

GOVERNMENT OF ASSAM
Office of the Commissioner of Excise, Assam
Housefed Complex, Dispur-Beltola Road, Dispur, Guwahati – 781006

No: 838915/3

Date: 19th September, 2026

NOTICE FOR PRE-MARKET ENGAGEMENT

(Issued for Market Consultation Purposes Only - Not a Tender, Request for Expression of Interest (REOI) or Request for Proposal (RFP))

Subject: Pre-Market Engagement for Gas Chromatograph (GC) with 1 No. FID, 1 No. Auto-Injector and Accessories.

1. Background

The Commissioner of Excise, Assam proposes to undertake procurement of a Gas Chromatograph (GC) system with Flame Ionization Detector (FID), Auto-Injector and associated accessories for the Office of the Chemical Examiner (Excise), Assam. The proposed instrument will be used for routine chemical analysis of liquor and related samples in the Chemical Examiner's Office.

Before finalisation of the bidding document, the Commissioner of Excise, Assam is undertaking this Pre-Market Engagement to obtain views and market feedback from manufacturers, OEMs, authorised distributors/suppliers and other eligible industry participants regarding the proposed technical requirements, configuration, availability, service support, warranty/AMC provisions and indicative market pricing.

2. Indicative Requirement

Sl. No.	Major Component	Indicative Requirement
1	Gas Chromatograph	Fully automated, software-controlled GC with FID; minimum 4-channel capability; oven up to 450°C or better; high-speed temperature programming and automated system monitoring.
2	FID Detector	1 No. FID with electronic gas control, automatic flameout detection/re-ignition, high sensitivity and suitable linear dynamic range.
3	Injector	1 No. Capillary Split/Splitless Injector with electronic gas control; 50°C–450°C or better; pressure/flow programming and gas-saver facility.
4	Auto-Injector	1 No. high-performance auto-sampler with minimum 50-vial capacity; suitable for 1.5/2.0 ml vials.
5	Software	Windows-based multi-user chromatographic data acquisition, processing and reporting software, with applicable regulatory/IQ-OQ documentation.
6	Columns & Consumables	Capillary columns suitable for analysis of alcohols, esters, aldehydes, furfural and volatile species; required syringes, liners, seals, ferrules, septa, tool kit and FID nozzle assemblies.
7	Gas & Utilities	UHP carrier/make-up gas, zero air and hydrogen arrangements,

Sl. No.	Major Component	Indicative Requirement
		safety cages/fittings, pressure regulators and gas purification/trap system.
8	Computer, Printer & UPS	Suitable high-end computer, duplex network laser printer and 10 KVA online UPS with minimum 60 minutes battery backup.
9	Site Preparation	Necessary heavy-duty plugs, sockets, wiring/conduits and interconnection required for the GC, UPS and data terminal.

The above requirements are indicative only and are not exhaustive. The detailed draft technical specification (listed below, for your reference, Annexure I) contains the minimum parameters proposed for the discussion.

3. Key Technical Parameters Proposed for Discussion

Parameter	Proposed Minimum / Indicative Requirement
GC Oven	Internal oven volume 18.0 L or better; ambient to 450°C or more; 0.1°C set-point resolution or better; maximum heating rate 120°C/min or higher; minimum 7 ramps and 8 plateaus; cooling from 450°C to 50°C within 4 minutes or better.
FID	Maximum operating temperature 450°C; MDL at or better than the proposed specification; linear dynamic range $>10^6$; retention-time repeatability $<0.008\%$ / <0.0008 min or better and area repeatability $<0.5\%$ RSD; automatic flameout detection and re-ignition.
Capillary Injector	Temperature range 50°C–450°C; minimum 3 pressure ramps and 4 plateaus; constant pressure/flow modes; split ratio capability 12,500:1 or better; pressure range 0–150 psi or better; automatic Gas Saver.
Auto-Sampler	Minimum 50-vial capacity; 1.5/2.0 ml vials; injection volume range 1–50 µl or better; transfer turret, mounting post and 10 µl syringe.
Columns	Non-polar 1 No., mid-polar 1 No. and polar 2 Nos. or more; suitable for relevant alcohol/volatile organic analyses and applicable laboratory methods.
Gas System	Minimum two full sets of UHP cylinders for nitrogen, zero air and hydrogen as applicable, with safety cages, key locks, high-pressure fittings, two-stage regulators and purification/trap arrangement.
Power & Computing	Latest compatible factory-fitted computer; monochrome duplex LAN laser printer; 10 KVA online industrial UPS with minimum 60 minutes full-load backup.

4. Warranty, Service Support and Training

- Comprehensive warranty of 2 (two) years from successful installation and commissioning, covering the main instrument, PC and third-party items, including applicable spare parts, maintenance kit and accessories.
- Replacement of defective items during warranty, including associated freight, transportation and other applicable charges, without additional cost to the Department.
- Service support with response within 3 working days for minor faults and within 14 working days for severe breakdown/hardware replacement, as proposed in the draft specification.
- Application training at site at the time of installation and additional application training for a minimum of 7 working days once every year.
- Availability of similar equipment users in India, with relevant user references in the North-East/Eastern region, and submission of technical compliance supported by original manufacturer literature.
- Two years' post-warranty AMC/CMC may be quoted separately as an optional item; annual payment is proposed in arrears against satisfactory service/performance certification.

5. Information / Feedback Requested from Industry Participants

Participants are requested to examine the indicative requirements and provide practical feedback on the following, along with any other relevant suggestion:

- Technical parameters which are standard, obsolete, restrictive or require modification in view of current market availability.
- Equivalent or better specifications and any performance parameters normally adopted for comparable GC-FID systems.
- Availability of the proposed configuration in India and expected delivery/installation period.
- Recommended warranty, service response, preventive maintenance and AMC/CMC provisions.
- OEM/model details and brief product literature or technical brochure.
- Indicative budgetary price of the complete system/configuration, clearly indicating taxes, freight, installation and other applicable charges.
- Any other suggestion which may improve competition, quality, serviceability and value for money.

6. Meeting Details and Submission of Feedback

Manufacturers/OEMs, authorised distributors, laboratory instrument suppliers and other interested industry participants having experience in supply and servicing of Gas Chromatograph (GC) system with Flame Ionization Detector (FID), Auto-Injector and associated accessories may submit their comments/feedback on the proposed technical requirements.

Mode	Mode Online (Google Meet)
Date	Date 28 th September, 2026
Time	Time 10 AM
Meeting Link	https://meet.google.com/aoj-ixrz-nxi
Who should join	Interested firms may confirm their participation by emailing the details of the participating representative(s) (Name, Designation, Organisation, E-mail ID, and Mobile Number) to procurementexciseassam@gmail.com on or before 27th September, 2026 (up to 5:00 PM).

7. Submission for feedback

Interested organisations may submit their written feedback submitted by e-mail to to procurementexciseassam@gmail.com on or before 28th September 2026, up to 12:00 PM.

8. Important Note

This Pre-Market Engagement is being undertaken solely for market consultation, information gathering and planning purposes and does not constitute a Tender, Notice Inviting Bid, Request for Quotation (RFQ), Request for Expression of Interest (REOI), Request for Proposal (RFP), or any commitment to procure the equipment from any participant. Participation is voluntary and shall neither confer any right, advantage or preference in any subsequent process. The Department reserves the right to accept, consider or disregard any feedback received and to modify the proposed technical specifications, eligibility conditions, approach, quantity, estimated cost, Terms of Reference or any other aspect, without assigning any reason. The final requirements and approach shall be determined by the Department after due consideration of the feedback received, actual requirements and applicable rules. Any subsequent procurement, if undertaken, shall be conducted through a fair, transparent and competitive process in accordance with applicable rules through the Assam Tenders portal, and no preferential treatment shall accrue to any participant on account of its participation in this Pre-Market Engagement.

Sd/-

Commissioner of Excise, Assam
Housefed Complex, Dispur, Guwahati-06

Annexure I

TECHNICAL SPECIFICATION DOCUMENT

Package: Gas Chromatograph (GC) with 1x FID, 1x Auto-Injector, & Accessories
Prepared for: Office of the Chemical Examiner (Excise), Assam

This document details the rigorous technical specifications required for the procurement, **site preparation**, and installation of a comprehensive Gas Chromatography (GC) system optimized for high-throughput routine workflows (~**8,000** samples annually / average ~**50** samples per day). Bidders must comply fully with all minimum requirements and updated baseline standards listed below.

1. Technical Specifications

Component	Required Specifications
System Characteristics	• Microprocessor-based fully automated software controlled Gas Chromatography system for sample analysis using FID. • Modern, compact, and space-saving architecture (ECO-design featuring reduced power and gas consumption is highly preferred). • User-friendly interface featuring an LCD touch Screen/Keypad or software equivalent for comprehensive remote operation. • System capacity of minimum four channels or more to support the simultaneous installation of multiple injectors and detectors. • Advanced automation utilities including Auto system check, intelligent post-run data analysis, and remote system monitoring capabilities.
GC Oven	• Internal oven volume of 18.0 L or better. • Ambient temperature to 450°C or more. • Temperature set-point resolution: 0.1°C or better to ensure precise analytical run retention. • Capable of achieving a maximum heating rate of 120.0°C/Minute or higher. • Programmable Ramps: Minimum 7 ramps and 8 plateaus. • Time Events: Minimum 8 events with On-Off status configurations or better. • Configurable oven cooling speeds specifically engineered to protect column phase integrity.

	• Cooled down time from 450°C to 50°C should be less than 04 minutes or less
Detectors (FID)	• Quantity: 1 No. Flame Ionization Detector (FID) integrated with an advanced electronic gas controller. • Compatibility: Fully suitable for 1/4", 1/8", 1/16" packing layouts and capillary columns. • Maximum Operating Temperature: 450°C. • Minimum Detectable Level (MDL): <1.8pg C/Sec for Dodecane/< 1.2pg C/Sec for tridane or equal or less than 3 pg C/Sec for Octane or better. • Linear Dynamic Range: >10⁶ or better. • Precision: Retention time repeatability <0.008% or <0.0008 minutes or better; Area repeatability <0.5% RSD. • Safety Features: Automatic flameout detection and automatic hardware reignition systems.

Injectors	• Quantity: 1 No. Capillary Split/Splitless Injector coupled with an independent electronic gas controller. • Compatibility: Accommodates 0.1 mm to 0.53 mm i.d. capillary columns seamlessly. • Temperature Control Range: 50°C to 450°C. • Pressure Programming: Minimum three pressure ramps and four plateaus. • Flow Control Layouts: Constant pressure and constant flow operating modes. • Maximum split ratio capability of 12500:1 or better. • Efficiency: Must incorporate an automated Gas Saver mode as a standard operational feature. • Pressure range 0-150 psi or better.
Auto Injector System	• Quantity: 1 No. auto injector unit or equivalent high-performance auto-sampler system. • Capacity: Minimum 50 or more vial capacity engineered for 1.5 ml/2.0 ml or better analytical sample vials. • Maximum injection volume 1 µl – 50 µl or better. • Standard Inclusions: Full transfer turret assembly, secure mounting post, and a matching 10µl syringe. • Vials: Minimum 2,000 units of 1.5 ml/2 ml screw thread clear glass vials including matching caps and premium PTFE/White Silicone Septa.
Software	• Windows-based multi-channel and multi user software for acquisition and processing of chromatographic data and reporting. • Compliance Documentation: Must include complete regulatory licenses along with full IQ/OQ validation compliance papers.
Columns & Consumables (Optimized for High Throughput)	• Capillary Columns (30m, 0.25mm/0.32mm, 0.25µm): Suitable capillary column must be capable to analysis organic molecules such as alcohols, esters, aldehydes and furfural and volatile species as per IS 3752 : 2005 (ANNEX A)/ FSSAI Manual of Methods of Analysis of Foods- Alcoholic Beverages-2019 (Method 6.2,6.3,7.5,11.2). • Non-polar (1 No), Mid-polar (1 No), Polar (2 No) or more. • Syringes: 10µl auto-sampler syringes (min 10 Nos. to safe-guard continuous high-frequency batches); manual testing syringes (1, 5, 10, 25, 50 µl – 02 Nos. each). • Maintenance Accessories: Liners, seal, ferrules, septum, tool kit to be offered for three years trouble free operation; and replacement FID Nozzle Assemblies (min 4 Nos. or more).
Gas Supply & Accessories	• UHP Grade Cylinders: Ultra-High Purity grade cylinders (Nitrogen carrier/makeup, Zero Air detector, Hydrogen fuel) – Minimum 2 full sets equipped with all mandatory safety cages, key locks, and high-pressure fittings. • Point of use distribution panels for all diagnostic gases utilizing precise

	two-stage pressure regulators. • Gas distribution and purification panel for all the gases with oxytrap and moisture traps etc. as required to fully install the system.
Computing & Power	• Suitable High-end factory fitted latest compatible computer should come with the GC. • Printer: Laser Printer Monochrome with automated duplex printing and embedded LAN interface port. • UPS Matrix: 10 KVA online industrial UPS with a minimum of 60 minutes full battery backup (upgraded to safeguard continuous analytical batch sequences against regional grid fluctuations).

2. Mandatory Clause: Electrification & Site Preparation Works

The vendor shall be solely responsible for the supply, laying, and termination of all electrical cables, data communication cords, heavy-duty industrial plugs, surface sockets, and high-grade conduits required for the complete interconnection and operation of all subsystems, including the UPS, data terminal, and primary GC frame, at no extra cost to the buyer.

3. Warranty & Support

- 2 Years Comprehensive Warranty (Which inclusive of Main instrument, PC and all third-party items) including all spare parts, maintenance kit and accessories from the date of successful installation and commissioning.
- If any accessories/spare parts are found to be defective within the warranty term (after commissioning), then the manufacturer/supplier will replace the items without any charges (including freight delivery, insurance, custom duty, transportation etc.)
- If there is a breakdown during the warranty term, a capable service engineer from the supplier should make as many visits as necessary to fix the issue and replace any defective parts, free of charge.
- In the event of minor fault, the service response time must be within three working days, and for a severe breakdown or hardware change, it must be within fourteen working days. If not, the warranty period will be automatically extended by the amount of time required to fix the defects. Accordingly, the PBG may be extended.
 - The supplier should also get a certified document from the third party items, suppliers that the warranty of their items is 2 years.
- Extensive training to be provided at installation site with a qualified application specialist.
- Supplier should arrange application training by their personnel for minimum seven working days after the installation of the system once in a year.
- Users lists of similar equipment supplied in India should be provided (Enclose full list of the users in India).
- Vendor should have at least five users in the NE India.
- Couple of users available in last 5 years in the eastern zone of India.
- A detailed technical compliance is required with supporting data where possible to show compliance.
- All specification offered needs to be supported with original literature as well as the same literature needs to be available on the official website of the manufacturing company.
- Post-Warranty Maintenance Contracts (AMC/CMC): 2 years of labor AMC/CMC after the expiry of comprehensive warranty should be quoted separately as an optional item.
- Annual Payment Terms in Arrears: Payments regarding the AMC/CMC infrastructure shall be processed strictly on an annual frequency after the successful conclusion of the respective service year. No advance payment requests will be considered by the department.

- **Mandatory Clearance Documents:** Disbursement of annual maintenance fees is strictly dependent on the vendor submitting a valid commercial tax Invoice alongside a certified Service Performance Certificate signed and authorized by the Chemical Examiner of Excise, verifying complete system uptime and completion of mandated support visits.