

INDIAN INSTITUTE OF TECHNOLOGY MADRAS Chennai 600 036

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Date: 22.03.2024

The Senior Manager (Project Purchase)

Open Tender Reference No: ME/SATH/176/2024/PARAFLIEXP

GEM NAR ID: GEM/GARPTS/18032024/BBFV618U9OBC Due Date/Time: 11.04.2024@ 3:00 PM

Dear Sir/Madam,

On behalf of the Indian Institute of Technology Madras, digitally signed online bids are invited in two bid system from Class-I Local Suppliers and Class II Local Suppliers, for the supply of: "Parabolic Flight Experiments" Conforming to the specifications given in Annexure -A.

Tender Documents may be downloaded from Central Public Procurement Portal https://etenders.gov.in/eprocure/app. Aspiring Bidders who have not enrolled / registered in e-procurement should enroll / register before participating through the website https://etenders.gov.in/eprocure/app. The portal enrolment is free of cost. Bidders are advised to go through instructions provided at "Help for Vendors". [Special Instructions to the Vendors / Bidders for the e-submission of the bids online through this eProcurement Portal"]

Bidders can access tender documents on the website (For searching in the NIC site, kindly go to Tender Search option and type 'IIT Madras'. Thereafter, click on "GO" button to view all IIT Madras tenders). Select the appropriate tender and fill them with all relevant information and submit the completed tender document online on the website https://etenders.gov.in/eprocure/app as per the schedule attached.

<u>No manual bids will be accepted.</u> All tender documents including Technical and Financial bids should be submitted in the E-procurement portal.

1)	Pre-bid Meeting Details	:	If required will be intimated
2)	ICSR Vendor Registration	:	Vendor registration: Vendor registration with IC&SR (IITM) is mandatory for bidders to participate in tenders. ** For Vendor Registration & Guidelines, Please follow the website: https://icandsr.iitm.ac.in/vendorportal; Helpdesk: vendorhelpdesk@icsrpis.iitm.ac.in

Last date for receipt of tender	:	11.04.2024@ 3:00 PM
Date & time of opening of tender	:	12.04.2024@ 3:00 PM

3. Instructions to the Bidder:

A)	Searching for tender documents	:	• 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.	
			 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 Tender" 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. 	
			• 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.	
B)	Assistance to bidders	•	 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. 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 contact number for the helpdesk is [0120-4200462, 0120-4001002, 0120-4001005] 	
C)	Enrollment to Bidders Process	:	 Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal URL:https://etenders.gov.in/eprocure/app by clicking on "Online Bidder Enrollment". Enrollment on the CPP Portal is free of charge. As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts. 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. Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / TCS / nCode / eMudhra etc.) 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 DSCs to others which may lead to misuse. • Bidder then may log in to the site through the secured log-in by entering their user ID / password and the password of the DSC / eToken. • Possession of a Valid Class II/III Digital Signature Certificate (DSC) in the form of smart card/e-token in the company's name is a prerequisite for registration and participating in the bid submission activities through https://etenders.gov.in/eprocure/app • Digital Signature Certificates can be obtained from the authorized certifying agencies, details of which are available in the web site https://etenders.gov.in/eprocure/app under the "Information about DSC".
D)	Preparation of bids	• Bidder should take into account any corrigendum published on the tender document before submitting their bids.	
	• Pl do su wl do do		 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.
			 Bidder, in advance, should prepare the bid documents to be submitted as indicated in the tender document / schedule and generally shall be in PDF / XLS formats as the case may be. Bid documents may be scanned with 100 dpi with black and white option. 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, GSTIN Details, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Documents" area available to them to upload such documents. These documents may be directly submitted from the "My Documents" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.
E)	Submission of bids	:	Bidder should log into the site well in advance for bid submission so that he/she can upload the bid in time i.e. on or before the bid submission date and time. Bidder will be responsible for any delay due to other issues.
			The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
			Bidder has to select the bid security declaration. Otherwise, the tender will be summarily rejected.
			A standard BOQ format has been provided with the tender document to be filled by all the bidders. Bidders are requested to note that they should necessarily submit their financial bids in the 3 Page

		format provided and no other format is acceptable. Bidders are required to download the BOQ file, open it and complete the detail with their respective financial quotes and other details (such as name of the bidder). If the BOQ file is found to be modified by the bidder, the bid will be rejected.
		• 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.
		• The Tender Inviting Authority (TIA) will not be held responsible for any sort of delay or the difficulties faced during the submission of bids online by the bidders due to local issues.
		The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
		• Upon the successful and timely submission of bids, 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.
		 Kindly add scanned PDF of all relevant documents in a single PDF file of compliance sheet. More information useful for submitting online bids on the CPP Portal may be obtained at: https://etenders.gov.in/eprocure/app. All tender documents including pre-qualification bid, Technical Bid &Financial Bid should be submitted separately in online CPP portal as per the specified format only. Right is reserved to ignore any tender which fails to comply with the above instructions. No manual bid submission will be entertained.
F)	Marking on Technical Bid	The bidder eligibility criteria, technical specification and supply of item for this tender is given in Annexure A.
		The Bidders shall go through the specification and submit the technical bid.
		• The Technical bid should be submitted in the proforma as per Annexure-B in pdf format only through online (e-tender). No manual submission of bid will be entertained.
		• The technical bid should have a page-wise heading as "Technical Bid" and page no. in all pages with seal and signature of authorized signatory. The total no. of pages should be mentioned at the last page of the documents.
		The technical bid should consist of bidder eligibility criteria details and all technical details along with catalogue/ pamphlet which will give a detailed description of product with technical data sheet so that technical compliance can be verified.
G)	Marking on Price Bid	• Financial bid (BoQ) should be submitted in the prescribed proforma format as per Annexure-C in xls format through e-tender only. No manual or other form of submission of Financial Bid will be entertained

4) **Preparation of Tender**: The bidders should submit the bids in two bid system as detailed below.

Bid I Technical Bid

The technical bid should consist of bidder eligibility criteria and technical specification compliance sheet as per the **Technical Bid Proforma** (**Annexure-B**).

Bid II _Price Bid

The price bid should be submitted in the Tabular format (BoQ) as per the **Financial Bid Proforma** (**Annexure -C**) uploaded in the e-Tender web site. The Quoted price should be for supply and installation of the item and inclusive of all cost and statutory levies at IIT Madras.

5) Price:

- a) The rate quoted shall be all inclusive of all taxes and no extra payment will be made other than statutory revisions as per the terms and conditions stipulated in this contract document.
- b) The offer/bids should be submitted through online only in two bid system i.e. Technical Bid and Financial Bid separately.

6) Tenderer shall submit along with this tender:

- (i) Proof of having ISO or other equivalent certification given by appropriate authorities.
- (ii) Name and full address of the Banker and their swift code and PAN No. and GSTIN number.
- (iii) GST registration proof showing registration number, area of registration etc.
- (iv) All of your future correspondences including Invoices should bear the GST No. and Area Code.

7) Period for which the offer will remain open:

The offer shall remain valid for 120 days from the date of opening of the tender. However, the day up to which the offer is to remain valid being declared closed holiday for the Indian Institute of Technology Madras, the offer shall remain valid for acceptance till the next working day.

8) **EMD**:

The EMD of **Rs.4,00,000** to be transferred to the account details mentioned in Annexure H and proof should be enclosed in the Technical Bid. Any offer not accompanied with the EMD shall be rejected summarily as non-responsive.

As per rule no. 5.1.4 (vi) of the Manual of Procurement of Goods, no bid may be withdrawn in the interval between the deadline for submission of bids and the expiration of the period of bid validity. Withdrawal of a bid during this period will result in forfeiture of the bidder's bid security (EMD) and other sanctions.

The Institute shall not be liable for payment of any interest on EMD.

As per the Public Procurement Policy for MSEs, Order 2012 dated 25.03.2022, EMD is exempted for Micro and Small Enterprises (MSE) as defined in MSE Procurement Policy issued by the Department of Micro, Small and Medium Enterprises (MSME) and Startups as recognized by the Department of Industrial Policy & Promotion (DIPP). (MSE/MSME/DIPP PROOF should be enclosed in the cover containing the technical bid)

9) Performance Security: -

The successful bidder should submit Performance Security for an amount of 5% of the basic invoice value of the contract/supply. The Performance Security may be furnished in the form of an Insurance Surety Bond, Account Payee DD, FD Receipt in the name of "The Registrar, IIT Madras" from any scheduled commercial bank or Bank Guarantee from any scheduled commercial bank in India or online

payment in an acceptable form. The performance security should be furnished within 14 days from the date of the purchase order.

Performance Security in the form of Bank Guarantee: - In case the successful bidder wishes to submit Performance Security in the form of Bank Guarantee, the Bank Guarantee should be routed directly to IIT Madras from the Bank.

The Performance Security Deposit should remain valid for a period of sixty days beyond the date of completion of all contractual obligations.

- For the same tender, either the OEM or the authorized dealer/service provider can only quote. But both of them cannot quote separately for the same tender.
- The offers/bids should be submitted only for an item/Equipment of the exact standard that is acceptable to IIT Madras without Prejudice. The details of a list of customers in India for whom the item is already supplied with must accompany the quotations. Quotations for a prototype machine will not be accepted
- Original catalogue (not any photocopy) of the quoted model duly signed by the principals must accompany the quotation in the technical bid.
- Compliance or Confirmation report with reference to the specifications and other terms & conditions should also be obtained from the principal/OEM.

14) Risk Purchase Clause

In the event of failure of contractual obligation during the schedule, the Office of Industrial Consultancy and Sponsored Research, Indian Institute of Technology Madras has all the right to engage other sources on the total risk of the sanctioned vendor under risk purchase clause.

15) Payment:

- (i) As per GFR 2017 Terms: 90% Payment after supply and 10% after installation are agreed to wherever the installation is involved.
- (ii) Advance Payment: No advance payment is generally admissible. In case a specific percentage of advance payment (not more than 30%) is required, the Vendor has to submit a Bank Guarantee from a scheduled commercial bank in India equivalent to the amount of advance payment.

16) Acceptance and Rejection:

Failure to comply with any of the instructions stated in this document or offering unsatisfactory explanations for non-compliance will likely to lead to rejection of offers.

I.I.T. Madras has the right to accept the whole or any part of the Tender or portion of the quantity offered or reject it in full without assigning any reason.

17) Debarment from Bidding:

In case of breach of Terms & Conditions, Bidder may be suspended from being eligible for bidding in any contract with the IIT Madras up to 2 Years [as per Rule 151(iii) of GFR] from the date as fixed by IIT Madras.

18) Disputes and Jurisdiction:

Settlement of Disputes: Any dispute, controversy or claim arising out of or in connection with this PO including any question regarding its existence, validity, breach or termination, shall in the first instance be attempted to be resolved amicably by both the Parties. If attempts for such amicable resolution fails or no decision is reached within 30 days whichever is earlier, then such disputes shall be settled by arbitration in accordance with the Arbitration and Conciliation Act, 1996. Unless the Parties agree on a sole arbitrator, within 30 days from the receipt of a written request by one Party from the other Party to so agree, the arbitral panel shall comprise of three arbitrators. In that event, the supplier will nominate

one arbitrator and the Project Coordinator of IITM shall nominate on arbitrator. The Dean IC&SR will nominate the Presiding Arbitrator of the arbitral tribunal. The arbitration proceeding shall be carried out in English language. The cost of arbitration and fees of the arbitrator(s) shall be shared equally by the Parties. The seat of arbitration shall be at IC&SR IIT Madras, Chennai.

- a. **The Applicable Law:** The Purchase Order shall be construed, interpreted and governed by the Laws of India. Court at Chennai shall have exclusive jurisdiction subject to the arbitration clause.
- b. Any legal disputes arising out of any breach of contact pertaining to this tender shall be settled in the court of competent jurisdiction located within the city of Chennai in Tamil Nadu.
- **Force Majeure:** The Supplier shall not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that, it's delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

For purposes of this Clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not limited to, acts of the Purchaser either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.

If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such conditions and the cause thereof. 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.

20) Eligibility Criteria:

- > As per the Government of India Order, only "Class I Local Suppliers" and "Class II Local Suppliers" can participate in this tender.
- Bidder should confirm their acceptance that they comply with the provisions with report to "Guidelines for eligibility of a bidder from a country which shares a land border with India as detailed at Annexure-E. The bidder should submit Certificate for "Bidder from/
 Not from Country sharing Land border with India & Registration of Bidder with Competent Authority" as per Order of DoE F.No.6/18/2019-PPD dated 23.07.2020 and No.F.7/10/2021-PPD(1) dated 23.02.2023 and No.F.7/10/2021-PPD(1) dated 23.02.2023.
- Preference to "class I Local Suppliers": preference will be given to "class 1 local suppliers" (subject to class -I local supplier's quoted price falling within the margin of purchase preference) as per public procurement (preference to make in India) order 2017 .O.M No P- 45021/2/2017 pp(BE 11) dt 04/06/2020 subject to the conditions that the "class 1 Local Supplier" should agree to supply goods / provide service at L1 rate and furnish a certificate with the technical bid document that the goods/service provided by them consists local content equal to or more than 50%.(certificate from Chartered Accountant in case value of contract exceeds Rs 10 crore).
 - > 'Class I local supplier' means a supplier or service provider whose goods, services or works offered for procurement consists of local content equal to or more than 50% as defined under the above said order. Declaration to be provided as per Annexure-D per item/service/work.
 - > 'Class II local supplier' means a supplier or service provider whose goods, services or works offered for procurement consists of local content equal to 20% but less than 50% as defined under the above said order. Declaration to be provided as per Annexure-D per item/service/work.
 - Margin of purchase preference': The margin of purchase preference shall be 20%. The Definition of the margin of purchase preference is defined in the Govt. of India Order No: P-45021/12/2017-PP (BE-II) Dt.4th June, 2020) Order 2017. As per the Government of India

Order - "Margin of Purchase Preference" means the maximum extent to which the price quoted by a "Class-I local supplier" may be above the L1 for the purpose of purchase preference. **Note: Local content percentage to be calculated in accordance with the definition provided at clause 2 of revised public procurement preference to Make in India Policy vide GoI Order no. P-45021/2/2017-PP (B.E.-II) dated 15.06.2017 (subsequently revised vide orders dated 28.05.2018, 29.05.2019and 04.06.2020) MOCI order No. 45021/2/2017-PP (BE II) Dt.16th September 2020 & P-45021/102/2019-BE-II-Part(1) (E-50310) Dt.4th March 2021 **Evaluation of Bids** 22) Bid evaluation will take place in two stages. **Stage I Technical Bid evaluation** All bids received within due date and time will be opened for technical evaluation as per scheduled time. All bidders who have fully complied with bidder eligibility criteria I, II and technical Specification (Annexure B) will only be considered for opening of financial bid. **Stage II: Financial Bid Evaluation** The Financial bid evaluation will be based on price quoted by the bidder. The rate quoted for Parabolic Flight Experiments unit will alone be taken up for arrival of Lowest Bid (L1) value. In accordance to the Rule 173 of GFR,2017 and relevant provisions thereof in Procurement Manuals, 23) 2022, IC&SR, IITM reserves the right to carry out the negotiation process through its purchase/technical committee with L1/H1 (as applicable) vendor to ensure price reasonability before final recommendation to the Competent Authority. The negotiation details, if any, on case-to-case basis shall be recorded in minutes of meetings suitably for records. Selection of successful bidder and Award of Order 24) The order will be directly awarded to the technically qualified bidder as per the condition in para 3A of DIPP, MoCI Order No. 45021/2/2017-PP (BE II) dated 16th September 2020. All information including selection and rejection of technical or financial bids of the prospective bidders 25) will be communicated through e-Tender portal. In terms of Rule 173(iv) of General Financial Rule 2017, the bidder shall be at liberty to question the bidding conditions, bidding process and/or rejection of bids. The tenderer shall certify that the tender document submitted by him / her are of the same replica of the **26**) tender document as published by IIT Madras and no corrections, additions and alterations made to the same. If any deviation found in the same at any stage and date, the bid / contract will be rejected / terminated and actions will be initiated as per the terms and conditions of the contract. Clarification to the queries and doubts raised by the bidders will be issued as a corrigendum/addendum **27**) in the e-tenders portal. In the e-tender process, participation of bidders after the due date is not possible. The eligible bidders can 28) login to the e-Procurement portal to ascertain the tender status.

ACKNOWLEDGEMENT

It is hereby acknowledged that I/We have gone through all the points listed under "Specification, Guidelines, Terms and Conditions" of tender document. I/We totally understand the terms and conditions and agree to abide by the same.

SIGNATURE OF TENDERER ALONG WITH SEAL OF THE COMPANY WITH DATE

Bidder Eligibility Criteria and Technical Specification for Parabolic Flight Experiments Tender No. ME/SATH/176/2024/PARAFLIEXP

Bidder Eligibility Criteria – I (Public Procurement – Preference to Make in India)

Only 'Class-I local suppliers' and 'Class-II local suppliers', as defined under DIPP, MoCI Order No. P-45021/2/2017-PP (BE-II) dated 16th September 2020 and other subsequent orders issued therein (ANNEXURE – D)

Bidder Eligibility Criteria – II

- 1. Vendor Registration ID/Proof.
- 2. Land Border Certificate (ANNEXURE E)
- 3. Non- Debarment Declaration (ANNEXURE G)
- 4. Mandate Form (ANNEXURE I)
- 5. EMD as per Tender, to be remitted in the account number as given in the (**Annexure H**) or EMD is exempted for Micro and Small Enterprises (MSE) as defined in MSE Procurement Policy issued by Department of Micro, Small and Medium Enterprises (MSME) and Startups as recognized by Department of Industrial Policy & Promotion (DIPP). (MSE/MSME/DIPP PROOF should be enclosed in the cover containing technical bid).

III. Technical Specification for Parabolic Flight Experiments

A parabolic flight maneuver is a distinctive aerial trajectory, typically carried out by adapted aircraft or purpose-built planes, to attain reduced gravity conditions. This enables scientists to perform experiments in a weightless environment. During the flight, the aircraft follows a series of parabolic arcs, sharply ascending and then descending, inducing temporary weightlessness or reduced gravity (commonly known as "free fall") for both passengers and experiments within the cabin.

S. No	Details	Requirements
1	Number of flight campaigns	2
2	Number of flights per campaign	2
3	Number of parabolas in each flight	30 ± 3
4	Quality of microgravity	10 ⁻² g to 10 ⁻¹ g or better level of microgravity
5	Lunar and Martian reduced gravity	
6	Payload layout dimensions	3 m x 3 m
7	Height of the experimental setup	0.5 m

8	Weight of total experimental setup	150 kg (maximum)
9	Number of on-board passengers	5
10	Gas supply	Source from the aircraft's gas supply (Argon gas 99.999%) or allowing the researchers to carry Argon cylinders inside the flight.
11	Aircraft power	 Minimum power of 4kW or higher upon request. Availability of both 3-phase power supply and single-phase power supply
12	Exhaust system for gases	Required
13	Equipment possibly to be used	 A hybrid additive manufacturing configuration incorporating an infrared (IR) laser-based metal deposition system with a adjustable power (0.1 kW to 2kW). Additionally, it features a newly developed subtractive process for excess material removal. The setup includes chillers, a chip collection system, a 3-axis CNC, and a metrology system, among other components. Ultrasonic viscosity measurement set-up with variation in temperature, heating system, oscilloscope, wave function generator, argon gas inlet, air-tight chamber with exhaust port, other sensors and DAQ systems. Quenching of glass melt in various cooling rate and magnetic field conditions. Heating of ZBLAN glass in various magnetic fields.
14	Personal flight suit and safety gears	Required
15	Foot strap	Required
16	Cabin-camera recording of the experimental area, apart from the cameras used by the researchers	Required
17	Technical support by the company for design modifications for complying with safety standards	Required

	Requirement- Flight Campaign Planning
1	The specific dates for the two flight campaigns will be determined following initial discussions concerning design and safety measures with the company offering parabolic flight services. Booking will be made initially to secure availability for the 2 flight campaigns.
2	The flight provider should have the autonomy to allocate experiment slots without requiring approval from other space agencies, thus preventing delays in obtaining permissions and ensuring convenient scheduling for experimenters.

TECHNICAL BID PROFORMA

Tender No. ME/SATH/176/2024/PARAFLIEXP Item Name: Parabolic Flight Experiments

1.0 Bidder Eligibility Criteria:

I	Bidder Eligibility Criteria-I (Public Procurement – Preference to Make in India)	Class I / Class II	Local Content Percentage	Ref. Page No.
I	Only 'Class-I local suppliers' and 'Class-II local suppliers', as defined under DIPP, MoCI Order No. P-45021/2/2017-PP (BE II) dated 16 th September 2020 and other subsequent orders issued therein (ANNEXURE – D)			

2.0 Bidder Eligibility Criteria:

II	Bidder Eligibility Criteria-II	Complied/Not Complied	Ref Page No.
1	Vendor Registration ID/Proof		
2	Land Border Certificate (ANNEXURE – E)		
3	Non- Debarment Declaration (ANNEXURE – G).		
4	Mandate Form (ANNEXURE – I)		
5	EMD as per Tender, to be remitted in the account number as given in the (Annexure – H) or EMD is exempted for Micro and Small Enterprises (MSE) as defined in MSE Procurement Policy issued by Department of Micro, Small and Medium Enterprises (MSME) and Startups as recognized by Department of Industrial Policy & Promotion (DIPP). (MSE/MSME/DIPP PROOF should be enclosed in the cover containing technical bid).		

3.0 Technical Compliance:

A parabolic flight maneuver is a distinctive aerial trajectory, typically carried out by adapted aircraft or purpose-built planes, to attain reduced gravity conditions. This enables scientists to perform experiments in a weightless environment. During the flight, the aircraft follows a series of parabolic arcs, sharply ascending and then descending, inducing temporary weightlessness or reduced gravity (commonly known as "free fall") for both passengers and experiments within the cabin.

S. No	Details	Requirements	Complied/Not Complied	Ref Page No.
1	Number of flight campaigns	2		
2	Number of flights per campaign	2		
3	Number of parabolas in each flight	30 ± 3		
4		10 ⁻² g to 10 ⁻¹ g or better level of microgravity		
5	Lunar and Martian reduc	ed gravity		
6	Payload layout dimensions	3 m x 3 m		
7	Height of the experimental setup	0.5 m		
8	Weight of total experimental setup	150 kg (maximum)		
9	Number of on-board passengers	5		
10	Gas supply	Source from the aircraft's gas supply (Argon gas 99.999%) or allowing the researchers to carry Argon cylinders inside the flight.		
11	Aircraft power	 Minimum power of 4kW or higher upon request. Availability of both 3-phase power supply and single-phase power supply 		

12	Exhaust system for gases	Required	
13	Equipment possibly to be used	 A hybrid additive manufacturing configuration incorporating an infrared (IR) laser-based metal deposition system with a adjustable power (0.1 kW to 2kW). Additionally, it features a newly developed subtractive process for excess material removal. The setup includes chillers, a chip collection system, a 3-axis CNC, and a metrology system, among other components. Ultrasonic viscosity measurement set-up with variation in temperature, heating system, oscilloscope, wave function generator, argon gas inlet, air-tight chamber with exhaust port, other sensors and DAQ systems. Quenching of glass melt in various cooling rate and magnetic field conditions. Heating of ZBLAN glass in various magnetic fields. 	
14	Personal flight suit and safety gears	Required	
15	Foot strap	Required	
16	Cabin-camera recording of the experimental area, apart from the cameras used by the researchers	Required	
17	Technical support by the company for design modifications for complying with safety standards	Required	

	Requirement- Flight Campaign Planning	
1	The specific dates for the two flight campaigns will be determined following initial discussions concerning design and safety measures with the company offering parabolic flight services. Booking will be made initially to secure availability for the 2 flight campaigns.	
2	The flight provider should have the autonomy to allocate experiment slots without requiring approval from other space agencies, thus preventing delays in obtaining permissions and ensuring convenient scheduling for experimenters.	

(Note: It is mandatory for the bidders to provide the compliance statement (Complied/Not Complied) for the above points with document proof as required). If the compliance statement (Complied/Not Complied) is not furnished for the evaluation Bidders will be disqualified.

SIGNATURE OF BIDDER ALONG WITH SEAL OF THE COMPANY WITH DATE

FINANCIAL BID (PROFORMA) - BILL OF QUANTITIES (BOQ)

Item Name: Parabolic Flight Experiments Tender No. ME/SATH/176/2024/PARAFLIEXP

It. No	Description of work	Quantity	Units	Basic Rate in INR	GST in Percentage	Total Amount with taxes in INR
1	Parabolic Flight Experiments	1	No.			
	Grand Total					

Total A	amount Rupees in words
Note: 1.	Price bid as per this format to be uploaded only at the financial document column in CPP Portal. Price disclosure at the technical bid will result in disqualification.
2.	Technical Bid Should NOT Contain Price Bid/Financial Bid details (or) Indication. If the price Details are indicated, mentioned inside the technical bid, then bid will be disqualified and neither the Technical Bid nor the Price Bid/Financial Bid will be considered.
I/We th	ne bidder accept all the terms and conditions as per tender including all technical & commercial ons.
Date: Place:	Authorized Signatory () Seal and signature

FORMAT FOR AFFIDAVIT OF SELF-CERTIFICATION UNDER PREFERENCE TO MAKE IN INDIA – PER ITEM

Tender Reference Number:
Name of the item / Service:
Date: I/WeS/o, D/o, W/o, Resident of
Hereby solemnly affirm and declare as under:
That I will agree to abide by the terms and conditions of the Public Procurement (Preference to Make in India) Policy vide GoI Order no. P-45021/2/2017-PP (B.EII) dated 15.06.2017 (subsequently revised vide orders dated 28.05.2018, 29.05.2019and 04.06.2020) MOCI order No. 45021/2/2017-PP (BE II) Dt.16th September 2020 & P- 45021/102/2019-BE-II-Part (1) (E-50310) Dt.4th March 2021 and any subsequent modifications/Amendments, if any and
That the local content for all inputs which constitute the said item/service/work has been verified by me and I am responsible for the correctness of the claims made therein.
Tick (✓) and Fill the Appropriate Category
I/We[name of the supplier] hereby confirm in respect of quoted items thatLocal Content is equal to or more than 50% and come under "Class-I Local Supplier" category.
I/We [name of the supplier] hereby confirm in respect of quoted items
that Local Content is equal to 20% but less than 50% and come under "Class-II Local Supplier" category.
• The details of the location (s) at which the local value addition is made and the proportionate value of
local content in percentage
Address Percentage of Local content:% Country of Origin of Goods:
Country of Origin of Goods
For and on behalf of(Name of firm/entity)
Authorized signatory (To be duly authorized by the Board of Directors) <insert and="" contact="" designation="" name,="" no.=""></insert>
[Note: In case of procurement for a value in excess of Rs. 10 Crores, the bidders shall provide this certificate from statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.]

This letter should be on the letterhead of the quoting firm and should be signed by a competent authority. Non-submission of this will lead to Disqualification of bids.

Land Border Sharing Declaration

(To be given on the letter head of the bidder)

In-line with Department of Expenditure's (DoE) Public Procurement Division Order vide ref. $F. No. 6/18/2019-PPD\ dated\ 23.07.2020\ \&\ 24.7.2020$

Tender No	Dated:		
CERTII	FICATE		
(Bidders f	rom India)		
"I/ we have read the clauses pertaining to Departm Division Order (Public procurement no 1, 2 & 3 vide 24.7.2020) regarding restrictions on procurement to border with India. I/We hereby certify that I/ we a) Not from such a country and eligible to be considered.	e ref. F.No.6/18/2019-PPD dated 23.07.2020 & From a bidder of a country which shares a land (Name of the bidder) is/are		
o	R		
(Bidders from Country which s	hares a land border with India)		
I/We (Name of the bidder) is Country) and has been registered with the Comprequirements in this regard and is eligible to be con Competent Authority is to be attached)	petent Authority. I also certify that I fulfil all the		
Place: Date:	Signature of the Bidder Name & Address of the Bidder with Office Stamp		

<u>TENDER CHECKLIST – Mandatory to be filled and sent (inside the Main Bid Cover) along with Bidding Document.</u>

(1) I have registered as a Vendor with IC&SR. (Proof to be enclosed) To submit document proof pertaining to point.no: 6 of tender ISO certificate, Active GSTIN certificate, valid PAN details.	
(2) Technical Bid details and Financial Bid details have to be provided in a separate folder	
(3) Completed and Signed Form of Tender. The Form of Tender document shall be signed by a person legally authorized. (Proof of Authorization to be enclosed)	
(4) Completed Technical Compliance Statement	
(5) Certification of Class I / Class II Local Supplier (Goods, Services, or Works) is submitted as part of the technical bid. (Annexure – D)	
(6) EMD as per tender norms is deposited and the proof is enclosed (Annexure – H)	
(7) Land Border sharing declaration document is submitted (Annexure – E)	
(8) Non- Debarment Declaration (Annexure – G)	
The bid will be valid if all the above documents are provided. Bidders are asked to supply and tick off the required information. Failure to provide any of the stated documents as per tender norms may result in the bid being	

considered non-compliant and rejected.

Signature of the Bidder

FORM - A NON- DEBARMENT DECLARATION

Date: XXXX

To,

The Indian Institute of Technology Madras,

Sardar Patel road,

Guindy, Chennai - 600036

Dear Sir,

- a. We are not involved in any major litigation that may have an impact of affecting or compromising the delivery of services as required under this assignment.
- b. We are not debarred by any Central/ State Government/ agency of Central/ State Government of India or any other country in the world/ Public Sector Undertaking/ any Regulatory Authorities in India or any other country in the world for any kind of fraudulent activities in last XX years.

Sincerely,

[BIDDERS NAME]

Name

Title Signature



CENTRE FOR INDUSTRIAL CONSULTANCY & SPONSORED RESEARCH (IC&SR) INDIAN INSTITUTE OF TECHNOLOGY MADRAS **CHENNAI 600 036**



ELECTRONIC CLEARING SERVICE (Credit Clearing)/ REAL TIME GROSS SETTLEMENT (RTGS) FACILITY FOR RECEIVING PAYMENTS

A. Details of Account Holder

Name of the Institution	Indian Institute of Technology - Madras
Complete Contact Address	Industrial Consultancy and Sponsored Research Indian Institute of Technology-Madras, IIT- Madras Campus Post Office, Sardar Patel Road, Guindy, CHENNAI - 600 036
Permanent Account Number	, ·
(PAN)*	AAAAI3615G
GST REGISTERATION NO.	33AAAAI3615G1Z6
Telephone No./ Fax No.	Tel - 044-2257 8356
E- mail ID of the FO/AO/REG/DIR	dricsr@iitm.ac.in

B. Bank Account Details:

Institution Account Name (As per Bank	The Registrar, Indian Institute of
Record)	Technology - Madras
Account No.	2722101003872
IFSC CODE	CNRB0002722
SWIFT CODE	CNRBINBBIIT
Bank Name (in full)	Canara Bank
Branch Name	IIT-Madras Branch
Complete Branch Address	Canara Bank,
	IIT-Madras Branch,
	IIT- Madras Campus Post Office,
	Sardar Patel Road,
	Guindy, CHENNAI - 600 036
MICR No.	600015085
Account Type	Savings Account

Certified that the Institute's account is in an RTGS enabled branch. I hereby declare that the particulars given above are correct and complete.

Date: 04/08/2023

कृते केनरा बैक / For CANARA BANK Bami

প্রাথকার / Officer প্রর্ত্ত প্রত্ত বিদ্দার্থ গাস্তা / IIT Chennai Branch প্রদায় / Chennai - 600 036

कराचिन लेमिना.म M. KAROLINE LEMINA अधिकारी OFFICER S.P. No:64356

Signature of the Competent Authority of the Institution with seal.

> उप कुलसचिव (आईसी एवं एसआर) **DEPUTY REGISTRAR (IC & SR)** आईआईटी मदास आर्जीं।...T. MADRAS

Phone: +91 (0) 44 2257 8062 / 8061 / 8060 Fax: +91 (0) 44 2257 0545 / 2257 8366 email: deanicsr@iitm.ac.in

website : http://www.iitm.ac.in

MANDATE FORM

ELECTRONICS CLEARING SERVICE (CREDIT CLEARING)/REAL TIME GROSS SETTLEMENT (RTGS) FACILITY FOR RECEIVING PAYMENTS.

NAME OF ACCOUNT HOLDER	
COMPLETE CONTACT ADDRESS	
TELEPHONE NUMBER/E MAIL	
BANK ACCOUNT DETAILS: -	-
BANK NAME	
BRANCH NAME WITH COMPLETE ADDRESS, TELEPHONE NUMBER AND EMAIL	
WHETHER THE BRANCH IS COMPUTERISED?	
WHETHER THE BRANCH IS RTGS ENABLED? IF YES, THEN WHAT IS THE BRANCH IFSC CODE	
IS THE BRANCH ALSO NEFT ENABLED?	
TYPE OF BANK ACCOUNT(SB/CURRENT/CASH CREDIT)	
COMPLETE BANK ACCOUNT NUMBER(LATEST)	
MICR CODE OF BANK	
DATE OF EFFECT: I hereby declare that the particulars given above are cordelayed or not effected at all for reasons of incomplete or user institution responsible. I have read the option invita	incorrect information I would not he tion letter and agree to discharge the
DATE OF EFFECT: I hereby declare that the particulars given above are cordelayed or not effected at all for reasons of incomplete or user institution responsible. I have read the option invita	incorrect information I would not he tion letter and agree to discharge the
DATE OF EFFECT: I hereby declare that the particulars given above are cordelayed or not effected at all for reasons of incomplete or user institution responsible. I have read the option invita responsibility expected of me as a participant under the State: Date: Certified that the particulars furnished above are correct	incorrect information I would not he tion letter and agree to discharge the scheme. (
DATE OF EFFECT: I hereby declare that the particulars given above are condelayed or not effected at all for reasons of incomplete or user institution responsible. I have read the option invita responsibility expected of me as a participant under the S	incorrect information I would not he tion letter and agree to discharge the scheme. (

2. In case your Bank Branch is presently not "RTGS enabled", then upon its upgradation to "RTGS Enabled" branch, please submit the information again in the above pro-forma to the Department at the earliest.