



TENDER DOCUMENT FOR

Supply, Installation & Commissioning of High-Resolution Gas Chromatograph Mass Spectrometer with Thermal Desorption unit and sampling station Qty. - 2 Sets

**INDIAN INSTITUTE OF TROPICAL METEOROLOGY
(AN AUTONOMOUS INSTITUTE OF MINISTRY OF EARTH SCIENCES, GOVERNMENT OF INDIA)**

**DR. HOMI BHABHA ROAD, PASHAN, PUNE 411 008
MAHARASHTRA, INDIA**



INDIAN INSTITUTE OF TROPICAL METEOROLOGY

(AN AUTONOMOUS INSTITUTE OF MINISTRY OF EARTH SCIENCES, GOVERNMENT OF INDIA)

DR. HOMI BHABHA ROAD, PASHAN, PUNE 411 008 MAHARASHTRA, INDIA

Tel #: 00 91 20 2590 4200

Fax #: 00 91 20 2586-5142

Email: pws@tropmet.res.in

Website: www.tropmet.res.in

Invitation for Bids through E-procurement

Date: 16/01/2026

The Indian Institute of Tropical Meteorology (IITM), Pune an autonomous body under Ministry of Earth Sciences (MoES), Govt. of India. IITM is country's premiere research Institute to generate scientific knowledge in the field of meteorology and atmospheric sciences that has potential application in various fields such as agriculture, economics, health, water resources, transportation, communications, etc. It functions as a national centre for basic and applied research in monsoon meteorology. The Director, IITM would like to procure the following Goods / Services for its day-to-day research. The Technical specifications, Allied requirements and Scope of Supply are given in **Chapter 4** appended herewith.

Sr. No.	Tender No.	Brief Description of Goods / Services	Quantity	Single / Two Bid
1	PS/125/44/2025	Supply, Installation & Commissioning of High-Resolution Gas Chromatograph Mass Spectrometer with Thermal Desorption unit and sampling station	2 Sets	Two

1. The bid has to be submitted online on Institute's e-procurement system hosted at website <https://moes.ewizard.in> as per the process mentioned on the same website. Bidder has to register on the above website & to pay the transaction fee directly to M/s. ITI Limited to participate in the bidding process through e-procurement. Bidders are advised to follow the instructions provided in 'Vendor's Guide' available on the said e-procurement website. Bidders can contact at **011-49606060** for any technical queries regarding registration and submission of bid on the above portal.
2. The address for submission of technical bids only and for obtaining further information:
Administrative Officer (Purchase and Store Section)
Indian Institute of Tropical Meteorology,
Dr. Homi Bhabha Road, Pashan,
Pune - 411008 (India)
3. A Pre-bid Conference will be held on schedule mentioned below. All prospective bidders are requested to kindly submit their queries to the address indicated above so as to reach the Stores & Purchase Officer at least one day before Pre-Bid Conference. **The Hybrid pre-bid meeting will be conducted and the link for the meeting will be shared on request.** Bidders are requested to send email on pws@tropmet.res.in on or before **20-08-2025 1730 hrs.**

	Date	Time in hours (IST)	Venue
Pre-Bid Conference	22-01-2026	1130	IITM, Pune / Online/ Hybrid

4. The Bid prepared by the Bidder shall include the following:-

i)	Bid Security
	a) In case of Foreign Bidder : USD 54151
	b) In case of Indigenous Bidder : Rs. 49,05,000/-

5. All bids must be accompanied by a Bid Security as specified above and must be delivered to the above office before the date and time indicated below. In the event of the date specified for bid receipt is declared as a closed holiday, the due date for submission of bids will be the following working day at the appointed time.
6. The Schedule for Submission of Bids is as follows:-

	Date	Time in hours (IST)	Submit to / Venue
Submission of Bids	13 th Feb 2026	Upto 1500 hrs.	As detailed at Sr. No.1
Opening of Bids	13 th Feb 2026	1530 hrs	

7. The Director, **The Indian Institute of Tropical Meteorology (IITM), Pune** reserves the right to accept or reject any or all tenders / offers either in part or in full or to split the order without assigning any reasons there for. NIT has also been published on Government's Central Procurement Portal (CPP) <http://www.eprocure.gov.in> as well as this Institute's Website: <http://www.tropmet.res.in> which may also be referred for more details.

CONTENTS OF TENDER / BIDDING DOCUMENT

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LIST OF SHORT FORMS AND FULL FORMS

SHORT FORM	FULL FORM
BG	BANK GUARANTEE
BS	BID SECURITY
CIF	COST INSURANCE & FREIGHT
CIP	CARRIAGE PAID TO
IITM	INDIAN INSTITUTE OF TROPICAL METEOROLOGY,
CVC	CENTRAL VIGILANCE COMMISSION
DGS&D	DIRECTOR GENERAL OF SUPPLIES & DISPOSAL
EMD	EARNEST MONEY DEPOSIT
ESIC	EMPLOYEES STATE INSURANCE CORPORATION
FCA	FREE CARRIER
FOB	FREE ON BOARD
GCC	GENERAL CONDITIONS OF CONTRACT
GOI	GOVERNMENT OF INDIA
ICC	INTERNATIONAL CHAMBERS OF COMMERCE
IEMs	INDEPENDENT EXTERNAL MONITORS
IP	INTEGRITY PACT
IPC	INDIAN PENAL CODE
IST	INDIAN STANDARD TIME
IT	INCOME TAX
ITB	INSTRUCTIONS TO BIDDERS
JS (A)	JOINT SECRETARY (ADMINISTRATION)
LC	LETTER OF CREDIT
LD	LIQUIDATED DAMAGES
MAF	MANUFACTURER AUTHORISATION FORM
NIT	NOTICE INVITING TENDER
NSIC	NATIONAL SMALL INDUSTRIES CORPORATION
MSME	MICRO, SMALL AND MEDIUM ENTERPRISES
PS	PERFORMANCE SECURITY
SCC	SPECIAL CONDITIONS OF CONTRACT
UNCITRAL	UNITED NATIONS COMMISSION ON INTERNATIONAL TRADE LAW

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A. Introduction

Instructions to bidder are broad guidelines to be followed while formulating the bid and its submission to the Purchaser. It also describes the methodology for opening and evaluation of bids and consequent award of contract.

1.1 Eligible Bidders

- 1.1.1.** This Invitation for **Bids is open for all bidders.**
- 1.1.2.** Bidders should not be associated, or have been associated in the past, directly or indirectly, with a firm or any of its affiliates which have been engaged by the Purchaser to provide consulting services for the preparation of the design, specifications, and other documents to be used for the procurement of the goods to be purchased under this Invitation of Bids.
- 1.1.3.** Bidders who fulfil the Eligibility Criteria mentioned in **Chapter 5** will be considered for Technical Evaluation of bids.

1.2 Cost of Bidding

The Bidder shall bear all costs associated with the preparation and submission of its bid, and "the Purchaser", will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

1.3 Fraud and corruption

- 1.3.1.** The purchaser requires that the bidders, suppliers and contractors observe the highest standard of ethics during the procurement and execution of such contracts. In pursuit of this policy, the following are defined:

Sr. No.	Term	Meaning
(a)	Corrupt practice	The offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the action of a public official in the procurement process or in contract execution.
(b)	Fraudulent practice	a misrepresentation or omission of facts in order to influence a procurement process or the execution of a contract.
(c)	Collusive practice	means a scheme or arrangement between two or more bidders, with or without the knowledge of the purchaser, designed to establish bid prices at artificial, non-competitive levels.
(d)	Coercive practice	means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the procurement process or affect the execution of a contract.

- 1.3.2.** The Purchaser will reject a proposal for award if it determines that the Bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for the Contract in question.

B. The Bidding Documents

1.4 Cost of Bidding Documents

The bidding documents are to be downloaded from Institute's e-procurement website hosted at <https://moes.ewizard.in> as per the procedure mentioned on the said website. The bidding document is free of cost however transaction fees mentioned on the website has to be paid according to the procedure mentioned at the website.

1.5 Content of Bidding Documents

- 1.5.1.** The Goods / Services required, bidding procedures and contract terms are prescribed in the bidding documents which should be read in conjunction. The bidding documents, apart from the Invitation for Bids / Notice Inviting Tender have been divided into Eight Chapters.
- 1.5.2.** The Bidder is expected to examine all instructions, forms, terms, and specifications in the bidding documents. Failure to furnish all information required by the bidding documents or submission of a bid not substantially responsive to the bidding documents in every respect will be at the Bidder's risk and may result in rejection of its bid.

1.6 Clarification of bidding documents

1.6.1. In case when there is NO PRE-BID CONFERENCE

A prospective Bidder requiring any clarification of the Bidding Documents shall contact the Purchaser in writing at the Purchaser's address specified in the Special Conditions of Contract (SCC). The Purchaser will respond in writing to any request for clarification, provided that such request is received not later than ten (10) days prior to the due date for submission of bids. The Purchaser shall host the response on its website, including a description of the inquiry but without identifying its source. Should the Purchaser deem it necessary to amend the Bidding Documents as a result of a clarification, it shall do so following the procedure under **Clause 1.7** relating to amendment of bidding documents and **Clause 1.19** relating to Due date for Submission of Bids. The clarifications and amendments issued would also be hosted on the website of the purchaser for the benefit of the prospective bidders who are expected to take cognizance of the same before formulating and submitting their bids.

1.6.2. In case when there is PRE-BID CONFERENCE

- a) A prospective Bidder requiring any clarification of the Bidding Documents shall contact the Purchaser in writing at the Purchaser's address specified in the Special Conditions of Contract (SCC), latest by the date specified in the Invitation for Bids / NIT which would be deliberated as per **Clause 1.6.2 (b)** of Instructions to the Bidders. No request for clarification or query shall be normally entertained after the **Pre-Bid Conference**. Should the Purchaser deem it necessary to amend the Bidding Documents as a result of a clarification, it shall do so following the procedure under **Clause 1.7** relating to amendment of Bidding Documents and **Clause 1.19** relating to Due Date for Submission of Bids. The clarifications and amendments issued would also be hosted on the website of the Purchaser for the benefit of the other prospective bidders.
- b) A Pre-bid Conference shall be held as indicated in Invitation to Bid. All prospective bidders are requested to kindly attend or may depute their authorized representative for the Pre-bid Conference. In order to facilitate IITM for proper conduct of the Pre-bid Conference, all prospective bidders are requested to kindly submit their queries (through email id psu.iitm@tropmet.res.in or with envelope bearing Tender No. and Date on top and marked "Queries for Pre-bid Conference) so as to reach IITM as indicated in Invitation to Bid. IITM shall answer the queries during the pre-bid conference, which would become a part of the proceedings of the Pre-bid Conference. These proceedings will become a part of clarifications / amendments to the bidding documents and would become binding on all the prospective bidders. These proceedings would also be hosted on IITM website www.tropmet.res.in for the benefit of all the prospective bidders. Before formulating and submitting their bids, all prospective bidders are advised to surf through the IITM website after the Pre-bid Conference, in order to enable them take cognizance of the changes made in the bidding document.

1.7 Amendment to Bidding Documents

- 1.7.1. At any time prior to the due date for submission of bids, the Purchaser may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the bidding documents by amendment.
- 1.7.2. All prospective bidders who have downloaded the Tender Document should surf Institute's e-procurement website <https://moes.ewizard.in> from time to time to know about the changes / modifications in the Tender Document. All prospective bidders are expected to surf the website before formulating and submitting their bids to take cognizance of the amendments.
- 1.7.3. In order to allow prospective bidders reasonable time to take the amendment into account while formulating their bids, the Purchaser, at its discretion, may extend the due date for the submission of bids and host the changes on the website of the purchaser.

C. Preparation of bids

1.8 Language of Bid

- 1.8.1. The bid prepared by the Bidder, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Purchaser, shall be written in English language only especially when the details are technical. However, if GOI makes it mandatory under Rajbhasha Abhiyan, in that case views of Rajbhasha unit of IITM may be sought.

1.8.2. The Supplier shall bear all costs of translation, if any, to the English language and bear all risks of the accuracy of such translation, for documents provided by the Supplier.

1.9 Documents Comprising the Bid

The bid prepared by the Bidder shall include the following as per the requirement of the Tender Document:

a	Bid Security as specified in the Invitation to Bids
b	Bidder Information Form
c	Manufacturer's Authorization Form
d	Documents required to fulfil Eligibility and Qualification criteria as specified in Chapter-5
e	Detailed Technical Specifications and Scope of Supply
f	Schedule of requirements
g	Performance Statement Form
h	Service support details form
i	Deviation Statement Form
j	Bid form
k	Price Schedule Form(s)
l	Documentary evidence establishing that the bidder is eligible to bid and is qualified to perform the contract if its bid is accepted
m	Documents establishing goods eligibility and conformity to bidding documents
n	DGS&D Registration certificate in case the items under procurement falls under the restricted category of the current export-import policy of the Government of India

The documents comprising bid should be submitted in the **above sequence in orderly manner**.

1.10 Bid form and Price Schedule

The bidder shall complete the Bid Form and the appropriate Price Schedule form as given in Chapter- 6 furnished in the bidding documents. These forms must be completed without any alterations to its format and no substitutes shall be accepted. All blank spaces shall be filled in with the information requested. The Bid Form and the appropriate Price Schedule form shall be submitted in accordance with **ITB Clause 1.18.3** of the bidding documents.

1.11 Bid Prices

1.11.1. The Bidder shall indicate on the appropriate price schedule form, the unit prices and total bid prices of the Goods / Services it proposes to supply / to provide (render) under the contract.

1.11.2. Prices indicated on the price-schedule form shall be entered separately in the following manner:

(a) **For Goods manufactured within India:**

i)	The price of the goods quoted Ex-works including taxes already paid.
ii)	GST and other taxes like LBT / Octroi etc. which will be payable on the goods if the contract is awarded.
iii)	The charges for inland transportation, insurance and other local services required for delivering the goods at the desired destination as specified in the price schedule form.
iv)	The installation, commissioning and training charges including any incidental services, if any.

(b) **For Goods manufactured abroad:**

i)	The price of the goods, quoted on FCA (named Airport abroad) or FOB (named port of shipment), as specified in the price schedule form.
ii)	The charges for insurance and transportation of the goods to the port / place of destination.
iii)	The agency commission charges payable to Indian agent in Indian rupees, if any.
iv)	The installation, commissioning and training charges including any incidental services, if any.

1.11.3. The terms FOB, FCA, CIF, CIP etc shall be governed by the rules prescribed in the current edition of the Incoterms published by the International Chambers of Commerce, Paris.

- 1.11.4. Where there is no mention of packing, forwarding, freight, insurance charges, taxes etc. such offer shall be rejected as incomplete.
- 1.11.5. The price quoted shall remain fixed during the contract period and shall not vary on any account.
- 1.11.6. All lots and items must be listed and priced separately in the Price Schedules. If a Price Schedule shows items listed but not priced, their prices shall be assumed to be included in the prices of other items. Lots or items not listed in the Price Schedule shall be assumed to be not included in the bid.
- 1.11.7. The purchases made by the purchaser for scientific purpose are exempt from Custom Duty and GST and are charged at a concessional rate, as follows:-

	The Purchaser is exempted from payment of Custom Duty vide Govt. Of India Notification No.51/96 Customs dated 23rd July, 1996.
GST	The Purchaser is registered with Department of Scientific and Industrial Research (DSIR) for purposes of availing GST concession in terms of Notification No. 47/2017 Integrated Tax (Rate) dt. 14/11/2017, Notification No. 45/2017 Central Tax (Rate) dt. 14/11/2017 and Notification No. 45/2017 Union Territory Tax (Rate) dt. 14/11/2017. The maximum GST is applicable @ 5% only for goods procured for research purpose of the Institute.

- 1.11.8. In case of imports the freight & insurance will be paid by the Purchaser, as the consignments are to be shipped through the Purchaser nominated freight forwarder **unless otherwise mentioned specifically**.
- 1.11.9. The quotation should be only in Indian Rupees for indigenous items. In case of foreign quote, the vendors may quote their rates in Indian Rupees as well as in Foreign Currency.
- 1.11.10. In case of INR bids the price criteria should be on Free Delivery to IITM, Pune. Govt. Levies like GST, LBT / Octroi etc., if any, shall be paid at actual rates applicable on the date of delivery. Rates should be quoted accordingly giving the basic price, GST etc., if any. IITM is exempted from paying Local Body Tax (LBT) & hence supplier supplying items from outside Pune Municipal limits should quote excluding LBT.
- 1.11.11. Custom Duty is levied on all import meant for IITM. Hence, the suppliers are requested to quote only on FOB/FCA basis, freight, insurance and custom duty as applicable to R&D Institutions will be paid by the Purchaser.

Note: All payments due under the contract shall be paid after deduction of statutory levies at source (like ESIC, IT (TDS), GST, LBT / Octroi etc.), wherever applicable.

1.12 Bid Currencies

Prices shall be quoted in Indian Rupees for offers received for supply within India and in freely Convertible foreign currency in case of offers received for supply from foreign countries.

1.13 Documents Establishing Bidder's Eligibility and qualifications

- 1.13.1. The bidder shall furnish, as part of its bid, documents establishing the bidders' eligibility to bid and its qualification to perform the contract if its bid is accepted.
- 1.13.2. The documentary evidence of the bidders qualification to perform the contract if the bid is accepted shall establish to the purchasers satisfaction that:

(a)	The bidder meets the qualification criteria listed in bidding documents, if any.
(b)	Bidder who doesn't manufacture the goods it offers to supply shall submit Manufacturers' Authorization Form using the form specified in the bidding document to demonstrate that it has been duly authorized by the manufacturer of the goods to quote and / or supply the goods.
(c)	In case a bidder not doing business within India, it shall furnish the certificate to the effect that the bidder is or will be represented by an agent in India, equipped and able to carry out the supply, maintenance, repair obligations etc. during the warranty and post warranty period or ensure a mechanism at place for carrying out the supply, maintenance, repair obligations etc. during the warranty and post-warranty period.

- 1.13.3. Conditional tenders / offers shall **not** be accepted.

1.14 Documents Establishing Goods' Eligibility and Conformity to Bidding Documents

1.14.1. To establish the goods' eligibility, the documentary evidence of the goods and services eligibility shall consist of a statement on the country of origin of the goods and services offered which shall be confirmed by a certificate of origin at the time of shipment.

1.14.2. To establish the conformity of the goods and services to the specifications and schedule of requirements of the bidding document, the documentary evidence of conformity of the goods and services to the bidding documents may be in the form of literature, drawings and data, and shall consist of :

(a)	A detailed description of the essential technical and performance characteristics of the goods;
(b)	A list giving full particulars, including available sources and current prices, of spare parts, special tools, etc., necessary for the proper and continuing functioning of the goods during the warranty period following commencement of the use of the goods by the Purchaser in the Price- bid ; and
(c)	An item-by-item commentary on the Purchaser's Technical Specifications demonstrating substantial responsiveness of the goods and services to those specifications or a statement of deviations and exceptions to the provisions of the Technical Specifications.

1.14.3. For purposes of the commentary to be furnished pursuant to above, the Bidder shall note that standards for workmanship, material and equipment, designated by the Purchaser in its Technical Specifications are intended to be descriptive only and not restrictive. The Bidder may substitute these in its bid, provided that, it demonstrates to the Purchaser's satisfaction that the substitutions ensure substantial equivalence to those designated in the Technical Specifications.

1.15 Bid Security (BS) / Earnest Money Deposit (EMD)

1.15.1. The Bidder shall furnish, as part of its bid, a Bid security (BS) / Earnest Money Deposit (EMD) of amount as specified in NIT in the form of a Bank Guarantee / Demand Draft drawn on any Scheduled / Commercial / Nationalized Bank in favour of the Director, **The Indian Institute of Tropical Meteorology (IITM), Pune**, The scan copy of the Bid Security / Earnest Money Deposit (EMD) has to be uploaded in the e-procurement website of the Institute and Original copy of the same has to be kept in the Technical Bid envelop which needs to be submitted on or before date submission of bids. Alternately EMD amount can be deposited in IITM, Pune account by RTGS/NEFT/SWIFT. The details of online transfer may be communicated to IITM Pune immediately.

A. In case of Foreign Bidder(s):

- The BS shall be submitted either by the principal or by the Indian agent.
- The bidder who submits the tender on behalf of their principals should produce documentary evidence in support of their authority to quote.
- The Bank Guarantee is insisted due to steep fluctuations in foreign exchange hence the foreign DDs are not accepted towards BS/EMD

B. In the case of Indigenous bidders:

- The BS shall be submitted by the manufacturer or their specifically authorized dealer/bidder.

1.15.2. Bids submitted without BS/EMD will stand rejected. BS/EMD will not be accepted in the form of cash / cheque or any other form other than DD/Banker's Cheque/TDR/Bank Guarantee as per Chapter-8: Annexure A. No interest is payable on BS/EMD

1.15.3. The bid security is required to protect the Purchaser against the risk of Bidder's conduct, which would warrant the Bid security's forfeiture.

1.15.4. The bid security shall be in Indian Rupees for offers received for supply within India and denominated in the currency of the bid or in any freely convertible foreign exchange in the case of offers received for supplies from foreign countries in equivalent Indian Rupees. The bid security shall be in one of the following forms at the bidders' option:

(a)	A Bank Guarantee (BG) issued by a Nationalized / Scheduled bank / Commercial / Foreign Bank operating in India in the form provided in the bidding documents and valid for 45 days beyond the validity of the bid. In case a bidder desires to submit a BG issued from a foreign bank, then the same should be confirmed by a Nationalised / Scheduled Indian bank;
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OR	
(b)	A Banker's cheque or demand draft in favour of the Purchaser issued by any Nationalised / Scheduled Indian bank / Commercial bank.
OR	
(c)	EMD amount can be deposited in IITM, Pune account by RTGS/NEFT/SWIFT. Account No. : 11099449733 Bank Name and address : STATE BANK OF INDIA IFSC Code : SBIN0000454 Swift Code : SBININBB238

1.15.5. The bid security shall be payable promptly upon written demand by the purchaser in case the conditions listed in the **ITB clause 1.15.11** are invoked.

1.15.6. The bid security should be submitted in its original form. Copies shall not be accepted.

1.15.7. Bid security / EMD is mandatory requirement and exemption is applicable to the firms registered with NSIC / MSME only for the manufacture of the tendered goods and not for selling products manufactured by other companies.

1.15.8. The Bid Security of unsuccessful bidder will be discharged / returned as promptly as possible but positively within a period of 30 days after the expiration of the period of bid validity or placement of order whichever is later, without any interest.

1.15.9. The successful Bidder's bid security will be discharged upon the Bidder furnishing the Performance Security, without any interest. Alternatively, the BS could also be adjusted against Performance Security, if it is paid through Demand Draft / Banker's Cheque.

1.15.10. In case a bidder intimates at the time of tender opening in writing that the bid security is kept inside the financial bid, then in such cases, the technical bid of the party would be accepted provisionally till opening of the financial bids with which the party has attached the bid security.

1.15.11. The bid security may be forfeited:

(a)	If Bidder withdraws or amends or modifies or impairs or derogates its bid during the period of bid validity specified by the Bidder on the Bid Form; OR
(b)	In case of successful Bidder, if the Bidder fails to furnish order acceptance within 14 days of the order or fails to sign the contract and / or fails to furnish Performance Security within 14 days from the date of contract / order.

1.15.12. Whenever the bidder chooses to submit the Bid Security in the form of Bank Guarantee, then he should advise the banker issuing the Bank Guarantee to immediately send by Registered Post (A.D.) an unstamped duplicate copy of the Guarantee directly to the Purchaser with a covering letter to compare with the original BG for the correctness, genuineness, etc.

1.16 Period of Validity of Bids

1.16.1. Bids shall remain valid for minimum of **180 days** after the date of bid opening prescribed by the Purchaser. A bid valid for a shorter period shall be rejected by the Purchaser as non-responsive.

1.16.2. In exceptional circumstances, the Purchaser may solicit the Bidder's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing (or by fax or e-mail). The bid security provided shall also be suitably extended. A Bidder may refuse the request without forfeiting its bid security. A Bidder granting the request will not be required nor permitted to modify its bid.

1.16.3. Bid evaluation will be based on the bid prices without taking into consideration the above corrections.

1.17 Format and Signing of Bid

1.17.1. The bids may be submitted as Single-bid or Two-bid as specified in the Invitation for Bids / NIT through e-procurement system hosted at website <https://moes.ewizard.in> as per the process mentioned on the same website.

1.17.2. In case the bids are invited on single bid basis, then the Bidder shall submit his / her techno-commercial offer (technical literature / specifications & commercial terms & condition only) in a single

bid envelope & shall prepare two copies of the bid, clearly marking each "Original Bid" and "Copy Bid", as appropriate. In the event of any discrepancy between them, the original shall govern. Scan copy of the same (Technical Bid) has also to be uploaded on E-procurement portal. Price bid must be submitted through e-procurement portal only.

- 1.17.3. In case the bids are invited on two-bid system, the Bidder shall submit the bids in two separate parts. First part shall contain Technical bid comprising all documents listed under clause relating to Documents Comprising the Bid excepting bid form and price schedule forms. The second part shall contain the Price-Bid comprising Bid Form and Price Schedule forms. The Bidder shall prepare two copies of the technical bid, clearly marking each "Original Bid" and "Copy Bid", as appropriate & the copies of the documents submitted as a part of Technical Bid in e-procurement system should reach IITM, Pune within 5 working days from the last date of submission of bids on e-procurement system. However, it may please be noted that price bid must be submitted through e-procurement portal only; no hard copy of price bid will be acceptable in any case.
- 1.17.4. The original and all copies of the bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person or persons duly authorized to bind the Bidder to the Contract. All pages of the bid, except for un-amended printed literature, shall be initialled by the person or persons signing the bid.
- 1.17.5. Any interlineations, erasures or overwriting shall be valid only if they are initialled by the person or persons signing the bid.

D. Submission and sealing of Bids

1.18 Submission of Bids

- 1.18.1. The bidders may submit their bids online on Institute's e-procurement portal hosted at <https://moes.ewizard.in> and duly sealed technical bids (with soft copy) along with Earnest Money Deposit may be submitted generally by post or by hand at the Institute on or before last date of submission of bids.
 - a) **The soft copy of the Technical Bid has to be submitted on Institute e-procurement site <https://moes.ewizard.in> as per the instruction given at the site.**
 - b) Price has to be filled on Institute's e-procurement site <https://moes.ewizard.in>. The scanned copy of duly filled in and signed Price Bid has to be uploaded on the above e-procurement site. The prices filled in the e-procurement site will be treated final and shall be binding to the vendor.
 - c) Bidders are advised to follow the instructions provided in 'Vendor's Guide' available on the said e-procurement website. For any query / technical help regarding M/s. ITI Limited E-procurement portal, bidders may directly contact to the following officials of M/S. ITI Limited:-
 - i) Mr. Shubhankar - +91 8076208995
 - ii) Mr Awesh - +91 9205898224 / Mr. Abhishek Kumar - 8210817180
 - iii) Helpdesk Number - 011-49606060
 - iv) Email : helpdeskeuniwizarde@gmail.com

1.18.2. Sealing of Bids in the case of bids invited on Single Bid basis:

The Bidder shall mark the Technical Bids as "original" and "copy". The original and copy Bids shall then be sealed in an envelope & shall submit to this Institute not more than 5 days from the last date of submission of bid online.

1.18.3. Sealing of Bids in the case of bids invited on Two bid basis:

- d) Technical Bid should contain documents as listed in Clause- 1.9 **without mentioning Prices** on Bid Form and Price Schedule Form(s). The Bidder shall seal the original Bid and copy Bid, duly marking the Bids as "original" and "copy". The original and copy Bids shall then be sealed in the Envelope and marked as **Technical Bid**.
- e) Price Bid should contain Bid Form and Price Schedule Form(s) with Rates / Prices filled in as per Chapter 6. Price Bid must be submitted online only through e-procurement portal.

1.18.4. Marking of Envelopes for submission of Technical Bids :

- a) The Technical bid envelope shall be addressed to the Purchaser indicated in the Special Conditions of Contract (SCC).
- b) The name and address of the bidder, Tender No., due date and a warning "Do not open before _____" to be completed with the time and date as specified in the invitation for bids.
- c) Envelope should be super scribed with
 - Tender Number: _____
 - Due Date _____ Time _____
 - Name of the Vendor _____
 - Addressed To:
THE DIRECTOR
THE INDIAN INSTITUTE OF TROPICAL METEOROLOGY,
Dr.HOMI BHABHA ROAD, PASHAN,
PUNE-411 008 (MAHARASHTRA)- INDIA

1.18.5. If Technical Bid envelope is not sealed and marked as required above, the Purchaser will assume no responsibility for the bid's misplacement or premature opening of the submitted bid. In such cases, bids received in open condition within the due date and time will be accepted at the risk of the bidder if the same is presented to the Stores & Purchase Officer before expiry of the due date and time of opening of the bids.

1.19 Due date for Submission of Bids

- 1.19.1.** Bids must be received by the Purchaser at the address specified in NIT not later than the time and date specified in NIT. In the event of the specified date for the submission of Bids being declared a holiday for the Purchaser, the Bids will be received up to the appointed time on the next working day.
- 1.19.2.** The Purchaser may, at its discretion, extend the due date for submission of bids by amending the bid documents in accordance with Clause relating to Amendment of Bidding Documents in which case all rights and obligations of the Purchaser and Bidders previously subject to the due date will thereafter be subject to the due date as extended.
- 1.19.3.** The online tender should be submitted strictly as per the terms and conditions and procedures laid down in the website <https://moes.ewizard.in> e-procurement portal of the Institute.
- 1.19.4.** Bidders may also refer instructions towards terms and conditions and procedures for bidding through e-procurement portal <https://moes.ewizard.in> as per detailed in **Annexure – M**.

1.20 Submission of Bids

- 1.20.1.** Online submission of the bid will not be permitted on the e-procurement portal after expiry of submission time and the bidder shall not be permitted to submit the same by any other mode.
- 1.20.2.** The copies of the documents submitted as a part of Technical Bid in e-procurement system should reach IITM, Pune within 5 working days from the last date of submission of bids on e-procurement system. The bids shall be liable to reject if the document not received within stipulated deadline and the uploaded online bid on the portal shall be considered as non-responsive and shall not be processed further. In case of any discrepancy between online uploaded technical bid and hard copy submitted at this Institute, the online copy shall be considered as final.

1.21 Withdrawal, substitution and Modification of Bids

- 1.21.1.** The Withdrawal, substitution and Modification of Bids is permitted as per the provisions of the e-procurement system.
- 1.21.2.** No bid may be withdrawn, substituted, or modified in the interval between the due date for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Bid Form or any extension thereof.

E. Opening and Evaluation of Bids

1.22 Opening of Bids by the Purchaser

1.22.1. Opening of Bids by the Purchaser will be done as per the provisions of the e-procurement system.

In the event of the specified date of Bid opening being declared a holiday for the Purchaser, the Bids shall be opened at the appointed time and location on the next working day. In case of two-bid, the Price bid shall be opened only after technical evaluation.

1.22.2. Bidders interested in participating in the bid opening process, should witness the tender opening process on e-procurement system.

1.23 Confidentiality

1.23.1. Information relating to the examination, evaluation, comparison, and post qualification of bids, and recommendation of contract award, shall not be disclosed to bidders or any other persons not officially concerned with such process until Award of the Contract.

1.23.2. Any effort by a Bidder to influence the Purchaser in the examination, evaluation, comparison, and post qualification of the bids or contract award decisions may result in the rejection of its Bid.

1.24 Clarification of Bids

To assist in the examination, evaluation, comparison and post qualification of the bids, the Purchaser may, at its discretion, ask the Bidder for a clarification of its bid. The request for clarification and the response shall be in writing and no change in prices or substance of the bid shall be sought, offered or permitted. However, no negotiation shall be held except with the lowest bidder, at the discretion of the purchaser. Any clarification submitted by a bidder in respect to its bid which is not in response to a request by the purchaser shall not be considered.

1.25 Preliminary Examination

1.25.1. The Purchaser shall examine the bids to confirm that all documents and technical documentation requested in **ITB Clause 1.9 have been provided, and to determine the completeness of each document submitted.**

1.25.2. The Purchaser shall confirm that the following documents and information have been provided in the Bid. If any of these documents or information is missing, the offer shall be rejected.

(a) All the tenders received will first be scrutinized to see whether the tenders meet the basic requirements as incorporated in the tender enquiry document. The tenders, who do not meet the basic requirements, will be treated as non-responsive and ignored. The following are some of the important points, for which a tender may be declared as non-responsive and will be ignored, during the initial scrutiny:

i	The Bid is unsigned
ii	The Bidder is not eligible
iii	The Bid validity is shorter than the required period
iv	The Bidder has quoted for goods manufactured by a different firm without the required authority letter from the proposed manufacturer
	Bidder has not agreed to give the required performance security
vi	The goods quoted are sub-standard, not meeting the required specification, etc.
vii	Against the Requirement (Scope of supply) the bidder has not quoted for the entire requirement as specified in Chapter 4
viii	The bidder has not agreed to some essential condition(s) incorporated in the tender.

(b) Bid Form and Price Schedule Form, in accordance with **ITB Clause 1.10**. In case of two-bid system these forms shall be examined after opening of the Price Bids of the technically qualified bidders.

1.26 Responsiveness of Bids

1.26.1. Prior to the detailed evaluation, the purchaser will determine the substantial responsiveness of each bid to the bidding documents. For purposes of this clause, a substantive responsive bid is one, which conforms to all terms and condition of the bidding documents without material deviations, reservations or omissions. A material deviation, reservation or omission is one that:

(a)	affects in any substantial way the scope, quality, or performance of the Goods and Related Services specified in the Tender; OR
(b)	limits in any substantial way, inconsistent with the Bidding Documents, the Purchaser's rights or the Bidder's obligations under the Proposed Contract; OR
(c)	if rectified, would unfairly affect the competitive position of other bidders presenting substantially responsive bids.

1.26.2. The Purchasers' determination of a bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.

1.26.3. If a bid is not substantially responsive, it will be rejected by the Purchaser and may not subsequently be made responsive by the Bidder by correction of the material deviation, reservation or omission.

1.27 Non-Conformity, Error and Omission

1.27.1. Provided that a Bid is substantially responsive, the Purchaser may waive any non-conformities or omissions in the Bid that do not constitute a material deviation.

1.27.2. Provided that a bid is substantially responsive, the Purchaser may request that the Bidder submit the necessary information or documentation, within a reasonable period of time, to rectify non-material non-conformities or omissions in the bid related to documentation requirements. Such omission shall not be related to any aspect of the price of the Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid.

1.27.3. Provided that the Bid is substantially responsive, the Purchaser shall correct arithmetical errors on the following basis:

(a)	if there is a discrepancy between the unit price and the line item total that is obtained by multiplying the unit price by the quantity, the unit price shall prevail and the line item total shall be corrected, unless in the opinion of the Purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the line item total as quoted shall govern and the unit price shall be corrected;
(b)	if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
(c)	if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) and (b) above.

1.27.4. Provided that a bid is substantially responsive, the purchaser may request that a bidder may confirm the correctness of arithmetic errors as done by the purchaser within a target date. In case, no reply is received then the bid submitted shall be ignored and its Bid Security may be forfeited.

1.28 Examination of Terms & Conditions, Technical Evaluation

1.28.1. The Purchaser shall examine the Bid to confirm that all terms and conditions specified in the GCC and the SCC have been accepted by the Bidder without any material deviation or reservation.

1.28.2. The Purchaser shall evaluate the technical aspects of the Bid submitted in accordance with **ITB Clause 1.14**, to confirm that all requirements specified in Chapter 4 of the Bidding Documents have been met without any material deviation or reservation.

1.28.3. If, after the examination of the terms and conditions and the technical evaluation, the Purchaser determines that the Bid is not substantially responsive in accordance with **ITB Clause 1.26**, it shall reject the Bid.

1.29 Conversion to Single Currency

To facilitate evaluation and comparison, the Purchaser will convert all bid prices expressed in the amounts in various currencies in which the bid prices are payable to Indian Rupees at the selling exchange rate established by any bank in India as notified in the Newspapers on the date of bid opening in the case of single bid and the rates prevalent on the date of opening of the Price Bids in case of two-bid. For this purpose, exchange rate notified in www.rbi.org or any other website would be used by the purchaser.

1.30 Evaluation and comparison of bids

1.30.1. The Purchaser shall evaluate each bid that has been determined, up to this stage of the evaluation, to be substantially responsive.

1.30.2. To evaluate a Bid, the Purchaser shall only use all the factors, methodologies and criteria defined below. No other criteria or methodology will be used.

1.30.3. The bids shall be evaluated on the basis of final landing cost which shall be arrived as under:

(a) For Goods manufactured within India

i)	The price of the goods quoted Ex-works including taxes already paid.
ii)	GST and other taxes like LBT / Octroi etc. which will be payable on the goods if the contract is awarded.
iii)	The charges for inland transportation, insurance and other local services required for delivering the goods at the desired destination as specified in the price schedule form.
iv)	The installation, commissioning and training charges including any incidental services, if any as given in Scope of Supply (Chapter 4)

(b) For Goods manufactured abroad

i)	The price of the goods, quoted on FCA (named Airport abroad) or FOB (named port of shipment), as specified in the price schedule form.
ii)	The charges for insurance and transportation of the goods to the port / place of destination i.e. CIP/CIF Price.
iii)	The agency commission charges payable to Indian agent in Indian rupees, if any.
iv)	The installation, commissioning and training charges including any incidental services, if any

1.30.4. The comparison between the indigenous and the foreign offers shall be made on FOR destination basis and CIF / CIP basis respectively. However, the CIF / CIP prices quoted by any foreign bidder shall be loaded further as under:-

(a) Towards customs duty and other statutory levies-as per applicable rates.

(b) Towards custom clearance, inland transportation etc.- 2% of the CIF / CIP value.

Note: Where there is no mention of packing, forwarding, freight, insurance charges, taxes etc. such offers shall be rejected as incomplete.

1.30.5. In case of Purchase of many items against one tender, which are not inter- dependent or, where compatibility is not a problem, normally the comparison would be made on ex-works, (in case of indigenous items) and on FOB / FCA (in the case of imports) prices quoted by the firms for identifying the lowest quoting firm for each item.

1.30.6. Orders for Imported Goods need not necessarily be on FOB / FCA basis rather it can be on the basis of any of the Incoterms latest edition as may be amended from time to time by the ICC or any other designated authority and favourable to IITM.

1.30.7. Wherever the price quoted on FOB / FCA and CIF / CIP basis are the same, the Contract would be made on CIF / CIP basis only.

1.30.8. The GCC and the SCC shall specify the mode of transport i.e. whether by air / ocean / road / rail.

1.31 Comparison of Bids

The Purchaser shall compare all substantially responsive bids to determine the lowest valued bid, in accordance with **ITB Clause 1.30**.

1.31.1 This Institute is following and abide with the Public Procurement (Preference to Make in India), Order 2017, DIPP, MoCI Order No. P-45021/2/2017-B.E.II dated 15th June 2017 and subsequent amendments to the order. Accordingly preference will be given to the Make in India products while evaluating the bids, however, it is the sole responsibility of the bidder(s) to specify the product quoted by them is of Make in India product along with respective documentary evidence as stipulated in the aforesaid order in the technical bid itself.

1.32 Contacting the Purchaser

- 1.32.1.** Subject to **ITB Clause 1.24**, no Bidder shall contact the Purchaser on any matter relating to its bid, from the time of the bid opening to the time the Contract is awarded.
- 1.32.2.** Any effort by a Bidder to influence the Purchaser in its decisions on bid evaluation, bid comparison or contract award may result in rejection of the Bidder's bid.

1.33 Post qualification

- 1.33.1.** In the absence of pre-qualification, the Purchaser will determine to its satisfaction whether the Bidder that is selected as having submitted the lowest evaluated responsive bid is qualified to perform the contract satisfactorily, in accordance with the criteria listed in **ITB Clause 1.13**.
- 1.33.2.** The determination will take into account the Eligibility & Qualification criteria listed in the bidding documents and will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, as well as such other information as the Purchaser deems necessary and appropriate.
- 1.33.3.** An affirmative determination will be a prerequisite for award of the contract to the Bidder. A negative determination will result in rejection of the Bidder's bid.

F. Award of contract

1.34 Negotiations

Normally, there shall not be any negotiation. Negotiations, if at all, shall be an exception and only in the case of items with limited source of supply. Negotiations shall be held with the lowest evaluated responsive bidder. Counter offers tantamount to negotiations, shall be treated at par with negotiations.

1.35 Award Criteria

Subject to **ITB Clause 1.37**, the Purchaser will award the contract to the successful Bidder whose bid has been determined to be substantially responsive and has been determined to be the lowest evaluated bid, provided further that the Bidder is determined to be qualified to perform the contract satisfactorily. The details of the award would be hosted on the website of the Purchaser.

1.36 Purchaser's right to vary Quantities at Time of Award or later

The Purchaser reserves the right at the time of Contract award to increase or decrease the quantity of goods and services originally specified in the Chapter 4 without any change in unit price or other terms and conditions. Further, at the discretion of the purchaser, the quantities in the contract may be enhanced by 25% within the delivery period.

1.37 Purchaser's right to accept any Bid and to reject any or all Bids

The Purchaser reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to award of Contract, without thereby incurring any liability to the affected Bidder or Bidders.

1.38 Notification of Award

- 1.38.1.** Prior to the expiration of the period of bid validity, the Purchaser will notify the successful bidder in writing by registered letter or by cable or telex or fax or e mail that the bid has been accepted and a separate purchase order shall follow through post.
- 1.38.2.** Until a formal contract is prepared and executed, the notification of award should constitute a binding contract.

1.38.3. Upon the successful Bidder's furnishing of the signed Contract Form and Performance Security pursuant to **ITB Clause 1.41**, the Purchaser will promptly notify each unsuccessful Bidder and discharge its bid security.

1.39 Signing of Contract

1.39.1. Promptly after notification, the Purchaser shall send the successful Bidder the Purchase Order.

1.39.2. Within fourteen (14) days of date of the Purchase Order, the successful Bidder shall enter into Contract Agreement as per Chapter 7.

1.40 Order Acceptance

1.40.1. The successful bidder should submit Order acceptance within 14 days from the date of issue of Purchase Order, failing which it shall be presumed that the vendor is not interested and his bid security is liable to be forfeited pursuant to **ITB Clause 1.15.11**.

1.40.2. The order acceptance must be received within 14 days. However, the Purchaser has the powers to extend the time frame for submission of order acceptance and submission of Performance Security (PS). Even after extension of time, if the order acceptance / PS are not received, the contract shall be cancelled and limited tenders irrespective of the value shall be invited from the responding firms after forfeiting the bid security of the defaulting firm, where applicable, provided there is no change in specifications. In such cases the defaulting firm shall not be considered again for re-tendering in the particular case.

1.41 Performance Security

Within 14 days of receipt of the notification of award / Purchase Order as per the GCC Clause 2.12, the Supplier shall furnish Performance Security for the amount specified in SCC, valid for the time 60 days after the warranty period.

CHAPTER 2

CONDITIONS OF CONTRACT

GENERAL CONDITIONS OF CONTRACT

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Note: The General Conditions of Contract shall form the part of Purchase Order / Contract.

A. GENERAL CONDITIONS OF CONTRACT

2.1. Definitions

The following words and expressions shall have the meanings hereby assigned to them:

Sr. No.	Words / Expressions	Meaning
(a)	Contract	The Contract Agreement entered into between the Purchaser and the Supplier, together with the Contract Documents referred to therein, including all attachments, appendices, and all documents incorporated by reference therein.
(b)	Contract Documents	The documents listed in the Contract Agreement, including any amendments thereto.
(c)	Contract Price	The price payable to the Supplier as specified in the Contract Agreement, subject to such additions and adjustments thereto or deductions there from, as may be made pursuant to the Contract.
(d)	Day	Calendar day
(e)	Completion	The fulfilment of the Related Services by the Supplier in accordance with the terms and conditions set forth in the Contract.
(f)	GCC	The General Conditions of Contract.
(g)	Goods	All of the commodities, raw material, machinery and equipment, and/or other materials that the Supplier is required to supply to the Purchaser under the Contract
(h)	Services	The services incidental to the supply of the goods, such as transportation, insurance, installation, training and initial maintenance and other such obligations of the Supplier under the Contract.
(i)	SCC	The Special Conditions of Contract.
(j)	Subcontractor	Any natural person, private or government entity, or a combination of the above, to which any part of the Goods to be supplied or execution of any part of the Related Services is subcontracted by the Supplier.
(k)	Supplier	The natural Person, Private or Government entity, or a combination of the above, whose bid to perform the Contract has been accepted by the Purchaser and is named as such in the Contract Agreement.
(l)	Purchaser	The Director, The Indian Institute of Tropical Meteorology (IITM), Pune an autonomous body under Ministry of Earth Sciences (MoES), Govt. of India. as specified in SCC
(m)	The final destination	The place named in the SCC.

2.2. Contract Documents

2.2.1 Subject to the order of precedence set forth in the Contract Agreement, all documents forming the Contract (and all parts thereof) are intended to be correlative, complementary, and mutually explanatory. The Contract Agreement shall be read as a whole.

2.2.2 Successful bidder shall have to enter into Contract Agreement on Rs.500/- non judicial stamp paper as per Contract Form given in Chapter 7 within 14 days of placement of Purchase Order having value above Rs. 25 lakh or equivalent amount in Foreign Currency.

2.3. Fraud and Corruption

The purchaser requires that bidders, suppliers, contractors and consultants, if any, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuit of this policy,

(a) The terms set forth below are defined as follows:

I	Corrupt practice	The offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the action of a public official in the procurement process or in contract execution
II	Fraudulent practice	A misrepresentation or omission of facts in order to influence a procurement process or the execution of a contract
III	Collusive practice	A scheme or arrangement between two or more bidders, with or without the knowledge of the Borrower, designed to establish bid prices at artificial, non-competitive levels

IV	Coercive practice	Harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the procurement process or affect the execution of a contract
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(b) The purchaser will reject a proposal for award if it determines that the Bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for the Contract in question.

2.4 Joint Venture, Consortium or Association/Amalgamation/Acquisition, Patent Indemnity etc.

If the Supplier is a joint venture, consortium, or association, all of the parties shall be jointly and severally liable to the Purchaser for the fulfilment of the provisions of the Contract and shall designate one party to act as a leader with authority to bind the joint venture, consortium, or association. The composition or the constitution of the joint venture, consortium, or association shall not be altered without the prior consent of the Purchaser.

2.4.1. Amalgamation/Acquisition etc.:

In the event the Manufacturer/Supplier proposes for amalgamation, acquisition or sale its business to any firm during the contract period, the Buyer/Successor of the Principal Company are liable for execution of the contract and also fulfilment of contractual obligations i.e. supply, installation, commissioning, warranty, maintenance/replacement of spares accessories etc. You may confirm this condition while submitting the bid.

2.4.2 Indemnity Bond

In order to safeguard the interest of IITM, the supplier should submit Indemnity Bond as given in Chapter-8 (Annexure-J) on Rs.500/- non judicial stamp paper within 14 days of placing of the order for Purchase Order having value above Rs. 25 lakh or equivalent amount in Foreign Currency.

2.4.3 Patent Indemnity

a) The Supplier shall, subject to the Purchaser's compliance with GCC Sub-Clause 2.4.3(a), indemnify and hold harmless the Purchaser and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the Purchaser may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract by reason of:

(I)	the installation of the Goods by the Supplier or the use of the Goods in India AND
(II)	the sale in any country of the products produced by the Goods

b) If any proceedings are brought or any claim is made against the Purchaser, the Purchaser shall promptly give the Supplier a notice thereof and the Supplier may at its own expense and in the Purchaser's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claims.

2.5 Scope of Supply

Scope of Supply (i.e. the Goods to be supplied and Related Services to be performed) shall be as specified in the Chapter-4 clause 4.2

2.6 Suppliers' Responsibilities

The Supplier shall supply all the Goods and perform all Related Services included in the Scope of Supply-Clause 2.5 of the GCC and the Delivery & Completion Schedule, as per GCC Clause 2.15 relating to delivery and document.

2.7 Contract price

Prices charged by the Supplier for the Goods supplied and the Related Services performed under the Contract shall not vary from the prices quoted by the Supplier in its bid.

2.8 Copy Right

The copyright in all drawings, documents, and other materials containing data and information furnished to the Purchaser by the Supplier herein shall remain vested in the Supplier, or, if they are furnished to the Purchaser directly or through the Supplier by any third party, including suppliers of materials, the copyright in such materials shall remain vested in such third party

2.9 Application

These General Conditions shall apply to the extent that they are not superseded by provisions in other parts of the Contract.

2.10 Standards

The Goods supplied and services rendered under this Contract shall conform to the standards mentioned in the Technical Specifications and Schedule of Requirements, and, when no applicable standard is mentioned, to the authoritative standard appropriate to the Goods' country of origin and such standards shall be the latest issued by the concerned institution.

2.11 Use of Contract Documents and Information

- 2.11.1** The Supplier shall not, without the Purchaser's prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample or information furnished by or on behalf of the Purchaser in connection therewith, to any person other than a person employed by the Supplier in performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far, as may be necessary for purposes of such performance.
- 2.11.2** The Supplier shall not, without the Purchaser's prior written consent, make use of any document or information enumerated above except for purposes of performing the Contract.
- 2.11.3** Any document, other than the Contract itself, enumerated above shall remain the property of the Purchaser and shall be returned (in all copies) to the Purchaser on completion of the Supplier's performance under the Contract if so required by the Purchaser.

2.12 Performance Security (PS)

- 2.12.1** Within **14** days of receipt of the notification of award of contract / Purchase Order, the Supplier shall furnish performance security in the amount specified in SCC, valid till **60** days after the warranty period. Alternatively, the PS may also be submitted at the time of release of final payment in cases where part payment is made against delivery & part on installation. The PS, where applicable, shall be submitted in advance for orders where full payment is to be made on Letter of Credit (LC) or on delivery. In this case, submission of PS at the time of negotiation of documents through Bank would be stipulated as a condition in the LC and the BS should be kept valid till such time the PS is submitted.
- 2.12.2** The proceeds of the performance security shall be payable to the Purchaser as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.
- 2.12.3** The Performance Security shall be denominated in Indian Rupees for the offers received for supplies within India and denominated in the currency of the contract in the case of offers received for supply from foreign countries.
- 2.12.4** In the case of imports, the PS may be submitted either by the principal or by the Indian agent and, in the case of purchases from indigenous sources, the PS may be submitted by either the manufacturer or their authorized dealer / bidder.
- 2.12.5** The Performance security shall be in one of the following forms:

(a)	A Bank guarantee or stand-by Letter of Credit issued by a Nationalized / Scheduled bank located in India or a bank located abroad in the form provided in the bidding documents. OR
(b)	A Banker's cheque or Account Payee demand draft in favour of the purchaser.

- 2.12.6** The performance security will be discharged by the Purchaser and returned to the Supplier not later than 60 days following the date of completion of the Supplier's performance obligations, including any warranty obligations, unless specified otherwise in SCC, without levy of any interest.

2.12.7 In the event of any contract amendment, the supplier shall, within 14 days of receipt of such amendment, furnish the amendment to the performance security, rendering the same valid for the duration of the contract, as amended for further period of 60 days thereafter.

2.12.8 The order confirmation should be received within 15 days from the date of notification of award. However, the Purchaser has the powers to extend the time frame for submission of order confirmation and submission of Performance Security (PS). Even after extension of time, if the order acceptance and PS are not received, the contract shall be cancelled and limited tenders irrespective of the value would be invited from the responding firms after forfeiting the bid security of the defaulting firm, where applicable provided there is no change in specifications. In such cases the defaulting firm would not be considered again for re-tendering in the particular case.

2.12.9 Whenever, the bidder chooses to submit the Performance Security in the form of Bank Guarantee, and then he should advise the banker issuing the Bank Guarantee to immediately send by Registered Post (A.D.) an unstamped duplicate copy of the Guarantee directly to the Purchaser with a covering letter to compare with the original BG for the correctness, genuineness, etc.

2.13 Installation, Commissioning, Demonstration, Inspections and Tests

Bidder shall be responsible for Installation, Commissioning, Demonstration, Inspections and Tests wherever applicable and for after sales service during the warranty and thereafter as specified in Chapter 4.

2.14 Packing

2.14.1. The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination as indicated in the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.

2.14.2. The packing, marking and documentation within and outside the packages shall comply strictly with such special requirements as shall be provided for in the Contract including additional requirements, if any, specified in SCC and in any subsequent instructions ordered by the Purchaser.

2.15 Delivery and Documents

2.15.1. Delivery of the Goods and completion and related services shall be made by the Supplier in accordance with the terms specified by the Purchaser in the contract. The details of shipping and/or other documents to be furnished by the supplier are as given below or /and as specified in SCC.

Details of Shipping and other Documents to be furnished by the Supplier are :	
A) For goods manufactured or supplied from within India	
	Within 24 hours of dispatch, the supplier shall notify the purchaser the complete details of dispatch and also supply following documents by registered post / speed post and copies thereof by FAX/email
(a)	Three copies of Supplier's Invoice indicating, inter-alia description and specification of the goods, quantity, unit price, total value
(b)	Packing list
(c)	Certificate of country of origin
(d)	Insurance certificate, if required under the contract
(e)	Railway receipt/Consignment note
(f)	Manufacturer's warrantee certificate and in-house inspection certificate, if any
(g)	Inspection certificate issued by purchaser's inspector, if any
(h)	Any other document(s) as and when required in terms of the contract
NOTE:	
1	The nomenclature used for the item description in the invoice(s), packing list(s) and the delivery note(s) etc. should be identical to that used in the contract. The dispatch particulars including the name of the transporter should also be mentioned in the Invoice(s).
2	The above documents should be received by the Purchaser before arrival of the Goods and, if not received, the Supplier will be responsible for any consequent expenses.
B) For goods manufactured or supplied from abroad	
	Within 24 hours of dispatch, the supplier shall notify the purchaser the complete details of

	dispatch and also supply following documents by Registered Post / courier and copies thereof by FAX.
(a)	Three copies of supplier's Invoice giving full details of the goods including quantity, value, etc.
(b)	Packing list
(c)	Certificate of country of origin
(d)	Manufacturer's warrantee and Inspection certificate, if any
(e)	Inspection certificate issued by the Purchaser's Inspector, if any
(f)	Insurance Certificate, if required under the contract
(g)	Name of the Vessel / Carrier
(h)	Bill of Lading / Airway Bill
(i)	Port of Loading
(j)	Date of Shipment
(k)	Port of Discharge & expected date of arrival of goods
(l)	Any other document(s) as and when required in terms of the contract
NOTE:	
1	The nomenclature used for the item description in the invoice(s), packing list(s) and the delivery note(s) etc. should be identical to that used in the contract. The dispatch particulars including the name of the transporter should also be mentioned in the Invoice(s).
2	The above documents should be received by the Purchaser before arrival of the Goods and, if not received, the Supplier will be responsible for any consequent expenses.
	The clearing of the consignment at Mumbai Airport shall be done by our authorized Custom House Agents (CHA). The corresponding shipping documents may be forwarded to them accordingly. It is advised to give us and our CHA, a pre-alert before the consignment is dispatched. If there is delay in clearing of the consignment for <u>not</u> giving timely pre-alert then demurrage (Ware house charges), if applicable has to be refunded to us.

2.15.2. The terms FOB, FCA, CIF, CIP etc. shall be governed by the rules prescribed in the current edition of the Incoterms published by the International Chambers of Commerce (ICC), Paris.

2.15.3. The mode of transportation shall be as specified in SCC.

2.15.4. The Bidders may please note that the delivery of the system should be strictly within delivery schedule mentioned in the Chapter-4 / Purchase Order.

2.15.5. Goods should not be dispatched until the vendor receives a firm Purchase Order

2.16 **Insurance**

2.16.1. Indigenous goods, the Goods supplied under the Contract shall be fully insured in Indian Rupees against any loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the manner specified in SCC.

2.16.2. Where delivery of the goods is required by the purchaser on CIF / CIP basis for imported goods or FOR destination for Indigenous goods, the supplier shall arrange and pay for Marine / Transit Insurance, naming the purchaser as beneficiary and initiate & pursue claims till settlement, in the event of any loss or damage.

2.16.3. Where delivery is on FOB or FCA basis for imported goods or FOR dispatch station for indigenous goods, then insurance would be the responsibility of the purchaser.

2.16.4. The equipment to be supplied will be insured by the supplier against all risks of loss or damage from the date of shipment till such time it is delivered at IITM site in case of Rupee transaction

2.16.5. With a view to ensure that claims on insurance companies, if any, are lodged in time, the Bidders and / or the Indian agent shall be responsible for follow up with their principals for ascertaining the dispatch details and informing the same to the Purchaser and he shall also liaise with the Purchaser to ascertain the arrival of the consignment after clearance so that immediately thereafter in his presence the consignment could be opened and the insurance claim be lodged, if required, without any loss of time. Any delay on the part of the Bidder / Indian Agent would be viewed seriously and he shall be directly responsible for any loss sustained by the Purchaser on the event of the delay.

2.17 Transportation

2.17.1. Where the Supplier is required under the Contract to deliver the Goods on FOB basis, transport of the Goods, up to and including the point of putting the Goods on board the vessel at the specified port of loading, shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract price. Where the Supplier is required under the Contract to deliver the Goods on FCA basis, transport of the Goods and delivery into the custody of the carrier at the place named by the Purchaser or other agreed point shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract price.

2.17.2. Where the Supplier is required under the Contract to deliver the Goods CIF or CIP, transport of the Goods to the port of destination or such other named place of destination in the Purchaser's country, as shall be specified in the Contract, shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract Price.

2.17.3. In the case of supplies from within India, where the Supplier is required under the Contract to transport the Goods to a specified destination in India, defined as the Final Destination, transport to such destination, including insurance and storage, as specified in the Contract, shall be arranged by the Supplier, and the related costs shall be included in the Contract Price.

2.17.4. The clearing of the consignment at Mumbai Airport shall be done by our authorized Custom House Agents (CHA) for CIP / CIF consignments. The details of CHA will be given in the Purchase Order. The corresponding shipping documents may be forwarded to them accordingly. It is advised to give us and our CHA, a pre-alert before the consignment is dispatched. If there is delay in clearing of the consignment for not giving timely pre-alert then demurrage (Warehouse charges), if applicable has to be refunded to us by the Supplier / Indian Agent or the same will be deducted from any payment due to Supplier / Indian Agent against this order or any other Purchase order.

2.18 Incidental Services

The supplier may be required to provide any or all of the services, including training, if any, as specified in Chapter 4: Clause-4.2.

2.19 Spare Parts

The Supplier shall be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:

(a)	Such spare parts as the Purchaser may elect to purchase from the Supplier, providing that this election shall not relieve the Supplier of any warranty obligations under the Contract; and
(b)	In the event of termination of production of the spare parts: (i) Advance notification to the Purchaser of the pending termination, in sufficient time to permit the Purchaser to procure needed requirements; and (ii) Following such termination, furnishing at no cost to the Purchaser, the blueprints, drawings and specifications of the spare parts, if requested.

2.20 Warranty

- a) The Supplier warrants that all the Goods are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.
- b) The Supplier further warrants that the Goods shall be free from defects arising from any act or omission of the Supplier or arising from design, materials, and workmanship, under normal use in the conditions prevailing in India.
- c) Unless otherwise specified in the SCC, the warranty shall remain valid for **Twelve (12) months + 12 months extended warranty** after the Goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the SCC, or for **Thirty (30) months** after the date of shipment from the port or place of loading in the country of origin, whichever period concludes earlier.

- d) The warranty on the associated software should cover providing of upgraded version/s, if any, released during the warranty period free of cost.
- e) The bidder shall assure the supply of spare parts after warranty is over for maintenance of the equipment supplied if and when required for a period of 10 years from the date of supply of equipment on payment on approved price list basis.
- f) The equipment must be supported by a Service Centre manned by the principal vendor's technical support engineers. The support through this Centre must be available 24 hours in a day, seven days a week and 365 days a year. Also it should be possible to contact the Principal's vendor support Centre on a toll free number/web/mail.
- g) An undertaking from the manufacturer is required in this regard stating that they would facilitate the Bidder, Service provider on regular basis with technology / product updates & extend support for the warranty as well.
- h) Supplier will have to arrange for all the testing equipment & tools required for installation at IIM by company person visit, testing & maintenance etc.
- i) The Principal Supplier must have a local logistics support by maintaining a local spares depot in the country of deployment of the equipment. This is to ensure immediate delivery of spares parts from Principal Supplier of equipment to its channel partner/system integrator.
- j) Details of onsite warranty, Name of Agency that shall maintain during warranty and undertake Annual Maintenance Contract/Comprehensive Service Maintenance Contract beyond warranty shall be given in the offer. In case of foreign quote, the name of Indian Agent who shall maintain during warranty and Extended warranty beyond warranty shall be given in the Technical Offer.
- k) The Purchaser shall give notice to the Supplier stating the nature of any such defects together with all available evidence thereof, promptly following the discovery thereof. The Purchaser shall afford all reasonable opportunity for the Supplier to inspect such defects.
- l) Upon receipt of such notice, the Supplier shall, within a reasonable period of time, expeditiously repair or replace the defective Goods or parts thereof, at no cost to the Purchaser.
- m) If having been notified, the Supplier fails to remedy the defect within a reasonable period of time; the Purchaser may proceed to take within a reasonable period such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract.
- n) In case the Equipment / System remains non-operational or performs below the desired level for more than 1 week after intimation of the fault in the Equipment / System then Warranty period shall be extended for further period for which Equipment / System remained non-operational or performed below the desired level, without prejudice to any other terms and conditions of the Contract.
- o) The defects, if any, during the warranty period are to be rectified free of charge by arranging free replacement wherever necessary.
- p) In case of any replacement during the warranty period the same shall be made free of cost i.e. DDP for import replacement and/or free delivery to IITM for indigenous replacement. All the duties / taxes relating to these replacements have to be borne by the supplier. Dispatch details of such warranty replacements have to be informed in advance to enable us to provide documents for custom clearance.
- q) Any replacements during warranty period should be free of cost. If the defective item has to be sent back to the Principal Supplier, for such replacements / returns to the Principal Supplier / Indian Agent has to bear documentation charges. If the cost of replacement is upto Rs. 5 Lakh then the documentation charges will be Rs. 5,000 and above Rs. 5 Lakh it is Rs. 10,000. Such charges have to be paid in favour of The Director, IITM, Pune. These charges are only for documentation. Any charges regarding packing, forwarding, freight, insurance, etc. should be borne by the Principal supplier / Indian Agent for returning of defective items. In other words, any warranty replacement

has to be done immediately/within a week (7 days) without expecting IITM to export the defective items to Principal supplier for repair/replacements. All charges involved for re-export of defective items have to be borne by Principal supplier / Indian Agent.

2.21 Terms of Payment

- 2.21.1. The method and conditions of payment to be made to the Supplier under this Contract shall be as specified in the SCC.
- 2.21.2. The Supplier's request(s) for payment shall be made to the Purchaser in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and the Services performed, and by documents, submitted pursuant to Delivery and document Clause of the GCC and upon fulfilment of other obligations stipulated in the contract.
- 2.21.3. Payments shall be made promptly by the Purchaser but in no case later than thirty (30) days after submission of the Invoice or claim by the Supplier.
- 2.21.4. Payment shall be made in currency as indicated in the contract.

2.22 Change Orders and Contract Amendments

- 2.22.1. The Purchaser may at any time, by written order given to the Supplier pursuant to Clause on Notices of the GCC make changes within the general scope of the Contract in any one or more of the following:

a)	Drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Purchaser;
b)	The method of shipping or packing;
c)	The place of delivery; and/or
d)	The Services to be provided by the Supplier.
e)	The delivery schedule.

- 2.22.2. If any such change causes an increase or decrease in the cost of, or the time required for, the Supplier's performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or delivery schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this clause must be ascertained within fifteen (15) days from the date of the Supplier's receipt of the Purchaser's change order.
- 2.22.3. No variation or modification in the terms of the contract shall be made except by written amendment signed by the parties.

2.23 Assignment

The Supplier shall not assign, in whole or in part, its obligations to perform under the Contract, except with the Purchaser's prior written consent.

2.24 Subcontracts

The Supplier shall notify the Purchaser in writing of all subcontracts awarded under this Contract if not already specified in the bid. Such notification, in the original bid or later, shall not relieve the Supplier from any liability or duties or obligation under the Contract.

2.25 Extension of time

- 2.25.1. Delivery of the Goods and performance of the Services shall be made by the Supplier in accordance with the Delivery schedule specified by the Purchaser.
- 2.25.2. If at any time during performance of the Contract, the Supplier or its sub-contractor(s) should encounter conditions impeding timely delivery of the Goods and performance of Services, the Supplier shall promptly notify the Purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Supplier's notice, the Purchaser shall evaluate the situation and may, at its discretion, extend the Supplier's time for performance with or without penalty, in which case the extension shall be ratified by the parties by amendment to the Contract.
- 2.25.3. Except as provided under the Force Majeure clause of the GCC, a delay by the Supplier in the performance of its delivery obligations shall render the Supplier liable to the imposition of penalty

pursuant to Penalty Clause of the GCC unless an extension of time is agreed upon pursuant to above clause without the application of penalty clause.

2.26 Penalty clause

Subject to GCC Clause on Force Majeure, if the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the Purchaser shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as penalty, a sum equivalent to the percentage specified in SCC of the delivered price of the delayed Goods or unperformed Services or contract value for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the Percentage specified in SCC. Once the maximum is reached, the Purchaser may consider termination of the Contract pursuant to GCC Clause on Termination for Default. The SCC shall also indicate the basis for ascertaining the value on which the penalty shall be applicable.

2.27 Termination for Default

2.27.1. The Purchaser may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Supplier, terminate the Contract in whole or part:

(a)	If the Supplier fails to deliver any or all of the Goods within the period(s) specified in the contract, or within any extension thereof granted by the Purchaser pursuant to GCC Clause on Extension of Time;
(b)	If the Supplier fails to perform any other obligation(s) under the Contract
(c)	If the Supplier, in the judgment of the Purchaser has engaged in corrupt or fraudulent or collusive or coercive practices as defined in GCC Clause on Fraud or Corruption in competing for or in executing the Contract.

2.27.2. In the event the purchaser terminates the contract in whole or in part, he may take recourse to any one or more of the following action:

(a)	The Performance Security/EMD will be forfeited;
(b)	The Purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods similar to those undelivered, and the supplier shall be liable for all available actions against it in terms of the contract.
(c)	However, the supplier shall continue to perform the contract to the extent not terminated.

2.28 Force Majeure

2.28.1. Notwithstanding the provisions of GCC Clauses relating to Extension of Time, Penalty and Termination for Default the Supplier shall not be liable for forfeiture of its Performance Security, Liquidated Damages or Termination for Default, if and to the extent that, its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

2.28.2. For purposes of this Clause, "Force Majeure" means an event or situation beyond the control of the Supplier that is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of the Supplier. Such events may include, but not be limited to, acts of the Purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.

2.28.3. If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such conditions and the cause thereof within 21 days of its occurrence. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

2.28.4. If the performance in whole or in part or any obligations under the contract is prevented or delayed by any reason of Force Majeure for a period exceeding 60 days, either party may at its option terminate the contract without any financial repercussions on either side.

2.29 Termination for Insolvency

The Purchaser may at any time terminate the Contract by giving written notice to the Supplier, if the Supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without

compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy, which has accrued or will accrue thereafter to the Purchaser.

2.30 Termination for Convenience

2.30.1. The Purchaser, by written notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time. The notice of termination shall specify that termination is for the Purchaser's convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.

2.30.2. The Goods that are complete and ready for shipment within 30 days after the Supplier's receipt of notice of termination shall be accepted by the Purchaser at the Contract terms and prices. For the remaining Goods, the Purchaser may elect:

(a)	To have any portion completed and delivered at the Contract terms and prices ; and / or
(b)	To cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods / Services and for materials and parts previously procured by the Supplier.

2.31 Settlement of Disputes

2.31.1. The Purchaser and the supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.

2.31.2. If, after twenty-one (21) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the Purchaser or the Supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided, as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given. Any dispute or difference in respect of which a notice of intention to commence arbitration has been given in accordance with this Clause shall be finally settled by arbitration. Arbitration may be commenced prior to or after delivery of the Goods under the Contract. .

2.31.3. The dispute settlement mechanism / arbitration proceedings shall be concluded as under:

(a)	In case of Dispute or difference arising between the Purchaser and a domestic supplier relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Indian Arbitration & Conciliation Act, 1996, the rules there under and any statutory modifications or re-enactments thereof shall apply to the arbitration proceedings. The dispute shall be referred to the Director The Indian Institute of Tropical Meteorology (IITM), Pune and if he is unable or unwilling to act, to the sole arbitration of some other person appointed by him willing to act as such Arbitrator. The award of the arbitrator so appointed shall be final, conclusive and binding on all parties to the Contract.
(b)	In the case of a dispute between the purchaser and a Foreign Supplier, the dispute shall be settled by arbitration In accordance with provision of sub-clause (a) above. But if this is not acceptable to the supplier then the dispute shall be settled in accordance with provisions of UNCITRAL (United Nations Commission on International Trade Law) Arbitration Rules.

2.31.4. The venue of the arbitration shall be the place from where the Purchase Order or Contract is issued.

2.31.5. Notwithstanding any reference to arbitration herein,

(a)	the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree; and
(b)	the Purchaser shall pay the Supplier any monies due the Supplier.

2.32 Governing Language

The Contract shall be written in English language which shall govern its interpretation. All correspondence and other documents pertaining to the Contract, which are exchanged by the parties, shall be written in the English language only.

2.33 Applicable Law / Jurisdiction

The Contract shall be interpreted in accordance with the laws of the Union of India and all disputes shall be subject to place of jurisdiction as specified in SCC.

2.34 Notices

- 2.34.1. Any notice given by one party to the other pursuant to this contract / order shall be sent to the other party in writing or by cable, telex, FAX, e-mail or / and confirmed in writing to the other party's address specified in the SCC.
- 2.34.2. A notice shall be effective when delivered or on the notice's effective date, whichever is later.

2.35 Taxes and Duties

- 2.35.1. For goods manufactured outside India, the Supplier shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside India.
- 2.35.2. For goods Manufactured within India, the Supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred till its final manufacture / production.
- 2.35.3. If any tax exemptions, reductions, allowances or privileges may be available to the Supplier in India, the Purchaser shall make its best efforts to enable the Supplier to benefit from any such tax savings to the maximum allowable extent.
- 2.35.4. All payments due under the contract shall be paid after deduction of statutory levies (at source) (like ESIC, IT, etc.) wherever applicable.
- 2.35.5. IITM is exempted from paying LBT & hence supplier supplying from outside Pune Municipal limits should quote prices excluding LBT.

2.36 Right to use Defective Goods

If after delivery, installation and within commissioning & acceptance and within warranty period, the operation or use of the goods proves to be unsatisfactory, the Purchaser shall have the right to continue to operate or use such goods until rectifications of defects, errors or omissions by repair or by partial or complete replacement is made without interfering with the Purchaser's operation.

2.37 Protection against Damage

The system shall not be prone to damage during power failures and trip outs. The normal voltage and frequency conditions available at site as under:

- (a) Voltage 230 volts – Single phase or 415 Volt for 3 phase ($\pm 10\%$)
- (b) Frequency 50 Hz.

2.38 Site preparation and installation

The Purchaser is solely responsible for the construction of the equipment sites unless otherwise specified in Chapter 4 in compliance with the technical and environmental specifications defined by the Supplier. The Purchaser will designate the installation sites before the scheduled installation date to allow the Supplier to perform a site inspection to verify the appropriateness of the sites before the installation of the Equipment, if required. The supplier shall inform the purchaser about the site preparation, if any, needed for installation, of the goods at the purchaser's site immediately after notification of award / contract.

2.39 Integrity Pact

2.39.1. As per directive of the CVC all organizations including IITM have to adopt an Integrity pact (IP) to ensure transparency, equity and competitiveness in major Public procurement having procurement value above Rs.5 Crore. The integrity pact envisages an agreement between the prospective bidders / vendors with the buyer committing the persons / officials of both the parties with the aim not to exercise any corrupt influence on any aspect of the contract. Only those bidders / vendors, who are willing to enter in to such an integrity pact with the Purchaser, would be competent to participate in the bidding.

2.39.2. **IP also envisages Panel of Independent External Monitors (IEMs) which shall be provided / recommended by MoES and Institutes with the approval of by CVC.**

The details of Independent External Monitors are as below;

(1) Dr. Ajay Kumar Lal ,IRAS (Retd.), DDA, HIG,
Block 3A/101 A.

Motia Khan (Near Jhandewalan Temple),
D.B. Gupta Road, New Delhi-110015

[Email: ajayklal@yahoo.com](mailto:ajayklal@yahoo.com),

Mobile No: 9560712003

(2) Shri. Pavan Kumar Jain, IDSE (Retd.)

A-402, Shree Ganesh
Apartments, Plot No. 12B, Sector-7 Dwarka,
New Delhi- 110075

[Email: mespkj@gmail.com](mailto:mespkj@gmail.com), Mobile No: 9313498388

2.39.3. The integrity Pact would be effective from the date of invitation of bids till complete execution of the contract.

2.39.4. **The SCC shall specify whether there is a need to enter into a separate Integrity pact or not.** If the Integrity Pact is required for the Tender then the format of Integrity Pact is as given in **Chapter – 8 as Annexure N.**

CHAPTER 2

B. SPECIAL CONDITIONS OF CONTRACT (SCC)

The following Special Conditions of Contract (SCC) shall supplement and / or amend the General Conditions of Contract (GCC). Whenever there is a conflict, the provisions herein shall prevail over those in the GCC.

GCC Clause	Special Condition of Contract (SCC)	
GCC 2.1.1(m)	<p>The Purchaser is:</p> <p>THE DIRECTOR INDIAN INSTITUTE OF TROPICAL METEOROLOGY Dr.HOMI BHABHA ROAD, PASHAN, PUNE-411 008 (MAHARASHTRA)- INDIA</p>	
GCC 2.1.1(n)	<p>The Final Destination is:</p> <p>For Item 1: THE DIRECTOR INDIAN INSTITUTE OF TROPICAL METEOROLOGY Dr.HOMI BHABHA ROAD, PASHAN, PUNE-411 008 (MAHARASHTRA)- INDIA</p> <p>For Item 2: High Altitude Cloud Physics Laboratory, Hawaman Vibhag, Near Rural Hospital, Mahabaleshwar, Dist-Satara, Maharastra 412806</p>	
GCC 2.12.1	<p>The amount of the Performance Security shall be 5 % of the contract value, valid up to 60 days after the date of completion of contract obligations including warranty obligations.</p>	
GCC 2.14.2	<p>The marking and documentation within and outside the packages shall be marked with proper paint / indelible ink.</p> <p>(a) Each package should have a packing list within it detailing the Part No.(s), description, quantity etc.</p> <p>(b) Outside each package, the Contract No., the name and address of the Purchaser and the Final destination should be indicated on all sides and top.</p> <p>(c) Each package should be marked as 1/x, 2/x, 3/x.....x/x, where "x" is the total No. of packages contained in the consignment.</p> <p>(d) All the sides and top of each package should carry an appropriate indication / label / stickers indicating the precautions to be taken while handling / storage.</p>	
GCC 2.15.3	<p>(a) In case of supplies from within India, the mode of transportation shall be by Air / Rail / Road.</p> <p>(b) In case of supplies from abroad, the mode of transportation shall be by Air/Sea.</p>	
GCC 2.16.1	<p>The Insurance shall be for an amount equal to 110% of the CIF or CIP value of the contract from "warehouse to warehouse (final destination)" on "all risk basis" including strikes, riots and civil commotion, in addition to storage policy for 60 days is advised so as to ensure the inspection by the Indian Agent at the time of opening the packages.</p>	
GCC 2.20 (c)	<p>The period of validity of the Warranty shall be:</p> <p>The warranty shall remain valid for Twelve (12) months + 12 months extended warranty after the Goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination or for Thirty (30) months after the date of shipment from the port or place of loading in the country of origin, whichever period concludes earlier.</p>	
GCC 2.21.1	<p>The method and conditions of payment to be made to the Supplier under this Contract shall be as follows:</p> <p>A Payment for Goods supplied from abroad:</p> <p>Payment of foreign currency portion shall be made in currency of the Contract in the following manner:</p> <p>(a) On Shipment: Seventy (70%) percent of the Contract Price of the Goods shipped shall be paid through irrevocable letter of credit opened in favour of the Supplier in a bank in its country, upon submission of documents specified in GCC Clause 2.15.</p> <p>(b) On Acceptance: Twenty (20%) percent of the Contract Price of Goods received shall be paid within thirty (30) days of receipt of the Goods and successful installation & commissioning upon submission of claim supported by the acceptance certificate issued by the Purchaser.</p> <p>(c) Ten (10%) percent of the Contract Price of Goods received, upon acceptance of Performance Security / Performance Bank Guarantee submitted by supplier.</p>	

	(d)	The LC for 100% value of the contract shall be established after deducting the agency commission payable if any, to the Indian agent from the FOB / FCA value.
	(e)	The LC will be confirmed at the suppliers cost, if requested specifically by the supplier. All bank charges abroad shall be to the account of the beneficiary i.e. supplier and all bank charges in India shall be to the account of the opener i.e. purchaser. If LC is requested to be extended/ reinstated for reasons not attributable to the purchaser, the charges thereof would be to the suppliers' account. Payment of local currency portion shall be made in Indian Rupees within thirty (30) days of presentation of claim supported by a certificate from the Purchaser declaring that the Goods have been delivered and that all other contracted Services have been performed.
	B	Payment for Goods supplied from India:
		The payment shall be made in Indian Rupees, as follows:
	(a)	On shipment: Seventy (70%) percent of the Contract Price shall be paid on receipt of the Goods and upon submission of the documents specified in GCC Clause 2.15
	(b)	On Acceptance: The remaining Twenty (20%) percent of the Contract value shall be paid to the Supplier within thirty (30) days after the date of the acceptance certificate issued by the Purchaser subject to submission of performance security, if any.
	(c)	Ten (10%) percent of the Contract Price of Goods received, upon acceptance of Performance Security / Performance Bank Guarantee.
	(d)	In case of supplies where installation & commissioning is not required payment will be made within 30 days from receipt of items by purchaser as per purchase order contract.
	(e)	E-Payment: All payments, IITM prefers to make Electronic Transfers (RTGS) / (NEFT)
	C	Payment for Services supplied from India:
		The payment shall be made in Indian Rupees, as follows:
	(a)	Installation, Commissioning and Training: 100% payment towards Installation, Commissioning and Training shall be paid by Electronic Transfer /Wire Transfer (in case of abroad) after successful completion of installation, commissioning and Training acceptance and other services. (Bidder shall be responsible for Installation, Commissioning, Demonstration, Inspections and Tests wherever applicable and for after sales service during the warranty and thereafter as specified in Chapter 4.)
	(b)	AMC/CAMC/OMC: Payment will be done on quarterly basis on successful completion of each quarter with certification by the end user and submission of the required supporting documents along with performance Bank Guarantee from Indian nationalized bank for 5% of the total OMC order value, to be valid for entire OMC period and two months including extension if any. If no Bank Guarantee is given, the balance 5% will be paid after assessing, after sales service during OMC period i.e. payment after OMC period.
	NOTE:	
	➤ All payments due under the Contract shall be paid after deduction of statutory levies at source (like ESIC, Income Tax, etc.), wherever applicable.	
Chapter 4 4.6		Delivery Schedule: 8-12 weeks after Receipt of Order/Establishment of L/C and Installation with 1 month from the date of delivery.
GCC 2.26.1	(a)	As time is the essence of the contract, Delivery period mentioned in the Purchase Order should be strictly adhered to. Otherwise, we will have to forfeit EMD/PS and also LD clause will be applicable /enforced
	(b)	If the supplier fails to Supply, Install and Commission the system as per specifications mentioned in the order within the due date, the Supplier is liable to pay liquidated damages of 0.5% of order value per week of delay subject to a maximum of 10% beyond the due date. Such money will be deducted from any amount due or which may become due to the supplier
	(c)	IITM reserves the right to cancel the order in case the delay is more than 10 weeks. Penalties, if any, will be deducted from the EMD/PS
	(d)	The maximum amount of penalty shall be 10%.
	(e)	The liquidated damages shall be levied on the delivered price of the delayed Goods or

	unperformed Services or contract value.
GCC 2.33.1	The place of jurisdiction is Pune, India.
GCC 2.34.1	<p>For notices, the Purchaser's address is</p> <p>THE DIRECTOR INDIAN INSTITUTE OF TROPICAL METEOROLOGY Dr.HOMI BHABHA ROAD, PASHAN, PUNE-411 008 (MAHARASHTRA)- INDIA Telephone # : 0091-20-25904200 Facsimile number : 0091-20- 2586-5142 E-mail address: psu.iitm@tropmet.res.in</p>
GCC 2.39.4	The Integrity pact is not to be signed. However, efforts must be made to realize the objectives & spirits thereof.
IMP Note 1	Recent copies of Purchase Orders awarded by other buyers (preferably government organizations) to be uploaded along with the Commercial Bid.
IMP Note 2	<p>Director, IITM will be the final authority in any kind of disputes related to this Purchase Order and it will be binding on the supplier.</p> <p>All the procurement rules and regulations of Govt. of India will be applicable and will be binding on the supplier.</p>

CHAPTER 3

(To be filled by the bidder and enclosed with the Technical Bid)

SCHEDULE OF REQUIREMENT

The Schedule of Requirement must clearly specify **the time frame required (Schedule) for delivery of goods and services to be completed** by the bidder (in reference to Scope of Supply given in Clause-4.2 of Chapter-4) if the Contract is awarded for the offer / proposal submitted by the bidder in response to this Tender.

A) Delivery Schedule:

Sr. No.	Brief Description of Goods and Services	Quantity & Unit	Delivery Schedule

Period of delivery shall start from : _____

B) Term of delivery / Delivery Term : _____

Goods from Abroad	_____
Goods from India	_____

C) Time frame required for conducting installation, commissioning of the equipment, acceptance test, training, etc. after the arrival of consignment or before dispatch of equipment:

Sr. No.	Activity	Time Frame
1	Site Preparation (if required)	_____
2	Installation & Commissioning	_____
3	Acceptance Test	_____
4	Training	_____
5		_____

Place : _____

Signature of the Bidder : _____

Date : _____

CHAPTER 4

SPECIFICATIONS AND ALLIED TECHNICAL DETAILS

4.1 Supply, Installation & Commissioning of High-Resolution Gas Chromatograph Mass Spectrometer with Thermal Desorption unit and sampling station Qty. - 2 Sets

Technical Requirements and Specifications

(Please refer Appendix No. – 1, available on page no. 67-83 of tender document)

Note: 1) Optional items mentioned in the quotation will not be considered for commercial evaluation
2) Items to be supplied from India should be quoted in Indian Currency only

4.2 Scope of Supply

Scope of Supply includes the following:

- (i) Supply of the equipment / system as specified in 4.1 above
- (ii) Installation & Commissioning
- (iii) Training as specified below in 4.4
- (iv) On site comprehensive Warranty as specified in 4.5 (i) below
- (v) Supply of Spare parts as specified in 4.1 above
- (vi) Comprehensive Annual Maintenance Contract (CAMC) as specified in 4.5 (ii) below (Optional)

4.3 Inspection & Tests

4.3.1 General

- (i) The Supplier shall at its own expense and at no cost to the Purchaser carry out all such tests and/or inspections of the Goods and Related Services as are specified here. The Supplier shall at its own expense and at no cost to the IITM carry out all such tests and/or inspections of the Goods and Related Services as are specified in the chapter 4 or as discussed and agreed to during the course of finalization of contract.
- (ii) The inspections and tests may be conducted on the premises of the Supplier or its subcontractor(s), at the point of delivery and/or at the Goods final destination. If conducted on the premises of the Supplier or its subcontractor(s), all reasonable facilities and assistance, including access to drawings and production data - shall be furnished to the inspectors at no charge to the IITM
- (iii) Whenever the Supplier is ready to carry out any such test and inspection, it shall give a reasonable advance notice, including the place and time, to the Purchaser. The Supplier shall obtain from any relevant third party or manufacturer any necessary permission or consent to enable the Purchaser or its designated representative to attend the test and/or inspection.
- (iv) The IITM or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Contract specifications at no extra cost to the IITM and what inspections and tests the IITM requires and where they are to be conducted. The IITM shall notify the Supplier in writing in a timely manner of the identity of any representatives retained for these purposes.
- (v) Should any inspected or tested Goods fail to conform to the specifications, the purchaser may reject the goods and the Supplier shall either replace the rejected Goods or make alterations necessary to meet specification requirements free of cost to the Purchaser.
- (vi) The Purchaser's right to inspect, test and, where necessary, reject the Goods after the Goods' arrival at final destination shall in no way be limited or waived by reason of the Goods having

previously been inspected, tested and passed by the Purchaser or its representative prior to the Goods shipment.

- (vii) The Supplier shall provide the Purchaser with a report of the results of any such test and/or inspection.
- (viii) With a view to ensure that claims on insurance companies, if any, are lodged in time, the bidders and /or the Indian agent, if any, shall be responsible for follow up with their Principals for ascertaining the dispatch details and informing the same to the Purchaser and he shall also liaise with the Purchaser to ascertain the arrival of the consignment after customs clearance so that immediately thereafter in his presence the consignment could be opened and the insurance claim be lodged, if required, without any loss of time. Any delay on the part of the bidder/ Indian Agent would be viewed seriously and he shall be directly responsible for any loss sustained by the purchaser on the event of the delay.
- (ix) Before the goods and equipment are taken over by the Purchaser, the Supplier shall supply operation and maintenance Manuals together with Drawings of the goods and equipment built. These shall be in such details as will enable the Purchase to operate, maintain, adjust and repair all parts of the works as stated in the specifications.
- (x) The Manuals and Drawings shall be in the ruling language (English) and in such form and numbers as stated in the Contract.
- (xi) Unless and otherwise agreed, the goods and equipment shall not be considered to be completed for the purposes of taking over until such Manuals and Drawing have been supplied to the Purchaser.
- (xii) On successful completion of acceptability test, receipt of deliverables, etc and after the Purchaser is satisfied with the working of the equipment, the acceptance certificate signed by the Supplier and the representative of the Purchaser will be issued. The date on which such certificate is signed shall be deemed to be the date of successful commissioning of the equipment. Acceptance certificate form as given in Annexure-I (Chapter 8) should be signed by authorised representative of Supplier & Purchaser.
- (xiii) Installation demonstration is to be arranged by the supplier and the same is to be done within 15 days of the arrival of the equipment at site.
- (xiv) The Technical Bid filled in the e-procurement site will be treated final and shall be binding to the vendor.

4.3.2 Manufacturer's Inspection Certificate

After the goods are manufactured and assembled, inspection and testing of the goods shall be carried out at the supplier's plant by the supplier, prior to shipment to check whether the goods are in conformity with the technical specifications. Manufacturer's test certificate with data sheet shall be issued to this effect and submitted along with the delivery documents. The purchaser reserves the options to be present at the supplier's premises during such Pre-dispatch inspection and testing.

4.3.3 Installation, Commissioning & Acceptance Test

The acceptance test will be conducted by the Purchaser, their consultant or other such person nominated by the Purchaser at its option after the equipment is installed at Purchaser's site in the presence of supplier's representatives. The acceptance will involve trouble free operation. There shall not be any additional charges for carrying out acceptance test. No malfunction, partial or complete failure of any part of the equipment is expected to occur. The Supplier shall maintain necessary log in respect of the result of the test to establish to the entire satisfaction of the Purchaser, the successful completion of the test specified.

In the event of the ordered item failing to pass the acceptance test, a period not exceeding two weeks will be given to rectify the defects and clear the acceptance test, failing which, the Purchaser reserve the right to get the equipment replaced by the Supplier at no extra cost to the Purchaser.

Successful conduct and conclusion of the acceptance test for the installed goods and equipment shall also be the responsibility and at the cost of the Supplier.

4.4 Training

(i) Location:	Onsite application training after installation at IITM, Pune and HACPL, Mahabaleshwar
(ii) Number of persons:	For a group of students / technical staff
(ii) Period of Training:	2-3 weeks
(iv) Nature of training:	To operate the equipment efficiently, training to Sample collection & sample processing, calibration of the instrument and sample analysis followed by interpretation of obtained data, structure solution & refinement, use of software, etc.
(v) Details of past training:	Bidder should provide the details of undergone trainings

4.5 Incidental Services

(I) **On site Comprehensive Warranty:**

- The successful bidder shall provide a [Comprehensive Warranty for Twelve \(12\) months + 12 months extended warranty](#), after the installation and commissioning of the instrument. If within a warranty period after installation any such product or component is proven to be defective such product shall be repaired or replaced by the manufacturer/successful bidder. Such repair and replacement shall be sole obligation of manufacturer/successful bidder. Successful bidder shall be responsible for payment for the shipping charges (to-and-fro) if the defective product/components are required to be sent to the manufacturer for repair/replacement. Any design defects or installations deficiencies, if noticed during the warranty/ maintenance period, shall be rectified promptly by the successful bidder with no cost at all the places, which also includes the field installations.
- Down-time call attendance should be within 24hrs.
- In case the Equipment / System remains non-operational for more than 5 days then warranty period will be extended for the equivalent period for which Equipment / System remained non-operational. Warranty extension in such case shall be done without prejudice to any other Term & condition of the contract

(II) **Operation Maintenance Contract (OMC):**

- The firm shall quote for OMC for [three years](#) subsequent to completion of Warranty for Twelve (12) months + 12 months extended warranty period. The firm shall submit the year wise breakup of OMC charges.
- Operator is required from the first year.
- The bidder should provide operation maintenance service (including spares) for 3 years after the expiry of warranty period. The price should not be quoted as a percentage of project cost etc, but should be quoted as lump sum amount per year for 3 years after the expiry of warranty period.
- The bidder should submit the list of spares stocked at them to provide the OMC Support for 3 years. Rate of OMC will be taken into consideration for deciding L1.
- The Services towards Post Warranty OMC for (03) Three Years may be carried out only after the expiry of Warranty for Twelve (12) months + 12 months extended warranty as this Institute reserves the rights to award the OMC after the warranty period AND if awarded OMC work may be carried out **ONLY AFTER** receipt of a confirmation letter from this Institute. Payment will be done on quarterly basis on

successful completion of each quarter with certification by the end user and submission of the required supporting documents.

4.6 Delivery Schedule

8-12 weeks after Receipt of Order/Establishment of L/C and installation with 1 month from the date of delivery.

4.7 Commercial evaluation of bid

The bid will be treated as **Incomplete** if bidder has **not quoted** for all the components given in scope of supply (clause 4.2) and **the incomplete bid will be rejected**. The bidder should also quote for all incidental services (clause 4.5). The bid will be commercially evaluated for the components in the scope of supply.

CHAPTER 5

Qualification Requirements

The Bidder shall furnish documentary evidence along with Technical Bid to support the following Qualification Criteria:

1) The bidder shall furnish documentary evidence to demonstrate that the bidder satisfies the bidders' **eligibility criteria**, as mentioned in **ITB Clause 1.1.2** in the form as per **Annexure-K of Chapter- 8**.

2) **Financial Qualifying Criteria:**

The Bidder shall furnish documentary evidence to meet the following Financial Qualifying Criteria:

- a) An **undertaking (self-certificate)** is to be submitted that the Organization has not been blacklisted during last 3 years by any Central / State Government Department/Organization in the form as per **Annexure-L of Chapter- 8**.
- b) The **Creditworthy report - MIRA inform report of the OEM / Principal supplier for the Current Financial Year** is to be enclosed along with the Technical Bid **If the total price of the Equipment/System is more than Rs. 1 crore (Rs.10 million)**. The minimum rating for Financial Qualification is **Rating-Ba**.

The Creditworthy Report may be obtained from:

M/s. MIRA INFORM PRIVATE LIMITED,
605, Palmspring, Near D'Mart,
Link Road, Malad (West),
Mumbai: 400 064;
Tel Nos.: 022 – 40448000 (44 lines)
Fax No. 022-0448045 / 40448046;
E-mail: mira@mirainform.com; info@mirainform.com
Website: <http://www.mirainform.com>

Note: The creditworthy report from other reputed and equivalent firms (**such as Dun & Bradstreet**) is also acceptable. However, report should have been obtained after **1st April 2025**.

3) The Bidder should be a manufacturer /authorized representative of a manufacturer who must have designed, manufactured, tested and supplied the equipment(s) similar to the type specified in the "Technical Specification". The **Manufacturers' Authorization Form** Chapter-8: Annexure B must be enclosed with the technical bid.

4) **Experience and Technical Capacity:**

The Bidder shall furnish documentary evidence to demonstrate that it meets the following experience requirement(s):

- a) Equipment / System offered must be of the most recent series/models incorporating the latest improvements in design. The models should be in successful operation for at least one year as on date of Bid Opening.
- b) The bidder (OEM/Direct Distributor/Dealer) should have supplied and installed during **past 3 years, at least two similar equipments / systems** as mentioned in Chapter-4. The Bidder should furnish the information on all past supplies and satisfactory performance during past 3 years in the **Performance Statement Form** (Chapter-8, Annexure D). Bidders shall invariably furnish documentary evidence (Client's certificate) in support of the **satisfactory operation of the equipment / system**.
- c) Details of Service Centres and information on service support facilities that would be provided after the warranty period (in the **Service Support Form**- Chapter-8 Annexure-F).

- a) That adequate and specialized expertise is already available or will be made available following the execution of the contract in the Purchaser's country, to ensure that the support services are responsive and adequate as per **ITB 1.13.2(c)**.
- 5) The Indian Agents of foreign manufacturers/ suppliers quoting directly on behalf of their principals for items appearing in the **restricted list of the current EXIM policy of the Govt. of India** must be registered with DGS&D.
- 6) Either the Indian Agent on behalf of the foreign principal or the foreign principal directly could bid in a tender **but not both**. However, the offer of the Indian Agent should also accompany the authorization letter from their principal. Further, to maintain sanctity of tendering system **one Indian agent cannot represent two different foreign principals in one tender**.

The bidders who do not fulfil the above Eligibility, Financial and Technical Qualification Criteria shall be rejected during the Evaluation of Technical Bid.

CHAPTER 6: PRICE SCHEDULE

Sr. No.	Item Description	Foreign Currency Component as per Chapter 6-A	INR Price Component as per Chapter 6-B
		A	B
01	<p>Total Cost of Supply, Installation & Commissioning of High-Resolution Gas Chromatograph Mass Spectrometer with Thermal Desorption unit and sampling station Qty. - 2 Sets</p> <p>(Supply, Installation & Commissioning Charges, Warranty Charges if any, Applicable Duties & Taxes etc.).</p> <p>The details may be submitted as per the pro-forma given at Chapter 6-A & 6-B accordingly)</p>		
02	Grand Total		

Note : The prices mentioned at Sr. No. 02 should exactly be submitted at e-procurement website (Price Bid) and soft copies of price schedule along with relevant chapter 6A & 6B have to be uploaded on e-procurement web portal. The prices submitted on e-procurement website will treated as final and comparison will based on the said prices only.

CHAPTER 6- A:PRICE SCHEDULE FOR GOODS BEING OFFERED FROM ABROAD

(Bidder should quote in this format however, If quoted in different format; all parameters given below should be covered)

Tender No:

Quotation No. _____

Tender Date:

Date: _____

Quotation Valid Upto: _____

Country of Origin: _____					Currency: _____	
Sr.No.	Description of Item		Quantity	Unit	Rate	Amount
	Catalogue, Part/Model No.	Specifications				
1.	Item name					
2.	Required Spares/Consumables (if any)					
3.	Accessories (if any)					
4.	Additional Items					
Total Ex-Works Price						
(-) LESS: Discount <u> </u> % (if any)						
Net Ex-Works Price						
(+) Packing & Forwarding Charges						
(+) Inland Freight Charges						
(INCO TERM): FOB / FCA <u> </u> International Airport, <u> </u> Country						
(+) Freight upto Mumbai & Insurance Charges						
CIF / CIP MUMBAI Price						
Approximate Weight of the Consignment			Approximate Dimensions of the Consignment			

TENDER CLAUSE NO.	TERM		CONDITION			
GCC/SCC 2.15.3	Mode of Shipment		BY AIR / SEA / ROAD			
GCC 2.15.2	Delivery Term(INCOTERM)					
CHAPTER 3	Delivery Schedule		As enclosed in Technical Bid as per Chapter-3			
	Period of delivery shall count from					
	Time Frame required for conducting Installation & commissioning of the equipment, Acceptance Test, Training, etc.					
	Port of destination		Mumbai, India			
	Final Destination		Item 1 : IITM, Pune, Item 2: HACPL, Mahabalshwar			
	Installation & Commissioning Charges					
4.4	Training Details & Charges					
GCC/SCC 2.20 (c)	Warranty		Period	Charges If any		
			1 st Year			
			2 nd Year (Extended)			
	Annual Maintenance Contract	Operation	1. First Year			
			2. Second Year			
			3. Third Year			
GCC/SCC 2.21.1	Payment Term					
GCC/SCC 2.21.1 (d)	Bank Charges		Inside India to IITM account and Outside India to beneficiary's account			

SIGNATURE OF AUTHORISED PERSON

CHAPTER 6- B :PRICE SCHEDULE FOR GOODS BEING OFFERED FROM INDIA

(Bidder should quote in this format however, if quoted in different format; all parameters given below should be covered)

Tender No: _____ Tender Date: _____
 Quotation No. _____ Date: _____ Quotation Valid Upto: _____

Sr.No.	Description of Item		Quantity	Unit	Rate	Amount (Rs.)
	Catalogue, Part/Model No.	Specifications				
1.	Item name					
2.	Required Spares/Consumables (if any)					
3.	Accessories (if any)					
4.	Additional Items					
Total Ex-Works Price						
(-) LESS: Discount ____ % (if any)						
Net Ex-Works Price						
(+) Packing & Forwarding Charges						
(+) Transportation Charges						
GST @ 18% on supplies only)						
GRAND TOTAL						
Approximate Weight of the Consignment		Approximate Dimensions of the Consignment				

TENDER CLAUSE NO.	TERM	CONDITION	
GCC/SCC 2.15.3	Mode of Shipment	BY AIR / RAIL / ROAD	
GCC 2.15.2	Delivery Term	Free Delivery to IITM Pune	
CHAPTER 3	Delivery Schedule	As enclosed in Technical Bid as per Chapter-3	
	Period of delivery shall count from		
	Time Frame required for conducting Installation & commissioning of the equipment, Acceptance Test, Training, etc.		
	Port of destination	Mumbai, India	
	Final Destination	Item 1 : IITM, Pune, Item 2: HACPL, Mahabalshwar	
	Installation & Commissioning Charges including taxes		
4.4	Training Details & Charges		
GCC/SCC 2.20.3	Warranty	Period	Charges If any
		1 st Year	
		2 nd Year (Extended)	
GCC/SCC 2.21.1	Annual Maintenance Contract	Operation	1. First Year
			2. Second Year
			3. Third Year

SIGNATURE OF AUTHORISED PERSON

CHAPTER 7

Contract Form

Contract No. _____ Date: _____

THIS CONTRACT AGREEMENT is made
the [*Insert: number*] day of [*Insert: month*], [*Insert: year*].

BETWEEN

- (1) Indian Institute of Tropical Meteorology registered under the Societies Registration Act 1860 of the Government of India having its registered office at Dr. Homi Bhabha Road, Pashan, Pune – 411 008, India (hereinafter called “the Purchaser”), and
- (2) [*Insert name of Supplier*], a corporation incorporated under the laws of [*Insert: country of Supplier*] and having its principal place of business at [*Insert: address of Supplier*] (hereinafter called “the Supplier”).

WHEREAS the Purchaser invited bids for certain Goods and ancillary services, viz., [*Insert brief description of Goods and Services*] and has accepted a Bid by the Supplier for the supply of those Goods and Services in the sum of [*Insert Contract Price in words and figures, expressed in the Contract currency(ies)*] (hereinafter called “the Contract Price”).

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

01. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
02. The following documents shall constitute the Contract between the Purchaser and the Supplier, and each shall be read and construed as an integral part of the Contract:

(a)	This Contract Agreement
(b)	General Conditions of Contract
(c)	Special Conditions of Contract
(d)	Technical Requirements (including Schedule of Requirements and Technical Specifications)
(e)	The Supplier's Bid and original Price Schedules
(f)	The Purchaser's Notification of Award
(g)	[<i>Add here any other document(s)</i>]
03. This Contract shall prevail over all other Contract documents. In the event of any discrepancy or inconsistency within the Contract documents, then the documents shall prevail in the order listed above.
04. In consideration of the payments to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Purchaser to provide the Goods and Services and to remedy defects therein in conformity in all respects with the provisions of the Contract.
05. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the Goods and Services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of Union of India on the day, month and year indicated above.

For and on behalf of the IITM, Pune.

Signed : [*Insert signature*]
in the capacity of [*Insert title or other appropriate designation*]
in the presence of [*Insert identification of official witness*]

Signed : [*Insert signature*]
in the capacity of [*Insert title or other appropriate designation*]
in the presence of [*Insert identification of official witness*]

For and on behalf of the Supplier

Signed : [*Insert signature of authorized representative(s) of the Supplier*]
in the capacity of [*Insert title or other appropriate designation*]
in the presence of [*Insert identification of official witness*]

CHAPTER 8

OTHER STANDARD FORMS

Sr. No.	Name of the Form	Annexure
1	Bidder Information Form	A
2	Manufacturers' Authorization Form	B
3	Bid Security Form / Earnest Money Deposit	C
4	Performance Statement Form	D
5	Deviation Statement Form	E
6	Service Support Detail Form	F
7	Bid Form	G
8	Performance Security Form	H
9	Acceptance Certificate Form	I
10	Indemnity Bond	J
11	Eligibility Certificate	K
12	Non-Black List Certificate	L
13	Integrity Pact	M

NOTE: The Successful Bidder shall submit Documents with reference to Annexure – H, I & J after Award of Contract as mentioned in Purchase Order.

Bidder Information Form

(a) *[The Bidder shall fill in this Form in accordance with the instructions indicated below. No alterations to its format shall be permitted and no substitutions shall be accepted. This should be done of the letter head of the firm]*

Date : *[Insert date (as day, month and year) of Bid Submission]*

Tender No .: *[Insert number from Invitation for bids]*

01.	Bidder's Legal Name <i>[Insert Bidder's legal name]</i>
02.	In case of JV, legal name of each party: <i>[Insert legal name of each party in JV]</i>
03.	Bidder's actual or intended Country of Registration: <i>[Insert actual or Intended Country of Registration]</i>
04.	Bidder's Year of Registration: <i>[Insert Bidder's year of registration]</i>
05.	Bidder's Legal Address in Country of Registration: <i>[Insert Bidder's legal address in country of registration]</i>
06.	Bidder's Authorized Representative Information Name: <i>[Insert Authorized Representative's name]</i> Address: <i>[Insert Authorized Representative's Address]</i> Telephone/Fax numbers: <i>[Insert Authorized Representative's telephone/fax numbers]</i> Email Address: <i>[Insert Authorized Representative's email address]</i>
07.	Attached are copies of original documents of: Articles of Incorporation or Registration of firm named in 1, above.

Signature of Bidder _____

Name _____

Business Address _____

MANUFACTURERS' AUTHORIZATION FORM

[The Bidder shall require the Manufacturer to fill in this Form in accordance with the Instructions Indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer.]

Date : *[insert date (as day, month and year) of Bid Submission]*

Tender No. : *[Insert number from Invitation For Bids]*

To : *[insert complete name and address of Purchaser]*

WHEREAS

We *[Insert complete name of Manufacturer]*, who are official manufacturers of *[Insert type of goods manufactured]*, having factories at *[Insert full address of Manufacturer's factories]*, do hereby authorize *[Insert complete name of Bidder]* to submit a bid the purpose of which is to provide the following Goods, manufactured by us *[insert name and or brief description of the Goods]*, and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with Clause 2.20 of the General Conditions of Contract, with respect to the Goods offered by the above firm.

Signed: *[Insert signature(s) of authorized representative(s) of the Manufacturer]*

Name: *[Insert complete name(s) of authorized representative(s) of the Manufacturer]*

Title: *[Insert title]*

Duly authorized to sign this Authorization on behalf of: *[Insert complete name of Bidder]*

Dated on _____ day of _____, _____ *[insert date of signing]*

BID SECURITY FORM

Whereas _____
(hereinafter called the tenderer)

has submitted their offer dated _____
for the supply of _____
(hereinafter called the tender)

Against the Purchaser's Tender No. _____
KNOW ALL MEN by these presents that WE _____
of _____ having our registered office at _____
are bound unto _____ (hereinafter called the "Purchaser")

In _____ the _____ sum _____ of _____

For which payment will and truly to be made to the said Purchaser, the Bank binds itself, its successors and assigns by these presents. Sealed with the Common Seal of the said Bank this _____ day of 20 _____.

THE CONDITIONS OF THIS OBLIGATION ARE:

(1)	If the tenderer withdraws or amends or modifies or impairs or derogates from the Tender in any respect within the period of validity of this tender.
(2)	If the tenderer having been notified of the acceptance of his tender by the Purchaser during the period of its validity
(3)	If the tenderer fails to furnish the Performance Security for the due Performance of the contract.
(4)	Fails or refuses to accept/execute the contract.

We undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it owing to the occurrence of one or both the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including 45 days after the period of tender validity and any demand in respect thereof should reach the Bank not later than the above date.

(Signature of the authorized officer of the Bank)

Name and designation of the officer
Seal, name & address of the Bank and address of the
Branch

Note: Whenever the bidder chooses to submit the Bid Security in the form of Bank Guarantee, then he should advise the banker issuing the Bank Guarantee to immediately send by Registered Post (A.D.) an un stamped duplicate copy of the Guarantee directly to the Purchaser with a covering letter to compare with the original BG for the correctness, genuineness, etc.

PERFORMANCE STATEMENT FORM**Details of similar equipment / systems supplied & installed during past 3 years in India & Abroad**

Name of the Firm _____

Order Placed by (full address of Purchaser)	Order No. and date	Description and quantity of ordered equipment	Value of order	Date of completion of deliver as per contract	Date of actual completion of delivery	Remarks indicating reasons for late delivery, if any	Has the equipment been installed/ working satisfactory? (Attach a certificate from the purchaser / Consignee)	Name of Contact person along with Telephone No., FAX No. and e-mail address

Signature and Seal of the manufacturer/Bidder

Place :

Date :

DEVIATION STATEMENT FORM**PART -I**

The following are the particulars of deviations from the requirements of the tender specifications:

CLAUSE	DEVIATION	REMARKS (INCLUDING JUSTIFICATION)

Place:

Date:

**Signature and seal of the
Manufacturer/Bidder**

NOTE:

Where there is no deviation, the statement should be returned duly signed with an endorsement indicating "No Deviations".

PART – II
(Refer Clause 1.25 of Tender Document)

Sr.No.	TENDER REQUIREMENT	COMPLIANCE	Document Submitted
1	Bid is Signed	Yes / No	Yes / NA
2	Agree to submit Performance Security 5 % of PO Value as per Clause 17(ii)	Yes / No	Yes / NA
3	Warranty: As per Clause 13 of Tender Document from Installation & Commissioning and date of acceptance.	Yes / No	Yes / NA
4	Bid Validity (180 days after the date of Bid opening)	Yes / No Bid valid up to	Yes / NA
5	Bidder Information Form enclosed as per Annexure -A (supported by Attested copy of Certificate of Incorporation)	Yes / No	Yes / NA
6	Manufacturers Authorisation Form (MAF) (If Applicable), as per Annexure-B	Yes / No	Yes / NA
7	Bid Security form as per Annexure-C	Yes / No	Yes / NA
8	Performance Statement form as per Annexure-D	Yes / No	Yes / NA
9	Deviation Statement form enclosed as per Annexure E Part - I and Annexure Part - II	Yes / No	Yes / NA
10	Service Support details form enclosed as per Annexure F	Yes / No	Yes / NA
11	Price bid form as per Annexure G without mentioning price/quote	Yes / No	Yes / NA
12	Eligibility certificate as per Annexure - K and Non-black listing self-certificate as per Annexure - L	Yes / No	Yes / NA
13	Copies of Firm's / Company's Permanent Account No. (PAN) issued by Income Tax Department, Govt. of India	Yes / No	Yes / NA
14	Copy of Firm's / Company's Goods & Service Tax (GST) Registration issued by GST Department / Authority of the respective state.	Yes / No	Yes / NA
15	Schedule of Requirement as per chapter 3	Yes/No	Yes/NA
16	Integrity Pact as per Annexure N	Yes/No	Yes/NA

The Bidder should **submit other documents** such as Schedule of Requirement (Chapter-3) and various forms as specified in Chapter-8.

SERVICE SUPPORT DETAIL FORM

Sr. No.	List of similar type of equipments serviced in the past 3 years	Address, Telephone Nos., Fax No. and e-mail address of the buyer	Nature of training Imparted/ service provided	Name and address of service provider

Signature and Seal of the manufacturer/Bidder.....

Place :

Date :

Bid Form

[The Bidder shall fill in this Form in accordance with the instructions indicated No alterations to its format shall be permitted and no substitutions shall be accepted.]

Date : *[Insert date (as day, month and year) of Bid Submission]*

Tender No. :

To : Director, IITM, Pune

We, the undersigned, declare that:

(a)	We have examined and have no reservations to the Bidding Documents, including Addenda No.: <i>[Insert the number and issuing date of each Addenda]</i>
(b)	We offer to supply in conformity with the Bidding Documents and in accordance with the Delivery Schedule specified in the Schedule of Requirements the following Goods and Related Services <i>[Insert a brief description of the Goods and Related Services] as specified in Chapter 4</i>
(c)	The total price of our Bid, excluding any discounts offered in item (d) below, is: <i>[Insert the total bid price in words and figures, indicating the various amounts and the respective currencies]</i>
(d)	The discounts offered and the methodologies for their application are: Discounts. If our bid is accepted, the following discounts shall apply. <i>[Specify in detail each discount offered and the specific item of the Schedule of Requirements to which it applies.]</i>
(e)	Our bid shall be valid for the period of time specified in ITB Clause 1.16, from the date fixed for the bid submission due date in accordance with ITB Clause 1.19 and it shall remain binding upon us and may be accepted at any time before the expiration of that period
(f)	If our bid is accepted, we commit to obtain a performance security in accordance with ITB Clause 1.41 and GCC Clause 2.12 for the due performance of the Contract
(g)	The following commissions, gratuities, or fees have been paid or are to be paid with respect to the bidding process or execution of the Contract: <i>[Insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity]</i>

Name of Recipient

Address

Reason

Amount

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

(If none has been paid or is to be paid, indicate "none.")

(h)	We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed.
(i)	We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.

Signed : *[Insert signature of person whose name and capacity are shown]*

In the capacity of *[Insert legal capacity of person signing the Bid Submission Form]*

Name : *[Insert complete name of person signing the Bid Submission Form]*

Duly authorized to sign the bid for and on behalf of: *[Insert complete name of Bidder]*

Dated on _____ day of _____, _____ *[Insert date of signing]*

ANNEXURE-H

PERFORMANCE SECURITY FORM

MODEL BANK GUARANTEE FORMAT FOR PERFORMANCE SECURITY

To,

.....

WHEREAS

(name and address of the supplier) (hereinafter called "the supplier") has undertaken, in pursuance of contract no. datedto supply (description of goods and services) (herein after called "the contract").

AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a scheduled commercial bank recognized by you for the sum specified therein as security for compliance with its obligations in accordance with the contract;

AND WHEREAS we have agreed to give the supplier such a bank guarantee;

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the supplier, up to a total of (amount of the guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid until the day of 20.....

(Signature of the authorized officer of the Bank)

.....
Name and designation of the officer

.....
Seal, name & address of the Bank and address of the Branch

Note: Whenever, the bidder chooses to submit the Performance Security in the form of Bank Guarantee, then he should advise the banker issuing the Bank Guarantee to immediately send by Registered Post (A.D.) an un stamped duplicate copy of the Guarantee directly to the Purchaser with a covering letter to compare with the original BG for the correctness, genuineness, etc.

Acceptance certificate form

No.

Dated:

M/s. _____

Sub: Certificate of commissioning of equipment

01. This is to certify that the equipment as detailed below has/have been received in good condition along with all the standard and special accessories (subject to remarks in Para 2). The same has been installed and commissioned.

(a)	Contract No. Date:	
(b)	Description of the equipment	
(c)	Name of the consignee	
(d)	Scheduled date of delivery of the consignment to the Laboratory / Institutes	
(e)	Actual date of receipt of consignment by the Laboratory / Institutes	
(f)	Scheduled date for completion of installation/commissioning	
(g)	Actual date of completion of installation/commissioning	
(h)	Penalty for late delivery (at Laboratory / Institutes level) Rs.	
(i)	Penalty for late installation (at Laboratory / Institutes level) Rs.	

02 Details of accessories/items not yet supplied and recoveries to be made on that account:

Sr. No.	Description	Amount to be recovered

03 The acceptance test has been done to our entire satisfaction. The supplier has fulfilled his contractual obligations satisfactorily

OR

The supplier has failed to fulfil his contractual obligations with regard to the following:

Sr. No.	Failure	Amount to be recovered
(a)		
(b)		
(c)		

The amount of recovery on account of failure of the supplier to meet his contractual obligations is as indicated at para03.

For Supplier

Signature

Name

Designation

Name of the firm

For Purchaser

Signature

Name

Designation

INDIAN INSTITUTE OF TROPICAL METEOROLOGY

Date

Date

INDEMNITY BOND

No. _____

Date: _____

1) Amalgamation/Acquisition

In the event of M/s. _____ proposes for amalgamation, acquisition or sale of its business to any other firm during this contract period, M/s. _____ and proposed Buyer/Successor of the Principal Company are liable to execute, fulfill contractual obligations without any deviations. For this purpose M/s. _____ /M/s. _____ and proposed Buyer/Successor of the Principal Company shall indemnify itself to the Director, INDIAN INSTITUTE OF TROPICAL METEOROLOGY, Pune to fulfill the contractual obligations as per the terms of the IITM Global Tender and quotation of M/s. _____ No. _____ dated _____ and INDIAN INSTITUTE OF TROPICAL METEOROLOGY P.O. No. _____ dated _____. The contractual obligations are supply, installation, commissioning, warranty maintenance/replacement of spares, accessories etc. as per the above mentioned Purchase Order.

2) Joint Venture, Consortium or Association

If the Supplier is a joint venture, consortium, or association, all the parties shall be jointly and severally liable to the IITM for the fulfillment of the provisions of the Contract and shall designate one party to act as a leader with authority to bind the joint venture, consortium, or association. The composition or the constitution of the joint venture, consortium, or association shall not be altered without the prior consent of the IITM.

3) Patent Indemnity

The Supplier shall, subject to IITM's compliance and indemnify and hold IITM and its employees and officers harmless from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which IITM may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract by reason of: (a) the installation of the Goods by the Supplier or the use of the Goods in India; and (b) the sale in any country of the products produced by the Goods.

For M/s. _____
Principal Supplier.

For M/s. _____
Indian Agent.

ANNEXURE-K**Eligibility Certificate**

This is to certify that we are not associated, or have been associated in the past, directly or indirectly, with a firm or any of its affiliates which have been engaged by the Purchaser to provide consulting services for the preparation of the design, specifications, and other documents to be used for the procurement of the goods to be purchased under this Invitation of Bids / Tender No. _____ dated _____.

Authorised Signatory

Name: _____

Designation: _____

ANNEXURE-L**Non-Black listing Self Certificate**

This is to certify that M/s. _____ has not been blacklisted by any Central / State Government Department / organization in last 3 years.

Authorised Signatory

Name: _____

Designation: _____

Instructions for Online Bid Submission on E-Wizard Web Portal:

The bidders are required to submit soft copies of their bids electronically on the e-tender Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the e-Procurement Portal <https://moes.ewizard.in>, prepare their bids in accordance with the requirements and submitting their bids online on the e- Procurement Portal.

More information useful for submitting online bids on the e-Procurement Portal may be obtained at: <https://moes.ewizard.in>

REGISTRATION

1. Bidders are required to enroll on the e-Procurement Portal (<https://moes.ewizard.in>) with clicking on the link "Online bidder Registration" on the e-tender Portal by paying the Registration fee of Rs. 2360/- per year charge.
2. As part of the enrolment process, the bidders will be required to choose a unique user name and assign a password for their accounts.
3. Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication with the bidder.
4. Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Only Class III Certificates with signing + encryption key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / TCS / nCode / eMudhra etc.), with their profile.
5. Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC's to others which may lead to misuse.
6. Bidder then logs in to the site through the secured log-in by entering their user ID/password and the password of the DSC / e-Token.
7. The scanned copies of all original documents should be uploaded on portal.
8. For any Query contact to our helpdesk Number 011-49606060, Email: helpdeskeuniwizarde@gmail.com, Mr. Sunil – 8448288990.

SEARCHING FOR TENDER DOCUMENTS

9. There are various search options built in the e-tender Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Item/work id, Title, Date, etc
10. Once the bidders have selected the tenders they are interested in, the bidder can pay the processing fee of Rs.+ 18 % GST/- (NOT REFUNDABLE) by net-banking / Debit / Credit card and then download the required documents / tender schedules, Bid documents etc. Once both tender fees are paid, it will be moved to the respective "requested" Tab. This would enable the e-tender Portal to intimate the bidders through e-mail in case there is any corrigendum issued to the tender document.

PREPARATION OF BIDS

11. Bidder should take into account any corrigendum published on the tender document before submitting their bids.
12. Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
13. Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / JPEG formats. Bid Original documents may be scanned with 100 dpi with Colored option which helps in reducing size of the scanned document.
14. To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Documents" available to them to upload such documents.
15. These documents may be directly submitted from the "My Documents" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

SUBMISSION OF BIDS

16. Bidder should log into the website well in advance for the submission of the bid so that it gets uploaded well in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
17. The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
18. Bidder has to select the payment option as “DD” to pay the EMD as applicable and enter details of the instrument.
19. Bidder should prepare the EMD as per the instructions specified in the tender document & submit EMD fee manually at department end. The original bid should be posted/couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
20. *Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.
21. The server time (which is displayed on the bidders’ dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
22. All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid opener public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
23. The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
24. Upon the successful and timely submission of bid click “Complete” (i.e. after Clicking “Submit” in the portal), the portal will give a successful Tender submission acknowledgement & a bid summary will be displayed with the unique id and date & time of submission of the bid with all other relevant details.
25. The tender summary has to be printed and kept as an acknowledgement of the submission of the tender. This acknowledgement may be used as an entry pass for any bid opening meetings.

ASSISTANCE TO BIDDERS

1. For any Query contact to our helpdesk Number 011-49606060, Email helpdeskeuniwizarde@gmail.com, Mr. Shubhankar- +91 8076208996; Mr Awesh - 91 9205898224, Mr. Abhishek Kumar - 8210817180

ANNEXURE – N

**Format of the Integrity Pact
PRE CONTRACT INTEGRITY PACT**

General

This pre-bid-contract Agreement (hereinafter called the Integrity Pact) is made on day of the month of 2024, between, on one hand, the Director IITM, Pune acting through Shri _____,

Designation of the officer, Ministry/ Department, Government of Indian (hereinafter called the 'BUYER", which expression shall mean and include, unless the context otherwise required, his successors in office and assigns) of the First Part and M/s _____ represented by Shri _____, Chief Executive Officer (hereinafter called the 'BIDDER/Seller" which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the Second Part.

WHEREAS the BUYER proposes to procure (Name of the Stores/Equipment/Item) and the BIDDER /Seller is willing to offer/has offered the stores and

WHEREAS the BIDDER is private company/public company/Government undertaking/partnership/registered export agency, constituted in accordance with the relevant law in the matter and the BUYER is a Ministry/Department of the Government of India/PSU performing its functions on behalf of the President of India

NOW, THEREFORE,

To avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings prior to, during and subsequent to the currency of the contract to be entered into with a view to :-

Enabling the BUYER to obtain the desired said stores/equipment at a competitive price in conformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption on public procurement, and

Enabling BIDDERs to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and BUYER will commit to prevent corruption, in any form, by its officials by following transparent procedures.

The parties hereto agree into this Integrity Pact and agree as follows:-

Commitments of the BUYER

- 1.1 The BUYER undertakes that no official of the BUYER, connected directly or indirectly with the contract, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the BIDDER, either for themselves or for any person, organization or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the contract.

- 1.2 The BUYER will, during the pre-contract stage, treat all BIDDERS alike, and will provide to all BIDDERS the same information and will not provide and such information to any particular BIDDER which could afford an advantage to that particular BIDDER in comparison to other BIDDERS.
- 1.3 All the officials of the Buyer will report the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.
- 2. In case any such preceding misconduct on the part of such official(s) is reported by the BIDDER to the BUYER with full and verifiable facts and the same is *prima facie* found to be correct by the BUYER, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceeding, or any other action as deemed fit, including criminal proceedings may be initiated by the BUYER and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted the BUYER the proceedings under the contract would not be stalled.

Commitments of BIDDERS

- 3. The BIDDER commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following :-
- 3.1 The BIDDER will not offer directly or through intermediaries, any bribe, gift, consideration, reward, favor, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.
- 3.2 The BIDDER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favor, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER or otherwise in procuring the Contract or forbearing to do so having done any act in relation to the obtaining or execution of the contract or any other contract with the Government for showing or forbearing to show favor or disfavor to any person in relation to the contract or any other contract with the Government.
- 3.3* BIDDERS shall disclose the name and address of agents and representatives and Indian BIDDERS shall disclose their foreign principals or associates.
- 3.4 * BIDDERS shall disclose the payments to be made by them to agents/brokers or any other intermediary, in connection with this bid/contract.
- 3.5 * The BIDDER further confirms and declares to the BUYER that the BIDDER is the original manufacturer/integrator/authorized government sponsored export entity of the defense stores and has not engaged any individual or firm or company whether Indian or foreign to intercede, facilitate or in any way to recommend to the BUYER or any of its functionaries, whether officially or unofficially to the award of the contract to the BIDDER, nor has any amount been paid, promised or intended to be paid to any such individual, firm or company

in respect of any such intercession, facilitation or recommendation.

3.6 * The BIDDER, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments he has made, is committed to or intends to make to officials of the BUYER or their family members, agents, brokers or any other intermediaries in connection with the contract and the details if services agree upon for such payments.

3.7 The BIDDER will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.

3.8 The BIDDER will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.

3.9 The BIDDERS shall not use improperly, for purposes of competition or personal gain, or pass on to others, any information provided by the BUYER as part of the business relationship, regarding plans, technical proposals and business details, including information contains in any electronic data carrier. The BIDDER also undertakes to exercise due and adequate care lest any such information is divulged.

3.10 The BIDDER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.

3.11 The BIDDER shall not instigate or cause to instigate any third person to commit any of the action mentioned above.

3.12 If BIDDER or any employee of the BIDDER or person acting on behalf of the BIDDER, either directly or indirectly, is a relative of any of the officers of the BUYER, or alternatively, if any relative of an officer of the BUYER has financially interested/stake in the BIDDER's firm, the same shall be disclosed by the BIDDER at the time of filling of tender.

The term 'relative' for this purpose would be as define in Section 6 of the Companies Act 1956.

3.13 The BIDDER shall not lend to or borrow any money from or entire into any monetary dealings or transactions, directly or indirectly, with any employee of the BUYER.

4. Previous Transgression

4.1 The BIDDER declares that no previous transgression occurred in the last three years immediately before signing of this Integrity Pact, with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise in India or any Government Department in India that could justify BIDDER's exclusion from the tender process.

4.2 The BIDDER agrees that if it makes incorrect statement on this subject BIDDER can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

5. Earnest Money (Security Deposit)

5.1 While submitting commercial bid, the Bidder shall deposit an amount _____ (to be specified in RFP) as Earnest Money/ Security Deposit, with the BUYER through any of the following instruments:

- i) Bank Draft or a Pay Order in favor of _____
- ii) A confirmed guaranteed by an Indian Nationalized Bank. Promising payment of the guaranteed sum to the BUYER on demand within three working days without any demur whatsoever and without seeking any reason whatsoever. The demand for payment by the BUYER shall be treated as conclusion proof of payment.
- iii) Any other mode or through any other instruments (to be specified in the RFP).

5.2 The Earnest Money/ Security Deposit shall be valid upto a period of six months or the complete conclusion of the contractual obligation to the complete satisfaction of the both the BIDDER and the BUYER, including warranty period, whichever is later.

5.3 In case of the successful BIDDER a clause would also be incorporated in the Article pertaining to performance Bond in the Purchase Contract that the provisions of Sanctions for Violation shall be applicable for forfeit the same without assigning any reason for imposing sanction for violation of this Pact.

5.4 No interest shall be payable by the BUYER to the BIDDER on Earnest Money/Security Deposit for the period of its currency.

6. Sanction for Violations

6.1 Any breach of the aforesaid provisions by the BIDDER or any on employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER) shall entitled the BUYER to take all or any one of the following actions, wherever required:

- i) To immediately call off the pre contract negotiations without assigning any reason or giving any compensation to the BIDDER. However, the proceedings with the other BIDDER(s) would continue.
- ii) The Earnest Money (in pre-contract stage) and/or Security Deposit/ Performance Bond (after the contract is signed) shall stand forfeited either fully or partially, as decided by the BUYER and the BUYER shall not be required to assign any reason thereof.
- iii) To immediately cancel the contract. If already signed, without giving any compensation to the BIDDER.
- iv) To recover all sums already paid by the BUYER, and in case of an Indian BIDDER with interest thereof at 2% higher than the prevailing Prime Lending Rate of State Bank of India, while in case of a BIDDER from a country other than India with interest thereon at 2% higher than the LIBOR. If any outstanding payment is due to the bidder from the BUYER in connection with any other contract for any other stores, such outstanding payment could also be utilized to recover the aforesaid sum and interest.
- v) To encash the advance bank guarantee and performance bond/warranty bond, if furnished by the BIDDER, in order to recover the payments, already made by the BUYER, along with interest.
- vi) To cancel all or any other Contracts with the BIDDER. The BIDDER shall be liable to pay compensation for any loss or damage to the BUYER resulting from such cancellation/rescission and the BUYER shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER.

- vii) To debar the BIDDER from participating in future bidding processes of the Government of India for a minimum period of five years, which may be further extended at the discretion of the BUYER.
- viii) To recover all sums paid in violation of this Pact by BIDDER(s) to any middleman or agent or broker with a view to securing the contract.
- viii) in case where irrevocable Letters of Credit have been received in respect of any contract signed by the BUYER with the BIDDER, the same shall not be opened.
- (x) Forfeiture of Performance Bond in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.

6.2 The BUYER will be entitled to take all or any of the actions mentioned at para 6.1 (i) to (x) of this Pact also on the Commission by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER), of an offence as defined in Chapter IX of the Indian Penal Code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.

6.3 The decision of the BUYER to the effect that a breach of the provisions of this Pact has been committed by the BIDDER shall be final and conclusive on the BIDDER. However, the BIDDER can approach the Independent Monitor(s) appointed for the purposes of this Pact.

7. Full Clause

7.1 The BIDDER undertakes that it has not supplied/is not supplying similar product/systems or subsystems at a price lower than that offered in the present bid in respect of any other Ministry/Department of the Government of India or PSU and if it is found at any stage that similar product/systems or sub systems was supplied by the BIDDER to any other Ministry/Department of the Government or India or a PSU at a lower price, then that very price, with due allowance for elapsed time, will be applicable to the present case and the difference in cost would be refunded by the BIDDER to the BUYER, if the contract has already been concluded.

8. Independent Monitors

8.1 The BUYER has appointed Independent monitors (hereinafter referred to as Monitors) for this Pact in consultation with the Central Vigilance Commission. The details of Independent External Monitors are as below;

(3) Dr. Ajay Kumar Lal ,IRAS (Retd.), DDA, HIG,
Block 3A/101 A.
Motia Khan (Near Jhandewalan Temple),
D.B. Gupta Road, New Delhi-110015
[Email: ajayklal@yahoo.com](mailto:ajayklal@yahoo.com),
Mobile No: 9560712003

(4) Shri. Pavan Kumar Jain, IDSE (Retd.)
A-402, Shree Ganesh

Apartments, Plot No. 12B, Sector-7 Dwarka,
New Delhi- 110075
[Email: mespkj@gmail.com](mailto:mespkj@gmail.com), Mobile No: 9313498388

- 8.2 The task of the Monitors shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.
- 8.3 The Monitors shall not be subject to instructions by the representatives of the parties and perform their functions neutrally and independently.
- 8.4 Both the parties accept that the Monitors have the right to access all the documents relating to the project/procurement, including minutes of the meetings.
- 8.5 As soon as the Monitor notices, or has reason to believe, a violation of this Pact, he will so inform the Authority designated by the BUYER.
- 8.6 The BIDDER(s) accepts that the Monitor has the right to access without restriction to all Project documentation of the BUYER including that provided by the BIDDER. The BIDDER will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Subcontractors. The Monitor shall be under contractual obligation to treat the information and documents of the BIDDER/Subcontractor(s) with confidentiality.
- 8.7 The BUYER will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the parties. The parties will offer to the Monitor the option to participate in such meetings.
- 8.8 The Monitor will submit a written report to the designated Authority of the BUYER/Secretary in the Department/ within 8 to 10 weeks from the date of reference or intimation to him by the BUYER / BIDDER and, should the occasion arise, submit proposals for correcting problematic situations.
- 8.9 **Furthermore, aside from the dispute settlement mechanism outlined in Clause 2.31 on Page 28, the Independent Evaluation Monitors (IEMs) have the authority to serve as mediators in the event of a dispute between the buyer and bidder(s). The IEMs will act as mediators upon approval from the Director of the buyer organization.**

9. Facilitation of Investigation

In case of any allegation of violation of any provisions of this Pact or payment of commission, the BUYER or its agencies shall be entitled to examine all the documents including the Books of Accounts of the BIDDER and the BIDDER shall provide necessary information and documents in English and shall extend all possible help for the purpose of such examination.

10. Law and Place of Jurisdiction

This Pact is subject to Indian Law. The place of performance and jurisdiction is the seat of the BUYER.

11. Other Legal Actions

The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.

12. Validity

12.1 The validity of this Integrity Pact shall be from date of its signing and extend upto 5 years or the complete execution of the contract to the satisfaction of both the BUYER and the BIDDER/Seller, including warranty period, whichever is later. In case BIDDER is unsuccessful, this Integrity Pact shall expire after six months from the date of the signing of the contract.

12.2 Should one or several provisions of this Pact turn out to be invalid, the remainder of this Pact shall remain valid. In this case, the parties will strive to come to an agreement to their original intentions.

13. The parties hereby sign this Integrity Pact at _____ on

BUYER

Name of the Officer

Designation Deptt./Ministry/PSU

BIDDER

CHIEF EXECUTIVE OFFICER

Witness

1. _____

Witness

1. _____

2. _____

2. _____

*Provisions of these clauses would need to be amended/deleted in line with the policy of the BUYER in regard to involvement of Indian agents of foreign suppliers.

Technical Specification for**Item No. 1:****Supply, Installation & Commissioning of High-Resolution Gas Chromatograph Mass Spectrometer with Thermal Desorption unit and sampling station Qty. - 1 Set**

1.	Name of the Instrument	High Resolution Gas Chromatograph Mass Spectrometer with Thermal Desorption unit (GC MS MS with TD) and sampling station		
2.	Quantity	01 nos.		
3.	Purpose of the instrument	The instrument will estimate organic components (PAHs, PCBs, VOCs etc) in particulate matter for source apportionment studies.		
4.	Brief details about instrument	Premium quantitative and qualitative performance with the fast-scanning features in the High resolution GC MS		
5.	Technical specifications including accessories	1	Requirement of Mass Spectrophotometer	<ul style="list-style-type: none"> • A high resolution Benchtop system. • A high resolution Q-TOF MS • GC-MS/MS system utilizing a Quadrupole Mass Filter consisting of a segmented mass filter, providing variable and step-less precursor isolation width selection from 0.4 Da to full mass range. • Accelerated Collisional cell for generating fragment spectra • It must be capable of real-time data acquisition and data processing, enabling a high spectrum repetition rate. • It must be able to finish Auto Tune and mass calibration within 2 min. • It must not need liquid cooling. • It requires no external gases except nitrogen for electron ionization operation.
	2	Mass Resolution		<ul style="list-style-type: none"> • Maximum resolution should be 60,000 (FWHM) at m/z 200 for all scan modes and both polarities. • Maximum resolution of 50,000 (FWHM) at m/z 272 for all scan modes and both polarities
	3	Scan speed of MS		The scan speed should be 40 scans per second (R=7,500 at m/z 200) in Full MS Scan mode.
	4	Mass Accuracy		<ul style="list-style-type: none"> • <3 ppm RMS with external calibration over 24 h • <1 ppm RMS with internal calibration over 24 h

5	Dynamic Range	dynamic range of greater than 5000:1 within one spectrum (single transient acquisition) • >10 ⁶ analytical dynamic range
6	Mass Range	Mass range of 30 - 3000 Da
7	Polarity Switching	Positive and negative chemical ionization during successive scans.
8	Ion Source	<ul style="list-style-type: none"> The mass spectrometer must include sources capable of electron ionization (EI), positive ion chemical ionization and negative ion chemical ionization. The user of the mass spectrometer must be able to remove all MS parts that require routine cleaning without venting manifold. The mass spectrometer must be able to change from a dedicated electron ionization source to a dedicated chemical ionization source within two minutes without venting manifold. The user must be able to isolate the vacuum in the source region from the transferline to enable the column to be changed without venting the instrument. The mass spectrometer must be compatible with a commercially available direct exposure probe (DEP) and direct insertion probe (DIP) that allows for the introduction of the sample directly into the ion source without first passing through a column.
9	Ion Optics and Mass Analyzer	The mass spectrometer must have a RF only quadrupole device with axial field for most robust operation and highest transmission The mass spectrometer must have a segmented Hyperbolic Quad mass filter, enabling it to select a variable and step-less precursor isolation width from 0.4 to 50 u .
10	Vacuum System	The mass spectrometer must have no more than one turbo molecular pump The mass spectrometer must have a differentially pumped vacuum system with pressures ranging from 5 to 5e-10 mbar in the mass analyzer The mass spectrometer must have a high-vacuum aluminum manifold
11	Detection System	Mass spectra must be detected by an image current detection system or Photo Multiplier device
12	GC user Interface	The touch screen of the GC provides all needed data, including all temperature and pressure/flow parameters, type of carrier gas, carrier gas column pressure, flow rates, split flow, detector gas flow rates and all detector parameters
13	SSL Injector (Qty-2)	<ul style="list-style-type: none"> The SSL injector should easily installable by user without any special tool. Maximum Temperature: 400 °C Split Ratio: up to 12500:1 Pressure Range: 0-1000 kPa (0-145 PSI) Total Flow Setting: Control of split flow in 1 mL/min from 0 to 1250 mL/min Purge flow from 0 to 50 mL/min Split ratio should be 1:7000 or better

		14	PTV inlet	<ul style="list-style-type: none"> Flexibility of a standard split/split less inlet, combined with temperature programmable capabilities also allow for large volume injection facility to support cool injections also. Split Ratio should be 1:6000 or better Temperature control: Air cooling (to ambient +10 °C with oven temperature < 50 °C)/forced cooling Temperature programming of up to 3 or more ramps at up to 850°C/min. Maximum temperature: 450 °C. Injection modes: Hot or cold split/split less- Pulsed split/split less - Solvent vent- Direct TD and liquid sampler injection using the same inlet without physical replacement Suitable for all kind of capillary Columns
		15	Autosampler	<p>The autosampler should be an XYZ-based autosampler and should be able to do liquid injections and should Headspace and SPME Arrow injections capabilities</p> <p>It should have more than 150 vials capacity for a 2 ml sample vial capacity and 60 vial or more capacity for headspace and SPME modes</p>
		16	EI full MS	<ul style="list-style-type: none"> 1 μL of 100 fg/μL octafluoronaphthalene (OFN) will produce a minimum signal-to-noise of 10,000:1 at a minimum resolution of 50,000 (FWHM) and a mass error of less than 1 part per million (ppm) while scanning from m/z 50 to m/z 300. The area precision of eight sequential injections of 1 μL, 10 fg/μL OFN will result in an instrument detection limit (IDL) of 6 fg or less (OFN) derived at the 99% confidence level.
		17	PCI of MS	<p>1 μL of 10 pg/μL benzophenone (BZP) will produce a minimum signal-to-noise of 150:1 while scanning from m/z 80 to m/z 230.</p>
		18	Thermal Desorption (TD)	<ul style="list-style-type: none"> 100 tube capacity for TD for analysis Rapid set-up of methods using pre-programmed parameters for: (a) standard methods including VDA 278, US EPA TO-17, US EPA 325 and PAH analysis; (b) conditioning methods for popular sorbent tubes and focusing traps. One or two integrated mass flow controllers (MFCs) for electronic control of split and/or desorb flows. TD tubes can be easily connected serially for longer time sampling if needed. Some tubes are to be blank. Lower temperature range for trap: -30°C to 50°C and also adjustable in 1°C increments. Temperature limits are user-settable within the stated range. Uniform electrical cooling applied over full 60 mm length of sorbent bed. It should be compatible with any GC-MS system of

			<p>international repute in software and hardware and have desorption.</p> <ul style="list-style-type: none"> • Primary (tube) desorption oven temperature range < 40°C to 400°C and adjustable in 1°C increments. • Desorption time range: 0 to 600.0 min and adjustable in 0.1 min increments. • Trap can be packed with between one and four sorbents. • Backflush desorption ensures quantitative retention and release of wide boiling range samples. • The interface line length should be minimum length to facilitate most efficient transfer of analyte and not to have cold spots in the line. • Stringent leak testing of all tubes before desorption/re- collection. • Pre-purge of air to vent and automated water management. • Backflush desorption of the focusing trap. • Robust tube sealing. • Quantitative sample re-collection for validation of recovery. • The TD quote should include single field collection pump and tube and also multiple (3 or above) tube station with pump. The type and number will be decided on PO. • The TD system quote should be complete with clean-up accessories for the tube after sampling for reuse. • All the necessary items for field campaigns i.e. sampling/Injection/ Internal / Extractor standards for TD (SVOCS and VOCs) should be quoted separately.
19	TD field Sampling		<ul style="list-style-type: none"> • Sampling stations around 20 TD tube capacity for field sampling. • It should have options for sequential and parallel sampling. • The TD tube should have short term and long term cap for necessary storage and transportation from the field to lab for analysis purpose without compromising the quality.
19	Some major Targeted compounds		<p>Major PAH Compounds:</p> <ul style="list-style-type: none"> • Acenaphthylene(C10H8) • Benzo(b) fluoranthene (C20H12) • Acenaphthene(C10H8) • Benzo(k) fluoranthene(C20H12) • Fluorene(C10H8) • Coronene (C24H12) • Naphthalene (C10H8) • Benzo(e) pyrene (C20H12) • Phenanthrene (C14H10) • Benzo(a) pyrene (C20H12) • Anthracene (C14H10) • Dibenzo(ah) anthracenes(C22H14) • Chrysene (C18H12) • Indeno(cd) pyrene (C22H12) • Benzo(a) anthracene (C18H12)

			<p>List of PCDDs</p> <ul style="list-style-type: none"> • 2,3,7,8 – TCDD • 1,2,3,7,8 – PCDD • 1,2,3,6,7,8 - HCDD • 1,2,3,7,8,9 - HCDD • 1,2,3,4,6,7,8 – HCDD • Octa – CDD <p>List of PCDFs</p> <ul style="list-style-type: none"> • 2,3,7,8 - TCDF • 1,2,3,7,8 – PCDF • 1,2,3,4,7,8 – HCDF • 1,2,3,6,7,8 – HCDF • 2,3,4,6,7,8 – HCDF • 1,2,3,4,6,7,8 – HCDF • Octa – CDF <p>List of PCBs</p> <ul style="list-style-type: none"> • PCB-BZ 77 3,3',4,4' - Tetrachlorobiphenyl • PCB-BZ 126 3,3',4,4',5- Pentachlorobiphenyl • PCB-BZ 169 3,3',4,4',5,5' - Hexachlorobiphenyl • PCB-BZ 105 2,3,3',4,4' - Pentachlorobiphenyl • PCB-BZ 118 2,3',4,4',5- Pentachlorobiphenyl • PCB-BZ 128 2,2',3,3',4,4' - Hexachlorobiphenyl • PCB-BZ 138 2,2',3,4,4',5- Hexachlorobiphenyl • PCB-BZ 156 2,3,3',4,4',5- Hexachlorobiphenyl • PCB-BZ 170 2,2',3,3',4,4',5- Heptachlorobiphenyl • PCB-BZ 18 2,2',5-Trichlorobiphenyl • PCB-BZ 44 2,2',3,5'-Tetrachlorobiphenyl • PCB-BZ 49 2,2',4,5'-Tetrachlorobiphenyl • PCB-BZ 52 2,2',5,5' -Tetrachlorobiphenyl • PCB-BZ 70 2,3',4',5-Tetrachlorobiphenyl • PCB-BZ 74 2,4,4',5-Tetrachlorobiphenyl • PCB-BZ 151 2,2',3,5,5',6- Hexachlorobiphenyl • PCB-BZ 177 2,2',3,3',4',5,6- Heptachlorobiphenyl • PCB-BZ 187 2,2',3,4',5,5',6- Heptachlorobiphenyl • PCB-BZ 207 2,2',3,3',4,4',5,6,6' - Nonachlorobiphenyl <p>Also VOC quantifications.</p>
20	Desktop and Printer along with software requirement		<ul style="list-style-type: none"> • Software Qualitative and quantitative analysis with fast evaluation completion of scan (full scan and library search). The mass spectrometer data system must have facility of retention time- locking module for analyzing target compounds in complex matrices. Original software CD / DVD. Should have multiple libraries including NIST. • There should be searchable environmental sample analysis method (readily available

			<p>cookbook type) with thrust air/particulate samples. The software should have facility for method saving facility and controls to cut down gas usage while the system is not in operation. It should have preferably pictorial illustrations of equipment functions/parts etc.</p> <ul style="list-style-type: none"> • The hardware provided should support large enough visualization for smooth multiple screen views and report generation in true color print media. • A single software compatible with both GC HR MS and TD system.
21	Require Power backup (UPS and batteries)		Require power back up system along with the whole instrument set up.
22	Lab set up and Accessories require for the sample preparation and standard calibration		<ul style="list-style-type: none"> • Inclusion of required lab set up (working table, vibration free tables, Fume hood and umbrella exhaust system for organic extraction processes, sample preparation and storage systems, Air Conditions, fume hood etc for the sample preparation technique) for GC HR MS, TD and extraction unit. • Include require gas purification panels for both GC HRMS, TD and Extraction unit tubing manifolds etc.
1	Benchtop Refrigerated Centrifuge		<p>Benchtop Refrigerated Centrifuge</p> <ul style="list-style-type: none"> • 15,000 rpm - Rotor: Swing-out and angle rotor with aerosol-tight lids. Temperature Range: -10C to +40C. • Digital programmable controls Safety features: imbalance detection, lid lock. • The Centrifuge should have 15 ml and 50 ml tube capacity. • Fixed-angle rotor RCF (Relative Centrifugal Force) of over 25,000 x g and swinging bucket rotor RCF of over 7,000 x g
2	Solvent Extraction unit		<ul style="list-style-type: none"> • Precise sample extraction unit for the high resolution MS analysis. • Maximum capacity for solvent extraction unit can be >10 in number. • It can be optimized to use the precise amount of solvent needed for the specified sample cell volume, making cell clean-up efficient and accurate. • It should have an user friendly interface
3.	Analytical Microbalance		<ul style="list-style-type: none"> • Analytical Microbalance Maximum Capacity: 410 g Readability: 0.1 mg Repeatability, typical: 0.06 mg Minimum Weight (U=1%, k=2), typical 12 mg <ul style="list-style-type: none"> • Settling Time: 2 s • Adjustment Internal / proFACT Advanced • Interfaces: Bluetooth (optional) • Ethernet (LAN) • RS232 (integrated/optional) • USB-A (to device) • USB-B (to device) • Display • 7" colour TFT touchscreen • User Management

			<ul style="list-style-type: none"> • Unlimited Amount of Users • User Rights • Legal for Trade • Yes • Minimum Weight (USP, 0.1%, typical) • 120 mg • Linearity \pm • 0.2 mg • Weighing Pan Dimensions (WxD) • 90 mm x 90 mm • Dimensions (HxWxD) • 368 mm x 214 mm x 411 mm • Terminal size • 7 inch • Compliance Options • Data Integrity • Log history (21 CFR Part 11 Compliant) • Log history (Basic Metadata) • Password protection is required for calibration standard preparation • Include set up for the weighing balance (Dehumidifier AC etc)
4	Other Accessory Instruments		<p>A. UV-VIS spectrophotometer (Dual channel)</p> <ul style="list-style-type: none"> • Optical System: Double beam with dual photodiode detectors • Wavelength Range: 190–1100 nm • Wavelength Accuracy: ± 0.3 nm • Wavelength Reproducibility: ± 0.1 nm • Bandwidth: ≤ 1 nm (fixed or variable) • Photometric Accuracy: ± 0.002 Abs at 1.0 Abs • Photometric Range: -4 to +4 Abs • Scan Speed: ≥ 3000 nm/min • Kinetics Mode: Time interval adjustable (≥ 1 s), 30–90 min range • Sample Compartment: Thermostatted cuvette holder (15–60°C) • Sample Volume: Compatible with 1.5 mL – 3 mL assays • Light Source: Deuterium and Tungsten-Halogen • Noise Level: < 0.0001 Abs at 500 nm • Stray Light: $< 0.05\%$ at 220 nm and 340 nm • Software: Windows-based system with DTT/AA kinetic module • Interface: USB, LAN, Printer support • Output Formats: Absorbance vs. time, CSV, PDF, and image formats • Accessories: 10 quartz cuvettes (1 cm path), micro-volume cell (optional), validation kit <p>B. Microwave Digestion System</p> <ul style="list-style-type: none"> • Vessels: PTFE/TFM, minimum 812 vessels • Temperature: Up to 300C; Pressure: 100 bar • Sensors: Contactless IR temperature + optical pressure control

			<ul style="list-style-type: none"> • Suitable for nitric acid, HF, and aqua regia digestion • Software: Multi-step programmable digestion sequences • Safety: Interlock, pressure release, exhaust scrubber • Include consumables for 5 years <p>C. Filtration Unit</p> <ul style="list-style-type: none"> • Setup: Vacuum-assisted or pressurized system • Compatibility: 0.45 m and 0.22 m PTFE, nylon filters • Holders for 25 mm and 47 mm filters • Built-in waste collection and backflush system • Include consumables for 5 years. <p>D. Ultrasonic Bath/Sonicator</p> <ul style="list-style-type: none"> • Frequency: 3545 kHz • Capacity: 3 liters • Timer: 199 minutes adjustable • Temperature Control: Ambient to 80C • Tank Material: Stainless steel • Accessories: Lid, drain valve, sample holders for air filters and leachates, Including desktops <p>E. Water purification System</p> <ul style="list-style-type: none"> • Parameter \leq 2 L/min distribution flow rate (from POD) \leq 2 L/min product water instant delivery rate 18.0 kg operating weight (39.7 lb) 300 L/day max. usage • Resistivity 18.2 MΩ-cm, 25°C (Product Water) • Storage Capacity 40 L. • Total organic carbon (TOC) residue \leq 5 ppb (Product Water) • Output product water quality: type 1 water (18.2 MΩ-cm) • Conductivity: 0.055 μS/cm at 25 °C (Ultrapure Water) • include consumables filters for next 5 years.
23	Other Consumables to be provided		<ul style="list-style-type: none"> • All consumables should be calculated as 400 – 600 samples per year for PAH, PCB VOCs. • Cannister for VOC's gaseous sampling (Capacity 20-25). • Glass goods require analysis and solvent extractor units. • Consumables in chemicals for the sample preparation using extraction unit and analysis. • Auto pipettes for standard and sample preparation (Variation volume) • Filter papers (Teflon, Quartz, Glass fibre in different diameters and make for sampling of 1000 samples per annum) • Sample analysis vials with septa (1ml),

		<table border="1"> <tr> <td></td><td></td><td>volumetric flasks (10ml, 100ml, 500 ml, 1L, 2 L) and sample extractor storing vials (10 ml) <ul style="list-style-type: none"> • High quality organic solvents (n hexane, methanol, Ethyl acetate, acetonitrile etc.) </td></tr> <tr> <td>25</td><td>Regarding Instrument Installation and commissioning of the instrument</td><td> <ul style="list-style-type: none"> • Instrument installation, commissioning followed by hardware and software training for both GC HRMS and TD. • Application training for the solvent extraction unit, TD tube field sampling followed by GC HR MS analysis should be responsibility of the vendor. </td></tr> <tr> <td>26</td><td>Installation and commission location</td><td>Pune IITM Campus.</td></tr> </table>			volumetric flasks (10ml, 100ml, 500 ml, 1L, 2 L) and sample extractor storing vials (10 ml) <ul style="list-style-type: none"> • High quality organic solvents (n hexane, methanol, Ethyl acetate, acetonitrile etc.) 	25	Regarding Instrument Installation and commissioning of the instrument	<ul style="list-style-type: none"> • Instrument installation, commissioning followed by hardware and software training for both GC HRMS and TD. • Application training for the solvent extraction unit, TD tube field sampling followed by GC HR MS analysis should be responsibility of the vendor. 	26	Installation and commission location	Pune IITM Campus.
		volumetric flasks (10ml, 100ml, 500 ml, 1L, 2 L) and sample extractor storing vials (10 ml) <ul style="list-style-type: none"> • High quality organic solvents (n hexane, methanol, Ethyl acetate, acetonitrile etc.) 									
25	Regarding Instrument Installation and commissioning of the instrument	<ul style="list-style-type: none"> • Instrument installation, commissioning followed by hardware and software training for both GC HRMS and TD. • Application training for the solvent extraction unit, TD tube field sampling followed by GC HR MS analysis should be responsibility of the vendor. 									
26	Installation and commission location	Pune IITM Campus.									
9.	Installation, Testing of equipment and calibration, details of training, etc.	2–3 week site training for both GC HR MS and TD. All SOPs are to be made for each type of analytes.									
10.	Warranty	1 year warranty + 1 Year Extended warranty									
11.	Post Warranty Services - Extended Warranty, Annual Maintenance Contract (AMC), Comprehensive Annual Maintenance Contract (CAMC), Operations Maintenance Contract (OMC) etc.	<ul style="list-style-type: none"> • OMC starting from the 3rd year up to 5th year. • The operator is required for the sample preparation and analysis for 1st to 5th year 									
12.	Specific requirement, if any	<p>Consumables for 5 years</p> <ul style="list-style-type: none"> • Vials (2ml capacity) /septas/caps for liquid autosampler- • Vials /septas/caps for headspace vials • Septas for injector ports • AS syringes – 10ul • Ferrules and nuts • Liners & seals for injector ports for SSL & PTV • Column nuts for SSL & PTV • Vacuum Pump oil • MS filaments • Cimper & decrimper for HS vials • Split Line & Carrier line filter • GC capillary column – 5% Phenyl Methyl Polysiloxane or equivalent, 30 mts, 0.25 mm id, 0.25 um film • Deactivated glass wool • Ceramic column cutter • Replacement triple trap for Carrier gas • Aluminium Oxide for cleaning • Calibration compound FC 43 									

	<p>Procurement of consumables up to 5 years for 1000 samples per annum (filter papers) in parts each year.</p> <p>Details of Calibration standards to be added for 5 years consumables</p> <p>i. Calibration Standard Kits And Samples with NIST certification*</p> <p>1) EPA 502/524 Volatile Organic Compounds (conc.2mg/mL) Mix 54 Components in Methanol 1 mL</p> <p>2) EPA 502/524 Volatile Organic Compounds (conc. 2mg/mL) Mix 12 Components in Methanol 1 mL</p> <p>3) EPA 502/524 Volatile Organic Compounds (conc.2mg/mL) Mix 13 Components in Methanol 1 mL</p> <p>4) EPA 503/1 Volatile Organic Compounds (conc. 2mg/mL) Mix 3 Components in Methanol 1 mL.</p> <p>5) PCB kit (conc. 0.2mg/mL) 7 each components in Methanol:kit</p> <p>6) EPA 550/550 1 Polycyclic Aromatic Hydrocarbon Mix 16 Components in Acetonitrile and Methanol 1 mL.</p> <p>7) Internal standard mix for SVOCs listed</p> <p>8) Internal standard mix for</p> <p>9) EPA 525 Semi- Volatile Organic Compounds (conc. 1mg/mL) Mix 25 Components in Acetone : 1mL</p> <p>10) EPA 525/525 1 PCB (conc.0.5 mg/mL) Mix 8 Components in Hexane : 1 mL</p> <p>11) EPA 604 Phenol Compounds Mix 11 Components in Methanol 1mL</p> <p>12) EPA 625 Semi- Volatile Organic Compounds (conc. 1mg/mL) Mix 55 Components 1 mL</p> <p>13) EPA Aromatic Hydrocarbon Mix 16 Components : 1mL</p> <p>14) EPA TO-1 Injurious Organic Matter Mix 1 A(2 mg/mL) 9 Components in Methanol 1 mL</p> <p>15) EPA TO-1 Injurious Organic Matter Mix 1 B(2 mg/mL)14 Components in Methanol 1 mL</p> <p>16) EPA TO11/standard mix for Formaldehyde, Acetaldehyde and Acetone in Acetonitrile 1 mL</p> <p>17) EPA 507 Standard Material for Performance Check 6 Components 1 mL</p> <p>18) EPA 507 Internal Standard (Triphenyl phosphate) 1mL</p> <p>19) EPA 8010 Halogenide Volatile Compounds (conc. 2 mg/mL) Mix 14 Components in Methanol 1 mL</p> <p>20) EPA 8010 Halogenide Volatile Compounds (conc. 2mg/mL) Mix 2 13 Components in Methanol 1 mL</p> <p>21) EPA 8010 Volatile Organic Compounds (conc.2 mg/mL) Mix 6 Components in Methanol 1 mL.</p> <p>22) 13C internal standards for PCDD and PCDF considering 100 samples; similarly for PCBs and PAH 300 samples may be considered.</p> <p>25)1,3 butadiene standard is in the gaseous form, This may be made available in a suitable canister alongwith suitable injector syringes (4 standard volumes)</p>
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		<p>26) Certified Analytical Standards: Supply of certified reference standards for analytical calibration i.e. VOCs (BTEX mix, Isobutylene, etc..), SVOC (EPA 8270 mix), 16PAHs, Levoglucosan, Methoxyphenols, Phthalates (DEHP, DBP, BBP, DMP, DEP, DINP, DNOP and DEPA), Styrene, Phthalic acid esters (PAEs), Brominated Flame Retardants (BFRs), Aldehydes, PCBs and Hopane's, along with all internal standards, surrogate recovery standards and CRMs (Certified Reference Materials).</p> <p>27) Calibration and installation of tuning standards shall be performed for all the above-mentioned analytical standards on instruments to ensure accurate and reliable operation.</p>
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Technical Specification for

Item No. 2:

Supply, Installation & Commissioning of High Resolution Gas Chromatograph Mass Spectrometer with Thermal Desorption unit (GC MS MS with TD) for online and offline analysis capabilities with Sampling station Qty. - 1 Set

1.	Name of the Instrument	High Resolution Gas Chromatograph Mass Spectrometer with Thermal Desorption unit (GC MS MS with TD) and sampling station								
2.	Quantity	01 nos.								
3.	Vertical(s) of Mission Mausam to which the instrument belongs	Mission Mausam / ARTs								
4.	Purpose of the instrument	The instrument will estimate organic components (PAHs, PCBs, VOCs etc) in particulate matter for source apportionment and SOA tracer analysis studies.								
6.	Brief details about instrument	Premium quantitative and qualitative performance with the fast-scanning features in the High resolution GC MS								
7.	Technical specifications including accessories	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">1</td> <td style="width: 40%;">General</td> <td> <ul style="list-style-type: none"> • A high-resolution system. • A high resolution Q-TOF / electrostatic orbital trap • GC-MS/MS system utilizing a Quadrupole Mass Filter consisting of a segmented mass filter, providing variable and step-less precursor isolation width selection from 0.4 Da to full mass range. • Accelerated Collisional cell for generating fragment spectra • Hybrid configuration delivering high resolution and accurate masses for modes of operation. • It must be capable of real-time data acquisition and data processing, enabling a high spectrum repetition rate. • It must be able to perform parallel filling and detection to increase duty cycle • It must be able to finish Auto Tune and mass calibration within 2 min. • It must not need liquid cooling. • No external gases, except nitrogen for electron ionization operation. </td> </tr> <tr> <td>2</td> <td>Mass Resolution</td> <td> <ul style="list-style-type: none"> • Maximum resolution should be 60,000 (FWHM) at m/z 200 for all scan modes and </td> </tr> </table>	1	General	<ul style="list-style-type: none"> • A high-resolution system. • A high resolution Q-TOF / electrostatic orbital trap • GC-MS/MS system utilizing a Quadrupole Mass Filter consisting of a segmented mass filter, providing variable and step-less precursor isolation width selection from 0.4 Da to full mass range. • Accelerated Collisional cell for generating fragment spectra • Hybrid configuration delivering high resolution and accurate masses for modes of operation. • It must be capable of real-time data acquisition and data processing, enabling a high spectrum repetition rate. • It must be able to perform parallel filling and detection to increase duty cycle • It must be able to finish Auto Tune and mass calibration within 2 min. • It must not need liquid cooling. • No external gases, except nitrogen for electron ionization operation. 	2	Mass Resolution	<ul style="list-style-type: none"> • Maximum resolution should be 60,000 (FWHM) at m/z 200 for all scan modes and 		
1	General	<ul style="list-style-type: none"> • A high-resolution system. • A high resolution Q-TOF / electrostatic orbital trap • GC-MS/MS system utilizing a Quadrupole Mass Filter consisting of a segmented mass filter, providing variable and step-less precursor isolation width selection from 0.4 Da to full mass range. • Accelerated Collisional cell for generating fragment spectra • Hybrid configuration delivering high resolution and accurate masses for modes of operation. • It must be capable of real-time data acquisition and data processing, enabling a high spectrum repetition rate. • It must be able to perform parallel filling and detection to increase duty cycle • It must be able to finish Auto Tune and mass calibration within 2 min. • It must not need liquid cooling. • No external gases, except nitrogen for electron ionization operation. 								
2	Mass Resolution	<ul style="list-style-type: none"> • Maximum resolution should be 60,000 (FWHM) at m/z 200 for all scan modes and 								

		<p>both polarities.</p> <ul style="list-style-type: none"> • Maximum resolution of 50,000 (FWHM) at m/z 272 for all scan modes and both polarities
3	Scan speed of MS	<p>The scan speed should be 40 scans per second (R=7,500 at m/z 200) in Full MS Scan mode.</p>
4	Mass Accuracy	<ul style="list-style-type: none"> • <3 ppm RMS with external calibration over 24 h without any kind of mass recalibration • <1 ppm RMS with internal calibration over 24 h
6	Mass Range	Mass range of 30 - 2000 Da or better
7	Polarity Switching	Positive and negative chemical ionization during successive scans.
8	Scan Functions	<ul style="list-style-type: none"> • The mass spectrometer must be capable of Full MS, Selected Ion Monitoring (SIM) and MS/MS experiments • It must be capable of Timed SIM and Timed MS/MS experiments, where SIM or MS/MS events with different time windows are allowed to overlap in time. • Must acquire and display multiplexed SIM mass spectra of at least 20 simultaneously detected precursor ions or better. • Must be capable of data-dependent MS/MS experiments, where MS/MS events are scheduled on-the-fly during the acquisition by the instrument firmware based on full scan or SIM data being acquired.
9	Ion Source	<ul style="list-style-type: none"> • The mass spectrometer must include sources capable of electron ionization (EI), positive ion chemical ionization and negative ion chemical ionization. • The user of the mass spectrometer must be able to remove all MS parts that require routine cleaning without venting manifold. • The mass spectrometer must be able to change from a dedicated electron ionization source to a dedicated chemical ionization source within two minutes without venting manifold. • The user must be able to isolate the vacuum in the source region from the transfer line to enable the column to be changed without venting the instrument. • The mass spectrometer must be compatible with a commercially available direct exposure probe (DEP) and direct insertion probe (DIP) that allows for the introduction of the sample directly into the ion source without first passing through a column.
10	Ion Optics and Mass Analyzer	<ul style="list-style-type: none"> • It must have a segmented Hyperbolic Quad mass filter, enabling it to select a variable and step-less precursor isolation width from 0.4 to 50 u. • The mass spectrometer must have an electrostatic orbital trap or a TOF as its mass analyzing device

11	Vacuum System	<p>The mass spectrometer must have no more than one turbo molecular pump.</p> <p>The mass spectrometer must have a differentially pumped vacuum system with pressures ranging from 5 to 5e-10 mbar in the mass analyzer</p> <p>The mass spectrometer must have a high-vacuum aluminum manifold</p>
12	Detection System	<p>Mass spectra must be detected by an image current detection system or Photo Multiplier device</p>
13	GC user Interface	<p>The touch screen of the GC must provide easy accessibility and all needed data, including all temperature and pressure/flow parameters, type of carrier gas, carrier gas column pressure, flow rates, split flow, detector gas flow rates and all detector parameters</p>
14	GC Oven	<ul style="list-style-type: none"> The column oven should have an operating range of -99°C to 450°C using the optional sub ambient oven accessory (with liquid nitrogen or liquid CO₂ as coolant). Heat-up time from 50°C to 450°C within 4 minutes (230 VAC version) Cool-down time from 450°C to 50°C in less than 4 minutes The heating rate should be 120 deg.c/min or better with more than 26 ramps and plateaus. The oven temperature stability is within 0.01 °C/ every °C of actual temperature The oven mainframe must include all the necessary electrical and gas connections for injectors and detectors without the use of tubing and wires to obstruct the oven top.
15	SSL Injector (Qty-2)	<ul style="list-style-type: none"> The SSL injector should easily installable by user without any special tool. Maximum Temperature: 400 °C Split Ratio: up to 12500:1 Pressure Range: 0-1000 kPa (0-145 PSI) Total Flow Setting: Control of split flow in 1 mL/min from 0 to 1250 mL/min Purge flow from 0 to 50 mL/min
16	PTV inlet	<ul style="list-style-type: none"> Flexibility of a standard split/split less inlet, combined with temperature programmable capabilities also allow for large volume injection facility to support cool injections also. Split Ratio should be 1:6000 or better Temperature control: Air cooling (to ambient +10 °C with oven temperature < 50 °C)/forced cooling Maximum temperature: 450 °C. Injection modes: Hot or cold split/split less- Pulsed split/split less - Solvent vent- Direct TD and liquid sampler injection using the same inlet without physical replacement Suitable for all kind of capillary Columns
17	liquid Autosampler	<p>The autosampler should be an XYZ-based autosampler and should be able to do liquid injections and should headspace and SPME Arrow injections capabilities</p> <p>It should have more than 100 vials capacity for</p>

		a 2 ml sample vial capacity.
19	PCI of MS	<p>1 μL of 10 pg/μL benzophenone (BZP) will produce a minimum signal-to-noise of 150:1 while scanning from m/z 80 to m/z 230.</p>
20	Thermal Desorption (TD) Online & Offline monitoring of VOCs	<ul style="list-style-type: none"> System should multi-channel module that connects to the TD unit and which allows analysis of whole-air and gas samples collected using canisters and Tedlar bags, as well as continuous monitoring of air or gas streams. The system should be a dedicated system for analysis of trace-level components. Sample volumes: 5 mL upwards. Sample channels: minimum 4. Should be upgradeable to 17 channels with an accessory <ul style="list-style-type: none"> The system should comply with the US EPA Method TO-15 for canister-based analysis of air. The system should have Cryogen-free operation and low gas consumption for robust operation and high uptime. The system should have Internal standard addition capability, allowing either a precise aliquot (via a 1 mL loop) or a metered volume (5–500 mL) of gaseous standard to be added to the focusing trap before sampling. The system should have electronic mass flow control for sample and split flows. The system should have heated, inert internal sample flow paths to eliminate the risk of condensation and carryover. It should be Compatible with gas-phase samples ranging in pressure from below atmospheric to 50 psig. It should also have a Tube desorption capability in compliance with US EPA Method TO-17 and other standard methods. It should have water management option using an empty trap to remove water from humid air streams prior to analyte focusing, allowing simultaneous analysis of ultra-volatiles, polar species, oxygenates and pinenes. 100 tube capacity for TD auto sampler for analysis If the sample is at low (<10 psi) pressure, a pump should be supplied to draw the gas-phase sample through the system. It should allow Automated, unattended sequencing of tube, on-line and canister/bag samples
21	TD field Sampling	<ul style="list-style-type: none"> Sampling stations around 30 TD tube capacity for field sampling. It should have options for sequential and parallel sampling. The TD tube should have short term and long term cap for necessary storage and transportation from the field to lab for analysis purpose without compromising the quality.

	22	Some major Targeted compounds	<p>List of VOCs (alkane, alkene, aromatics)</p> <ul style="list-style-type: none"> • 2,2,4 Trimethylpentane • 2,3,4 Trimethylpentane • 3-Methylhexane • Cyclohexane • n-Butane • n-Decane • n-Dodecane • n-Hexane • n-Octane • Cyclopentane • 1-Butene • 1-Pentene • Ethylene • Isoprene • Propylene • c-2-Hexene • t-2-Butene • 1,3,6-Trimethylbenzene • 1,2,3-Trimethylbenzene • Benzene • m-Diethylbenzene • n-Propylbenzene • o-Ethyltoluene • p-Diethylbenzene • p-Ethyltoluene • Styrene • Toluene <p>Some SOA tracer compounds:</p> <ul style="list-style-type: none"> • Phenol • Cresol • m Cresol • p Cresol • 4 Ethylphenol • 4 Methoxyphenol (Mequinol) • Vanillin • Syringol (2,6 Dimethoxyphenol) • Indole • 3 Methylindole • Quinoline • Isoquinoline • Methylpyridine isomers • Guaiacol • Catechol • Pinonic acid • pinonal <p>Major PAH Compounds:</p> <ul style="list-style-type: none"> • Acenaphthylene(C10H8) • Benzo(b) fluoranthene (C20H12) • Acenaphthene(C10H8) • Benzo(k) fluoranthene(C20H12) • Fluorene(C10H8) • Coronene (C24H12) • Naphthalene (C10H8) • Benzo(e) pyrene (C20H12) • Phenanthrene (C14H10) • Benzo(a) pyrene (C20H12) • Anthracene (C14H10) • Dibenzo(ah) anthracenes(C22H14) • Chrysene (C18H12) • Indeno(cd) pyrene (C22H12) • Benzo(a) anthracene (C18H12)
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23	Desktop along with software requirement	<ul style="list-style-type: none"> Software Qualitative and quantitative analysis with fast evaluation completion of scan (full scan and library search). The mass spectrometer data system must have facility of retention time- locking module for analyzing target compounds in complex matrices. Original software CD / DVD. Should have multiple libraries including NIST and there should be provision to add other important libraries available globally. There should be searchable environmental sample analysis method (readily available cook book type) with thrust air/particulate samples. The software should have facility for method saving facility and controls to cut down gas usage while the system is not in operation. It should have preferably pictorial illustrations of equipment functions/parts etc. The hardware provided should support large enough visualization for smooth multiple screen views. A single software compatible with both GC HR MS and TD system.
25	Other Consumables to be provided	<ul style="list-style-type: none"> Vials (2ml capacity) /septas/caps for liquid autosampler- 300 nos Vials /septas/caps for headspace vials-200 nos Septas for injector ports- 100 AS syringes – 10ul – qty-5 Ferrules-20 Liners & seals for injector ports- 10 each for SSL & PTV Column nuts- 5 each for SSL & PTV Vacuum Pump oil- 5 litre MS filaments- 4 filaments Cimper & derimper for HS vials- one each Split Line & Carrier line filter- 1 each GC capillary column – 5% Phenyl Methyl Polysiloxane or equivalent, 30 mts, 0.25 mm id, 0.25 um film- qty-2 Deactivated glass wool-qty-10 gms Ceramic column cutter- qty -2 Replacement triple trap for Carrier gas Aluminium Oxide for cleaning Calibration compound FC 43
26	Regarding Instrument Installation and commissioning of the instrument	<ul style="list-style-type: none"> Instrument installation, commissioning followed by hardware and software training for both GC HRMS, field sampling and online/ offline mode of operation for TD system.
27	Installation and commission location	HACPL. Mahabaleshwar
28	Warranty and post-warranty service	1-year standard warranty with 1 year extended warranty (Extended warranty is Optional) and 3 years of OMC after the standard warranty. Operator should be placed at the time of installations.

Operation Maintenance Contract (OMC) SLA Terms and Penalty thereof.

1. 03 years OMC after completion of Warranty for Twelve (12) months + 12 months extended warranty, Operator is required from the first year itself.
2. Preventive maintenance, calibration checks and software upgrades.
3. **Security Deposit:** The firm/contractor, within a period of 14 days, shall furnish a Bank Guarantee 5% of the yearly contract value, valid up to the period of the contract plus 60 days towards security for smooth performance of the services.
4. Details for the Operator:
 - The operator appointed by OEM must be responsible for both the sample extraction process followed by analysis using the instrument.
 - Method development for the targeted compounds as required by IITM, instrument, and setup of laboratory needed, regular calibration of GCHRMS, and data acquisition would be the responsibility of the appointed operator.
 - Basic maintenance of the instrument and related laboratory works involved the analysis will also need to be carried out by the operator.
5. Period of OMC will be started after expiry of Warranty for Twelve (12) months + 12 months extended warranty and the same will be informed by IITM to the supplier in writing. IITM reserves the right for awarding of OMC after assessing of the services & its performance provided during the warranty period. The work of OMC may be carried out only after receiving of confirmation letter from this Institute towards start of OMC, non-compliance of which this Institute will not be liable / responsible for making any payment and to settle the obligation, if any arisen as a result of unauthorized operation. However, Institute reserves the rights to terminate the OMC, if found services are not satisfactory. Institute can terminate the OMC if not satisfactory.
6. During the term of the OMC contract, the VENDOR will maintain the equipment in perfect working order and condition.
 - a) The Bidder shall rectify any defects, faults and failures in the equipment and shall repair/replace worn out or defective parts of the equipment on all days. In case any defects, faults and failures in the equipment could not be repaired or rectified during the said period, the engineers of the VENDOR are required to accomplish their duties beyond the said schedules in case of any situation if it warrants. In cases where unserviceable parts of the equipment need replacement, the VENDOR shall replace such parts, at no extra cost to the Institute, with brand new parts or those equivalents to new parts in performance. For this purpose the VENDOR shall keep sufficient stock of spares at Institute's premises and at the premises of The VENDOR.
 - b) The maximum response time for a maintenance complaint from the site of installation (i.e. time required for Vendor's maintenance engineers to report to the installations after a request call / fax / emails made or letter is written) shall not exceed 48 hours.
 - c) The VENDOR shall ensure that faults and failures intimated by Institute as above are set right within 05 working days of being informed of the same.
 - d) The VENDOR shall ensure that the full configuration of the equipment is available to the INSTITUTE in proper working condition viz. uptime of 95% of the days on yearly basis.
 - e) For purpose of calculating penalty, uptime is calculated as under:

$$\text{Uptime (\%)} = \frac{\text{Sum of total days during quarter (3 months)} - \text{Sum of downtime days during quarter (3 months)}}{100}$$

$$\text{Sum of total days during the quarter (3 months)}$$

f) Penalties for SLA uptime shall be as under;

Sr. no.	Uptime Range	Penalty
1.	95-90%	10% of OMC value for the quarter
2.	90-85%	15% of OMC value for the quarter
3.	Below 85%-80%	20% of OMC value for the quarter
4.	In case if it falls below 80%	Institute may invoke / forfeit PBG

g) The VENDOR shall ensure that the meantime between failures (including any malfunctioning, breakdown or fault) in the equipment or any part thereof, as calculated during any and every quarter (period of three consecutive months) is not less than 30 days.

h) **Preventive maintenance:** the VENDOR shall conduct Preventive Maintenance (including but not limited to inspection, testing, satisfactory execution of all diagnostics, cleaning and removal of dust and dirt from the interior and exterior of the equipment, and necessary repair of the equipment) once within quarter (3 months) of the installation and during the currency of this agreement on a day and time to be mutually agreed upon. Notwithstanding the foregoing the VENDOR recognizes Institute's operational needs and agrees that Institute shall have the right to require the VENDOR to adjourn preventive maintenance from any scheduled time to a date and time as required.

Preventive Maintenance should include

- a) Cleaning, alignment, and leak checks of GC & HRMS and TD unit.
- b) Replacement of worn-out consumables (columns, seals, filters, filaments, etc.).
- c) Verification and calibration of system performance.
- d) Updating software/firmware to the latest approved versions.
- e) Submission of the preventive maintenance checklist signed by both parties.

All associated instruments (TD, ASE and Sampling station) and power backup system (UPS's) are also included in the preventive maintenance contract.

i) All engineering changes generally adopted hereafter by the VENDOR for equipment similar to that covered by this AGREEMENT, shall be made to the equipment at no cost to the Institute.

j) Qualified maintenance engineers totally familiar with the equipment shall perform all repairs and maintenance service described herein.

k) The Institute shall maintain a register at its site in which, the Institute's operator / supervisor shall record each event of failure and / of malfunction of the equipment. The VENDOR's engineer shall enter the details of the action taken in such register. Additionally every time a preventive or corrective maintenance is carried out, the VENDOR'S engineer shall make, effect in duplicate, a field call report which shall be signed by him and thereafter countersigned by the Institute's official. The original of the field call report shall be handed over to the Institute's official.

l) The VENDOR shall provide replacement equipment if any equipment is out of the premises for repairs.

10. The VENDOR's maintenance personnel shall, be given access to the equipment when necessary, for purpose of performing the repair and maintenance services indicated in this agreement.

11. NO term or provision hereof shall be deemed waived and no breach excused, unless such waiver or consent shall be in writing and signed by the party claimed to have waived or consented. Any consent by any party to or waiver of a breach by other, whether express or implied, shall not constitute a consent to or waiver of or excuse for another different or subsequent breach.

12. On account of any negligence, commission or omission by the engineers of the VENDOR and if any loss or damage caused to the Equipment, the VENDOR shall indemnify/pay/reimburse the loss suffered by the INSTITUTE.

13. In the event of failure of the Service Provider to render the Services or in the event of termination of agreement or expiry of term or otherwise, without prejudice to any other right, the Institute at its sole discretion

may make alternate arrangement for getting the Services contracted with another vendor. In such case, the Institute shall give prior notice to the existing Service Provider. The existing Service Provider shall continue to provide services as per the terms of contract until a 'New Service Provider' completely takes over the work. During the transition phase, the existing Service Provider shall render all reasonable assistance to the new Service Provider within such period prescribed by the Institute, at no extra cost to the Institute, for ensuring smooth switch over and continuity of services. If existing vendor is breach of this obligation, they shall be liable for paying a penalty of as provided on demand to the Institute, which may be settled from the payment of invoices or Performance Institute Guarantee for the contracted period.

14. Director, IITM reserves the right to cancel the contract part or full thereof without assigning any reason.

15. Institute reserve right to cancel this contract if above conditions are not strictly adhered by the contractor.

- Sd -

Administrative Officer (PURCHASE SECTION)

IITM, PUNE - 411 008

E-mail : pws@tropmet.res.in