

TenderNo.IISER/PUR/0295/AP/FAA/SEESS /25-26

तारीख/ Date 26.06.2025

**Index for Invitation for Tender (IFT) (E-Procurement mode only)**  
**(Global Tender Enquiry)**

1. The Institute invites Two Cover Tenders from Class I, II and III suppliers, as per DPIIT order No. P-45021/2/2017-PP (BE-II) dated 04 Jun 2020 and MoF, Department of Expenditure order No.F .4/1/2023-PPD(pt.)dated 28.06.2024 for the following items through the eProcurement System of National Informatics Centre, which enables the Tenderers to download the Tender Schedule free of cost and then submit the bids online through Central Public Procurement Portal of Government of India (<https://eprocure.gov.in/eprocure/app>.)

क्रम सं./ Sl. No	विवरण/ Description	Qty
1.	Supply, Installation, and commissioning of Inductively Coupled Plasma Mass Spectrometer (ICP-MS) with Microwave Digestion System (refer Annexure 11 Technical Specifications)	1

2. Annexures enclosed: Bidders should follow the annexures before submission of bids:-

1.	Annexure 1	Instructions to Bidder for Online Bid Submission
2.	Annexure 2	Special conditions of tender
3.	Annexure 3	General Terms and conditions of Contract
4.	Annexure 4	Integrity Pact
5.	Annexure 5	Model bank guarantee format for EMD
6.	Annexure 6	Model bank guarantee format for performance security
7.	Annexure 7	Format for Tender Acceptance Letter
8.	Annexure 8	Format for Declaration of Local Content
9.	Annexure 9	Format for declaration regarding non-blacklisting
10.	Annexure 10	Format for declaration regarding land border
11.	Annexure 11	Detailed Technical Specifications
12.	Annexure 12	Check list of documents required to be uploaded in CPPP



*Aman Sadath*  
27/6/25

3. All the correspondence in this regard should be done in favour of Deputy Registrar (Purchase & Stores), IISER Thiruvananthapuram referring the tender reference number. Email Id – [purchasestores@iisertvm.ac.in](mailto:purchasestores@iisertvm.ac.in)

4. Please quote as per GFR 2017 and its amendment and with your lowest rate and shortest delivery period and as per Govt of India, Ministry of Commerce and Industry, DPIIT order No. P-45021/2/2017-PP (BE-II) dated 04 Jun 2020. Format for self-certification is given in **Annexure 10** of the tender document. Any non-compliance in this regard, the bid will not be considered in the category.

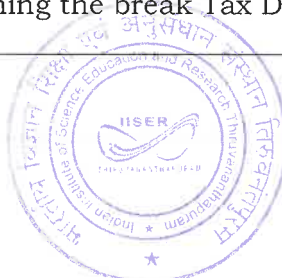
5. Online Bid Submission: The documents to be uploaded in the e-procurement module, should be in two envelopes / covers.

6. Failure to upload the annexures 7,8,9,10,11,12 in the enclosed format will lead to rejection of bids.

7. **ईएमडी/EMD: Rs. 2,80,000/- (Rupees Two Lakh Eighty Thousand only)** स्टेट बैंक संग्रह द्वारा भुगतान करना चाहिए - निविदा संख्या और कंपनी का नाम उल्लेख किया जाना चाहिए। उद्धरण के साथ लेनदेन पर्ची / प्रिंट आउट या ईएमडी मूल्य के बराबर 90 दिनों की वैधता में बैंक गारंटी या बोलीदाता के उपक्रम जमा करना चाहिए।/ should be paid through State Bank Collect- Tender No & Company Name must be mentioned in the Remarks column. (<https://www.onlinesbi.com/sbicollect/icollecthome.htm> (State Bank Collect- Accept-Term and Conditions- Proceed-Select State **Kerala**-Select Type of Institution-**Educational Institution**- Select - **IISER Thiruvananthapuram**- Select Payment Category- **Stores and Purchase** ) Quotes should accompany a copy of Transaction slip /Print out **OR** Bank guarantee equivalent **OR** Insurance Surety Bond to the EMD value with validity 90 days (The hard copy of the EMD (if any)should reach before the last date and time for uploading of bids). EMD EXEMPTION: The bidder seeking EMD exemption, must submit the valid supporting document with the bid. Under MSE category, only manufacturers for goods and Service Providers for Services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy.

8. Details of covers to be uploaded in CPPP:-

<b>1<sup>st</sup> Envelope / Cover (Technical Bid)</b>		
<b>Sl No</b>	<b>Contents</b>	<b>Format</b>
1.	Compliance sheet as per specifications	PDF
2.	Detailed brochures, data sheets, catalogues etc. supporting the compliance of specifications	PDF
3.	Clientele list and details of TWO major installations in India	PDF
4.	Any other document as mentioned in the specifications or essential as per bidder	PDF
5.	All commercial terms and conditions of the bid (except price)	PDF
6.	Tender Acceptance letter, EMD and declarations as per checklist	PDF
<b>2<sup>nd</sup> Envelope / Cover (Price Bid)</b>		
1.	Price bid item-wise prices for the items mentioned in the Technical Bid clearly mentioning the break Tax Duty other charges etc.	Excel (.xls)



*Amritha*  
21/6/15

8. Please note being an Institute under Ministry of Education, Govt of India, the Institute will not entertain any type of advance payment for the equipment, AMC or any other services.

9. Detailed Specifications: Please refer Annexure 11

10. Integrity pact (IP) is deemed as a part of the contract and the parties concerned are bound by its provisions. IP would be implemented through a panel of Independent External Monitors (IEMs): The details of IEMs are given below.

1. Commodore Rakesh Anand (Retd), Email: [ansem\\_2000@yahoo.com](mailto:ansem_2000@yahoo.com)
2. Shri. E.K. Bharat Bhushan, IAS (Retd.), Email: [bbhushan55@gmail.com](mailto:bbhushan55@gmail.com)

Any violation of IP would be entail disqualification of the bidders and exclusion from future business dealings, as per the existing provision of GFR 2017 etc. as may be applicable to IISERTVM.

*Aman Sadath*  
27/6/25

**Assistant Registrar (Purchase & Stores)**



**Invitation for Tender (E-Procurement mode only)**

1	Work / Item Description	Supply, Installation, and commissioning of Inductively Coupled Plasma Mass Spectrometer (ICP-MS) with Microwave Digestion System (refer Annexure 11 Technical Specifications)
2	Quantity Required	As per the Annexure 11
3	Tender Type	Open
4	Tender Reference No	IISER/PUR/0295/AP/FAA/SEESS /25-26
5	Number of covers (1/2/3/4)	2 ((Technical and Financial))
6	Date of Issue/Publishing	26.06.2025
7	Document Download/Sale Start Date	26.06.2025
8	Document Download/Sale End Date	23.07.2025 (1500 Hrs)
9	Clarification End Date	12.07.2025
10	Last Date and Time for Uploading of Bids	23.07.2025 (1500 Hrs)
11	Date and Time of Opening of Technical Bids	24.07.2025 (15.30 Hrs)
12	Date of Opening of Price Bid	will be intimated later
13	Tender Fee (INR)	Nil
14	EMD Amount (INR)	Rs.2,80,000/- (Rupees Two Lakh Eighty Thousand only)
15	Detailed Specifications	As per annexure 11

1. Please note being an Institute under Ministry of Education, Govt of India, the Institute will not entertain any type of advance payment for the equipment, AMC or any other services.

*Amar Sadath*  
27/6/25

**Assistant Registrar (Purchase & Stores)**



**ANNEXUE: 1**  
**Instructions for Online Bid Submission**

- 1) The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.
- 2) More information useful for submitting online bids on the CPP Portal may be obtained at: <https://eprocure.gov.in/eprocure/app>.

3)

**4) REGISTRATION**

- 5) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <https://eprocure.gov.in/eprocure/app>) by clicking on the link "Online bidder Enrollment" on the CPP Portal which is free of charge.
- 6) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- 7) 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 from the CPP Portal.
- 8) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / nCode / eMudhra etc.), with their profile.
- 9) 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.
- 10) 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.

**SEARCHING FOR TENDER DOCUMENTS**

- 1) There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
- 2) Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS / email in case there is any corrigendum issued to the tender document.
- 3) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

**PREPARATION OF BIDS**

- 1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- 2) 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.
- 3) 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 / XLS / RAR / DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- 4) 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 Space" or "Other Important Documents" area available to them to upload such documents. These documents may be directly submitted from the "My Space" 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.

Note: My Documents space is only a repository given to the Bidders to ease the uploading process. If Bidder has uploaded his Documents in My Documents space, this does not automatically ensure these Documents being part of Technical Bid.



## SUBMISSION OF BIDS

- 1) Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- 2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- 3) Bidder has to select the payment option as “offline” to pay the tender fee / EMD as applicable and enter details of the instrument.
- 4) Bidder should prepare the EMD as per the instructions specified in the tender document. The original 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.
- 5) 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.
- 6) 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.
- 7) 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. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. 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’s public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 8) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 9) Upon the successful and timely submission of bids (i.e. after Clicking “Freeze Bid Submission” in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
- 10) The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

## ASSISTANCE TO BIDDERS

- 1) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
- 2) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk.

The document ‘Instructions To Bidder for Online Bid Submission’ is downloadable from :  
<https://eprocure.gov.in/eprocure/app?page=StandardBiddingDocuments&service=page>



**ANNEXURE- 2 :**  
**SPECIAL CONDITIONS OF CONTRACT**

**1.1. ELIGIBLE BIDDERS.**

1.1.1 This Invitation for Bids is open to all suppliers.

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.

**1.2. COST OF BIDDING**

1.2.1 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.

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;  
The Bidding Documents

**1.4. COST OF BIDDING DOCUMENTS**

1.4.1 Interested eligible bidders may download the document from our Website. However the bid document cost to be paid during the submission of the bid.

**1.5. CONTENT OF BIDDING DOCUMENTS**

1.5.1 The goods required, bidding procedures and contract terms are prescribed in the bidding documents which should be read in conjunction.

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 A prospective Bidder requiring any clarification of the Bidding Documents shall contact the Purchaser in writing via fax/email. 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 deadline for submission of bids. The Purchaser shall forward copies of its response to all those who have acquired the Bidding Documents directly from it, 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 relating to amendment of Bidding documents and Clause relating to Deadline 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.

**1.7. AMENDMENT OF BIDDING DOCUMENTS**

1.7.1 At any time prior to the deadline 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 received the bidding documents will be notified of the amendment in writing or by e-mail and will be binding on them. The same would also be hosted on the website of the purchaser and all prospective bidders are expected to surf the website before 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 in preparing their bids, the Purchaser, at its discretion, may extend the deadline for the submission of bids and host the changes on the website of the purchaser.

1.7.4 In case of any amendment to the bid, it will be done at least 7 days before due date and will be published in website. Bidders are required to keep this in view before submission. Normally extension of due date will not be entertained. However in special cases if due date is extended, it will be notified under the same tender notice before 3 days of due date.

**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 of GOI makes it mandatory under Rajbhasha Abhniyam in that case views of Rajbhasha unit of IISER-TVM may be sought.

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

**1.9. DOCUMENTS COMPRISING THE BID**

1.9.1 The bid prepared by the Bidder shall include:

- a) Bidder Information
- b) Bid security as specified in the Invitation to Bids.
- c) Service support details
- d) Deviation Statement if any

- e) Performance Statement.
- f) Manufacturer's Authorization.
- g) Documentary evidence establishing that the bidder is eligible to bid and is qualified to perform the contract if its bid is accepted.
- h) Bid form.
- i) Documents establishing goods eligibility and conformity to bidding documents.
- j) Applicable Price Schedule Form.
- k) DGS&D Registration certificate in case the items under procurement falls under the restricted category of the current export-import policy of the Govt. of India.

**1.10. BID FORM AND PRICE SCHEDULE**

1.10.1 The bidder shall complete the Bid with the appropriate price schedule.

**1.11. BID PRICES**

1.11.1 The Bidder shall indicate on the appropriate price schedule, the unit prices and total bid prices of the goods it proposes to supply 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) VAT and other taxes like excise duty etc [shall be shown extra] which will be payable on the goods if the contract is awarded.

a. 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.

b. The installation, commissioning and training charges including any incidental services, if any.

**(B) FOR GOODS MANUFACTURED ABROAD (if not specified in Annexure 9)**

**Bidders are required to show break-up of Ex-works [which should include packing and handling charges], FOB/FCA and CIF/CIP price in the quotation. IISERTVM has a mechanism for consolidation and customs clearance. The consolidators will be nominated for this purpose at the time of awarding the contract if desires so.**

(i) The price of the goods, quoted on FCA (named place of delivery abroad) or FOB (named port of shipment), as specified in the price schedule.

(ii) The charges for insurance and transportation of the goods to the port/place of destination.

**(iii) The agency commission charges should be shown, 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 **Taxes & Duties: At actuals. The purchases made by the purchaser for scientific purpose are exempt from Custom Duty under notification 51/96.**

**1.12. BID CURRENCIES**

1.12.1 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 that doesn't manufacture the goods it offers to supply shall submit to Manufacturers' Authorization Form (MAF) 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 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 Priced 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**
- 1.15.1 The Bidder shall furnish, as part of its bid, a bid security (BS) for an amount as specified in the Invitation for Bids. In the case of foreign bidders, the BS shall be submitted either by the principal or by the Indian agent and in the case of indigenous bidders; the BS shall be submitted by the manufacturer or their specifically authorized dealer/bidder.
- 1.15.2 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 issued by a Nationalized/Scheduled bank/Foreign Bank operating in India in the form provided in the bidding documents and valid for +5 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 Nationalized/Scheduled Indian bank; or
- (b) Fixed Deposit receipt pledged in favour of the IISER-TVM.
- (c) A Banker's cheque or demand draft in favour of IISERTVM issued by any Nationalised/Scheduled Indian bank.
- 1.15.3 The bid security shall be payable promptly upon written demand by the purchaser in case the conditions listed in the ITB clause 15.11 are invoked.
- 1.15.4 The bid security should be submitted in its original form. Copies shall not be accepted.
- 1.15.5 While Bid security (EMD) is a requirement, the Director IISER-TVM may grant exemption of Bid security to some specific parties having sound credentials and are of national/international repute.
- 1.15.6 The bid security of unsuccessful bidder will be discharged /returned as promptly as possible positively within a period of 15 days after the expiration of the period of bid validity or placement of order whichever is later, without any interest.
- 1.15.7 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 PS, if it is paid through DD/BC.
- 1.15.8 **The firms registered with DGS&D, NSIC if any, are exempted from payment of bid security (BS) provided such registration includes the item they are offering which are manufactured by them and not for selling products manufactured by other companies.**
- 1.15.9 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.
- 1.15.10 The bid security may be forfeited:
- (a) If a Bidder withdraws or amends 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 a successful Bidder, if the Bidder fails to furnish order acceptance within 15 days of the order or fails to sign the contract and/or fails to furnish Performance Security within 21 days from the date of contract/ order.**
- 1.16. PERIOD OF VALIDITY OF BIDS**
- 1.16.1 Bids shall remain valid for minimum of 90 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 cable, telex, 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. CONFIDENTIALITY**
- 1.17.1 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 publication of the Contract Award.
- 1.17.2 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.
- 1.18. CLARIFICATION OF BIDS**
- 1.18.1 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.

**1.19. CONVERSION TO SINGLE CURRENCY**

1.19.1 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 on the date of bid opening in the case of single part bidding and the rates prevalent on the date of opening of the Priced bids in the case of two-part bidding. For this purpose, exchange rate notified in [www.xe.com](http://www.xe.com) or [www.rbi.org](http://www.rbi.org) or any other website could also be used by the purchaser.

**1.20. CONTACTING THE PURCHASER**

1.20.1 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.

1.20.2 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.

**1.21. POST QUALIFICATION**

1.21.1 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 13.

1.21.2 The determination will take into account the eligibility 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.

1.21.3 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.

**1.22. PURCHASER'S RIGHT TO ACCEPT ANY BID AND TO REJECT ANY OR ALL BIDS**

1.22.1 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.

**1.23. WARRANTY**

1.23.1 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.

1.23.2 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.

1.23.3 Unless otherwise specified, the warranty shall remain valid for twelve (12) months after the Goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated, or for eighteen (18) months after the date of shipment from the port or place of loading in the country of origin, whichever period concludes earlier.

1.23.4 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.

1.29.5 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.

1.23.6 If having been notified, the Supplier fails to remedy the defect within the 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.

1.23.7 Goods requiring warranty replacements must be replaced on free of cost basis to the purchaser.

**1.23.8 Performance Guarantee:**

**The successful bidder is required to submit a performance Guarantee of 3% of Purchase Order value valid during warranty period, plus two months grace period.**

**1.24. PENALTY CLAUSE**

1.24.1 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 contract 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 contract. 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

**1.25. INSURANCE**

1.25.1 Should the purchaser elect to buy on CIF/CIP basis, 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 contract.

1.25.2 Where delivery of the goods is required by the purchaser on CIF or CIP basis the supplier shall arrange and pay for Cargo Insurance, naming the purchaser as beneficiary and initiate & pursue claims till settlement, on the event of any loss or damage.

1.25.3 Where delivery is on FOB or FCA basis, insurance would be the responsibility of the purchaser.

1.25.4 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.

**1.26**

**TRANSPORTATION**

- 1.26.1 Where the Supplier is required under the Contract to deliver the Goods FOB, 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 FCA, 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.
- 1.26.2 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.
- 1.26.3 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.

**1.27**

**PACKING**

Should be as per standards prescribed for international trade and movement of the goods.

**1.38**

**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.

**1.39**

**PERFORMANCE SECURITY**

- 1.39.1 Within 21 days of receipt of the notification of award/PO, the Supplier shall furnish performance security of 3% of Contract/ Purchase Order value in the amount specified in the Contract, valid till 60 days beyond the completion of contractual obligations.
- 1.39.2 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.
- 1.39.3 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.
- 1.39.4 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.
- 1.39.5 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. Or,
  - (c) A Fixed Deposit Receipt pledged in favour of the Purchaser.

**1.40**

**DELIVERY SCHEDULE :** Delivery schedule should be specified clearly.

**1.41**

As per Ministry of Finance, Department of Expenditure order No. F.No./6/18/2019-PPD dated 23 Jul 20 any bidder from a country which shares a land border with India will be eligible to bid in this tender on the bidder is registered with the Department of Promotion of Industry and Internal Trade (DPIIT). Format certificate for the same is given in **Annexure 10** of the tender document. 'Bidder' for the purpose of this or (including the term 'tenderer', 'consultant' 'vendor' or 'service provider' in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidder stated hereinbefore, including any agency, branch or office controlled by such person, participating in a procurement process. Bidder from a country which shares a land bordered with India for the purpose of this order means:-

- (i) An entity incorporated, established or registered in such a country; or
- (ii) A subsidiary of an entity incorporated, established or registered in such a country; or
- (iii) An entity substantially controlled through entities incorporated, established or registered in such a country; or
- (iv) An entity whose beneficial owner is situated in such a country; or
- (v) An Indian (or other) agent of such an entity; or
- (vi) A natural person who is a citizen of such a country; or
- (vii) A consortium or joint venture where any member of the consortium or joint venture falls under any of the above.

## PAYMENT TERMS

For Indigenous supplies payment will be made within 30 days from the date of supply, installation and commissioning. For Imported goods, the preferred payment mode of the Institute is Sight Draft /Net 30 days. If Letter of Credit is insisted by the vendors, the LC will be established for 100% of Purchase Order value out of which 90% will be paid against shipping evidence and 10% after installation commissioning and on-site demonstration and on submission of Performance Bank Guarantee for 3 % of Purchase Order value which should be valid during warranty period. However the advance payment to the vendors is not encouraged.

*Anura Salath*  
27/6/25

Assistant Registrar (Purchase & Stores)



## **Annexure: 3**

### **GENERAL TERMS & CONDITIONS OF THE CONTRACT**

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#### **2.1 DEFINITIONS**

- 2.1.1 The following words and expressions shall have the meanings hereby assigned to them:
- a) "Contract" means 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" means the documents listed in the Contract Agreement, including any amendments thereto.
  - c) "Contract Price" means 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" means calendar day.
  - e) "Completion" means the fulfilment of the Related Services by the Supplier in accordance with the terms and conditions set forth in the Contract.
  - f) "GCC" means the General Conditions of Contract.
  - g) "Goods" means 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) "Related Services" means 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" means the Special Conditions of Contract.
  - j) "Subcontractor" means any natural person, private or government entity, or a combination of the above, to whom any part of the Goods to be supplied or execution of any part of the Related Services is subcontracted by the Supplier.
  - k) "Supplier" means 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) Indian Institute of Science Education and Research, Thiruvananthapuram (IISER-TVM) means a society registered under the Travancore Cochin Literary Scientific and Charitable Societies' Registration Act, 1995 (12 of 1955) on 20.02.2008 at Kerala at no. T.342/08.
  - m) "The final destination," where applicable, means 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.

#### **2.3 FRAUD AND CORRUPTION**

- 2.3.1 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" means 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" means a misrepresentation or omission of facts in order to influence a procurement process or the execution of a contract;



- iii) "Collusive practice" means a scheme or arrangement between two or more bidders, with or without the knowledge of the Borrower, designed to establish bid prices at artificial, noncompetitive levels; and
- iv) "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;
- 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**

- 2.4.1 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.

## **2.5 SCOPE OF SUPPLY**

- 2.5.1 The Goods and Related Services to be supplied shall be as specified in the Schedule of Requirements.

## **2.6 SUPPLIERS' RESPONSIBILITIES**

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

## **2.7 CONTRACT PRICE**

- 2.7.1 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 COPYRIGHT**

- 2.8.1 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**

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

## **2.10 STANDARDS**

- 2.10.1 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 PATENT INDEMNITY**

- 2.12.1 The Supplier shall, subject to the Purchaser's compliance with GCC Sub-Clause 12.2, 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:
  - (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.
- 2.12.2 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.

## **2.13 PERFORMANCE SECURITY**

- 2.13.1 Within 21 days of receipt of the notification of award/PO, 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 PS should be kept valid till such time the PS is submitted.
- 2.13.2 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.
- 2.13.3 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.
- 2.13.4 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.
- 2.13.5 The Performance security shall be in one of the following forms:
  - (d) 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 document; Or,
  - (e) A Banker's cheque or Account Payee demand draft in favour of the purchaser. Or,
  - (f) A Fixed Deposit Receipt pledged in favour of the Purchaser.
- 2.13.6 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.

- 2.13.7 In the event of any contract amendment, the supplier shall, within 21 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.
- 2.13.8 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 confirmation /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.
- 2.14. INSPECTIONS AND TESTS**
- 2.14.1 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 in the SCC or as discussed and agreed to during the course of finalization of contract.
- 2.14.2 The Purchaser 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 Purchaser. The Technical Specifications and SCC shall specify what inspections and tests the Purchaser requires and where they are to be conducted. The Purchaser shall notify the Supplier in writing in a timely manner of the identity of any representatives retained for these purposes.
- 2.14.3 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 Purchaser.
- 2.14.4 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.
- 2.14.5 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.
- 2.14.6 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.
- 2.14.7 The Supplier shall provide the Purchaser with a report of the results of any such test and/or inspection.
- 2.14.8 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.
- 2.15. PACKING**
- 2.15.1 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.
- 2.15.2 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.
- 2.16. DELIVERY AND DOCUMENTS**
- 2.16.1 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 specified in SCC.
- 2.16.2 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, Paris.
- 2.16.3 The mode of transportation shall be as specified in SCC.
- 2.17. INSURANCE**
- 2.17.1 Should the purchaser elect to buy on CIF/CIP basis, 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.
- 2.17.2 Where delivery of the goods is required by the purchaser on CIF or CIP basis the supplier shall arrange and pay for Cargo Insurance, naming the purchaser as beneficiary and initiate & pursue claims till settlement, on the event of any loss or damage.
- 2.17.3 Where delivery is on FOB or FCA basis, insurance would be the responsibility of the purchaser.
- 2.17.4 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.
- 2.18. TRANSPORTATION**
- 2.18.1 Where the Supplier is required under the Contract to deliver the Goods FOB, 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 FCA, 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.
- 2.18.2 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.
- 2.18.3 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.
- 2.19. INCIDENTAL SERVICES**
- 2.19.1 The supplier may be required to provide any or all of the services, if any, specified in SCC.
- 2.20. SPARE PARTS**
- 2.20.1 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.
- 2.21. WARRANTY**
- 2.21.1 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.
- 2.21.2 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.
- 2.21.3 Unless otherwise specified in the SCC, the warranty shall remain valid for twelve (12) months 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 eighteen (18) months after the date of shipment from the port or place of loading in the country of origin, whichever period concludes earlier.
- 2.21.4 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.

- 2.21.5 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.
- 2.21.6 If having been notified, the Supplier fails to remedy the defect within the 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.
- 2.21.7 Goods requiring warranty replacements must be replaced on free of cost basis to the purchaser.
- 2.22 TERMS OF PAYMENT**
- 2.22.1 The method and conditions of payment to be made to the Supplier under this Contract shall be as specified in the SCC.
- 2.22.2 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 fulfillment of other obligations stipulated in the contract.
- 2.22.3 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.
- 2.22.4 Payment shall be made in currency as indicated in the contract.
- 2.23. CHANGE ORDERS AND CONTRACT AMENDMENTS.**
- 2.23.1 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.
- 2.23.2 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 asserted within fifteen (15) days from the date of the Supplier's receipt of the Purchaser's change order.
- 2.23.3 No variation or modification in the terms of the contract shall be made except by written amendment signed by the parties.
- 2.24. ASSIGNMENT**
- 2.24.1 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.
- 2.25. SUBCONTRACTS**
- 2.25.1 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.
- 2.26. EXTENSION OF TIME.**
- 2.26.1 Delivery of the Goods and performance of the Services shall be made by the Supplier in accordance with the time schedule specified by the Purchaser.
- 2.26.2 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 of the Contract.
- 2.26.3 Except as provided under the Force Majeure clause of the GCC, a delay by the Supplier in 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.
- 2.27. PENALTY CLAUSE**
- 2.27.1 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
- 2.28. TERMINATION FOR DEFAULT**
- 2.28.1 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; or
  - (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.
- 2.28.2 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 is to be forfeited;
  - (b) The purchaser may procure, upon such terms and in such manner as it deems appropriate, stores 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.
- 2.29. FORCE MAJEURE**
- 2.29.1 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.
- 2.29.2 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.
- 2.29.3 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.
- 2.29.4 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.
- 2.30. TERMINATION FOR INSOLVENCY**
- 2.30.1 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.
- 2.31. TERMINATION FOR CONVENIENCE**
- 2.31.1 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.
- 2.31.2 The Goods those 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 and for materials and parts previously procured by the Supplier.
- 2.32. SETTLEMENT OF DISPUTES**
- 2.32.1 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.
- 2.32.2 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.
- 2.32.3 The dispute settlement mechanism/arbitration proceedings shall be conducted 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 Chairman, Board of Governors of ISEN, YM 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 this order.
- (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.
- 2.32.4 The venue of the arbitration shall be the place from where the purchase order or contract is issued.
- 2.32.5 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.
- 2.33 GOVERNING LANGUAGE**  
2.33.1 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.
- 2.34 APPLICABLE LAW**  
2.34.1 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.
- 2.35 NOTICES**  
2.35.1 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.  
2.35.2 A notice shall be effective when delivered or on the notice's effective date, whichever is later.
- 2.36 TAXES AND DUTIES**  
2.36.1 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.  
2.36.2 For goods Manufactured within India, the Supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred till its final manufacture/production.  
2.36.3 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.
- 2.37 RIGHT TO USE DEFECTIVE GOODS**  
2.37.1 If after delivery, acceptance and installation and within the guarantee and 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.
- 2.38 PROTECTION AGAINST DAMAGE**  
2.38.1 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/ 415 V 3 phase (+/- 10%)  
(b) Frequency 50 Hz.
- 2.39. SITE PREPARATION AND INSTALLATION**  
The Purchaser is solely responsible for the construction of the equipment sites 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 purchasers' site immediately after notification of award/contract.

*Amar Sodath*  
27/6/25

**Assistant Registrar (Purchase & Stores)**





## **Annexure 4** **INTEGRITY PACT**

Between

Indian Institute of Science Education and Research Thiruvananthapuram, Maruthamala P.O, Vithura, Trivandrum -695551, India hereinafter referred to as **"The Principal,"** and

hereinafter referred to as **"The Bidder/ Contractor."**

### **Preamble**

The Principal intends to award contract/s for \_\_\_\_\_, under laid down organisational procedures, The Principal values full compliance with all relevant laws of the land, rules, regulations, economical use of resources, and fairness / transparency in its relations with its Bidder(s) and / or Contractor(s).

To achieve these goals, the Principal shall appoint Independent External Monitors (IEMs) who shall monitor the tender process and the execution of the contract for compliance with the abovementioned principles.

### **Section 1 – Commitments of the Principal**

1) The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles: -

- a. No employee of the Principal, personally or through family members, shall in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
- b. The Principal shall treat all Bidder(s) with equity and reason during the tender process. The Principal shall, in particular, before and during the tender process, provide to all Bidder(s) the same information and shall not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in the tender process or the contract execution.
- c. The Principal shall exclude from the process all known persons having conflict of interest.

2) If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the IPC/PC Act, or if there be a substantive suspicion in this regard, the Principal shall inform the Chief Vigilance Officer and in addition shall initiate disciplinary proceedings.

### **Section 2 – Commitments of the Bidder(s)/ Contractor(s)**

1) The Bidder(s)/ Contractor(s) commits themselves to take all measures necessary to prevent corruption. The Bidder(s)/ Contractor(s) commits themselves to observe the following principles during participation in the tender process and the contract execution.

- a. The Bidder(s)/ Contractor(s) shall not, directly or through any other person or firm, offer, promise, or give to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material or other benefit which they are not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or the execution of the contract.
- b. The Bidder(s)/ Contractor(s) shall not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal, in violation of the Competition Act, 2002 (as amended from time to time). This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelisation in the tender process.
- c. The Bidder(s)/ Contractor(s) shall not commit any offence under the relevant IPC/PC Act; further, the Bidder(s)/ Contractor(s) shall not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals, and business details, including information contained or transmitted electronically.
- d. The Bidder(s)/Contractors(s) of foreign origin shall disclose the name and address of the Agents/representatives in India, if any. Similarly, the Bidder(s)/Contractors(s) of Indian Nationality shall furnish the name and address of the foreign principals, if any. Further details, as mentioned in the "Guidelines on Indian Agents of Foreign Suppliers," shall be disclosed by the Bidder(s)/Contractor(s). Further, as mentioned in the Guidelines, all the payments made to the Indian agent/representative must be in Indian Rupees only. Copy of the "Guidelines on Indian Agents of Foreign Suppliers" is placed on Annex hereto.

- e. The Bidder(s)/ Contractor(s) shall, when presenting their bid, disclose any and all payments



made, is committed to, or intends to make to agents, brokers, or any other intermediaries in connection with the award of the contract.

f. Bidder(s) /Contractor(s) who have signed the Integrity Pact shall not approach the Courts while representing the matter to IEMs and shall wait for their decision.

2) The Bidder(s)/ Contractor(s) shall not instigate third persons to commit offences outlined above or be an accessory to such offences.

### **Section 3 - Disqualification from the tender process and exclusion from future contracts**

If the Bidder(s)/Contractor(s), before award or during execution, has committed a transgression through a violation of Section 2, above or in any other form such as to put their reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s)/Contractor(s) from the tender process or take action as per laid down procedure to debar the Bidder(s)/Contractor(s) from participating in the future procurement processes of the Government of India.

### **Section 4 – Compensation for Damages**

1) If the Principal has disqualified the Bidder(s) from the tender process before the award according to Section 3, the Principal is entitled to demand and recover the damages equivalent to Earnest Money Deposit/ Bid Security.

2) If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to Section 3, the Principal shall be entitled to demand and recover from the Contractor liquidated damages of the Contract value or the amount equivalent to Performance Bank Guarantee.

### **Section 5 – Previous transgression**

1) The Bidder declares that no previous transgressions occurred in the last three years with any other Company in any country conforming to the anti-corruption approach or with any Public Sector Enterprise in India that could justify his exclusion from the tender process.

2) If the Bidder makes an incorrect statement on this subject, the Principal shall act like para 2) of Section 4 above.

### **Section 6 – Equal treatment of all Bidders / Contractors / Subcontractors**

In the case of Sub-contracting, the Principal Contractor shall take responsibility for adopting the Integrity Pact by the Sub-contractor.

a. The Principal shall enter into agreements with identical conditions as this one with all Bidders and Contractors.

b. The Principal shall disqualify from the tender process all bidders who do not sign this Pact or violate its provisions.

### **Section 7 – Criminal charges against violating Bidder(s) / Contractor(s) / Subcontractor(s)**

If the Principal obtains knowledge of the conduct of a Bidder, Contractor, or Subcontractor, or of an employee or a representative or an allied firm of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal shall inform the same to the Chief Vigilance Officer.

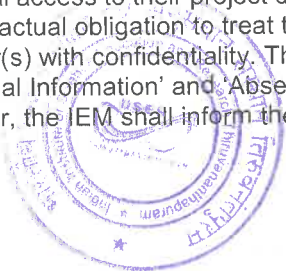
### **Section 8 – Independent External Monitor**

1) The Principal shall appoint competent and credible Independent External Monitor(s) for this Pact after approval by the Central Vigilance Commission. The task of the Monitor is to review, independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.

2) The Monitor is not subject to instructions by the parties' representatives and performs their functions neutrally and independently. The Monitor would have access to all Contract documents whenever required. It shall be obligatory for them to treat the information and documents of the Bidders/Contractors as confidential. They report to the Management of the Principal.

3) The Bidder(s)/Contractor(s) accepts that the Monitor has the right to access without restriction, all Project documentation of the Principal, including that provided by the Contractor. Upon their request and demonstration of a valid interest, the Contractor shall also grant the Monitor unrestricted and unconditional access to their project documentation. The same applies to Subcontractors.

4) The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/ Contractor(s)/ Sub-contractor(s) with confidentiality. The Monitor has also signed declarations on 'Non-Disclosure of Confidential Information' and 'Absence of Conflict of Interest.' In case of any conflict of interest arising later, the IEM shall inform the Management of the Principal and recuse themselves from that case



5) The Principal shall provide the Monitor with sufficient information about all meetings among the parties related to the Project, provided such meetings could impact the contractual relations between the Principal and the Contractor. The parties offer the Monitor the option to participate in such meetings.

6) As soon as the Monitor notices, or believes to notice, a violation of this agreement, they shall inform the Management of the Principal and request the Management to discontinue or take corrective action or other relevant action. The Monitor can, in this regard, submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action, or tolerate action.

7) The Monitor shall submit a written report to the Management of the Principal, within 8 to 10 weeks from the date of reference or intimation to him by the Principal and, should the occasion arise, submit proposals for correcting problematic situations.

8) If the Monitor has reported to the Management of the Principal a substantiated suspicion of an offence under the relevant IPC/ PC Act, and the Management of the Principal has not, within the reasonable time, taken visible action to proceed against such offence or reported it to the Chief Vigilance Officer, the Monitor may also transmit this information directly to the Central Vigilance Commissioner.

9) The word 'Monitor' would include both singular and plural.

#### **Section 9 – Pact Duration**

This Pact begins when both parties have legally signed it. It expires for the Contractor 12 months after the last payment under the contract, and for all other Bidders, 6 months after the contract has been awarded. Any violation of the same would entail disqualifying the bidders and exclusion from future business dealings.

If any claim is made / lodged during this time, the same shall be binding and continue to be valid despite the lapse of this Pact as specified above, unless it is discharged / determined by the Management of the Principal.

#### **Section 10 – Other provisions**

1) This agreement is subject to Indian Law. The place of performance and jurisdiction is the place from where the Tender/ Contract is issued.

2) Changes, supplements, and termination notices must be submitted in writing. Side agreements have not been made.

3) If the Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.

4) Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties shall strive to come to an agreement according to their original intentions.

5) Issues like Warranty / Guarantee, etc., shall be outside the purview of IEMs.

6) In the event of any contradiction between the Integrity Pact and its Annex, the Clause in the Integrity Pact shall prevail.

\_\_\_\_\_  
(For & On behalf of the Principal)  
(Office Seal)

Place -----

Witness 1: \_\_\_\_\_

(Name & Address)

\_\_\_\_\_  
(For and on behalf of Bidder/ Contractor)  
(Office Seal)

Date -----

Witness 1: \_\_\_\_\_

(Name & Address)



## **Annexure 5**

### **MODEL BANK GUARANTEE FORMAT FOR FURNISHING BID SECURITY (BS)**

Whereas ..... (hereinafter called the "tenderer")  
has submitted their offer dated ..... for the supply of .....  
..... (hereinafter called the  
"tender") against the Purchaser's tender enquiry 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, 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:-
  - a) If the tenderer fails to furnish the performance security for the due performance of the contract.
  - b) 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 (IISER-TVM) 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 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 and address of the Bank and address of the Branch.



## Annexure 6

### SPECIMEN

#### 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. .... dated ..... to 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

Place:

Signature with Date and Stamp of the Bidder





**ANNEXURE: 7**

**TENDER ACCEPTANCE LETTER (To be given on Company Letter Head)**

To,

Date:

The Director, Indian Institute of Science Education and Research –

Thiruvananthapuram,

Maruthamala P.O, Vithura, Thiruvananthapuram, Kerala -695551, India.

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No: \_\_\_\_\_

Name of Tender / Work: - \_\_\_\_\_

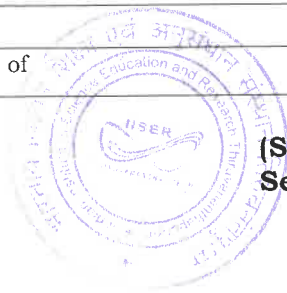
Dear Sir,

1. I / We have downloaded / obtained the tender document(s) for the above mentioned 'Tender/Work' from the web site(s) namely: \_\_\_\_\_ as per your advertisement, given in the above mentioned website(s).
2. I / We hereby certify that I / we have read the entire terms and conditions of the tender documents from Page No. \_\_\_\_\_ to \_\_\_\_\_ (including all documents like annexure(s), schedule(s), etc ..), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.
3. The corrigendum(s) issued from time to time by your department/ organization too have also been taken into consideration, while submitting this acceptance letter.
4. I / We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirety.
5. I / We do hereby declare that our Firm has not been blacklisted/ debarred by any Govt. Department/Public sector undertaking.
6. I / We certify that all information furnished by the our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organization shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.
7. I / We declare the following information provided are correct to the best of my knowledge:

1	Name and Address of the bidder	
2	Manufacturer / Dealer / Agent	
3	Contact Person	
4	Phone	
5	Email	
6	Mobile Number	
7	GST No	
8	PAN No	
9	UTR No / DU No (in case of online transfer of Tender Fee) (if any)	
10	UTR No / DU No (in case of online transfer of EMD)	
11.	Inco terms, if import	
12	Warranty, if any	
13	HSN Codes of the equipment(s) quoted	
14	Delivery period	
15	Payment terms	
16.	PO to be placed in favour of	

Yours Faithfully,

**(Signature of the Bidder, with Official Seal)**





## **ANNEXURE 8**

### **Declaration of Local Content**

#### **(ON COMPANY LETTER HEAD)**

(In case the procurement value is less than or equal to Rs. 10 Crores declaration to be given in Bidder's/Company's letter head and if more than Rs. 10 Crores declaration to be issued from the statutory auditor or cost auditor of the company (in case of companies from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies)

To,  
The Director,  
Indian Institute of Science Education and Research Thiruvananthapuram,  
Maruthamala P.O., Vithura, Thiruvananthapuram, Kerala, India – 695551

Subject: Declaration of local content and compliance of Public Procurement  
(Preference to Make in India) Order 2017 and its amendments regarding.

Sl N o	Name of the goods/service/work s	Categor y of the supplier (Class I / II / III)	Currenc y (must be in INR)	Local Conten t (%)	Locatio n at which value additio n is made	Countr y of Origin	Compl y to the above referre d rule (Yes / No)
1							

- “Local Content” means the amount of value added in India which shall, be the total value of the item being offered (excluding net domestic indirect taxes) minus the value of the imported content in the item (including all customs duties) as a proportion of the total value, in percent.
- False declarations will be in breach of Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151(iii) of the General Financial Rules along with such other actions permissible under law.

Date:

Place:

**Signature with Date and Stamp of the Bidder**



**ANNEXURE: 9**

**CERTIFICATE**

**(ON COMPANY LETTER HEAD)**

I hereby certify that we M/s \_\_\_\_\_

\_\_\_\_\_ (name and address of the firm) is neither blacklisted by any Central/ State Government / Public Undertaking/ Institute nor is any criminal case registered / pending against the firm or its owner / partners anywhere in India.

I also certify that the above information is true and correct in every aspect and in any case at a later date it is found that any details provided above are incorrect, any contract given to the above firm may be summarily terminated and the firm blacklisted.

Date:

Place:

**Signature with Date and Stamp of the Bidder**



**ANNEXURE: 10**

**CERTIFICATE BY THE BIDDER (FOR TENDERS)**  
**(ON COMPANY LETTER HEAD)**

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

Date:

Place:

**Signature with Date and Stamp of the Bidder**



## Annexure 11

### Annexure I: List of the NIST calibration standards

#### NIST calibration standards 20/21 elements (1000 ppm, 125 ml).

Aluminum (Al)	1,000 µg/mL	Lead (Pb)	1,000 µg/mL
Barium (Ba)	1,000 µg/mL	Lithium (Li)	1,000 µg/mL
Bismuth (Bi)	1,000 µg/mL	Magnesium (Mg)	1,000 µg/mL
Boron (B)	1,000 µg/mL	Manganese (Mn)	1,000 µg/mL
Cadmium (Cd)	1,000 µg/mL	Nickel (Ni)	1,000 µg/mL
Calcium (Ca)	1,000 µg/mL	Potassium (K)	1,000 µg/mL
Chromium (Cr)	1,000 µg/mL	Silver (Ag)	1,000 µg/mL
Cobalt (Co)	1,000 µg/mL	Sodium (Na)	1,000 µg/mL
Copper (Cu)	1,000 µg/mL	Strontium (Sr)	1,000 µg/mL
Gallium (Ga)	1,000 µg/mL	Thallium (Tl)	1,000 µg/mL
Indium (In)		Zinc (Zn)	1,000 µg/mL
Iron (Fe)			

#### NIST calibration standards 22/23 elements (125 ppm, 100 ml)

Aluminum (Al)	100 µg/mL	Lead (Pb)	100 µg/mL
Barium (Ba)	100 µg/mL	Lithium (Li)	100 µg/mL
Beryllium (Be)	100 µg/mL	Magnesium (Mg)	1,000 µg/mL
Bismuth (Bi)	100 µg/mL	Manganese (Mn)	100 µg/mL
Boron (B)	100 µg/mL	Nickel (Ni)	100 µg/mL
Cadmium (Cd)	100 µg/mL	Potassium (K)	100 µg/mL
Calcium (Ca)	100 µg/mL	Selenium (Se)	100 µg/mL
Chromium (Cr)	100 µg/mL	Sodium (Na)	100 µg/mL
Cobalt (Co)	100 µg/mL	Strontium (Sr)	100 µg/mL
Copper (Cu)	100 µg/mL	Tellurium (Te)	100 µg/mL
Gallium (Ga)		Thallium (Tl)	100 µg/mL
Iron (Fe)		Zinc (Zn)	100 µg/mL



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**NIST calibration standards 21/22 elements including U & Th (10 ppm, 100 ml).**

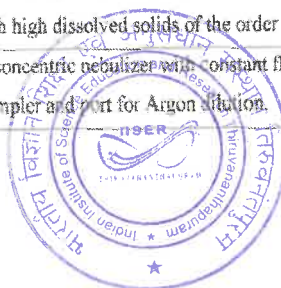
Aluminum (Al)	10 µg/mL	Lithium (Li)	10 µg/mL
Arsenic (As)	10 µg/mL	Magnesium (Mg)	10 µg/mL
Barium (Ba)	10 µg/mL	Manganese (Mn)	10 µg/mL
Beryllium (Be)	10 µg/mL	Nickel (Ni)	10 µg/mL
Bismuth (Bi)	10 µg/mL	Potassium (K)	10 µg/mL
Cadmium (Cd)	10 µg/mL	Rubidium (Rb)	10 µg/mL
Calcium (Ca)	10 µg/mL	Selenium (Se)	10 µg/mL
Cesium (Cs)	10 µg/mL	Silver (Ag)	10 µg/mL
Chromium (Cr)	10 µg/mL	Sodium (Na)	10 µg/mL
Cobalt (Co)	10 µg/mL	Strontium (Sr)	10 µg/mL
Copper (Cu)	10 µg/mL	Thallium (Tl)	10 µg/mL
Gallium (Ga)	10 µg/mL	Uranium (U)	10 µg/mL
Indium (In)	10 µg/mL	Vanadium (V)	10 µg/mL
Iron (Fe)	10 µg/mL	Zinc (Zn)	10 µg/mL
Lead (Pb)	10 µg/mL		

**Technical specifications and general conditions for Inductively Coupled Plasma Mass Spectrometer (ICP-MS) with Microwave Digestion System (MDS)**

**A. Technical specifications of ICP-MS**

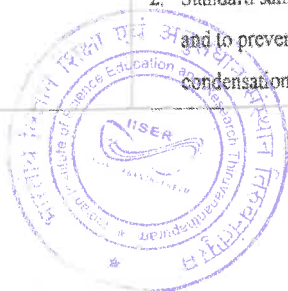
Application: Accurate and precise measurement of trace elements (including common, rare, toxic, etc.) at ppm, ppb, and ppt levels in various types of samples such as water, rocks, minerals, ores, sediments, soils, waste extracts, sludges, food, pharmaceutical samples, etc. for basic and applied aspects of Earth and Environmental Sciences.

Sl. No.	Main component	Required specifications
1	Basic design	Space-saving, compact bench-top model so that it can fit in the allocated lab space with all its components and accessories with corrosion-resistant exteriors. The system should be capable of working in a standard laboratory environment even without class-100/1000 clean rooms.
2	Sample Introduction System	<ul style="list-style-type: none"> <li>a. All components should be positioned in a way such that users can access, remove, and fit them easily on a regular basis.</li> <li>b. Open architecture design for sample introduction system having capability to connect in future to suitable Ion Chromatography (IC) or Liquid Chromatography (LC) or Laser Ablation (LA) systems.</li> <li>c. The sample introduction should be both manual and auto-controlled.</li> <li>d. Capable of handling aqueous solutions with high dissolved solids of the order of 20% or better</li> </ul>
2.1	Nebulizer	Glass concentric nebulizer with constant flow rate. It should be able to connect to an autosampler and port for Argon dilution.



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2.2	Spray chamber	<ol style="list-style-type: none"> <li>1. Peltier-cooled, high-purity quartz, spray chamber with high sensitivity, greater stability and repeatability.</li> <li>2. The chamber should efficiently filter large aerosol droplets for efficient plasma stability.</li> <li>3. Controlled temperature range: -5°C to +20°C or better.</li> </ol>
2.3	Additional kits	<ol style="list-style-type: none"> <li>1. For the samples digested with HF (rock samples and other silicates), an HF kit (PFA) should be quoted as an additional component. The HF kit should include a nebulizer, spray chamber, plasma torch, injector, and all other necessary components.</li> <li>2. A separate sample introduction system should be quoted for running organic samples directly along with Peltier cooler.</li> </ol>
2.4	Peristaltic pump	<ol style="list-style-type: none"> <li>1. Low-pulsation, high precision, multi-channel (minimum 3 channels), at least 10 roller pumps with precise computer-controlled pumping of the sample, internal standards and spray chamber drain.</li> <li>2. The pump speed should be computer-controlled, with the range and speed aligned to the instrument and software specifications.</li> </ol>
3	<b>Inductively Coupled Plasma</b> (Robust plasma ion source suitable to handle the variable and challenging matrices such as aqueous and organic matrices, highly volatile organic solvents, geological samples, etc.)	
3.1	Torch	<ol style="list-style-type: none"> <li>1. Push-fit, demountable, single-piece quartz torch.</li> <li>2. Torch movement should be completely computer-controlled and auto-tunable in x-y-z directions.</li> </ol>
		<ol style="list-style-type: none"> <li>3. Provision of auto-alignment of the torch after routine maintenance with reproducibility better than 0.1 mm in x-y-z directions.</li> <li>4. Torch should have the capability for variable sampling depth with small incremental steps.</li> <li>5. At least 4 active mass flow controllers (MFC) or an equivalent electronic/pressure-based flow controllers should be available to control plasma, auxiliary makeup, carrier gas and makeup/dilution gas.</li> </ol>
3.2	RF generator and load coil	<ol style="list-style-type: none"> <li>1. 27 to 40 MHz solid-state RF generator with dynamic frequency impedance</li> <li>2. The RF generator should be able to operate in cold and hot plasma mode in a single sample acquisition and should be able to rapidly change between these modes.</li> <li>3. The power range should be variable from near 500 to 1600 W or wider.</li> <li>4. Water/Air/Gas-cooled load coil for an improved lifetime and reliable plasma ignition should be provided at an accessible height for maintenance.</li> </ol>
3.3	Interface	<ol style="list-style-type: none"> <li>1. Double or triple cone interface involving sample and skimmer cones to accomplish ion extraction from plasma. The interface should be easy to remove and clean for routine maintenance without disturbing the vacuum. The cones should be resistant to clogging and stable for a longer time period.</li> <li>2. Standard sample and skimmer cones with orifice diameters suitable for all applications and to prevent clogging and minimize signal drift. Should have minimal matrix condensation and good tolerance to high-matrix samples.</li> </ol>



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		<ol style="list-style-type: none"> <li>3. Ni sampling core orifice diameter should be 1 mm or more.</li> <li>4. Platinum cones should be quoted.</li> <li>5. The skimmer cone orifice should have 0.9 mm diameter or less for minimal matrix condensation and good tolerance to high-matrix samples.</li> </ol>
3.4	Ion optics and focusing systems	<ol style="list-style-type: none"> <li>1. Well-designed suitable extraction lenses that can operate at low voltages allowing proper ion extraction and focusing into the ion optics should be provided. or</li> <li>2. An off-axis lens system to reduce the background noise should be provided outside the high vacuum region for easy maintenance.</li> <li>3. Maintenance-free ion optics system with no or minimal maintenance</li> </ol>
4	Collision/Reaction cell	<ol style="list-style-type: none"> <li>1. Collision/reaction cells should be available with kinetic energy discrimination (KED) for eliminating polyatomic interfering species, isobaric species through chemical and collision reaction technology</li> <li>2. The system should be capable of analyzing all elements in the analytes (entire mass range, 2-260 amu or wider) in a single measurement mode with a very short stabilization time between different modes.</li> <li>3. Helium gas cell configured with a low mass cut-off/ or a suitable mechanism for removing polyatomic interference should be included</li> <li>4. The facility of fully automated and software-controlled changeover between standard mode and collision/reaction mode without any manual intervention should be available</li> </ol>

		<ol style="list-style-type: none"> <li>5. Two or more dedicated gas channels with active mass flow controllers for He and other pure reactive gases like ammonia should be present to allow the reaction of gases. The instrument must have separate MFC for reaction and collision gases.</li> </ol>
5	Vacuum system and turbo pump	<ol style="list-style-type: none"> <li>1. Three or four-stage differential vacuum system should be present.</li> <li>2. The vacuum should be maintained in the event of power and argon gas supply failure.</li> <li>3. Single split-flow or triple-inlet turbomolecular pump capable of maintaining vacuum <math>10^{-8}</math> Torr or less during the operation.</li> <li>4. Operating vacuum should be capable of achieving within minimum pumping time.</li> <li>5. The turbo pump should be corrosion-resistant.</li> <li>6. A single external high-performance rotary pump for fast pump down and simple maintenance should be provided. The pump should be provided with standard temperature-resistant and chemically stable pump oil.</li> </ol>
6	Mass analyzer (Quadrupole)	<ol style="list-style-type: none"> <li>1. Quadrupole should be made of gold-coated ceramic or molybdenum or SS for a low coefficient of thermal expansion.</li> <li>2. The scan speed should be better than 3000 amu per second.</li> <li>3. Mass range of 2-260 amu or wider.</li> <li>4. Mass resolution of less than 1 amu in the entire mass range.</li> <li>5. The quadrupole should have a frequency of 2 MHz or more to ensure low abundance sensitivity and mass stability</li> <li>6. Mass stability should be less than <math>\pm 0.05</math> amu per day or better.</li> </ol>



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		7. Abundance sensitivity should be less than or equal to $5 \times 10^{-7}$ (low-mass side) and less than or equal to $1 \times 10^{-7}$ (high-mass side)
7	Detector	<ol style="list-style-type: none"> <li>1. Dual-stage, long-life discrete dynode detector.</li> <li>2. Minimum dwell time: 100 <math>\mu</math>s or less in both analog and pulse counting detection modes.</li> <li>3. Automated optimization of operating voltages and cross-calibration between pulse counting and analog modes.</li> <li>4. Linear dynamic detection ranges up to 10 orders of magnitude or better.</li> <li>5. The dynamic range should be able to cover all measurable elements and their isotopes.</li> </ol>
8	Specific analytical requirements	
8.1	Detection limit	<p>Detection limit (ng/L) should be lesser than or equal to the reference values provided below:</p> <p><math>{}^9\text{Be} \leq 0.5</math></p> <p><math>{}^{115}\text{In} \leq 0.1</math></p> <p><math>{}^{209}\text{Bi} \leq 0.1</math></p>
8.2	Sensitivity	<p>Sensitivity (Mcps/ppm) should be more than or equal to the reference values provided below:</p> <p><math>{}^7\text{Li} = 50</math></p> <p><math>{}^{89}\text{Y} = 160</math> or <math>{}^{115}\text{In} = 250</math></p> <p><math>{}^{205}\text{Tl} = 80</math> or <math>{}^{238}\text{U} = 300</math></p> <p>The sensitivity value mentioned above should be factory specification and should be demonstrated during installation.</p>

8.3	Elements	<ol style="list-style-type: none"> <li>1. Should be able to analyze the following elements: Cd, Pb, Hg, As, Cu, Zn, Se, Sn, Be, Ca, Co, Ag, Al, Mn, Ti, Cr, Ni, Pt, Au at a concentration of 0.05 ppb with RSD of 5% at standard conditions.</li> <li>2. Calibration curves of the above elements in the concentrations of 0.05 ppb, 0.1 ppb, 0.5 ppb, 1 ppb and 2 ppb with <math>r^2</math> of 0.99 should be possible. A copy of the calibration curves for these elements should be submitted in the tender documents.</li> </ol>
8.4	Oxides (e.g., CeO/Ce)	Should be less than 2.5%
8.5	Double charged (e.g., Ce <sup>2+</sup> /Ce)	Should be less than 3%
8.6	Stability	<ol style="list-style-type: none"> <li>1. Short-term: less than 3% RSD</li> <li>2. Long-term: less than 4% RSD</li> </ol>
8.7	Isotope ratio precision	Should be less than 0.1% RSD
9	Software and operating system	<ol style="list-style-type: none"> <li>1. Original licensed software (perpetual) compatible with the latest version of Windows OS must be provided.</li> <li>2. The software shall support the following calibration curve fit modes for quantitative analyses: <ol style="list-style-type: none"> <li>A. linear least squares,</li> <li>B. weighted linear least squares,</li> <li>C. linear forced through zero least squares,</li> <li>D. real-time graphics with the ability to display transient and continuous signal profiles,</li> </ol> </li> </ol>



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		<p>E. quantitative analysis including external calibration, standard additions, isotope ratios and isotope dilutions and semi-quantitative analysis.</p> <p>F. On-line help with quick steps to refer to the entire instrument user manual. A hard copy of the user manual should also be provided.</p> <p>G. Data reprocessing on stored data without re-running analyses for changes of calibration points, internal standard points or curve fit mode.</p> <p>H. The software package should have the option to control the plasma, autosampler and other accessories of the instrument.</p> <p>I. The software must have inbuilt methods available for routine samples to enable fast turnaround time after installation and commissioning.</p> <p>J. Exporting data to Excel sheets for processing should happen easily.</p> <p>K. The software should have method templates.</p> <p>L. Timely updates in the software (if any) should be free of cost.</p> <p>3. A branded PC with the following minimum specifications: Latest version of Windows 11 OS, core i7 processor, 3.6 GHz and above CPU speed, integrated 2 GB graphic card, 24 inches monitor, 16 GB RAM, 1 TB SSD storage, multiple memory slots, Wi-Fi and Bluetooth loaded with the above-mentioned software.</p> <p>4. A branded laserjet or inkjet printer should be provided along with the PC.</p>
10	Autosampler	<p>1. An autosampler should be provided with more than 100 vials capacity or more along with 7 ml to 50 ml capacity tube racks.</p>

		<p>2. The autosampler should have an enclosure and connecting duct to exhaust systems.</p>
11	Chiller	<p>A high-performance, closed-loop, low-noise chiller unit (including the ultrapure ICP-MS grade coolant chemicals) should be provided for the instrument. The chiller should be able to maintain 18-22°C continuously.</p>
12	Power supply	<p>The power input is 220/440 VAC, 50-60 Hz, with a BIS-certified plug (ISI mark). The system is to be installed at IISER, Thiruvananthapuram. The supplier should verify the power requirements to ensure compatibility.</p>
13	Other accessories and consumables	
13.1	Gas cylinders and associated accessories	<p>1. 10 argon gas cylinders (~10 cubic meter capacity) (<math>\geq 99.995\%</math> purity) should be provided along with the branded/certified regulator system and gas panel as per requirement.</p> <p>2. 2 helium gas cylinders (~10 cubic meter capacity) (<math>\geq 99.999\%</math> purity) should be provided along with the regular system and gas panel as per requirement.</p> <p>3. 2 oxygen or hydrogen or any other reactive gas cylinders with pure or pre-mix form for reaction mode operation to remove interference effectively.</p> <p>4. Automatic changeover manifold, cylinder cage, spanner/spindle/wrench, etc. (tool kit) should be provided.</p>
13.2	Exhaust unit	<p>A suitable exhaust assembly should be provided for the ICP-MS and autosampler.</p>
13.3	Standards	<p>The following standards should be provided (see the list provided in Annexure I):</p> <p>1. NIST calibration standards 20/21 elements (1000 ppm, 125 ml).</p> <p>2. NIST calibration standards 22/23 elements (125 ppm, 100 ml).</p>



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		3. NIST calibration standards 22/23 elements including U and Th (10 ppm, 100 ml). 4. Single element standards (100/10 ppm, 125 ml) for Hg, Os, Au stock solution. 5. Rare earth elements multi-element standards (including Zr, Hf, W, Nb, Ta) (100 ppm, 125 ml). 6. Precious elements (Ir, Ag, Au, Pt, Pd, Rh, Ru), 125 ml.
13.4	Certified Reference Materials	1. NIST SRM water 1640 2. Rock and sediment certified reference materials: i. Igneous rocks: Andesite (e.g., AGV-1 or AGV-2), basalts (e.g., BCR-1 or BCR-2, BHVO-1 or BHVO-2), granites (e.g., G-2 or G-3), peridotite (e.g., PCC-1), and syenite (e.g., SY-5 or SY-2 or SY-3) ii. Sedimentary rocks and sediments: Slate (e.g., OU-6), marine sediment (e.g., SDO), and limestone (e.g., NIST SRM 1d) 3. NIST SRM 1573a tomato leaves
13.5	Spares	The following spare items should be quoted with the quantity specified in the brackets with OEM part numbers in addition to one standard set supplied along with instrument: 1. Spray chamber (1 qty) 2. Nebulizer (1 qty) 3. Ni and Pt cones with O rings (1 complete set – sampler and skimmer) 4. Injector and plasma torch (4 sets)

		5. Sample uptake tubing (5 sets) 6. Peristaltic pump tubing for drain (2 sets) 7. Peristaltic pump tubing for samples (4 sets) 8. Tool kit with all standard tools (1 set) 9. Autosampler tubes (2 sets) 10. Instrument calibration and validation solution (1 set) 11. Instrument performance check solution (1 set) 12. Tuning solutions (2 sets) 13. PVC waste tubing for autosampler (2 sets) 14. PFA sample and rinse tubing (3 sets) 15. Oil element (2 sets) 16. Graphite gasket for sampling cone (1 set) 17. Tubing for spray chamber drain (3 meter) 18. Pump oil (1 liter – 3 sets) 19. Load coil (1 set) 20. Fluid for chiller (5 liters) 21. Gas cylinder regulators for all different gases (1 set) 22. Cone cleaning solvent with high purity (3 liters) 23. Autosampler vials (200 7 ml vials, 400 10 ml vials, 200 15 ml vials and 200 20 ml vials) 24. Gas clean filter for carrier gas (1 set)
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## B. Technical specifications for Microwave Digestion System (MDS)

Application: For acid digestion applications for a diverse range of sample types, including sediments, silicate and carbonate rocks, ores, soil, environmental samples, natural products, and plant materials, to prepare samples for subsequent analysis using ICP-MS techniques.

Sl. No.	Description	Specifications
1	Cavity chamber	<ol style="list-style-type: none"> <li>1. Constructed from highly corrosion-resistant stainless steel with a multilayer fluoropolymer coating.</li> <li>2. The coating provides both physical protection against external factors and enhances chemical resistance.</li> <li>3. Volume exceeding 60 liters to accommodate larger sample batches and facilitate efficient processing.</li> </ol>
2	Microwave power	<ol style="list-style-type: none"> <li>1. Power output of 1800 watts or higher.</li> <li>2. Controlled by a microprocessor with a single or dual magnetron system.</li> <li>3. Allows adjustments in 1-watt increments for precise control, ensuring optimal conditions for sample digestion and enhancing reproducibility and accuracy.</li> </ol>
3	Vessels	<ol style="list-style-type: none"> <li>1. Fully closed and resistant to corrosion from any acid and gases. Vessels should be capable of handling chemicals such as <math>\text{HNO}_3</math>, <math>\text{HCl}</math>, <math>\text{H}_2\text{O}_2</math>, <math>\text{HF}</math>, <math>\text{H}_2\text{SO}_4</math> and their mixtures.</li> <li>2. The vessels must be designed to prevent cracking, breaking, or explosion in case of overpressure from unknown sample reactions. The vessels must have controlled release of overpressure to avoid explosions in case of any sudden exothermic reactions over entire temperature and pressure range.</li> <li>3. Made from microwave-transparent and reagent-resistant inert polymeric materials such as PTFE or PTFE-IFM.</li> <li>4. Vessel volume of at least 80 ml or more with a minimum filling volume of 5 ml.</li> </ol>

		<ol style="list-style-type: none"> <li>5. Designed for a sample weight of at least 1 gram to accommodate inhomogeneous samples and trace-level analysis.</li> <li>6. Vessel design parameters should allow for temperatures up to <math>300^\circ\text{C}</math> or more and pressures up to 100 bars or more.</li> <li>7. Vessels should have minimum hold time of 45 minutes or more at maximum operating temperature.</li> </ol>
4	Controller	<ol style="list-style-type: none"> <li>1. Integrated colour touchscreen display of at least 4 inches or wider.</li> <li>2. Displays a real-time graphical representation of reaction parameters and internal temperature of each individual reaction vessel.</li> <li>3. Must be built-in/ detachable/ external controllers.</li> <li>4. Includes standard programs like EPA and ASTM methods and allows for user-defined program creation.</li> <li>5. Onboard storage to save and run a virtually unlimited number of methods, and web-based app for an extensive library of information, such as parts list, technical notes, user manuals, video tutorials, updated application notes, a complete library of relevant scientific articles and an online help section for user training and support.</li> <li>6. Features automatic power adjustment based on sample load, number of vessels, and pre-programmed control settings.</li> </ol>
5	Safety features	<ol style="list-style-type: none"> <li>1. Equipped with temperature sensors on the magnetron to protect against overheating from back-reflected microwave energy.</li> <li>2. Includes an advanced temperature sensor to monitor and display the internal temperature of all reaction vessels.</li> <li>3. No electronic plugs or sockets inside the cavity to prevent corrosion.</li> </ol>



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		4. Pressure control with a vent and reseal technology, avoiding the use of plastic or polymer springs due to temperature dependency.
6	Rotor	<ol style="list-style-type: none"> <li>The rotor should accommodate 15 or more high-pressure vessels simultaneously, constructed from Teflon coated aluminum or ceramic.</li> <li>Designed to withstand pressures up to 150 bar or higher, ensuring maximum safety and facilitating ultrafast cooling.</li> <li>Rotor should have minimum hold time of 45 minutes or more at maximum operating temperature.</li> <li>Comes with a lid to protect the cavity coating from acid vapors and fumes, prolonging system longevity.</li> </ol>
7	Temperature and Pressure specifications	<ol style="list-style-type: none"> <li>Maximum operating temperature of 240°C or more for complete digestion of even the most difficult samples (including the silicate rocks and ores with zircon, apatite, chromite, spinel, corundum, rutile and garnet).</li> <li>Maximum operating pressure of 80 bar or more for complete digestion of even the most difficult samples (including the silicate rocks and ores with zircon, apatite, chromite, spinel, corundum, rutile and garnet).</li> </ol> <p>Note. The supplier will have to demonstrate complete digestion of these tough minerals during the time of installation.</p>
8	Exhaust system	<ol style="list-style-type: none"> <li>Integrated high-performance exhaust system to remove fumes from the cavity chamber.</li> <li>Vessels must be cooled inside the oven.</li> </ol>
9	Accessories	<ol style="list-style-type: none"> <li>Must include necessary accessories for system operation.</li> <li>Should have options for future upgrades, such as microwave-assisted synthesis, high-pressure parallel synthesis from the same manufacturer.</li> <li>System should be supplied with a minimum of 20 vessels.</li> </ol>

10	Power requirements	1. 220-240 V and 50 Hz
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#### C. General conditions for ICP-MS and MDS

Sl. No.	Condition	Description
1	Warranty	<ol style="list-style-type: none"> <li>2 years warranty + 3 years AMC from the date of installation. The warranty should cover all the components of the instruments (including ICP-MS and MDS).</li> <li>In case of any breakdown in software and hardware, routine queries should be resolved within 24 hours and in person queries should be resolved within 72 hours.</li> </ol>
2	Safety features (ICP-MS)	<ol style="list-style-type: none"> <li>Safety interlocks for the plasma compartment door, water flow and exhaust airflow should be available.</li> <li>The window to see the plasma position should be well-shielded (UV shielding).</li> </ol>
3	Documentation required while quoting	<ol style="list-style-type: none"> <li>Published brochures of all the components should be provided.</li> <li>Details (including POs) of a minimum of 4 installations of the offered or previous model in the last five years at other academic or research institutions in India should be provided.</li> <li>Two performance satisfactory certificates from the laboratories where the offered or previous model has been installed should be provided for the last two years.</li> </ol>



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		<p>4. Copies of research publications within the field of Earth and Environmental Sciences from the offered or previous model in peer-reviewed scientific journals should be provided.</p> <p>5. Contact details of the service engineers should be provided.</p>
4	Documents required during the time of installation	<p>1. Both soft and hard copies of the user manual should be provided.</p> <p>2. A certificate of calibration and inspection should be provided.</p> <p>3. List of important spare parts and accessories with their part number to be provided.</p>
5	Installation and training	<p>1. The vendor must provide and enclose the complete pre-requirements for the successful installation of the instrument.</p> <p>2. The instrument with all its components should be installed and full functionality should be demonstrated at IISER Thiruvananthapuram.</p> <p>3. The mentioned accuracy and precision of the instrument must be demonstrated at the time of installation at IISER Thiruvananthapuram.</p> <p>4. A minimum of 5 days of on-site training should be provided to the users (lab staff and members) during the installation.</p>
6	A trained operator with relevant expertise/experience in analytical chemistry/geochemistry should be provided for two years.	
7	The IISER-appointed committee reserves the right to conduct site visits for demonstration of the quoted specifications on an existing instrument installed in India at any point in time during the tendering process/before the placement of the purchase order.	
8	Vendors must provide pre-installation requisites along with the tender clearly citing the space requirement/dimension of the individual modules.	

9	The vendor should have an ISO 9001 certification.	
10	Only the OEMs should participate in the tender or else their authorized dealers or representatives with an authorization letter or proof of supply from OEM should be included in the tender.	
11	The components of the offered model should be guaranteed to be made available for at least the next 10 years	
12	An undertaking from OEM is required stating that they would facilitate the bidder regularly with technology/product updates and extend support for the warranty as well.	

*Amar Sadath*  
27/6/23



## **Annexure 12**

### **CHECK LIST OF DOCUMENT REQUIRED**

<b><u>Ser</u></b>	<b><u>List of documents required</u></b>	<b><u>Enclosed Yes / No</u></b>
1.	EMD Details / MSME Certificate	
2.	Tender Acceptance Letter as per Annexure 7 of the tender document	
3.	Self- Certification of local content as per Annexure 8 of the tender document	
4.	Self-Certification regarding non-blacklisting as per Annexure 9 of tender document	
5.	Self-Certification regarding land border as per Annexure 10 of tender document	
6.	Integrity Pact	
7.	Technical Compliance statement with tender specifications	
8.	BoQ	
9.	Statutory Registration Certificates	
10.	Detailed Brochures, data sheets, catalogues etc supporting the compliance of specifications (if any)	
11.	Clientele list and details of TWO major installations in India (if any)	
12.	Previous purchase orders (if any)	
13.	Any other document as provided in technical specifications (if any)	

