

Tender No. UHF/FP/8-68/2025/- 1131

Dated 27th Nov. 2025

e-tender document

**e-tender for
Supplying, installation, testing and commissioning of Gas
Chromatograph-Triple Quadrupole Mass Spectrometer System
(GC-MS/MS)**

Tender Last Date: 15th Dec. 2025



**Directorate of Research
Dr YS Parmar University of Horticulture and Forestry
Nauni-Solan (HP) 173230**

PREFACE

Sealed e-tender are invited by the Director of Research, Dr YS Parmar University of Horticulture and Forestry, Nauni-Solan under Two Bid System i.e. Technical Bid and Financial Bid from reputed, experienced and financially sound Companies/Firms/Agencies for **Supplying, installation, testing and commissioning of Gas Chromatograph-Triple Quadrupole Mass Spectrometer System (GC-MS/MS)**

- **NAME AND ADDRESS OF THE AUTHORITY**

The Director of Research
Dr YS Parmar University of Horticulture and Forestry
Nauni-Solan (HP) 173230.

- **ADDRESS FOR DOWNLOADING TENDER DOCUMENT**

<https://hptenders.gov.in>

- **CONTACT PERSON FOR ANY QUERIES RELATED TO TENDER**

Dr Yash Pal Sharma, Professor & Head, Deptt. of Forest Product, UHF Nauni, Solan
(Cell No. 94181-48114).

- **BRIEF DETAIL OF THE e-TENDER**

Date of online publication:	27th November 2025 (5:00 PM)
Document download start and End date :	27th November 2025 (5:30 PM) upto 15th December 2025 (10:00 AM)
Bid submission start and end date :	27th November 2025 (5:30 PM) upto 15th December 2025 (10:00 AM)
Physical submission of EMD and cost of tender document (Cover 1):	15th December 2025 (11:00 AM)
Date of Technical bid opening, evaluation of technical bid followed by opening of financial bid :	15th December 2025 (11:30 AM)

The cost of tender document is **Rs.10,000/- (Rupees Ten Thousand)** only payable by **Demand Draft in favour of “The Comptroller, Dr YS Parmar University of Horticulture & Forestry, Nauni-Solan”, Earnest Money (EMD) of Rs. 3,00,000/- (Rupees Three Lakhs) duly pledged in name of Comptroller, UHF Nauni, Solan** which should be submitted in sealed envelope with letter head of company by 11:00 AM on 15th December 2025 The cost of tender document is **NON-REFUNDABLE. The tender submitted without tender cost will be rejected straight way.**

A) General Instructions

- a. E-tenders in Two Bids (Technical/Techno Commercial & Financial/Price bid) basis are invited by the Director of Research for Supplying, installation, testing and commissioning of Gas Chromatograph-Triple Quadrupole Mass Spectrometer System (GC-MS/MS).
- b. Both techno-commercial and **financial bid must be submitted online at Tenders Himachal Pradesh site <https://www.hptenders.gov.in>** on or before **15th December 2025**. In addition, physical copy of the techno commercial bid duly signed & stamped along with EMD/tender fee etc. must be submitted in physical form in the office of the undersigned on or before **15th December 2025**. The same must be submitted in properly sealed manner & superscribed as “**Tender for Supplying, installation, testing and commissioning of Gas Chromatograph-Triple Quadrupole Mass Spectrometer System (GC-MS/MS) for the Department of Forest Products of Dr Y S Parmar University of Horticulture and Forestry, Nauni, Solan (HP)**”. It must be addressed to the Director of Research and must contain the particular of the bidder in bottom left hand of the cover. Tenders without EMD and tender fee and techno-commercial bid in physical form shall be rejected straightway.
NB:- Financial bid is to be submitted only in online mode. No physical copy of the same is to be submitted.
- c. The complete bidding process is online. Bidders should have possession of valid Digital Signature Certificate (DSC) for online submission of bids. Prior to bidding DSC needs to be registered on the website mentioned above.
- d. Tenderer/ Bidders are advised to follow the instructions provided in the ‘Instructions to the Tenderer/Bidders for the e-submission of the bids online through the Tenders Himachal Pradesh Portal at <https://www.hptenders.gov.in>
- e. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- f. The tender shall be submitted online in two part, viz., technical bid and financial bid. All the pages of bid being submitted must be signed and sequentially numbered by the bidder irrespective of nature of content of the documents before uploading. The offers submitted by Telegram/Fax/email shall not be considered. No correspondence will be entertained in this matter.
- g. Any future clarification and/or corrigendum(s) shall be communicated through the Public Procurement Portal for e Procurement at <https://www.hptenders.gov.in>. The bidders are required to regularly check the website to know about any/all such corrigendum(s) as only those bids, taking care of such corrigendum(s) shall be considered for finalization of the tender.
- h. Bidder should necessarily enclose a covering letter mentioning index of documents submitted with proper numbering.
- i. All the duly filled/completed pages of the tender should be given serial/page number on each page and signed by the owner of the firm or his Authorized signatory. In case the tenders are signed by the Authorized signatory, a copy of the power of attorney/authorization may be enclosed along with tender. A copy of the terms & conditions shall be signed on each page and submitted with the technical bid as token of acceptance of terms & conditions. Tender with unsigned pages/incomplete/partial/part of tender if submitted will be rejected out rightly.
- j. The competent authority of **Dr YSP UHF Nauni, Solan** reserves all rights to accept or reject any/ all tender(s) without assigning any reason and also reserves the right to

reject any bid which in his opinion is non-responsive or violating any of the conditions/specifications without any liability to any loss whatsoever it may cause to the bidder in the process.

- k. The bidder has to pay non-refundable tender fee of Rs 10000/- (Rs Ten Thousand) in shape of DD payable to Comptroller, UHF, Nauni drawn at SBI Nauni/UCO Nauni.
- l. The bidder shall pay the respective amount of Earnest Money deposit (EMD) of complete assembly for which the bid is submitted by way of FDR in favor of **The Comptroller, Dr YSP UHF Nauni, Solan** for Rs. 3,00,000 (Rs Three lakhs)” drawn on any Nationalized Bank/ Scheduled Bank and payable at Nauni, Solan.
- m. Bids received without tender fees and Earnest Money deposit (EMD) shall stand rejected and thus shall not be considered for evaluation etc. at any stage. The Earnest Money Deposit of the successful Bidder may, at the discretion of Tender Inviting Authority be adjusted towards the Security Deposit payable by the Bidder.
- n. Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority in terms of Ministry of Finance, Department of Expenditure, Public Procurement Division Order (Public Procurement No.1) and Order (Public Procurement No.2) vide F.No.6/18/2019-PPD dated 23/07/2020.
- o. All requirements laid down under the above specification must be carefully read and understood before claiming your instrument as complied.

B) Eligibility Criteria

The bidders must fulfill the following eligibility criteria: -

- i. The bidder should be a dealer of OEM, Turnkey Solution Provider or EPC (engineering, procurement and commissioning) or regular supplier of Analytical laboratory Instruments to govt. institutions, laboratories etc. Copies of supply order/ satisfactory installation report of at least one analytical instrument of value Rs 15.0 lacs or more each for 2022-23, 2023-24 and 2024-25 should be attached as documentary proof.
- ii. Total average Annual turnover of the bidder in the last three financial years i.e., 2022-23, 2023-24, 2024-2025 shall not be less than Rs 1.0 crore. (Documentary proof to be attached)
- iii. Bidder who has been blacklisted either by the Tender Inviting Authority or by any State Government or Central Government Organization shall not be allowed to participate in the tender during the period of blacklisting. The undertaking in this respect is to be attached.
- iv. The bidder should have PAN, GST Registration, Udhog Aadhar/ Udyam registration, as applicable in their case, and should submit a copy of each of these documents along with acknowledgement copies of the IT Returns for the last 3 financial years 2022-23, 2023-24 and 2024-25
- v. Supplier or Authorized Dealer/distributor of a reputed foreign or Indian manufacturing company. The bidder has to enclosed appropriate registration/dealership letter/certificate.
- vi. The vendor has to attach published brochure/datasheet/published document from Original Equipment Manufacturer as a documentary proof which comply with required technical specifications. The university may ask the vendor for PPT presentation of the equipment before opening of financial bid. If tender opening committee wants, the vendor should be able to practically demonstrate all the sensitive specifications of the equipment in the nearby laboratories.

- vii. The same make and model as quoted by the vendor should have been installed and working satisfactory in at least five Govt. Laboratories in last three years. The name and address of the laboratories and their contact details has to be provided so that authenticity of the equipment can be ascertained before opening of financial bid if required by the tender opening committee.

C) Techno-Commercial Bid

The tender should be submitted online.

1. The technical bid of the tender will be opened on **15th December 2025** at Committee Room of Directorate of Research, UHF Nauni, Solan. The financial bid will be opened after the evaluation of the technical bid.
2. The material should be supplied and installed at **Dept. of Forest Products, Dr. Yashwant Singh Parmar University of Horticulture and Forestry, Nauni, Solan-173230** and Rates quoted should be F.O.R. site.
3. The project is to be completed on a turnkey basis, including unloading at the site and installation. Any minor item required for the operation of the unit but missed in the specifications shall also be under the supplier's scope.
4. Rates should be quoted in figures as well as in words.
5. Rates should be quoted as per BOQ.
6. A standard warranty of one year from OEM is mandatory starting from the date of the successful trial run.
7. Items of the tender will be evaluated as a single lot, and the order will be placed accordingly.
8. The successful bidder must supply the material within 90 days from the date of the Purchase Order (P.O.), failing which the materials shall not be accepted and the order will be cancelled.
9. The rates quoted should be valid for 120 days.
10. Non-compliance with the terms and conditions of supply shall lead to forfeiture of the security deposit and/or blacklisting of the supplier.
11. The University reserves the right to accept or reject any or all tenders without assigning any reason.
12. The bidder must have supplied analytical equipment to Government departments/corporations/universities/industries during the last 3 financial years (a list of similar work must be provided).
13. The bidder should not have been debarred/restrained/blacklisted by any Central/State Government agency, autonomous body, PSU, university, or institute in the past for similar works (Self Certificate to be provided).
14. The bidder should submit a specification compliance sheet as per the bid.
15. If any bidder fails to meet the required criteria or does not submit the requested documents online, the tender bid will be rejected without further correspondence.
16. All disputes shall be subject to Solan jurisdiction.
17. The supplier/dealer shall be responsible for the proper functioning of the items after supply during warranty period. If any item is found unsatisfactory, it must be lifted by the supplier at their own expense, and appropriate action will be taken.
18. If the L-1 bidder is unable to supply the required quantity within the stipulated period, Dr. YSP UHF, Nauni, may approach the L-2, L-3, and subsequent bidders to supply the remaining quantity at the same rates, terms, and conditions as offered by the L-1 bidder.

19. The EMD of the successful bidder will be retained until the supply is completed.
20. The supplier shall provide onsite training to the staff at Dept. of Forest Products, Dr. YSP UHF, Nauni.
21. During installation, the supplier shall make their own arrangements for boarding and lodging.

Analysis of technical bid

- i) The technical bid will be analyzed and evaluated by the Technical Evaluation Committee (TEC).
- ii) If required, the Technical Evaluation Committee (TEC)/ Host Institute Authority may seek specific clarifications from any or all Bidder (s) at this stage. The Authority shall determine the Bidder that qualifies for the next phase after reviewing the clarifications provided by the Bidder(s). The bidder may be asked to make a presentation before the Purchase Committee.
- iii) The Authority reserves the right to modify the evaluation process at any time during the process, without assigning any reason, whatsoever, and without any requirement of intimating the Bidder of any such change. At any time during the process of evaluation the Authority may seek specific clarifications from any or all Bidder (s).

Evaluation of Financial Bids

- i) In this phase, the Financial Bids of the Bidder, who are technically qualified in the Technical Bid, shall only be considered.
- ii) The bid of agency quoting lowest for the overall turnkey execution as per the scope of work in their financial bid will be accepted as the successful bidder.

Award of Work/ Supplies

- i) The bid of agency quoting lowest financial bid i.e. L-1 bidder will be awarded the work/ supply order. The tender shall be treated as a single document and the financial bid will be finalized on the basis of lowest financial bid quoted by a firm for complete tender.
- ii) Acceptance of tender will be intimated to the successful bidder signed by the authorized signatory of the institution.
- iii) In case the bidder recommended for award of contract is not ready to accept the offer/found inappropriate, the proposal shall be made to subsequent bidder.
- iv) Performance Security shall be obtained from the successful bidder on the award of the contract at a rate of 2 percent of the value of the contract in shape of FDR/ duly pledged Fixed Deposit or Bank Guarantee from a commercial bank. Performance Security shall remain valid for a period of sixty days from the date of completion of contract including standard warranty period to the best of satisfaction of Procuring Department.
- v) The payment shall be made in two stages: 75% upon successful supply of the material, and the remaining 25% after successful installation, commissioning, and testing of the equipment.

UNDERTAKING

To,
Director of Research,
DR YS Parmar University of Horticulture
And Forestry Nauni, Distt. Solan – HP (Pin - 173230).

Sir,

1. I/we the undersigned, certify that I/we have gone through the terms and conditions mentioned in the tender documents and undertake to comply with them.
2. It is further certified that our firm has not been blacklisted by any agency in India or abroad.
3. We will supply the goods in accordance to the specifications of the work order.
4. At any stage, if it is found that the substandard /deviation from the specifications/ design/quality has been made by us, we shall be liable for penalty and legal action.

Dated:

SIGNATURE OF THE TENDERER
WITH SEAL
NAME OF THE TENDERER
WITH ADDRESS

NOTE: Certificate as per above must be submitted only on non-judicial stamp paper of Rs. 100/- (Rs One Hundred Only)

Check List of Document to be uploaded by the bidder / firm/ agency duly signed by the firm:-

1. Tender fee of Rs.10,000/- in shape of Demand Draft.
2. EMD of Rs.3,00,000/- in shape of FDR.
3. A covering letter mentioning index of documents submitted with proper numbering.
4. Copies of supply order/ satisfactory installation report of at least one analytical instrument of value Rs 15.0 lacs or more each for 2022-23, 2023-24 and 2024-25.
5. Annual Financial Turnover during the last three financial years.
6. Published brochure/ published document from Original Equipment Manufacturer as a documentary proof which comply with required technical specifications.
7. PAN, GST and other important license.
8. IT Returns for the last 3 financial years.
9. An undertaking to provide standard warranty for one year form OEM on equipment against manufacturing defects, starting from the date of the successful trial run.
10. An undertaking from the Bidder as per Annexure-2.

Technical Specifications

Name of Instrument : **Supplying, installation, testing and commissioning of Gas Chromatograph-Triple Quadrupole Mass Spectrometer System (GC-MS/MS)**

Sl No.	Description	Technical Details
A) GAS CHROMATOGRAPH		
1	GC Oven	GC oven with Illumination for easy replacement of column.
2	Temperature range	3 ⁰ C above ambient to 450 ⁰ C or more.
3	Ramp rate	Up to 120 ⁰ C/min. or more.
4	Heating Ramps	25-28 ramps/programming steps or more. Cooling ramps required to cool down GC stepwise.
5	Cooling	Fast cooling of oven from 450 ⁰ C to 50 ⁰ C within 210 seconds or faster.
6	Inlet	Split/Splitless Injector a) Temperature range up to 450 ⁰ C or better. b) Split ratio setting range: up to 12500 or more. c) Pressure setting range: 0 to 150 psi or better with increment/resolution/control of 0.001 psi for the entire pressure range. d) Pressure/Flow program ramps: 7 or more. e) Compatible with Columns of different Internal Diameters from 0.1 to 0.53 mm. f) Gas saver mode to reduce gas consumption, Electronic septum purge.
7	Flame Ionization Detector (FID)	Detection Limits – 1.2 pg C/s or less, Maximum Acquisition rate: 800 Hz or better, Electronic/Advance Flow Control (EFC), Dynamic Range – 10 ⁷ or better, Temp. Range: Up to 450 ⁰ C or more, Automatic flame out detection and re-ignition.
8	Electronic Pressure/Flow control	The pressure and flows must be independently controlled for all injectors and detectors through software only. System should have constant pressure, constant flow and constant linear velocity mode. Pressure range of 0-150 psi or better with minimum increment/resolution/control of 0.001 psi for the entire pressure range for all Injectors and detectors.
9	Display	Integrated large touch screen display with provision to display chromatograms, method parameters like temperature, pressure & flow rates etc.
10	Capillary Column mounting	The system should be able to mount two number capillary columns (30 meters) simultaneously.
11	Auto-sampler	Liquid auto-sampler with 150 vials capacity, having facility for injection volume from 10 uL to 200 uL or more.
B) MASS SPECTROMETER: Fully PC controlled Mass spectrometer with highly efficient turbo molecular pump with EI		

1	Mass Analyzer	Triple Quadrupole Mass Spectrometer with pre-rods to remove contaminations, Compatible with 0.1 to 0.53 mm ID capillary columns for various samples/applications.
2	Mass range	10 to 1050 amu or better.
3	Scan speed	20,000 amu/sec or better and 250 scans/second or better.
4	Mass Resolution	0.4 to 3.0 amu or better.
5	Mass axis stability	+/- 0.10 u/48 hrs or better.
6	EI voltage	Up to 200 eV or more.
7	Ionization current	Variable 10-250 μ A or better.
8	Ionization Mode	Electron Ionization having Dual filament technology with automatic switching.
9	Collision energy	Up to 60 eV or better.
10	MRM Speed	Up to 800 Transitions/sec or better.
11	Minimum dwell time	0.5 milli second.
12	Installation Specifications	All below mentioned sensitivity specifications to be demonstrated during installation, and shouldn't be reference specification. a) EI Scan S/N (Sensitivity): EI scan: 1500:1 for 1 pg/ μ L Octafluoronaphthalene or better. b) EI MRM S/N (Sensitivity): 18,000:1 for 100 fg/ μ L of Octafluoronaphthalene or better.
13	Pumping System	Dual inlet turbo molecular pump with capacity of 300 liter/sec or more for Helium to build vacuum and to evacuate system as soon as possible. The vacuum system must include rotary-vane fore-pump.
14	Libraries (Original & Licensed)	Original, Licensed & latest version of Library/database with OEM part/catalogue number: NIST 2023 or latest
15	Carrier Gas	Mass Spectrometer should be capable to use H ₂ and N ₂ as carrier gas for qualitative analysis.

C) SOFTWARE

1	Software	a) 64 Bit advanced chromatographic integration software. b) Software should be user friendly & simple for data handling with features like easy to use report publisher, online help and answer wizard, compatible with Windows 11. c) Full-Scan MS in Q1/Q3, Selected Ion Monitoring (SIM) in Q1/Q3, Multiple Reaction Monitoring (MRM) for the most demanding quantitative assays, Product Ion Scan, Precursor Ion Scan, Neutral Loss Scan. d) Software should have provision for calculation of Retention Indices and vendor should quote Automatic Adjustment of Retention Time if separate/optional. e) Should have function like Automatic leak check and automatic tuning judgement. f) All accessories like injector, detector, GC, MS, Auto-sampler, Head Space should be controllable from single software.
---	----------	--

D) HEAD SPACE SAMPLER (TRANSFER LINE TECHNOLOGY)		
1	Head Space Sampler	a) Software controlled Head Space Sampler. b) Incubation Oven Temperature Range 50°C to 300°C or more. c) Transfer Line Temperature 50°C to 350°C or better. d) System should have sample capacity of 80 or more vials. e) Overlapping thermostat for 12 vials or more with built in shaker for various kinds of samples. f) System should have built in gas flow controlled via software only. Carrier gas pressure control range: up to 140 psi or 950 kPa with 0.001 psi or 0.1 kPa increment or better. g) Control mode: Constant pressure, Constant flow rate, Constant linear velocity h) Vial pressurizing gas control: Pressure range: 0 to 500 kPa with 0.1 kPa increment or better. i) System should be supplied with 500 vials, septas, caps. Crimper & Decapper 1 No. each. j) Simultaneous connectivity of Liquid Auto-sampler and Headspace to GC without removal of one at the cost of other.
E) CONSUMABLES		
1	Consumables	a) Injection Port Septa – 100 Nos. b) Glass Insert with wool for Split & Splitless (5 Nos. Each) c) Vessel Ferrule 0.4 mm – 30 Nos. d) Vessel Ferrule 0.5 mm – 20 Nos. e) Graphite Ferrule 0.5 mm – 10 Nos. f) Graphite Ferrule 0.8 mm – 10 Nos. g) Manual Syringes - 10 uL (5 Nos.) h) Auto-sampler Syringes 10 uL – 5 Nos. i) Auto-sampler Vials, caps & Septa - 500 Nos. j) Filaments – 4 Nos. k) Glass Wool – 1 No. l) Column Cutter – 2 Nos. m) O-Ring – 10 Nos. n) Column Nut for GC and MS - 10 Nos. each o) Ion source cleaning kit – 1 No. p) GC-MS tool kit – 1 No. q) Triple Gas Filter Kit – 1 No.
F) UTILITIES		
1	Utilities	1) Capillary columns: 30- Meter Rxi-5SilMS or equivalent - 1No. 2) Capillary columns: 30-Meter Rxi-624 Sil MS or equivalent - 1No. 3) Capillary columns: 30- Meter Rtx-WAX-1 or equivalent - 1No. 4) Gas cylinders with dual stage regulator for Argon (2No.), Helium (2No.), Nitrogen (1No.), Zero air (1No.), Hydrogen (1No.). 5) Wall mount gas purification & control system. 6) Branded i7 PC, 8 GB RAM, 512 GB SSD, 27” Monitor,

		Licensed Windows 11, 64-bit, Licensed Microsoft excel 2019 and Laserjet MFP Printer. 7) Online UPS 10 KVA with minimum 1 hr backup compatible with the equipment. 8) Vendor need to carry out installation of the power point sockets 6A/15A required for the installation of the system. 9) Modular Table with Granite top with dimensions atleast 8 ft (L) x 3 ft (W) x 2.5 ft (H) or as per system requirement. 10) Analytical balance: Capacity – 135 g, Readability - 0.01 mg, Built-in calibration weight, repeatability: 0.5 mg, Minimum Weight: 20 mg, Linearity: +/- 0.1 mg, response time: 8 seconds or less, internal windbreak plate.
G) WARRANTY		
1	Standard Warranty	One Year
2	Extended Warranty	Two Years
3	Annual Maintenance Contract	Two years after completion of Extended Warranty
H) ADDITIONAL REQUIRMENTS		
1	List of Requirements	1) Free of cost satisfactory technical and application training to the personnel immediately after its installation at site. 2) All sensitivity specifications should be demonstrated during installation and should not be reference specifications. 3) Vendor should mention their model with catalogue number clearly in their Bid and same Model should also be available on the Manufacturer official website otherwise their Bid will be rejected. 4) All the specifications mentioned in tender should be supported by Brochure/datasheet/Published document from Original Equipment Manufacturer. Information in published document will be taken for final comparative. No confirmation/justification on vendor/Manufacturer letter head for any specification will be entertained at any stage during evaluation process. 5) Compliance statement sheet with technical bid should be enclosed, if there is any deviation in above mentioned specifications, it should be clearly highlighted in remarks. 6) The company should be represented by their authorized dealer in India. The vendor should have qualified technicians and service personnel duly approved by OEM or authorized dealer available in India (preferably in Chandigarh and Delhi). 7) During warranty/AMC period if equipment faces malfunctioning/shutdown in normal use in laboratory, the vendor should provide service within 4 days and an undertaking in this aspect should be provided.

		8) All requirements laid down under the above specification must be carefully read and understood before claiming your instrument as complied. 9) IQ/ OQ must be quoted and performed during installation.
--	--	--