

**OFFICE OF THE DIRECTOR:: FORENSIC SCIENCE LABORATORY::
MEGHALAYA:: SHILLONG**

TENDER NOTICE

Sealed tender affixing non-refundable court fee stamp of Rs.400/-(Rupees four hundred) only are invited from bonafide, established, reputed manufacturers or their authorised dealers/agents/representative for entering into the rate contract for supply, installation and demonstration of equipment for **Modernisation Scheme 2018-2019** as per the Technical Specifications, in Annexure "A" and Terms and conditions laid down in the Tender notice.

Terms and Conditions

Items offered must be of reputed companies/manufacturers and should meet with all the specifications as those given in Annexure. Tender should be accompanied with catalogue, warranty/ guarantee or any related papers & will be received up to 1400 hrs. on the **28nd January, 2020** and will be opened on the same day at 1500 hrs. Bidders or their authorised representatives are invited at the time of opening of the tender. Tenders received after 1400 hrs. of **28nd January, 2020** by hand or by post will be summarily rejected.

2. Tender must be accompanied by:-

- (a) Affixed non-refundable court fee stamp of Rs.400/-.
- (b) Tenderers should quote specific rate for each item. Tender must be accompanied by Earnest money @ of 2% for General and 1% for Scheduled Caste/Schedule Tribe of the total amount of Tender value/Contract value. The earnest money preferably should be in the form of (i) Crossed Bank Draft or (ii) Deposit at call duly pledge in favour of the Director of Forensic Science Laboratory, Meghalaya, Shillong at any Nationalised Bank at Shillong. The Earnest Money/Security Deposit papers pending in this office in connection with other tenders/supplies shall not be considered as Earnest Money for the tender. Further, no tenderer is exempted from the requirement of depositing Earnest Money on any ground.
- (c) Valid and current Income tax clearance certificate from the Income Tax Department
- (d) Attested copy of PAN.
- (e) Attested copy of professional Tax Certificate.
- (f) Valid GST Registration certificate and TIN No. of the tenderer.
- (g) Latest financial stability certificate from a Scheduled Bank certifying that the Tenderer is financially sound to undertake the contract.
- (h) Authenticated copy of rate contract with DGS & D if tenderers have any existing and valid rate contract with DGS & D.
- (i) **Dealership/distributorship/ certificate from the Principal manufacturers/sub dealership certificate from the Distributor**
- (j) Attested copy of valid Trading Licence in terms of KHADC, JHADC & GHADC (for non-tribal) Regulation Act 1954 by tenderers who are required to obtain such Licence.
- (k) Recent passport size photograph of the Tenderer duly attested

3. The following information must be mentioned on the body of the envelope containing the quotations, failing which the sealed envelope of the quoting firm will not be opened.

- | | |
|--|---------------|
| (a) Professional Tax certificate. | - is enclosed |
| (b) Valid GST Registration Certificate | - is enclosed |
| (c) Income Tax Certificate/PAN | - is enclosed |
| (d) Earnest money | -is enclosed. |

- (e) Court Fee stamp -is enclosed.
- (f) Trading Licence from KHADC, JHADC & GHADC (for non-tribal)-is enclosed.
- (g) Dealership certificates from Principal manufacturers. - is enclosed
- (h) SC/ST Certificate. - is enclosed
- (i) Passport size photograph of the bidder should also be enclosed. - is enclosed
- (j) Latest financial stability Certificate from any recognized Bank. - is enclosed.

Failure to enclosed any one of these documents or enclosed of any invalid documents will result in automatic rejection of the quotation.

4. **Rates quoted**

- (a) should be inclusive of cost of accessories.
- (b) should be valid for one calendar year from the date of acceptance of tender.
- (c) should be quoted FOR destination Shillong, door delivery Director Forensic Science Laboratory, Meghalaya, Shillong
- (d) Should be inclusive of all Charges like packing, insurance, transit risk and other incidental charges only GST and local taxes (if applicable) should be shown separately.
- (e) Should be written clearly in figure and in words. Any alteration or overwriting must be fully signed by the tenderers.
- (f) Once the rates offered in the tender are accepted enhancement will not be entertained under any circumstances and tenderers will be liable to supply the items at the accepted rate. Failure to supply the items at the accepted rates will entail the offer being cancelled and the security money will be forfeited to the Government of Meghalaya.

5. Tender should be addressed to the undersigned by designation and not by name. Sealed envelope containing the tender must be superscribed as "Tender for of Equipment under Modernisation scheme 2018-2019." and must be sent by registered post or hand delivery.

6. The successful tenderers will be:-

- (a) Intimated by a Letter of Acceptance of the Director of Forensic Science Laboratory, Meghalaya, Shillong. Till then no bidder has any right to assume that his/her tender has been accepted. There shall be no claim whatsoever for compensation for any expenditure incurred by any tenderers in anticipation of acceptance letter.
- (b) Required to furnish a security deposit as per rates mentioned below and execute the contract agreement to ensure fulfillment of the terms and conditions of the contract which successful bidder/s will have to enter into. Such security deposit will be subjected to forfeiture in case of non-fulfillment of terms and conditions of the tender notice on the contract agreement. The earnest money of the successful tenderer/s will not be released till the full security deposit is furnished. Earnest money of the successful tenderer/s will be forfeited to the Government in case of failure to furnish security money in full.

7. **RATES OF SECURITY DEPOSIT**

For contract upto Rs.20,000/- 5% from local & 6% from non-Locals.

For contract upto Rs.50,000/- 10% from local & 11% from non-Locals.

For contract upto Rs.1,00,000/- 10% from local & 11% from non-Locals.

For contract over Rs.1,00,000/- 20% for all categories .

The Security Deposit should be interest free and in the form of a valid Bank Draft/Deposit at Call pledged in favour of the undersigned.

8. The Director of Forensic Science Laboratory, Meghalaya may rescind forthwith the contract in writing if,
 - a) A Tenderer assigns or sublets any contract in respect of contract or any other contract entered into with the Government.
 - b) Tenderer or his agent/Servant are found guilty of fraud of this contract or any other contract.
 - c) Declines, neglect or delays to comply with the demand/requisition or in any other way fails to perform or observe any of or all the conditions of the contract agreement.

In case of such rescission the Security Deposit in full shall stand forfeited and absolutely be at the disposal of the Government without prejudice to any other remedy or action that the Government shall be entitled to recover from the successful Tenderer any extra expenses Govt. may deem necessary in obtaining the supplies.

9. In the event of the successful Tenderer failing to perform his/her part of any or all the contract agreement to the satisfaction of the Department or disregarding any terms and conditions of the Tender Notice and or the contract agreement the successful Tenderer shall be liable to any of or all of the following action at the discretion of the Director of Forensic Science Laboratory, Meghalaya, Shillong on behalf of the Government of Meghalaya.
 - (i) Forfeiture of security deposit in whole or part.
 - (ii) Making good the loss caused to the Government through the liability, neglect, delay in complying with the demand.
 - (iii) Cancellation of the contract without any prior notice to the contractor.
10. If the successful Tenderer/s willfully neglects, fails to perform or observe any or all conditions of the contract agreement or attempts to cheat or indulge in foul practices, the Director of Forensic Science Laboratory, Meghalaya, Shillong may impose a ban upon such Tenderer(s) for future business within the Department.
11. Quantities mentioned in the list are only illustrative and may be increased/reduced on finalisation of order depending on the availability of fund and actual requirements.
12. Once the sample/technical specification of the items are approved, no change of brand, name, shape, pattern, quality or specifications will be entertained even on the plea of non-availability of raw materials or alternative offer of the same quality.
13. The store, supplied must be of the same specifications, weight and quality as the tendered models/samples/Tech. Spec. If the items are rejected by the undersigned due to non-meeting of the Technical Specification the supplier must replace the rejected items at their own cost forthwith and in a period of 21 (twenty one) days from the date of rejection.

14. Delivery, installation and demonstration must be completed within thirty days from the date of receipt of firm orders. No extension of delivery & installation period will be entertained.
15. Payment will be made to the suppliers directly only on completion of supplies and on correct receipt of goods by the respective consignee in good condition. Documents/vouchers/ P.R. Bills etc. routed through Banks will not be accepted. Consignment will be dispatched by the firm after payment of all freight charges at the source. Freight to pay P.R. will not be accepted.
16. Risk of transportation will be borne by the Tenderer themselves.
17. Comprehensive on site warranty should be indicated alongwith after sale services facilities.
18. One set of manuals of (Instructions and Maintenance) should be supplied free of cost for each item wherever applicable.
19. The Director Forensic Science Laboratory, Meghalaya, Shillong reserved the right to himself/herself to reject the lowest rate or any of the tender without assigning any reason thereof.
20. Any dispute arising out of or in respect of these terms and conditions of the Contract Agreement shall be in the Jurisdiction of the Courts in Meghalaya.

In charge Director
Forensic Science Laboratory,
Meghalaya, Shillong

Memo No.FSL.51/MOD/2018-19/8

Dated. Shillong the 2nd January, 2020

Copy to:-

1. The Addl. Chief Secretary, Home (Police) Dept. Govt. of Meghalaya, for favour of kind information.
2. The Addl. Director General of Police (CID)/HQ Meghalaya, Shillong for favour of information
3. Inspector General of Police (A) Meghalaya, Shillong for favour of information
4. Dy. Inspector General of Police (CID) Meghalaya, Shillong for favour of information.
5. The Asstt. Inspector General of Police,(A),Meghalaya, Shillong for information.
- ✓ 6. The Superintendent of Police (SCRB) Meghalaya, Shillong along with a soft copy containing the Tender Notice for uploading the same in the Website of Meghalaya Police.
7. The Director of Information and Public Relation, Meghalaya, Shillong for favour of information and necessary action. The gist of the tender notice (copy enclosed) may please be published in 2(two) local newspaper (One impression) in English and in Khasi each.
8. The Director Government Printing Press, Shillong along with a soft copy for publication in 2 (two) consecutive issue of Meghalaya Gazette.
9. Notice Board
10. M/S

In-Charge Director
Forensic Science Laboratory,
Meghalaya, Shillong

**OFFICE OF THE DIRECTOR:: FORENSIC SCIENCE LABORATORY::
MEGHALAYA:: SHILLONG**

Technical Specification

Single Quadrupole GC-MS Spectrometer as per details mentioned below:

Gas Chromatograph (GC) with one SSL Injector MS Quadrupole Mass Spectrometer, Selected Ion Monitoring and Full Scan facility, Turbo molecular Pumping System, Related Software, Gas Filter and Suitable Capillary Columns the supplier should provide-One year warranty and Certificate for the availability of spares for 10 years.

GAS CHROMATOGRPH

1. Fully Automated Microprocessor controlled GC with extensive self-diagnostic facility.
2. Intuitive user interface with control PC for easy control of the system and real time signal display.
3. Should be with Programmable / Electronic Pneumatic Control and monitors for all Carrier, Injector, Split Vent, Detector and Auxiliary gases electronically.
4. Auto shut down of instrument in case of leak detection in carrier gas.
5. Auto adjustment of carrier gas flow to compensate for variations in ambient temperature and pressure.
6. Split/Splitless Injector Suitable for all capillary columns from (50 μ m to 530 μ m i.d.) and should support large volume concurrent solvent condensation injection and should be compatible with 1/8" and 1/16" packed column using adapters

Column oven :

Gas Chromatograph: Should have an operating range of few degrees above ambient to 450°; Maximum Heating Rate: 120 °C/min or better; Maximum Number of Ramps to facilitate better analysis of environmental pollutant.

Operating Range: Ambient +3 °C to 450 °C or better

Oven cool-down (22 °C ambient): 450 °C to 50 °C in <4 min

EPC Pressure Range: 0-140psi or better

Mass Spectrometer:

Ion Source : should be Free from any form wired connection, easy to clean, easy to maintain off-axis ion source, with suitable facility to carry out helium ion burn in source before the main quadrupole.

Should have dual filaments in all ionization modes. Source with Programmable heating at 350 °C or better

- It should have accurate regulation of emission current up to 350 μ A or more with improved regulation at low current.
- It should have Integrated, dual filament assembly mounted with the same geometry with improved filament lifetime and effective regulation of emission current across the available emission current range.
- The User definable electron energy should be adjustable from 0-150 eV or more
- It should have constant calibration gas pressure for optimum system tuning.
- The GC have the upgradation facility for no vent to change the column as well as source cleaning without venting the vacuum of MS transfer line temperature should be programmable up to 400 °C or more.
- The system should have suitable technology to prevent neutrals to gain entry into the main analytical quadrupole.
- The system should have vacuum probe interlock to remove the source without releasing vacuum to enable the users to save additional time during ion source maintenance, change of source, changing of GC column without breaking vacuum, , Switching to Direct Insertion Probe without the need to vent the MS
- Direct Insertion Probe for solid samples without using GC/ injector of GC or removing existing source

Quadrupole Mass Analyzer:

Mass Range: 2 –1000 u or more

Resolution: Unit mass resolution maintained over the entire mass range.

EI sensitivity changed to 2000:1 (Guaranteed & to be demonstrated during installation. The supporting specification to be available in Company WEBSITE)

Scan speed : 20000 u/s or better

The Main quadrupole rods should be non-coated, homogeneous, solid metal rod and cleanable (No heating should be required)

It should utilize new generation discrete dynode electron multiplier integrated with linear-log electrometer with maximum linear output

Electronic dynamic range > 10⁸ or better

Mass Stability: Better than 0.1 u/48 hours/ $\Delta T \leq 2$ K

Vacuum System :

It should have high-capacity (>300 L/s) turbomolecular pump with air-cooled high vacuum pump, with control and safety interlocks integrated into the system (Single pump)

It should have ability to perform automated leak check using a metered amount of air as reference.

It should have Standard 3.0 m 3/min rotary-vane pump

Instrument Control :

It should have scan modes like full scan, SIM, and alternating full scan/SIM.

It should have ability to alternate between full scan MS and SIM target analysis on successive scans.

In full scan/SIM mode, the data should be acquired into a single file with the ability to be parsed into separate views by the data system.

System should be Field upgradeable with the following Features:

Upgradation with advanced source to achieve an IDL <1fg for highly sensitive application.

Standard Installation Specifications (Not typical one)

In EI mode 1 μ L of 1 pg/ μ L octafluoronaphthalene (OFN) will produce the minimum signal to-noise for m/z 272 when scanning 50–300 u: 2,000:1 with He (Guaranteed)

Instrument detection limit: 5fg or less

Column :

Suitable Capillary Column for alcohol, Forensic Toxicological analysis, Volatile Organic Compound analysis by MS each (preferably 30 m or more). Supports Rapid-MS columns

RELATED SOFTWARE

Software controls all GC, auto sampler and MS functions. Should allow fully automated quantitative and qualitative analyses with standard and optional Custom Reports.

Flame ionization Detector : Qty 1

Should be compatible with Capillary column and packed column

Flameout detection and automatic re-ignition

Minimum Detectable Level (MDL): <1.4 pg C/s or better

Linear dynamic range: >10⁷ or better

Consumables: Consumables for GCMS like MS filaments – Qty 4, ferrules, liners, septas, nuts, gloves, alumina, syringes etc should be quoted.

Local Indispensable accessories :

True On-line 10 KVA UPS with 30 minutes battery backup (EMERSON /Power one make)

UHP Grade Helium Gas with Double Stage SS Diaphragm Regulator-1 set FOR GCMS

UHP Grade Hydrogen Gas with Double Stage SS Diaphragm Regulator 1 set (FOR FID)

UHP Grade Zero Air Gas with Double Stage SS Diaphragm Regulator 1 set (FOR FID)

UHP Grade Nitrogen Gas with Double Stage SS Diaphragm Regulator 1 set (FOR GCFID)

Suitable Laser Jet Printer –Qty 1

Gas purification panel for all required gases

10 μ L liquid -2Nos

NOTE:

- Supply, installation and commissioning of the instrument including gas manifold at FSL, Shillong
- Required Standard and Chemicals to be provided at the time of installation.


SPECIAL NOTE:

1. All specifications offered Needs to be supported with original literature as well as the same literature needs to be available in the website of the manufacturing company.
 2. The offer to be made in details with all technical specification, item details with part no's.
 3. All supporting technical literatures complying the technical specification need to be attached along with the order.
 4. Extensive Training to be provided at installation site with a qualified application specialist
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**OFFICE OF THE DIRECTOR:: FORENSIC SCIENCE LABORATORY::
MEGHALAYA:: SHILLONG**

TENDER NOTICE

Sealed tenders along with Brouchers/Catalogues for supply and installation of items to Forensic Science Laboratory, Meghalaya Shillong under Modernisation Scheme 2018-19 will be received by the undersigned upto 14.00 hours of 28nd January ,2020 and will be opened on the same day at 15.00 hours by the undersigned. Details may be collected from the office of the undersigned on any working days.


In charge Director
Forensic Science Laboratory,
Meghalaya, Shillong
