in PDF/Excel format. Must mention Make, Model, exact features of the offered item against each point given in the specification chart).		
12	Trade License in the name of participating firm		
13	PUC in respect of the manufacturing unit		
14	Certificate of country of origin		
15	Registration with Registrar of Companies		
16	Valid Manufacturing Licensee		
17	Import License with validity (for importers)		
18	List of purchaser in Govt. Institutions of repute, for last three years		
19	A declaration in respect of existence of a fully equipped service centre in or around Kolkata in respect of the relevant item		
20	A Proof of submission of applicable EMD		

ANNEXURE – 1
APPLICATION FORMAT

(To be furnished in the Company's official letter pad with full address and contact no etc)

To

The Administrator, FSL, Kolkata-37.

Sub : Tender No.....Dt..... Name of the Item

1).....2)

.....3).....4).....

.....) for purchase and installation of **Instruments/Equipments for Narcotics Section of FSL, Kolkata.**

Ref.:

Sir,

Having examined the pre-qualification & other documents published in the N.I.T.,I/We hereby submit all the necessary information and relevant documents for evaluation:

1. That the application is made by me/us on behalf of in the capacity ofduly authorized to submit the offer. The authorization letter from the company is attached in Annexure II.

2. We accept the terms and conditions as laid down in the NIT mentioned above and declare that we shall able by it for throughout the tender period and its extensions, if any.

3. We are offering rate for the following item/items and assured supply to the FSL, Kolkata as per instrument Specification.

4. a. We propose that the order and bill should be raised in our name.

For liasoning, we have appointed M/s having its office at(Address, contact no and e mail address) as C&F agent/Liaisoner/Contact person/ Others (strike out whichever is not applicable) as per clause of the NIT.

OR

b. We propose that order and bill should be raised in favour of our authorized distributor.

For that purpose, we have appointed M/s having its office at (Address with contact no and e mail address) as authorized Distributor who will receive order and payment in his name on our behalf.

c. The agreement between ourselves and the distributor/C&F/Liaisoner & other documents as prescribed is attached in annexure III.

5. In the event of being selected, supply will be made within the stipulated period excepting the condition which is beyond our control.

6. We understand that:

(a) Tender Selection Committee/Home & Hill Affairs Dept can amend the scope & value of the contract bid under this project.

(b) Tender Selection Committee/Home & Hill Affairs Dept reserves the right to reject any application without assigning any reason.

Date:

Signature of applicant including title
And capacity in which application is made.

Contact details –

Mobile:

Email ID:-

Annexure II

Authorization letter in favour of the applicant (other than Managing Director/Proprietor) –
From the Competent Authority.
FORMAT

(To be furnished in the Company's official letter pad with full address and contact no. E mail
Address etc)
(TO WHOM IT MAY CONCERN)

This is to certify that Mr/Mrs..... (Name), an employee of this
Organisation as(Official
Designation) is hereby authorized to submit tender online, vide NIT
No.....Dated..... On behalf of the Organisation.

Signature of the
Competent authority with Seal
.....
(Signature of the Authorized Person)

Signature of Mr./Mrs.....
.....is hereby attested.

Annexure- III

- a. Copy of agreement between the Manufacturer and the Direct Importer/Distributor in Annexure –III

ANNEXURE – IV
Draft Affidavit Proforma

I, Sri/Smt.....

The Managing Director/Proprietor (etc.) of the Firm
(Name of the firm) at (address).....P.O.

P.S.....Dist.Do hereby solemnly affirm and
declare as follows:

a. That I am not under conviction of any office making myself liable to be disqualified to supply of any item/Items as quoted in this tender to any Govt. or Govt. undertaking Organisation/Institution in the State of West Bengal or other State or States.

b. My Firm has not been blacklisted at present as a whole or for any item/Items as quoted in this tender by any Gov. or Govt. Undertaking Organization/Institution in the State of West Bengal or other State or States in India.

c. That no case is pending against me or against my Firm in any criminal court of law in connection with the supply of Instruments to the Govt. or Govt. undertaking Organisation/Institution in the State or West Bengal or other State or States (If any case is pending, pl state the details).

d. That, I declare that the item or items quoted by me confirms the specification given in the NIT document or higher standard relating to the specification is provided.

e. The duly authenticated Technical Data Sheet is uploaded conforming to the prescribed standard.

f. That, I also declare that if any information subsequently found incorrect or false will it automatically render the tender submitted by me cancelled and make me liable for penal/legal action as per law of the country.

g. That, I do further affirms that the statements made by me in this tender are true to the best of my knowledge and belief and all the documents attached are genuine & correct.

Deponent