

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE
ISRO PROPULSION COMPLEX (IPRC)
MAHENDRAGIRI**

Tender for SUPPLY OF GAS CHROMATOGRAPH

Bids to be submitted online

Tender No.: IPRC/PURGP2/IP202400093201 dated 27-08-2024

A. Tender Details

Tender No :	IPRC/PURGP2/IP202400093201
Tender Date :	27-08-2024
Tender Classification:	GOODS
Purchase Entity :	PURGP2
Centre :	ISRO PROPULSION COMPLEX (IPRC)

SUPPLY OF GAS CHROMATOGRAPH

Kindly go through the instruction carefully and quote.

Foreign vendors are not permitted to quote.

Only Class-I and Class-II Local suppliers as per Make in India (MII) Policy are eligible to participate in the bid and submit the MII declaration certificate which is mandatory.

The percentage of local content is mandatory and it should be specifically mentioned in the offer. Preference will be given to Class-I Local Supplier and in their absence, Class-II Local Supplier will be considered.

MSME preference is applicable only against the claim of the manufacturer and production of documentary evidence by the manufacturers for the registration of particular item under MSME.

Last minute clarification on tenders will not be entertained.

This is an e-Tender. Hence Postal/Fax/Email tenders will not be accepted.

Acceptance of Guarantee / Warranty, PBG, SD, LD & AMC shall be complied

Please mention your Government E market Place (GeM) Seller ID for our reference.

Option Clause:-The purchaser reserves the right to increase/decrease the ordered quantity by up to 25-30 percent at any time, till final delivery date (or the extended delivery date of the contract), by giving reasonable notice even though the quantity ordered initially has been supplied in full before the last date of the delivery period (or the extended delivery period)

A.1 Tender Schedule

Bid Submission Start Date :	27-08-2024 11:25
Bid Clarification Due Date :	05-09-2024 11:30
Bid Submission Due Date :	16-09-2024 11:30

Bid Opening Date :

16-09-2024 11:31

B. Tender Attachments

Technical Write-up/Drawings

Document : SPECIFICATIONS OF GC

Document : PQC FOR GC

Instructions To Vendors

3. General Instructions

1. Last minute clarification on tenders will not be entertained.
2. This is an E Tender. Hence Postal/Fax/Email tenders will not be accepted.
3. If a vendor is not able to submit bid against this tender due to any reason, such vendor is requested to post their REGRET message in the e-procurement portal with clear reasons or email to psogroup2@iprc.gov.in. Non submission of bids without regrets will be viewed seriously.
4. IPRC reserves the right to split the tendered quantity in part or whole on its sole discretion without assigning any reason.
5. IPRC has the right to cancel the tender without assigning any reason etc.
6. If any vendor submits forged / false documents along with the tender, offer of such vendors will be summarily rejected and such bidders will be blacklisted for all future tenders.
7. Option Clause:-The purchaser reserves the right to increase/decrease the ordered quantity by up to 25-30 percent at any time, till final delivery date (or the extended delivery date of the contract), by giving reasonable notice even though the quantity ordered initially has been supplied in full before the last date of the delivery period (or the extended delivery period)

4. Format for Self Certification under Preference to MAKE IN INDIA Policy CERTIFICATE

1. In line with Government Public Procurement Order No. P-45021/2/2017-BE-II dt. 15.06.2017, as amended from time to time and as applicable on the date of submission of tender, we hereby certify that we M/s. _____(supplier name) are local supplier meeting the requirement of minimum Local content _____% as defined in above orders for the materials against Tender Enquiry No.

_____Dt:_____ The items considered for local value

addition are:

2. 1. -----

2. -----

3. -----

(if required add more rows and items)

Details of location at which local value addition will be made is as follows:

3. We also understand, false declarations will be in breach of the Code in Integrity under Rule 175(1) (i) (h) of the General Financial Rule for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.

4. For (COMPANY NAME)

Authorized Signatory

5. GeM Seller ID

1. GeM Seller Registration: All vendors shall register themselves in GeM Portal (gem.gov.in) and provide GeM Seller unique ID in the tender documents, as this ID is mandatory for award of contract.

6. [GENERAL TERMS AND CONDITIONS]

1. (I) GST where legally leviable and intended to be claimed should be distinctly shown separately in the tender.

2. (II) a) Facility of after sales service to be confirmed with details. b) Permanent Account Number (PAN) allotted by Income-Tax authorities shall be furnished with documentary proof. Otherwise, documentary proof for having applied for PAN should be provided. Also PAN should be in the name of Company/Firm, if quoted by the Company/Firm and in the name of Individual, if quoted by individual. c) GST No. d) PAN No. e) Local office in Tirunelveli / Nagercoil is preferable. Note: (b) to (e) are applicable for Indian Companies only.

3. (III) Our standard delivery term is FOR, IPRC. In case any vendor offers delivery term of Ex-works, Packing and Forwarding charges if any should be indicated separately in Your quotation/E-procurement Price Bid. In case of imported items (stores), Ex-Works/FOB/FCA prices should be indicated.

4. (IV) PAYMENT: Our standard payment term is 100% within 30 days after receipt and acceptance of the items at our site (after installation and commissioning in cases where installation and commissioning is required)-for Indigenous supply.

5. (V) Guarantee / Warranty period as applicable shall be indicated, along with the quote. Guarantee/Warranty shall commence from the date of installation and acceptance of the complete equipment supplied under the contract/purchase order.

6. (VI) LIQUIDATED DAMAGES: Delivery is the essence of the contract. Items shall be delivered within stipulated period. If delivery is delayed beyond the stipulated delivery period mentioned in the purchase order or any extension thereof, an amount equal to 0.5% per week shall be recovered, subject to a maximum of 10% of the order value shall be deducted from your bills due. For Staggered supply, maximum of 10% of value respective staggered supply lot.

7. (VII) PERFORMANCE BANK GUARANTEE : (If Warranty is applicable/sought in our Tender enquiry) The Supplier shall guarantee the successful and satisfactory performance/commissioning of equipment/machinery under the conditions specified in the Purchase Order. As a performance security, the SUPPLIER shall furnish a performance bank guarantee (format enclosed) from Nationalized Bank/Scheduled Bank for an amount equal to the sum of 3% of the order value ensuring the due performance of equipment/machinery in accordance with all the specifications and terms specified in the Purchase Order herein valid for the warranty period. On due performance, the performance bank guarantee shall be automatically cancelled and returned to the Supplier within 30 days after expiry of the Warranty period. The performance bank guarantee shall have claim period of six months.

8. (VIII) SECURITY DEPOSIT : Wherever the offer price is Rs. 5.00 Lakhs or above, the successful tenderer should submit Security Deposit @ 3% of the order value by way of Bank Guarantee / FD Receipt/DD duly endorsed in favour of Accounts Officer, IPRC or by way of Bank Guarantee (in the prescribed format) within 20 days after receipt of order and valid up to the successful execution of the order. In case if Security Deposit is submitted and the contractor fails to execute the order, then the

security deposit will be forfeited.

9. Note: SD, LD and PBG clauses are mandatory [which will be indicated in Tenders] and offers of the vendors who have not agreed for the above conditions will be excluded from the procurement process. Micro and Small Vendors are not exempted from the submission of Security Deposit. Only Govt Departments/PSUs/PSEs can submit Indemnity Bond instead of Bank Guarantee towards SD/PBG.

10. (IX) IPRC reserves the right to accept or reject any quotation in full or part thereof by recording the reasons.

11. (X) IPRC shall not be responsible for failure of vendors in submitting bids online caused due to technical reasons at vendor end such as network or power failures, computer failure, internet-browser, mistakes / errors in filling the bids on line by vendor etc.

12. (XI) Last minute request for the extension of the due date w.r.t. any technical issue at Vendors/Suppliers side will not be considered. You may submit your quotation online well in advance instead of waiting till the last date to ensure that Internet problem and network condition does not cause problem.

13. (XII) Offers sent through post, telegram, fax, e-mail, courier will not be considered. Partially completed / incomplete tenders shall not be considered.

14. (XIII) Only authorized dealers/agents or their accredited representatives for original manufacturers have to submit the quotation with documentary evidence.

15. (XIV) The goods or material offered should be strictly as per our specifications. Change(s) in specifications, if any, should be clearly indicated by the supplier in his quotation. The supplier should also indicate make/type No. of the materials or equipment offered. Vague terms such as Best quality, Best Indian, Best Indigenous and Imported make should not be used.

16. (XV) Please upload the Technical Details / Catalogue / Data Sheets (wherever applicable) along with your offer.

17. (XVI) The offer should be valid for a period of minimum 90 days from the date of opening of Tender and 180 Days for PT Two Part (120 Days for Technical Bid and 60 Days for Price Bid from the date of opening).

18. (XVII) If any bidder submits forged / false document along with the tender, offer of such vendors will be summarily rejected and such bidders will be blacklisted for all future tenders.

19. (XVIII) Wherever the tenderer is asked to submit sample for evaluation of tenders, the same shall be submitted along with your quote.

20. (XIX) The purchaser shall be under no obligation to accept the lowest or any tender and reserves the right of acceptance of the whole or any part of the tender or portions of the quantity offered and the tenderer shall supply the same at the rates quoted.

21. (XX) Purchase preference to eligible vendors are applicable as per extant notifications issued by the Government of India. In case the vendor falls in the category of Small Scale Industries (SSIs), who are registered with NSI, Public Sector Undertakings (PSUs) and Micro & Small Enterprises (MSMEs) the same shall be mentioned in their quote for evaluation. Class-I and II Local Suppliers should provide necessary Local Content Declaration [as per the Make in India Notification of Govt. Of India], along with their quote.

22. (XXI) ISRO PROPULSION COMPLEX (IPRC) is exempted from payment of Customs Duty under Notification No. 50/2017-Customs dated 30.06.2017 and as amended by Notification No.5/18 Customs dt:25/1/18. For imported items/components in the quoted product [as eligible as per Make In India policy of Govt. Of India], IPRC will provide Customs Duty Partial Exemption Certificate for availing Concessional CD and IGST for the import items/components in the quoted products.

23. (XXII) The bids shall be in INR only.

24. (XXV) Wherever the tenderer is asked to submit sample for evaluation of tenders, the same shall be submitted along with your quote.

7. STANDARD TERMS AND CONDITIONS (DOS PM:19)

1. a. Prices are required to be quoted according to the units indicated in the annexed tender form. When quotations are given in terms of units other than those specified in the tender form, relationship between the two systems of unit must be furnished.

2. Arbitration in the event of any dispute or difference arising under these terms & conditions or any condition contained in the Purchase Order or in connection with this Contract. (except as to any matter the decision of which is specially provided for by these conditions), the same shall be referred to the sole arbitration of the Head of the Purchase Office or of some other person appointed by him, and the dispute further processed in terms of the Arbitration & Conciliation Act, 1996. There will be no objection that the arbitrator is a Government Servant that he had to deal with matter which the Contract relates to or that in the course of his duties as Government Servant has expressed views on all or any of the matters in dispute or difference. The award of the arbitrator shall be final and binding on the parties of this Contract.

3. As per the Rule 144(xi) of General Financial Rule, 2017, any bidder from a country which shares a land border with India will be eligible to bid in any procurement whether of goods, services (including consultancy services and non-consultancy services) or works (including turnkey projects) only if the bidder is registered with the competent authority ie., Department for Promotion of Industry and Internal Trade (DPIIT).

Hence, Vendors or Agents of a Vendor (Indian or others) from a country sharing border with India shall submit copy of valid registration made with Department for Promotion of Industry and Internal Trade (DPIIT), Government of India along with the tender mandatorily, without which the offer will be treated as invalid.

4. b. Corrections, if any, in the quotation must be attested. All amounts shall be indicated both in words as well as in figures. When there is difference between the amount quoted in words and figures, the amount quoted in words shall prevail.

5. GST/ other duties/levies, where legally leviable and intended to be claimed, should be distinctly shown separately in the tender.

6. Guarantee: The stores offered should be guaranteed for a minimum period of twelve months against defective stores design, operation or manufacture. For defects noticed during the guarantee period, replacement/repair should be arranged free of cost within a reasonable period of such notification. In cases where our specifications call for a guarantee period more than 12 months specifically, then such a period shall apply

7. If the arbitrator is a person appointed by the Head of the Purchase Office, In the event of his denying or neglecting or refusing to act, or resigning or being unable to act, for any reason, shall be lawful for the Head of the Purchase Office either to proceed with the reference himself or to appoint another person as arbitrator in place of the outgoing arbitrator subject, as aforesaid, to the Arbitration and Conciliation Act, 1996, and the rules thereunder and any statutory modifications thereof for the time being in force shall be deemed to apply to the arbitration proceeding under the clause. The Arbitrator shall have the power to extend with the consent of the Purchaser and the Contractor the time for making and publishing the award. The venue of arbitration shall be the place as the Purchaser in his absolute discretion may determine. Work under the Contract shall, if reasonably possible, continue during Arbitration Proceedings.

8. If the arbitrator is the Head of the Purchase Office :

(i) In the event of his being transferred or vacating his office by resignation or otherwise, it shall be lawful for his successor in office either to proceed with the reference himself for to appoint another person as arbitrator, or In the event of his being unwilling or unable to act for any reason, it shall be lawful for the Head of the Purchase Office to appoint another person as arbitrator

9. Late Tenders will not be considered

10. Model Certificate for Tenders:

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered

11. Packing and Forwarding: The Contractor will be held responsible for the stores being sufficiently and properly packed for transport by rail, road, sea or air, to withstand transit hazards and ensure safe arrival at the destination. The packing and marking of packages shall be done by and at the expense to the Contractor.

12. Payment terms are full payment within 30 days from the date of receipt and acceptance of material ordered. Our Bankers are State Bank of India, Mahendragiri.

13. Quotation should be valid for at least 120 days from the date of opening of the tender.

14. Specifications: Stores offered should strictly conform to Purchasers specifications. Deviations, if any, shall be clearly indicated by the tenderer in his quotation. The tenderer should also indicate the Make/Type number of the stores offered and provide catalogues, technical literature and samples, wherever necessary, along with the quotation. Test certificate, wherever necessary, should be forwarded along with supplies. Wherever options are called for in our specifications, the tenderer should address all such options, wherever specifically mentioned by us, and the tenderer could suggest changes to specifications with appropriate response for the same. Even in such case, the tenderer should state why he cannot meet our specifications and why he is suggesting the change.

15. Successful tenderer will have to furnish in the form of a Bank Guarantee or in any other form as called for by the Purchaser towards adequate security for the materials/property provided by the purchaser for the due execution for the Contract.

16. TERMS AND CONDITIONS OF TENDER:

Price quoted should be on the basis of FOR IPRC, Mahendragiri or delivery at site

The Purchaser will not pay separately for transit insurance, and the risk and cost during transit shall be exclusively the responsibility of the Contractor and the purchaser shall pay only for such stores as are actually received in good condition in accordance with the Contract.

17. The Contractor shall at all times indemnify the Purchaser against all claims which may be in

respect of the stores for infringement of any right protected by Patent, Registration or design or Trade Mark and shall take all risks of accidents or damage which may cause a failure of the supply from whatever causes arising and the entire responsibility for the sufficiency of all means used by him for the fulfilment of the Contract

18. The Purchaser reserves the right to accept or reject any quotation fully or partly without assigning any reason therefore.

19. The time for and the date of delivery of the stores stipulated in the Purchase Order shall be deemed to be the essence of the Contract and delivery must be completed not later than the date specified therein, and failure to do so, without adequate justification, may involve cancellation of the Contract at the discretion of the Purchaser.

20. Vendors may please note that in case of two-part tender, the price details shall be mentioned only in the price-bid template. If the price details either in part or full are indicated in the technical bid, the bid will be disqualified.

21. Where counter terms and conditions/printed or cyclostyled conditions of sale have been offered by the tenders, the same shall not be deemed to have been accepted by the Purchaser unless the Purchaser's specific written acceptance thereof is obtained

8. STANDARD TERMS AND CONDITIONS (DOS PM: 20)

1. ACCEPTANCE OF STORES:

(a) The stores shall be tendered by the Contractor for inspection at such places as may be specified by the purchaser at the Contractor's own risk, expense and cost.

(b) It is expressly agreed that the acceptance of the stores Contracted for, is subject to final approval by the purchaser, whose decision shall be final.

(c) If, in the opinion of the purchaser, all or any of the stores do not meet the performance or quality requirements specified in the Purchase Order, they may be either rejected or accepted at a price to be fixed by the purchaser and his decision as to rejection and the prices to be fixed shall be final and binding on the Contractor.

(d) If the whole or any part of the stores supplied are rejected in accordance with Clause No. 8 (c) above, the purchaser shall be at liberty, with or without notice to the Contractor, to purchase in the open market at the expense of the Contractor stores meeting the necessary performance and quality Contracted for in place of those rejected, provided that either the purchase, or the agreement to purchase, from another supplier is made within six months from the date of rejection of the stores as

aforesaid.

2. DELIVERY:

(a) The time for and the date of delivery of the stores stipulated in the Purchase Order shall be deemed to be the essence of the Contract and delivery must be completed on or before the specified dates.

(b) Should the Contractor fail to deliver the stores or any consignment thereof within the period prescribed for such delivery, the purchaser shall be entitled at his option either.

(i) to recover from the Contractor as agreed liquidated damages and not by way of penalty, a sum of 0.5% per week of the price of any stores which the Contractor has failed to deliver as aforesaid or during which the delivery of such store may be in arrears subject to a minimum of 10%, or

(ii) to purchase from elsewhere, without notice to the Contractor on the account and at the risk of the Contractor, the stores not delivered or others of a similar description (where others exactly complying with the particulars, are not, in the opinion of the purchaser, readily procurable, such opinion being final) without cancelling the Contract in respect of the consignment (s) not yet due for delivery, or

(iii) to cancel the Contract or a portion thereof and if so desired to purchase or authorise the purchase of stores not so delivered or others of a similar description (where others exactly complying with the particulars are not, in the opinion of the purchaser, readily procurable, such opinion final) at the risk and cost of the Contractor.

In the event of action being taken under sub-clause (ii) & (iii) of clause 10 (b) above, the Contractor shall be liable for any loss which the purchaser may sustain on that account, provided that the re-purchase or if there is an agreement to re-purchase then such agreement is made within six months from the date of such failure. But the Contractor shall not be entitled to any gain on such re-purchase made against default. The manner and method of such re-purchase shall be at the discretion of the purchaser, whose decision shall be final. It shall not be necessary for the purchaser to serve a notice of such re-purchase on the defaulting Contractor. This right shall be without prejudice to the right of the purchaser to recover damages for breach of Contract by the Contractor.

3. DISPATCH:

The Contractor is responsible for obtaining a clear receipt from the Transport Authorities specifying the goods dispatched. The consignment should be dispatched with clear Railway Receipt/Lorry Receipt. If sent in any other mode, it shall be at the risk of the Contractor. Purchaser will take no responsibility for short deliveries or wrong supply of goods when the same are booked on "said to

contain" basis. Purchaser shall pay for only such stores as are actually received by them in accordance with the Contract.

4. ERECTION OF PLANT & MACHINERY:

Wherever erection of a plant or machinery is the responsibility of the Contractor as per the terms of the Contract and in case the Contractor fails to carry out the erection as and when called upon to do so within the period specified by the purchaser, the purchaser shall have the right to get the erection done through any source of his choice. In such an event, the Contractor shall be liable to bear any additional expenditure that the purchaser is liable to incur towards erection. The Contractor shall, however, not be entitled to any gain due to such an action by the purchaser.

5. EXTENSION OF TIME:

As soon as it is apparent that the Contract dates cannot be adhered to, an application shall be sent by the Contractor to the purchaser. If failure, on the part of the Contractor, to deliver the stores in proper time shall have arisen from any cause which the purchaser may admit as reasonable ground for an extension of the time (and his decision shall be final) he may allow such additional time as he considers it to be justified by circumstances, of the case without prejudice to the purchaser's right to recover liquidated damages under clause 10 thereof.

6. GUARANTEE & REPLACEMENT:

- (a) The Contractor shall guarantee that the stores supplied shall comply fully with the specifications laid down, for material, workmanship and performance.
- (b) For a period of twelve months after the acceptance of the stores, if any defects are discovered therein or any defects therein found to have developed under proper use, arising from faulty stores design or workmanship, the Contractor shall remedy such defects at his own cost provided he is called upon to do so within a period of 14 months from the date of acceptance thereof by the purchaser who shall state in writing in what respect the stores or any part thereof are faulty.
- (c) If, in the opinion of the purchaser, it becomes necessary to replace or renew any defective stores such replacement or renewal shall be made by the Contractor free of all costs to the purchaser, provided the notice informing the Contractor of the defect is given by the purchaser in this regard within the said period of 14 months from the date of acceptance thereof.
- (d) Should the Contractor fail to rectify the defects, the purchaser shall have the right to reject or repair or replace at the cost of the Contractor the whole or any portion of the defective stores.

(e) The decision of the purchaser notwithstanding any prior approval or acceptance or inspection thereof on behalf of the purchaser, as to whether or not the stores supplied by the Contractor are defective or any defect has developed within the said period of 12 months or as to whether the nature of the defects requires renewal or replacement, shall be final, conclusive and binding on the Contractor.

(f) To fulfill guarantee conditions outlined in clause 4 (a) to (e) above, the Contractor shall, at the option of the purchaser, furnish a Bank Guarantee (as prescribed by the purchaser) from a Bank approved by the purchaser for an amount equivalent to 3% of the value of the Contract along with first shipment documents. On the performance and completion of the Contract in all respects, the Bank Guarantee will be returned to the Contractor without any interest.

(g) All the replacement stores shall also be guaranteed for a period of 12 months from the date of arrival of the stores at purchaser site.

(h) Even while the 12 months guarantee applies to all stores, in case where a greater period is called for by our specifications then such a specification shall apply in such cases the period of 14 months referred to in para 4 (b) & (c) shall be the guarantee period plus two months.

7. PERFORMANCE BANK GUARANTEE:

Supplier has to submit an interest free Performance Bank Guarantee for an amount equivalent to 3% (THREE PERCENT) of order value obtained from any scheduled Banks executed on Rs.200/- non-judicial stamp paper and shall be valid for a period of sixty days beyond expiry date of warranty period. The same shall be submitted along with Invoice towards final payment.

8. PACKING FORWARDING & INSURANCE:

The Contractor will be held responsible for the stores being sufficiently and properly packed for transport by rail, road, sea or air to withstand transit hazards and ensure safe arrival at the destination. The packing and marking of packages shall be done by and at the expense of the Contractor. The purchaser will not pay separately for transit insurance, all risks in transit being exclusively of the Contractor and the Purchaser shall pay only for such stores as are actually received in good condition in accordance with the Contract.

9. PRICES:

Tender offering firm prices will be preferred. Where a price variation clause is insisted upon by a tenderer, quotation with a reasonable ceiling should be submitted. Such offers should invariably be supported by the base price taken into account at the time of tendering and also the formula for any such variation/s.

10. REJECTED STORES:

Rejected stores will remain at destination at the Contractor risk and responsibility. If instructions for their disposal are not received from the Contractor within a period of 14 days from the date of receipt of the advice of rejection, the purchaser or his representative has, at his discretion, the right to scrap or sell or consign the rejected stores to Contractor's address at the Contractor's entire risk and expense, freight being payable by the Contractor at actuals.

11. SECURITY DEPOSIT(SD):

The Supplier shall provide Bank Guarantee for an amount equivalent to the 3% (Three PERCENT) of the total Order value towards Security Deposit for the due performance of the Purchase Order. The Security Deposit can be submitted in the form of Bank Guarantee (format enclosed) or Fixed Deposit receipt obtained from any Nationalized/ Scheduled Bank and it shall be kept valid for a period of sixty days beyond the date of completion of the Purchase Order. This Security Deposit will be returned to the Supplier only upon successful completion of all the contractual obligations or shall be adjusted/ forfeited against non-fulfilment of any of the contractual obligations. The Security Deposit shall be submitted within 30 days from the date of receipt of Purchase Order.

12. TEST CERTIFICATE:

Wherever required, test certificates should be sent along with the dispatch documents.

13. The Purchaser shall mean the President of India or his successors or assigns.

C. Bid Templates

C.1 Technical Bid - SUPPLY OF GAS CHROMATOGRAPH

1. Supply, Installation, Commissioning, Testing, Demonstration and Training of Gas Chromatography (GC) Analyzer

Item specifications for Supply, Installation, Commissioning, Testing, Demonstration and Training of Gas Chromatography (GC) Analyzer

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	SPECIFICATIONS OF GAS CHROMATOGRAPH WITH TCD & FID		-		
2	1.CONFIGURATION :		-		
3	Micro processor based unit with two capillary injectors, Thermal Conductivity Detector (TCD) and Flame Ionization Detector (FID) along with Hydrogen Gas generator, Zero Air generator and Nitrogen Gas generator.		-		
4	2.SCOPE:		-		
5	a) Determination of purity and impurities in Mono Methyl Hydrazine (MMH), UH-25 and Hydrazine propellants used for launch vehicles and satellites in ISRO.		-		
6	b)To analyze purity and impurities of organic solvents.		-		
7	3.COLUMN OVEN:		-		
8	Oven size : 280 x 280 x 200 mm HxWxD (app.)		-		

9	Temperature range: Ambient to 450 deg C		-		
10	Temperature accuracy: ± 1 % of the set temp.		-		
11	Cooling speed: 450 deg C to 50 deg C within 4 minutes		-		
12	Heating rate : 150 deg C per minute		-		
13	No. of Ramps / plateaus: 24 Ramps / 25 Plateaus		-		
14	Oven should have provisions for automatic cooling without opening the door.		-		
15	Should have selected initial and final temperature programmable for multi cycle operation.		-		
16	4.INJECTORS:		-		
17	Complete electronic flow control for injector (including Split flow) and detectors.		-		
18	Range of injectors include : Split/splitless, cold- on-column, flash, packed-on-column, and programmable temperature vapourizing injector.		-		
19	Other inlet systems : Liquid Sampling Valves (LSV) for sample introduction.		-		
20	Back flush and quick switch valve capability (optional).		-		
21	Detector includes : Flame Ionisation Detector (FID) and Thermal Conductivity Detector (TCD)		-		
22	Necessary adaptors to operate with capillary Wide Bore column and packed columns.		-		

23	Temperature Range: Ambient to 450 deg C in step of 1 deg C.		-		
24	Suitable interchangeable accessories for capillary column to packed column.		-		
25	5.SPLIT – SPLITLESS CAPILLARY INJECTOR:		-		
26	To operate with capillary and wide bore.		-		
27	Suitable for all capillary columns (50 micrometer to 530 micrometer)		-		
28	Large volume split less injection (4 micro litres) without requiring pressure pulse to quantitatively recover the whole sample.		-		
29	Temperature Range : Ambient to 400 deg C in step of 1 deg C		-		
30	Constant pressure & flow mode		-		
31	6.PNEUMATICS: (Electronic Flow control for Split/Split less inlet)		-		
32	Electronic carrier gas control is performed through an integrated pressure and mass flow controller which must be able to control column pressure or flow rate.		-		

33	Programmable head pressure control (0.1 to 150 psi) or constant electronic flow control (0.1 to 100 ml/min.), programmable split ratio control (1 to 10000), adjustable septum purge, pressure pulse injector mode (0.1 to 150 psi) and gas saver mode. For 100 to 1000 µm diameter fused silica columns, 1 to 250 meter length. Maximum temperature limit : 450°C.		-		
34	Provision for automatic column leak test.		-		
35	All the pressure and flow controls should be electronically controlled. Corresponding values should be digitally displayed.		-		
36	Should have flow adjustments variable from 0 to 1500 ml / min.		-		
37	7.GC CONTROL:		-		
38	Digital display of oven, injector and detector temperatures.		-		
39	Pressure and flow parameters of carrier gases and type of carrier gas.		-		
40	Graphic array of temperature programming and the sample run.		-		
41	Key board control for oven, injector and detector base body temperature settings.		-		
42	Carrier gas pressure and flow rate settings, automatic system leak check and automatic column evolution to prevent RT variation.		-		

43	Real time clock programming with auto start, real time system diagnostics, instrument start diagnostics, sampling valve actuation and stop watch.		-		
44	Multiple safety features are provided with few controls like maximum column temperature settable by the user using password protection.		-		
45	8. DETECTORS:		-		
46	a) THERMAL CONDUCTIVITY DETECTOR:		-		
47	Dual filament		-		
48	High performance in terms of sensitivity and linearity for wide bore & capillary columns		-		
49	Control board for digital as well as analog acquisition		-		
50	Cell volume: 200 micro liters or less		-		
51	Gas flow up to 100 ml per minute		-		
52	Temperature Range : Ambient to 400 deg C		-		
53	Linear dynamic range: 1000000		-		
54	Filament temperature safety cut off		-		
55	10 times amplification for trace level Analysis		-		

56	Start up kit (SS tubings 2mm x1mm x 3 meter long-3 Nos., Male plug brass-10 nos., Union Tee connect Brass – 5 Nos., Locking nut SS – 10 Nos., Septum – 50 Nos, Ferrules- 50 Nos., Bubble flow meter- 1No. etc)		-		
57	b)FLAME IONIZATION DETECTOR:		-		
58	Type : Flame ionization		-		
59	High performance in terms of sensitivity and linearity		-		
60	Temperature Range : Ambient to 400 deg C in steps of 0.1 deg C.		-		
61	Sensitivity: More than 0.03 Coulombs per gram of Carbon		-		
62	Linear dynamic range:10000000		-		
63	Control board for digital and analog acquisition		-		
64	Flame out Detection and automatic re-ignition.		-		
65	Ceramic and stainless steel jet and jet replacement tool		-		
66	9.COLUMNS		-		
67	A set of capillary columns & packed columns suitable to carry out analysis as per specification mentioned in the scope.		-		
68	One more set of capillary columns as a standby suitable to carry out analysis as per specification mentioned in the scope.		-		

69	HETP of column should be mentioned along with certification.		-		
70	10. ACCESSORIES		-		
71	10.1 Hydrogen Gas Generator		-		
72	10.2 Zero Air Generator		-		
73	10.3 Nitrogen Gas Genrator		-		
74	11. POWER REQUIREMENT		-		
75	230 V AC 50 Hz		-		
76	12. OPERATING SYSTEM:		-		
77	Computer: It should be supplied with suitable PC (Intel Core i7 processor, 32 GB RAM or higher, RAM expandability up to 128 GB) having an interface cord and standard configurations with LED monitor, with two serial and one parallel ports and standard key board for warranty period of three years.		-		
78	Printer: Laser Jet color printer which is windows compatible.		-		
79	Auto Diagnostics: Exhaustive checks should correct operations and status of GC control, CPU, ROM, RAM, key board.		-		
80	13. SPARE PARTS :		-		

81	Spare parts required for 2 years trouble free operation & maintenance of GC shall be quoted separately along with break-up cost. IPRC will decide the required spare parts for maintenance.		-		
82	14. SOFTWARE: Window based software with interface card with PC and printer for dual channel operation. The soft ware should have minimum factors such as:		-		
83	Control and acquisition / data handling		-		
84	Full digital control of methods		-		
85	To store unlimited method files.		-		
86	Scheduled files.		-		
87	Report formats.		-		
88	Chromatograph for comparison.		-		
89	Manual base corrections.		-		
90	Multi level calibrations.		-		
91	System suitability parameters etc.		-		
92	On screen time display of incoming chromatogram with adjustable expansion. Multipoint, linear quadratic or geometric calibration curves with regression statistics, on screen display and editing options.		-		

93	Grouping of non consecutive peaks, chromatogram addition, subtraction, rationing, differentiation, stacking, offsetting & comparing.		-		
94	External standard, internal standard, area normalization and area % calibration methods.		-		
95	Automatic base line correction.		-		
96	15. INSTALLATION / COMMISSIONING:		-		
97	All infra structural facilities required for installing and commissioning of the system should be furnished. All accessories required for installation and commissioning of the equipment are to be supplied along with the equipment. A responsible service personnel / local agent should be entrusted with the task of Installation / Commissioning of the system.		-		
98	16. DEMONSTRATION:		-		
99	The vendor should demonstrate the full capability of the system with respect to its claimed capabilities such as repeatability of analysis		-		
100	17. TECHNICAL COMPLIANCE STATEMENT:		-		

101	The vendor should enclose the technical compliance statements against our technical specifications clearly mentioning Yes or No for various points. The statement should be supported by relevant literature/data.		-		
102	18. MANUALS:		-		
103	Operating and Maintenance manual with all necessary information required to run the instrument smoothly should be given in both soft and hard forms along with the system.		-		
104	19. TRAINING:		-		
105	Training related to operation, maintenance and troubleshooting etc is to be imparted to the lab personnel for sufficient period at our Laboratory without any extra charge.		-		
106	20. WARRANTY:		-		
107	Vendor should provide comprehensive warranty for minimum one year after successful commissioning and installation or 18 months from the date of supply.		-		
108	21. AFTER SALES SERVICES & MAINTENANCE CONTRACT		-		

109	Vendor has to give assurance of providing efficient after sales services and undertaking maintenance contract with IPRC after the expiry of warranty period on mutually agreeable terms & conditions		-		
110	22. ANNUAL MAINTENANCE CONTRACT:		-		
111	The vendor has to quote firm & fixed AMC charges for three years after completion of warranty period on following terms. Cost for each Preventive Maintenance visit (Two Nos.) and cost for one breakdown visit per annum.		-		
112	23. PREVENTIVE MAINTENANCE:		-		
113	Vendor's representative shall visit once in six months for preventive inspection and maintenance.		-		
114	24. BREAK DOWN MAINTENANCE (ON CALL BASIS):		-		
115	In case of AMC Parties representative will visit within 48 hours of notice of breakdown and make the system operative within next 48 hours. Vendor has to give a list of spares with cost, which may be required for three years of trouble free service under optional spares.		-		
116	25. GENERAL TERMS AND CONDITIONS:		-		

117	The item shall be supplied at IPRC, Mahendragiri, Tirunelveli district, Tamil Nadu.		-		
118	Item should be packed in good condition to avoid any transit damage.		-		
119	Payment shall be made after installation and commissioning of the equipment at IPRC, Mahendragiri		-		

Common Specifications (Applicable for all items)

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Pre Qualification Criteria The bidder must be a manufacturer of Gas Chromatograph or Authorized dealer of the manufacturer. Manufacturer shall submit copy of ISO certification or equivalent.		-		
2	The dealer shall submit a valid authorization letter from the manufacturer.		-		
3	Bidder shall submit minimum two purchase order copies for similar Gas Chromatograph in the past five years for our reference.		-		

4	Along with that the bidder has to enclose performance and acceptance certificate for the supplied Gas Chromatograph issued by the respective users.		-		
5	Vendors or Agents of a Vendor (Indians or others) from a country sharing boarder with India shall submit copy of valid registration certificate.		-		
6	The Registration made with Department for Promotion of Industry and Internal Trade (DPIIT), Government of India along with the tender mandatorily, without which the offer will be treated as invalid.		-		

Supporting Documents required from Vendor

- 1. List of Customers with Purchase Order for the similar / model quoted**
- 2. Price Bid Break up**
- 3. Performance and Acceptance certificate by the user**
- 4. Authorisation Letter from Original Equipment Manufacturer**
- 5. Original Brochure of the equipment quoted**

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	3..Payment shall be made after installation and commissioning of the equipment at IPRC, Mahendragiri	Yes / No / Explain	
2	2. Item should be packed in good condition to avoid any transit damage.	Yes / No / Explain	
3	1. The item shall be supplied at IPRC, Mahendragiri, Tirunelveli district, Tamil Nadu.	Yes / No / Explain	
4	Taxes and other costs, if any: (Specify) IPRC/ISRO is eligible to avail Concessional rate of GST@5% shall be paid extra against Ministry of Finance, Dept. of Revenue Notification No. 1/2017 Integrated Tax (Rate), Schedule-I; Sl. No. 243B dated 28/06/2017 as amended by Notification No. 07/2018 & 25/2018 Integrated Tax (Rate) dated 31.12.2018.	Yes / No / Explain	
5	Validity of Offer (specify) [Minimum 120 days required]	Yes / No / Explain	
6	Delivery Period (specify)	Yes / No / Explain	
7	Delivery Terms: Normal delivery terms - FOR Destination (i.e., IPRC, Mahendragiri)	Yes / No / Explain	
8	PAYMENT TERMS - Our normal payment terms is 100% within 30 days of receipt and acceptance of the items (No advance payment allowed). Specify your payment terms.	Yes / No / Explain	

9	<p>Security Deposit: Supplier shall submit an interest free Security Deposit for an amount equivalent to 3% of the order value, obtained through Bank Guarantee or fixed deposit receipt from any of the Nationalized/Scheduled Banks executed on non-judicial stamp paper of Rs.200/- value, and shall be kept valid for a period of sixty days beyond the date for completion of the Purchase Order. The Security Deposit can be submitted within 15 days from date of PO.</p> <p>1.In case of BG, confirmation for issued BG may be sent by issuing Bank/Branch to : IFSC Code: SBIN0000880; SBI, Nagercoil Branch.</p> <p>2.In case of FDR, the lien should be marked to Sr. Accounts Officer, IPRC, Mahendragiri.</p> <p>3.In case of DD, it should be drawn in the favour of Sr. Accounts Officer, IPRC, Mahendragiri, payable at Mahendragiri.</p>	Yes / No / Explain	
10	Confirm: Conditions for BIDDER FROM A COUNTRY WHICH SHARES LAND BORDER WITH INDIA	Yes / No / Explain	
11	Name of PRINCIPAL, Address, Contact No, E-mail Id etc. (specify):	Yes / No / Explain	
12	Name, Address, contract no. E-mail ID etc., (specify)	-	
13	Currency quoted (specify)	Yes / No / Explain	
14	Warranty / Guarantee Period: (specify)	Yes / No / Explain	
15	Liquidated Damages - Delivery is the essence of the order. If delivery is delayed beyond the stipulated delivery period, LD at 0.5% per week shall be recovered subject to a maximum of 10% of order value of undelivered items	Yes / No / Explain	
16	Only Class-I and Class-II Local suppliers as per Make in India Policy are eligible to participate in the bid. Percentage of Local Content for the offered item / items shall be specified	Yes / No / Explain	

17	MSE preference is applicable only against the claim of the manufacturer and production of documentary evidence by the manufacturer	Yes / No / Explain	
18	Bank Details (State Bank of India, Mahendragiri, Tirunelveli (Dist) - 627 133) Details of your bank shall be furnished.	Yes / No / Explain	
19	Percentage of Local Content	Yes / No / Explain	
20	PERFORMANCE BANK GUARANTEE: Supplier shall furnish Performance Bank Guarantee for an amount equivalent 3% of order value on Non-Judicial stamp paper of appropriate value, obtained from any of the scheduled / nationalized Banks, valid for a period of 60 days beyond completion of warranty period.	Yes / No / Explain	
21	Any other terms	Yes / No / Explain	

C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Remark
1	Supply, Installation, Commissioning, Testing, Demonstration and Training of Gas Chromatography (GC) Analyzer	1.00 Nos.		-		