

भारत सरकार/Government of India
अंतरिक्ष विभाग /Department of Space
इसरो जड़त्वीय प्रणाली यूनिट/ISRO INERTIAL SYSTEMS UNIT
वट्टियूरकाव/Vattiyoorakavu
तिरुवनंतपुरम/Thiruvananthapuram – 695 013

आईआईएसयू/सा.नि./विज्ञापन-160/2025 दिनांक 04/05/2025
ADVT.NO.IISU/PT/ADVT-160/2025 dated 04/05/2025

भारत के राष्ट्रपति के लिए तथा उनकी ओर से निम्नलिखित मद के लिए वरिष्ठ क्रय एवं भंडार अधिकारी, इसरो जड़त्वीय प्रणाली यूनिट (आई आई एस यू), वट्टियूरकाव पी. ओ., तिरुवनंतपुरम, मोहरबंद निविदाएँ आमंत्रित करते हैं:-

For and on behalf of the President of India, the Senior Purchase & Stores Officer, ISRO Inertial Systems Unit (IISU) Vattiyoorakavu, Thiruvananthapuram invites Sealed Tenders for the following item:-

क्रम सं. / Sl. No.	निविदा सं. / Tender No.	विवरण / Description	मात्रा / Qty.	बयाना जमा राशि / EMD
1.	8625 2024004274 दो भाग/Two Part	धातु 3डी मुद्रण के लिए दर संविदा/ Rate Contract for Metal 3D printing	01 unit	निविदा दस्तावेजों का संदर्भ लें / Refer Tender documents
2.	8625 2024004281 दो भाग/Two Part	सामान्य वर्तन, सीएनसी वर्तन, पेक्षण, जिग बोरिंग, परिशुद्ध फिटिंग, सामान्य फिटिंग आदि और विमीय निरीक्षण के लिए मानव/मशीन घंटे वार संविरचन दर संविदा / Man/Machine hour wise fabrication rate contract for general turning, CNC turning, milling, jig boring, precision fitting, general fitting etc and dimensional inspection.	01 lot	
नोट:- विनिर्देशन तथा विस्तृत निबंधन एवं शर्तें निविदा दस्तावेज के अनुसार / Note :- Specification and detailed terms & conditions as per Tender document				

निविदा शुल्क / Tender Fee	Rs. 560/- प्रति निविदा/ per tender
निविदा स्वीकृति के लिए नियत तिथि / Due Date for Receipt of Tender	02/07/2025 बजे तक/ up to. 14.00 hrs.
निविदा खोलने की तिथि / Tender Opening Date	03/07/2025 बजे तक / up to 10.00 hrs.

इसरो वेब साईट www.isro.gov.in पर निविदा दस्तावेज़ उपलब्ध है। इच्छुक निविदाकार, वेब साईट से निविदा दस्तावेज़ डाउनलोड करें और निविदा सूचना में दिए गए विवरण के अनुसार, वरिष्ठ लेखा अधिकारी, आईआईएसयू लेखा, वट्टियूरकाव पी.ओ., तिरुवनंतपुरम - 695013 के नाम पर भारतीय स्टेट बैंक, नेट्टयम शाखा, तिरुवनंतपुरम में देय, रेखित डिमांड ड्राफ्ट के रूप में निर्धारित निविदा लागत के साथ अपना प्रस्ताव प्रस्तुत करें।

Tender document is available at ISRO web site www.isro.gov.in. Interested tenderers may, download the tender document from the web site and submit their offers alongwith the prescribed tender cost in the form of CROSSED DEMAND DRAFT drawn in favour of Sr. Accounts Officer, IISU Accounts, Vattiyoorakavu P.O, Thiruvnanthapuram-695013 payable at State Bank of India, Nettayam Branch, Trivandrum – 695 013 as per details given in the Tender Notification.

हस्ताक्षरित/Sd/-
वरिष्ठ क्रय एवं भंडार अधिकारी/Sr. Purchase & Stores Officer
फोन/Phone No.0471-2569317
ई-मेल/Email: spso_iisu_pur@vssc.gov.in

भारत सरकार अंतरिक्ष विभाग (अं.वि.) विक्रम साराभाई अंतरिक्ष केंद्र तिरुवनंतपुरम 695013 आइआइएसयू क्रय, वट्टियूरकाव पीओ फोन नं Ph No. 0471-2569317/2569377 / Fax. 0471-2361813 / ईमेल e-mail:		 GOVERNMENT OF INDIA DEPARTMENT OF SPACE (DOS) ISRO INERTIAL SYSTEMS UNIT THIRUVANANTHAPURAM 695013 IISU PURCHASE, VATTIYOORKAVU PO	
निविदा आमंत्रण INVITATION TO TENDER			
मैसर्स M/s	00000	हमारी संदर्भ सं Our Ref. No.	8625 2024-004274-01
		निविदा अंतिम तिथि Tender Due at	16:00 hrs IST on 26/06/2025
महोदय Dear Sirs, कृपया निम्नलिखित मदों की आपूर्ति के लिए अनुलग्नक (फार्म सं. संलग्न) में उल्लिखित निबंधन एवं शर्तों के अनुसार संलग्न निविदा प्रपत्र में वर्णनात्मक सूचीपत्र/पैम्फलेट/साहित्य सहित हमारी संदर्भ सं. एवं अंतिम तिथि (मोटे अक्षरों में) ऊपर लिखते हुए अपनी मुहरबंद निविदा प्रस्तुत करें। Please submit your sealed quotation , in the Tender Form enclosed here along with the descriptive catalogues /pamphlets /literature ,superscribed with Our Ref.No. and Due Date for the supply of the following items as per the terms & conditions mentioned in Annexure(Form No. DOS:PM:FORM 21 ENCLOSED)			
क्र.सं. Sl. No.	विनिर्देशों सहित मद का विवरण Description of Items with Specifications	इकाई Unit	मात्रा Quantity
1	Rate contract for Metal 3D Printing for two years	1	1
सुपुर्दगी स्थल Delivery At IISU STORES प्रेषण की विधि Mode of Despatch ON SITE शुल्क छूट Duty Exemptions -- विशेष अनुदेश Special Instructions AS PER ENCLOSURE विशेष निबंधन Specific Terms DOS:PM:FORM 21 ENCLOSED निविदाकारों को अनुदेश Instructions to Tenderers			
(1) Scope of work and period of rate contract as per Annexure-I (2) Price Bid format for three years as per Annexure-II (3) Compliance sheet as per Annexure-III (4) Technical offer shall contain the details of facilities, filled compliance sheet, acceptance of terms & condition provided in annexure-I, without price details. (5) Price offer shall contain the man/machine hour of every operation for every year in the table given in Annexure-II (6) THIS IS A TWO PART TENDER, TECHNICAL & COMMERCIAL PART (PART-I) AND PRICE PART (PART-II) SHALL BE SUBMITTED SEPARATELY. THE TENDERERS SHOULD NOT ATTACH ANY DOCUMENTS CONTAINING PRICING INFORMATION ALONG WITH TECHNICAL & COMMERCIAL BID (PART-I). (7) THE TECHNICAL AND COMMERCIAL BID AND THE PRICE BID ARE TO BE PUT IN SEPARATE SEALED COVERS AND THEY SHOULD BE PUT INTO A SINGLE ENVELOPE SUPERSCRIBED WITH THE TENDER NUMBER, DUE DATE AND TIME. TECHNICAL BID CONTAINING PRICE DETAILS WILL BE TREATED AS REJECTED (8) Please submit your quotation in a sealed envelope only superscribing the enquiry number and date of opening. Fax or e-mail quotations will not be considered.			

Rate Contract for Metal 3D Printing of IISU Hardware

Formation of Rate Contract for Metal 3D printing and associated post processing operations of IISU hardware

1. SCOPE OF WORK

Following activities are identified under the rate contract:

- 1.1 Study of the model and drawing provided by IISU for 3D printing.
- 1.2 Optimize build orientation and support structure for hardware.
- 1.3 Metal 3D printing of hardware along with coupons as prescribed in the purchase order (PO) using requested powder procured from approved vendor, after optimizing the part build orientation and support structure through laser powder bed fusion (LPBF) route.
- 1.4 Stress Relieving (Heat treatment), Part removal, cleaning and sand blasting as provided in PO.
- 1.5 Post machining of hardware to machine all required features as per drawing, if required by the PO.
- 1.6 Dimensional inspection and 3D scanning, as per requirement.
- 1.7 Coupon and hardware level testing.
- 1.8 Dispatch of printed hardware along with coupons to IISU.
- 1.9 Acceptance of the received hardware is subjected to meeting the mentioned requirements as given in PO.

2. PRE-REQUISITE OF THE PARTY

- 2.1 Party must be a qualified vendor of IISU or any other ISRO centres who is executing 3D printing operations successfully.
- 2.2 Party must comply that their facility is under regular quality/vendor audit by IISU or any other ISRO centre's quality team without any non-conformance.
- 2.3 Party shall have following machines/facility:
 - 2.3.1 3D printer Laser Powder Bed Fusion type with maximum job size 250x250x300 mm printing provision.
 - 2.3.2 3D printer Laser Powder Bed Fusion type with maximum job size 400x400x400 mm printing provision.

- 2.3.3 Heat Treatment facility (Stress relieving) up to temperature range of 400⁰ C.
- 2.3.4 Sand Blasting facility.
- 2.3.5 CNC turning facility with spindle accuracy of 5 microns or better.
- 2.3.6 CNC Milling facility with positional accuracy within 20 microns.
- 2.3.7 CNC Wire EDM facility with positional accuracy less than 10 microns.
- 2.3.8 CNC EDM facility with positional accuracy less than 10 microns.
- 2.3.9 Dimension and geometrical measuring facility with an accuracy of 0.005 mm.
- 2.3.10 3D scanning machine for dimensional inspection with accuracy level of less than 50 microns.
- 2.3.11 Testing facility such as radiography, tensile, chemical analysis, microstructure, hardness, & part density facility.
- 2.4 Parties can participate in tendering as per the facilities available with them as given in point no. 2.3. However, parties shall essentially have the facilities either 2.3.1 or 2.3.2, and 2.3.3 to 2.3.4 within their site. Other facilities from 2.3.5 to 2.3.10 can either be available with party or it can be outsourced to ISRO qualified vendors.
- 2.5 Facilities as given in 2.3.11 have to be a NABL approved facility. Party shall have these facilities either within their site or it can be outsourced.

3. VENDOR SELECTION

- 3.1. Party can quote as per the facility available with them.
- 3.2 IISU reserve the right to award the rate contract order to eligible parties for all operation or subset of the operation as per the available facility for a period of 2 years plus one-year extension, if needed.

4. PERIOD OF RATE CONTRACT:

This Rate Contract shall be valid for a period of 2 years and may be extended to third year, if needed. However, IISU reserves the right to extend the Rate Contract at mutually agreed terms, or to terminate it at any time by giving one month's notice without assigning any reason/s thereof.

5. CONTRACT TYPE

The Rate Contract shall be on "firm and fixed price" basis. No escalation of machine hour rate, which is defined in the PO is admissible during the period of the contract.

6. Order Limit

The total value of pending works and enquiries with a party against this rate contract shall be limited to maximum amount Rs. 50 lakh or less (Approximately, based on number of party qualified), and based on the process/facility available with the party.

7. RESPONSIBILITIES OF THE PARTY:

Responsibilities of the party shall be as follows:

- 7.1 Optimise build orientation and support structure for hardwares, and development of process parameters for powder bed (LPBF) process.
- 7.2 Metal 3D printing of hardwares along with coupons as prescribed in the purchase order using requested powder procured from approved vendor, after optimizing the part build orientation and support structure.
- 7.3 Stress Relieving (Heat treatment 400°C for 2 hours), Part removal, cleaning and sand blasting as provided in PO.
- 7.4 Post machining of hardwares to achieve all required features as per drawing, if required by the PO.
- 7.5 Dimensional inspection and 3D scanning of hardwares, as per requirement.
- 7.6 Tensile and chemical testing of specimens printed along with the hardwares.
- 7.7 Dispatch of printed hardwares along with all test reports such as powder test reports, chemical reports of coupon, mechanical testing reports of specimen, Ultrasonic inspection report of hardware, dimensional inspection report and 3D scanning report to IISU.

8. IISU IS RESPONSIBLE FOR

- 8.1 Supplying free-issue-material (FIM) for work order, if applicable.
- 8.2 Counter inspection of hardwares, auditing of inspection reports and acceptance of hardwares.
- 8.3 Provide technical clarifications if any, wherever requested for.
- 8.4 Release of timely payment as applicable.

9. MODUS OPERANDI

- 9.1 As and when requirement arises during the contract period, IISU shall send a formal tender enquiring giving work details, drawings, CAD models or other relevant documents enabling the party to quote.
- 9.2 The party's quote shall provide estimates of the man-machine hours for 3D printing, post processing, 3D scanning and the metal powder weight. The cost shall be based on the rates as per the rate contract.
- 9.3 Man-machine hours and the metal powder weight quoted by the party shall be reviewed by IISU and work order will be released, if acceptable.
- 9.4 Whenever the estimate is not acceptable by IISU, the same shall be mutually discussed to arrive at an agreeable value in line with R/C before placement of the work order.
- 9.5 Final work order will be released stating scope of work and the cost of activities.
- 9.6 Delivery schedule will be given for each work order and the same shall be strictly complied with.
- 9.7 A focal point will be identified for each work order.

10. JOB SIZE

Maximum size of hardware requires to be printed will be as below.

Type.	Max hardware size in mm
Type-1	250x250x300
Type-2	400x400x400

The following details about the machine shall be submitted in quotation

- Make
- Maximum size of hardware can be printed
- Chamber environment
- Status of calibration etc.

11. TECHNICAL CLARIFICATION

Any technical clarification shall be referred to the Focal point of IISU, identified for each work order.

12. OTHER TECHNICAL REQUIREMENTS

- 12.1. Detailed process sheet along with the timeline for the realization of hardware shall be prepared and submitted for approval from IISU to carry

out the scope of work. The process sheet shall be submitted along with the quote.

- 12.2. The party has to analyse the design, and suggest to incorporate modifications based on analysis results upon IISU approval, to optimally print the hardware with respect to build orientation and support structure.
- 12.3. Powder used for printing purpose shall be obtained from a qualified source. 100% virgin powder has to be used for entire printing operation. The material data certificate obtained from the party (powder supplier) has to be provided to IISU while submitting the hardware.
- 12.4. A proper naming/numbering system shall be followed by the party to trace back the hardware and the coupons printed, to their corresponding build sequence. Build platform coordinates and build platform location for test coupons shall be recorded for each build.
- 12.5. Party shall obtain approval regarding the standards being used and dimensions of coupons being printed in each build, from IISU, before starting the build.
- 12.6. The coupons shall undergo the same post processing treatment that the printed hardware goes through.
- 12.7. Details regarding the build platform used, preheating of platform, recoater blade material, any process changes or manual intervention during build process etc shall be shared with IISU.
- 12.8. The machine identification, including machine software version, build parameters/exposure strategies, manufacturing control system version (if automated), build chamber environment, machine conditioning, and calibration information of the qualified machine shall be shared with IISU.
- 12.9. The permissible maximum distortion from any datum on the actual 3D model shall be 100 - 200µm or better on any given surface or feature after the completion of all required operations.
- 12.10. Density of the part shall be greater than 99.5%.
- 12.11. The parts shall be smooth & free from any burrs, scratches and any other surface abnormalities after visual inspection by naked eye or 10x magnifying glass.

13. DELIVERY PERIOD

The party shall strictly adhere to the delivery dates mentioned in the work orders. Normally extension of time will not be entertained

14. QUALITY AND WORKMANSHIP

The Quality, workmanship and the tolerance of the work carried out shall be strictly in accordance with the engineering standards and specifications as called for in the drawings/3D model and specifications. No deviation shall be permitted and the supplier shall strictly conform to the specifications given in the drawings or Work Order(s).

15. INSPECTION AND ACCEPTANCE

The party shall carry out 100% dimensional, geometrical and visual inspection, and 3D scanning of all jobs as per notified in the PO by IISU. IISU will carry out pre delivery inspection at the party's site if required. Necessary support shall be arranged to the IISU personnel for performing the inspection. The hardware supply shall be accompanied with relevant inspection reports. The finished product shall be dispatched by party after redelivery clearance by IISU.

16. REWORK AND REJECTION

Any rework that may be required to maintain the specified quality level shall be carried out by the party at free of cost. After rework, the relevant dimensions shall be re-inspected hardware with unacceptable deviations shall be rejected.

17. PACKAGING AND DELIVERY TERMS

The party shall arrange to suitably pack the items and deliver them to IISU stores.

18. CORRESPONDENCE

All correspondences in regard to this Rate Contract shall be addressed to the Senior Purchase & Stores Officer (Purchase), IISU, Trivandrum 695013. All correspondences shall quote the Rate Contract no., work order number and date. (mail id: spso_iisu_pur@vssc.gov.in)

19. PAYMENT

Payment shall be made within 30 days on receipt and acceptance of each job on pro rata basis.

20. TAXES AND DUTIES:

Taxes and duties, if applicable will be reimbursed by IISU.

21. ADDITION/DELETION

IISU reserve the right to delete part of the work during the currency of Contract. Additional work shall be incorporated after obtaining quote from contractor on mutual consent.

22. SUBLETTING OF THE CONTRACT

The contractor shall not sublet, transfer or assign the Rate Contract or any part thereof without prior written approval from IISU.

23. LIQUIDATED DAMAGES

If the Party fails to deliver finished hardwares within time specified in the Work Order or any extension thereof, IISU shall recover liquidated damages @0.5% (zero point five percent) of the fabrication cost of the undelivered items for each calendar week or part of the week of delay, subject to a ceiling of 10% (ten percent) of the cost of items so delayed. The liquidated damage clause is applicable from the date of receipt of raw materials at party's site.

24. FALL CLAUSE

If at any time during the current Rate Contract, you reduce the rates to any other customers, it shall forthwith notify such reduction in the rates to IISU and the rates payable under this contract for the machinehour rates or any other rates shall stand correspondingly reduced.

25. ARBITRATION

In the event of any dispute/s, difference/s or claim/s arising out of relating to the interpretation and application of the Contract, such dispute/s or difference/s or claim/s shall be settled amicably by mutual consultations of the good Offices of the respective parties and recognizing their mutual interests attempt to reach a solution satisfactory to both the parties. If such a resolution is not possible within 30 days from the date of receipt of written notice of the existence of such dispute/s, then the unresolved dispute/s or difference/s or claim/s shall be referred to the Sole Arbitrator appointed by the Parties by mutual consent in accordance with the rules and procedures of Arbitration and Conciliation Act 1996 as amended from time to time. The Arbitration shall be conducted in Bengaluru in the Arbitration and Conciliation centre- Bengaluru (Domestic & International) as per its rules and regulations. The expenses for the Arbitration

shall be shared equally or as may be determined by the Arbitrator. The considered and written decision of the Arbitrator shall be final and binding between the parties. The applicable language for Arbitration shall be "English only:

Work under the contract shall be continued by the CONTRACT during the pendency of Arbitration proceedings, without prejudice to a final adjustment in accordance with the decision of the Arbitrator unless otherwise directed in writing by the DEPARTMENT or unless the matter is such that the works cannot be possibly continued until in the decision (whether final Interim) of the Arbitrator is obtained.

26. PARALLEL/ADHOC CONTRACT

We reserve the right to enter into parallel/adhoc contract(s) simultaneously or at any time during the currency of contract with one or more agencies.

27. SECRECY

The drawing and documents sent along with the order form part of the vital documents and same should be kept on top secret. Under any situations, you should not part with or transfer the technology/contents of drawings and documents whatsoever to any third party/agency without our prior consent. If at any time, it is brought to our notice that the secrecy has been transferred by you intentionally, or otherwise to any third party/agency, you shall be liable to identify the loss/damage to Government of India.

28. TECHNICAL CLARIFICATION

Any technical clarification for this RC shall be referred to DGM, ISMP of IISU.

29. QUOTATION MUST CONTAIN

Along with acceptance of all terms and conditions of this rate contract, party shall submit their offer in two part as mentioned below:

29.1 Technical offer shall contain:

29.1.1 The details of facilities.

29.1.2 Filled compliance sheet (as per annexure-III).

29.1.3 Acceptance of terms & condition provided in annexure-I, without price details.

29.2 Price offer shall contain:

29.2.1 The man/machine hour rate of every operation for a period of three years in the table given in annexure-II.

29.2.2 Price offer shall be in separate sealed envelope.

Price Bid

Rates of each machining operation for three years as per the table below.

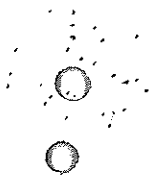
Sl. No	Description	Unit	Rate (Rs.) for Year 1	Rate (Rs.) for Year 2	Rate (Rs.) for Year 3
Process					
1	3D Printing-type-1 machine (250x250x300) mm)	Hr			
2	3D Printing-type-2 machine (400x400x400mm)	Hr			
Post processing					
3	CNC Turning	Hr			
4	CNC milling	Hr			
5	CNC Wire EDM	Hr			
6	CNC EDM	Hr			
7	Fitting/Polishing	Hr			
8	Heat treatment	Hr			
9	Sand blasting	Hr			
10	Inspection	Hr			
11	3D Scanning	Hr			
12	100% X Ray Radiography	100X100 Sq mm			
Testing					
13	Tensile testing for YS, TS, E value and % elongation at break	nos			
14	Chemical Analysis	nos			
15	Microstructural analysis	nos			
16	Hardness testing	nos			
17	Part density	nos			
Cost of powders					
18	AlSi10Mg	Kg			
19	Ti6Al4V	Kg			
20	Stainless Steel 316L	Kg			
21	Maraging Steel	Kg			

The rates mentioned above shall be firm and fixed during the existence of the contract

Compliance sheet

Party shall fill this compliance sheet and attach along with the quotation.

SL.No.	Description	Compliance Status, (reference no. such as PO no., audit no. etc.) if applicable	Provide machine details (such as make, model, accuracy etc.), if applicable
1	Party must be a qualified vendor of IISU or any other ISRO centres who is executing precision machining operations successfully. (provide copy of PO and inspection report of hardware for reference).		
2	Party must comply that their facility is under regular quality/vendor audit by IISU or any other ISRO centre's quality team without any non-conformance.		
3	3D printer Laser Powder Bed Fusion type with maximum job size 250x250x300 mm printing provision.		
4	3D printer Laser Powder Bed Fusion type with maximum job size 400x400x400 mm printing provision.		
5	Heat Treatment facility (Stress relieving) up to temperature range of 400 ⁰ C.		
6	Sand Blasting facility.		



7	CNC turning facility with spindle accuracy of 5 microns or better.		
8	CNC Milling facility with positional accuracy within 20 microns.		
9	CNC Wire EDM facility with positional accuracy less than 10 microns.		
10	CNC EDM facility with positional accuracy less than 10 microns.		
11	Dimension and geometrical measuring facility with an accuracy of 0.005 mm.		
12	3D scanning machine for dimensional inspection with accuracy level of less than 50 microns.		
13	Testing facility such as radiography, tensile, chemical analysis, microstructure, hardness, & part density facility.		
14	Parties can participate in tendering as per the facilities available with them as given in point no. 2.3. However, parties shall essentially have the facilities either 2.3.1 or 2.3.2, and 2.3.3 to 2.3.4 within their site. Other facilities from 2.3.5 to 2.3.10 can either be available with		

	party or it can be outsourced to ISRO qualified vendors.		
15	Facilities 2.3.11 have to be a NABL approved facility. Party shall have these facilities either within their site or it can be outsourced.		
16	IISU reserve the right to award the rate contract order to eligible parties for all operation or subset of the operation for a period of 2 years plus one-year extension, if needed.		

COMMERCIAL CONDITIONS

1. Tender Documents can be downloaded from our websites: www.vssc.gov.in / www.isro.gov.in. Tender Fee (Rs. 560/-) shall be paid through Non-tax & Revenue Receipts Portal (NTRP)(URL: <https://bharatkosh.gov.in>). Payment receipt shall be submitted along with the quotation. Other mode of payment is not acceptable. [The tender fee is NON-REFUNDABLE].

Government Departments, PSUs (both Central and State), Small Scale Industries units borne in the list of NSIC, MSME and foreign sources are exempted from submission of tender fee. Those who are coming under the above category should submit documentary evidence for the same.

2. **PAYMENT:** Pro-rata base payment.
3. Please keep and confirm the offer validity minimum 180 days from the date of opening of tender
4. Please send the quotations ONLY in 'SEALED COVER' super scribing our Tender Enquiry No. and Due Date by speed post so as to reach us on or before the due date and time. The cover thus prepared should be sent to the following address so as to reach us on or before the due date and time specified in the tender form:

Sr. Purchase and Stores Officer,
Purchase Unit – IX,
ISRO Inertial Systems Unit,
Vattiyoorkavu, Trivandrum-695 013

IISU will not be responsible for any postal delays. Email/fax quotations 'WILL NOT BE ACCEPTED'.

5. Basic rate and GST rate with applicable HSN Code shall be shown separately.
6. In order to avail of the benefits extended by Government of India to the Micro and Small sectors, please submit attested copy of the valid Entrepreneur Memorandum Part-II signed by the General manager, District Industries Centre or NSIC or MSME Registration Certificate along with your offer. [Note: MSME/NSIC vendors are not exempted from submission of SD].
7. IISU has a right to cancel the tender without assigning any reason etc.
8. **EMD:** The vendors who are not registered with VSSC, shall submit an EMD (Earnest Money Deposit) or Bid Security through NTRP for **Rs.30,000/-**. The EMD of the unsuccessful vendor will be returned without any interest within 30 days from the date of finalization. Foreign vendors, registered vendors or vendors who have already applied for renewal of registration, Central PSUs/PSEs/Autonomous Bodies/MSMEs etc., shall be exempted from payment of EMD. Vendors seeking exemption from payment of EMD shall submit necessary proof like registration number (vendor code), etc. The quotation submitted by unregistered vendor without EMD will not be considered. The EMD submitted by unregistered vendors will be forfeited in the case of withdrawal of quotation or amendments in quotation or any such deviation in a later period.
9. **SECURITY DEPOSIT (mandatory compliance required):** In the event of placement of Rate contract, SD@3% of yearly commitment value will be applicable. The Security Deposit shall be valid for a period of 60 days beyond the date of completion of Rate Contract. The Security Deposit will be discharged without any interest after completion and acceptance of the Contractual Obligations. In case if the contractor fails to execute the order after submission of SD, then SD shall be forfeited.
10. **Liquidated Damages Clause:** The delivery period should be realistic. The delivery period so quoted and mentioned in the order is the essence of the PO/Contract. In case of delay in delivery of material as per the delivery schedule, LD @ 0.5% per week or part thereof on the undelivered portion subject to a maximum of 10% of the contract value shall be levied. Wherever installation & commissioning is

also involved, the supply will be deemed to have been completed only when the entire Stores is supplied, installed and accepted.

11. **Delivery terms:** Our standard delivery term is FOR, IISU Trivandrum.

12. IISU reserves the right of acceptance of the whole or any part of the tender or portions of the quantity offered and the tenderers shall supply the same at the rates quoted.

13. **Purchase Preference Policy - Make in India(Divisible Items-Class I & II Local Suppliers) :**

In line with Public Procurement (Preference to Make in India), Order 2017 & its amendments issued by Govt. of India from time to time with a view to support the Indian industries, ISRO has implemented "Purchase Preference Policy". The "Purchase Preference" is applicable for the "Class-I Local Supplier" for the goods/ services/ works covered in this tender, subject to the following terms & conditions:-

- a. The Public Procurement (Preference to Make in India), Order 2017 issued by Govt. of India indicates that if there are any general or specific restrictive clauses to restrict participation of Indian companies in those countries procurement tenders, reciprocity clause need to be invoked as per the order. Hence, if ISRO or Govt. of India come across that Indian suppliers of an item are not allowed to participate and / or compete in procurement by your government, the bid submitted by you will be not be considered and excluded from eligibility for procurement. Please note this point.
- b. Purchase Preference Policy:- Goods/Works which are divisible in nature (required quantity is greater than 1 or not a package basis):
 - a) The subject item falls under divisible category.
 - b) The offers are sought from Class I & II Local Suppliers.
 - i). If L1 is 'Class-1 local supplier', the order/contract for full quantity shall be awarded to L1 bidder.
 - ii). If L1 bid is not from a 'Class-I local supplier', 50% of the order quantity shall be awarded to L1. Thereafter, the lowest bidder among the 'Class-I local supplier' will be invited to match the L1 price for the remaining 50% quantity subject to the Class-I local supplier's quoted price falling within the margin of purchase preference (i.e. 20%) and contract for that quantity shall be awarded to such Class-I local supplier subject to matching the L1 price (inclusive of duties, taxes and freight & insurance).
 - iii). In case such lowest eligible 'Class-I local supplier' fails to match the L1 price or accepts less than the offered quantity, the next higher 'Class-I local supplier' within the margin of purchase 'preference shall be invited to match the L1 price for remaining quantity and so on, and contract shall be awarded accordingly. In cases where none of the 'Class-I local supplier' within the margin of purchase agree to match L1 price, in such cases 100% quantity shall be ordered on original L1 bidder.
 - iv). In case no offers are received from 'Class-I local supplier' or none of the 'Class-I local supplier' falls within the margin of purchase preference of 20%, the order shall be processed on L1 vendor.
 - v). In case L1 bidder (not a 'Class-I local supplier') is not accepting splitting of order on 50:50 basis, in that case the order/contract shall be awarded to such 'Class-I local supplier' for full quantity subject to matching the L1 price.
 - vi). Regarding MSEs (Indian vendors):
 - a) The following additional aspect as indicated below would be applicable for procurement which are falls under divisible category (i.e., not applicable for indivisible category), in case of participation of MSEs in the tendering who are also complying to the Minimum Local Content (MLC) stipulated in the tender.
 - b) If any Indian vendor satisfies the requirement of MSEs stipulation and also falls within the purchase preference margin as called for in MSME policy (in case of matching L1 price) will be considered for ordering 25% of tendered quantity, the balance quantity / works will be considered for distribution amongst all bidders (including MSEs) as per the purchase preference policy.
 - c) In case no MSEs qualifies for purchase preference or do not match with L1 price then the total tendered quantity will be distributed amongst all bidders as per the purchase preference policy.
- c. Purchase Preference Policy:- Goods/Works which are not divisible (ie., required quantity is 1 or as a package) and Services:
 - i). If L1 is from a 'Class-I local supplier', the contract will be awarded to L1 bidder.
 - ii) If L1 is not

from a 'Class-I local supplier', the lowest bidder among the 'Class-I local supplier' will be invited to match the L1 price subject to local supplier's quoted price falling within the margin of purchase preference (i.e. 20%) and the contract shall be awarded to such 'Class-I local supplier' subject to matching the L1 price (inclusive of duties, taxes and freight & insurance). III) In case such lowest eligible 'Class-I local supplier' fails to match the L1 price, the 'Class-I local supplier' with the next higher bid within the margin of purchase preference shall be invited to match the L1 price and so on, and order/contract shall be awarded accordingly. In case where none of the 'Class-I local supplier' within the margin of purchase preference agree to match the L1 price, then the order/contract shall be awarded to the original L1 Bidder.

- d. Works means all works as per Rule 130 of GFR- 2017, and will also include 'turnkey works'. Works includes Engineering, Procurement and Construction (EPC) contracts and services include System Integrator (SI) contracts.
- e. 'L1' means the lowest technically accepted tender / bid / quotation (i.e. lowest landed cost including duties, taxes and freight & Insurance).
- f. 'Margin of purchase preference' means the maximum extent to which the price quoted by the "Class-I local supplier" above the L1 (landed cost).
- g. The margin of Purchase Preference shall be up to 20%.
- h. 'Local content' means the amount of value added in India (i.e. indigenous items/services added in the offered products/ services/ works) be the total value of the item offered (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties/IGST) as a proportion of the total value (excluding net domestic indirect taxes), in percent.
- i. Definitions: A supplier or service provider, whose goods, services or works offered for procurement, has local content: i. Equal to or more than 50%: Class-I local supplier. ii. More than 20% but less than 50%: Class-II local supplier. iii. Less than or equal to 20%: Non-local supplier.
- j. The 'Class-I & II local supplier' should provide a "Self Certification" along with technical offer indicating that the item offered meets the minimum local content as called for in the tender and provide the percentage of local content along with details of the location(s) at which the local value addition is made. In case of two bid tenders, it is mandatory to indicate compliance to MLC (minimum Local Content) in technical bid zone.
- k. The ink-signed certificate shall be provided on vendors letter head along with the offer (, copy of ink-signed certificate shall be attached along with your offer under concerned tab. Original in Hard copy shall be produced on request). In case of non-submission of certificate, the purchase preference shall not apply.
- l. In cases the quoted price is in excess of Rs.1000 Lakhs (including duties, taxes and freight & Insurance) the 'Class-I & II local supplier shall provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in case of suppliers other than companies) giving the percentage of local content.
- m. A committee (with an external expert from a practicing cost accountant or practicing chartered accountant, if required) constituted for independent verification shall verify the self-declarations & auditor's / accountant's certificates on random basis, as per the requirements.
- n. In case of a complaint received from any local supplier indicating a need for review / verification of Local content of successful vendor / awarded vendor, for accepting a complaint from such complainant (w.r.t the false declaration given by the successful vendor on the local content), a complaint fee of Rs.2Lakhs or 1% of the locally manufactured items being procured (subject to a maximum Rs. 5Lakhs), whichever was higher, to be paid by demand draft by the complainant. In case, the complaint is found to be incorrect, the complaint fee shall be forfeited. In case, the complaint is upheld and found to be substantially correct, deposited fee of the complainant would be refunded without any interest.

- o. False declarations will be in breach of code of the integrity for which a bidder or its successor's will not be eligible/debarred for purchase preference from further tenders / pending tenders for two years along with other actions as may be applicable.
14. Are you claiming MSE purchase /price preference extended to MSEs/MSMEs. In case of such claims relevant documentary proof supporting MSE/MSME status shall be enclosed in the bid documents.
15. **NOTE**
- The tender submitted by you shall be compulsorily signed. Unsigned tenders will be summarily excluded from the procurement process.
 - If any of the bidders submit any forged or false documents along with the tender, such tenders will be summarily rejected and such bidders will be blacklisted for all future tenders.
 - Being a Govt of India Dept., insurance is not required at our cost. Please ensure safe delivery of the ordered item with proper /ROAD/SEA/AIR worthy packing.
 - All delivery formats (PBG, SD IB) shall be provided by the Dept., in case of placement of order.

16. Conditions for BIDDER FROM A COUNTRY WHICH SHARES LAND BORDER WITH INDIA

- Any bidder from a country which shares a land border with India will be eligible to bid in this tender, only if the bidder is registered with the Competent Authority. Competent Authority for the purpose of registration shall be the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT).
- Validity of Registration: Registration should be valid at the time of submission of bids and should be valid at the time of placement of order.
- Any false declaration and non-compliance of the above would be a ground for immediate rejection of offer or termination of the contract and further legal action in accordance with the laws.

(Radhakrishnan Nair C S)
Sr. Purchase & Stores Officer
For and on behalf of the President of India
The Purchaser

भारत सरकार
अंतरिक्ष विभाग (अं.वि.)
विक्रम साराभाई अंतरिक्ष केंद्र
तिरुवनंतपुरम 695013
आइआइएसयू कय, वट्टियूरकाव पीओ
फोन नं Ph No. 0471-2569317/2569377 / Fax. 0471-2361813 / ईमेल e-mail:



GOVERNMENT OF INDIA
DEPARTMENT OF SPACE (DOS)
ISRO INERTIAL SYSTEMS UNIT
THIRUVANANTHAPURAM 695013
IISU PURCHASE, VATTIYOORKAVU PO

निविदा आमंत्रण
INVITATION TO TENDER

मैसर्स
M/s

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हमारी संदर्भ सं
Our Ref. No.

8625 2024-004281-01

निविदा अंतिम तिथि
Tender Due at

14:00 hrs IST on 26/06/2025

महोदय

Dear Sirs,

कृपया निम्नलिखित मदों की आपूर्ति के लिए अनुलग्नक (फार्म सं. संलग्न) में उल्लिखित निबंधन एवं शर्तों के अनुसार संलग्न निविदा प्रपत्र में वर्णनात्मक सूचीपत्र/पैम्फलेट/साहित्य सहित हमारी संदर्भ सं. एवं अंतिम तिथि (मोटे अक्षरों में) ऊपर लिखते हुए अपनी मुहरबंद निविदा प्रस्तुत करें।

Please submit your sealed quotation , in the Tender Form enclosed here along with the descriptive catalogues /pamphlets /literature ,superscribed with Our Ref.No. and Due Date for the supply of the following items as per the terms & conditions mentioned in Annexure(Form No. DOS:PM:FORM 21 ENCLOSED)

क्र.सं. Sl. No.	विनिर्देशों सहित मद का विवरण Description of items with Specifications	इकाई Unit	मात्रा Quantity
1	Man/Machine hour wise fabrication rate contract for General Turning, CNC Turning, Milling, CNC Milling, Jig boring, Precision Fitting, General Fitting etc and Dimensional Inspection for a period of two years.	1	1

सुपुर्दगी स्थल

Delivery At IISU STORES

प्रेषण की विधि

Mode of Despatch ON SITE

शुल्क छूट

Duty Exemptions

विशेष अनुदेश

Special Instructions AS PER ENCLOSURE

विशेष निबंधन

Specific Terms DOS:PM:FORM 21 ENCLOSED

निविदाकारों को अनुदेश

Instructions to Tenderers

- (1) Scope of work and period of contract as per Annexure-I
- (2) Price Bid format for three years as per Annexure-II
- (3) Compliance sheet as per Annexure-III
- (4) Technical offer shall contain - the details of facilities, filled compliance sheet, acceptance of terms and conditions provided in annexure-I, without price details.
- (5) Price offer shall contain the man/machine hour of every operation for every year in the table given in Annexure-II
- (6) This tender is proposed as a Public Tender Two part.This tender is restricted only to Class-I and Class-II Local Suppliers as defined under DPIIT Order dtd 04/06/2020-Preference to Make in India Order-2017 Revision.Non Local Suppliers need not submit quote
- (7) Foreign vendors are not permitted to quote. Only Class I and Class II Local suppliers as per Make in India Policy are eligible to participate in the bid.
- (8) Techno commercial bid and price bid shall not be submitted together. No price details should be mentioned in the Techno-commercial bid.
- (9) We do not open PART-II (Price Bid), if PART-I (Technical & commercial Offer) does not meet with our technical specification requirements.Technical bid containing price details will be treated as rejected.
- (10) Please submit your quotation in a sealed envelope only superscribing the enquiry number and date of opening. Fax or e-mail quotations will not be considered.

Rate contract for precision fabrication of Inertial system hardware

1.0 PERIOD OF CONTRACT

Contract period is for two years from the date of issue of Rate contract. Rate Contract is valid for 2 years from the date of issue. Contract contain provision for one more year extension based on mutual consent.

2.0 SCOPE OF WORK

Scope of work involves General Turning, CNC Turning, Milling, CNC Milling, Jig boring, Precision Fitting, General Fitting, cylindrical Grinding, Jig Grinding, Surface Grinding, and Dimensional Inspection, as per drawings/documents provided against each work order.

3.0 PRE-REQUISITE OF THE PARTY

- 3.1 Party must be a qualified vendor of IISU or any other ISRO centres who is executing precision machining operations successfully.
- 3.2 Party must comply that their facility is under regular quality/vendor audit by IISU or any other ISRO centre's quality team without any non-conformance.
- 3.3 Party shall have following machines/facility:
 - 3.3.1 Cylindrical grinding machine with spindle accuracy 1 micron or better.
 - 3.3.2 Jig grinding machine with positional accuracy within 2 microns or better.
 - 3.3.3 Surface grinding machine with axis straightness accuracy within 10 microns or better.
 - 3.3.4 Jig boring machine with 5 microns or better accuracy.
 - 3.3.5 CNC machining/facility with positional accuracy of 10 microns or better.
 - 3.3.6 Well calibrated and maintained precision dimension inspection and geometrical inspection facility.
 - 3.3.7 Well experienced and skilled production and inspection team.
 - 3.3.8 Previous experience on machining precision components for aerospace application by meeting a dimensional and geometrical parameter in the order of 0.005mm.
- 3.4 Parties can participate in tendering as per the facilities available with them out of clause no. 3.3.
- 3.5 IISU reserve the right to award the rate contract order to eligible parties for all operation or subset of the operation for a period of 2 years plus one-year extension, which are available with them. Order limit will be shared within the eligible parties for their eligible operations.

- 3.6 The party who has already man-machine hour wise RC with IISU need not to participate in the tender enquiry.

4.0 WORK ORDER LIMITS

- 4.1 The total value of pending works and enquiries with a party at any time against this rate contract shall be limited to maximum amount of Rs. 50 lakh or less based on the process/facility available with the party. As and when the value falls below this limit, the party shall become eligible for more orders.

5.0 RESPONSIBILITIES

5.1 Party is responsible for:

- 5.1.1 Storing of raw materials (FIM) supplied by IISU separately with proper identification/inventory at your site.
- 5.1.2 Submitting process plans, quality plans for IISU approval as applicable for each work order.
- 5.1.3 Fabrication of parts/ sub assembly as per drawing specifications & documents supplied by IISU in each work order.
- 5.1.4 Carrying out 100% dimensional, geometrical & visual inspection of parts / sub assembly as per drawings supplied by IISU in each work order.
- 5.1.5 Preparation of inspection reports as per IISU format and submitting the inspection reports along with supply. Any deviations shall be reported in the inspection report as non-conformance.
- 5.1.6 Supplying of finished hardware as per delivery terms given in each order to IISU stores with proper packing.
- 5.1.7 Submitting periodical progress report for each order.
- 5.1.8 Submitting material consumption statement after completion of each work Order, and return balance material if any, back to IISU.
- 5.1.9 Carryout machining and inspection of hardware with minor changes in drawings, if any, without any additional charges.
- 5.1.10 Complying with quality clauses given in 19.
- 5.1.11 Subcontracting of work order in part or full is not allowable.

5.2 IISU IS RESPONSIBLE FOR:

- 5.2.1 Supplying of free-issue-material (FIM) for each work order as applicable at party's site.
- 5.2.2 Scrutiny and approval of process plans and quality plans.
- 5.2.3 Counter inspection of parts, auditing of inspection reports and acceptance of parts at party's site.

5.2.4 Provide technical clarifications if any, wherever requested for.

6.0 DELIVERY SCHEDULE:

6.1 Delivery schedule for each work order will be spelt separately in every work order.

6.2 Delivery of sample hardware if any, is as defined in each work order.

7.0 CONTRACT TYPE:

The rate contract shall be on "firm and fixed price" basis. No escalation of machine hour rate is admissible during the currency of the contract other than specified.

8.0 MODUS OPERANDI:

As and when requirement arises, IISU shall send a formal tender enquiry with scope of work details, drawings and other relevant documents enabling party to quote the following.

8.1 Machine hours for various operations for each hardware.

8.2 Summation of products of machine hours and corresponding man-machine hours rates yields offer price.

8.3 In acceptance of party's quote, IISU shall release work orders. Whenever the estimate of man-machine hours estimated by party is not acceptable by IISU, the same shall be mutually discussed/request for a final offer (BAFO) to arrive an agreeable number of man-machine hours for placement of work order.

8.4 This RC can be used by other ISRO centres also, with prior permission from focal point and a copy of PO shall be sent to competent authority of IISU. However, delivery schedule given for each tender shall be strictly complied with.

9.0 FREE-ISSUE OF MATERIALS:

9.1 Qualified/ designated material will be supplied by IISU at party's site as Free-Issue-Material (FIM). Party shall give an acknowledgement to IISU stores for the reception of FIM.

9.2 The material shall not be interchanged between jobs at party's site premises even though they are same material.

9.3 The actual size, quantity, and cost of FIM for each work order will be incorporated in the relevant work order.

9.4 On completion of each work order, the balance raw material, if any, including the usable shorts, end pieces etc, should be properly identified for traceability and returned back to IISU. However unusable /waste products such as those arising during the processing the material at different stages (e.g. cutting loss and chips during machining) need not be returned to IISU.

9.5 On execution of each work order, a material consumption statement shall be prepared and provided along with the final supply.

9.6 In case of rejection of parts over and above the limit (10% rejection allowance), raw material (FIM) will be replenished by IISU on chargeable basis.

10.0 INSURANCE FOR FIM:

10.1 The maximum FIM cost of the RC is identified as Rs. 20 Lakh.

10.2 Free Issue Material will be issued by IISU against submission of All Risk Insurance Policy in favour of Director, IISU which shall be valid till completion and acceptance of last item of last PO at our site.

11.0 REJECTION ALLOWANCE:

IISU shall issue raw material (FIM) for a maximum 10% as detailed below:

SL no:	Work order quantity in Nos	Maximum rejection allowance
1	1 to 9 Nos	1 No
2	10 Nos and above	10%

The time consumed in various machines at party's works for a rejected job will not be counted for any payment purpose. If there is no rejection, the extra FIM supplied for rejection allowance shall be returned back to IISU.

12.0 INSPECTION AND ACCEPTANCE

Party shall carry out 100% dimensional, geometrical and visual inspection of all jobs as per the guidelines provided by IISU, as per point no.-19 and along with the work order. Supply shall be accompanied with relevant inspection reports. However final acceptance of the item shall be only after counter inspection/audit by quality control section of IISU.

13.0 REWORK AND REJECTION

13.1 Any re-work that may be required is to be carried out by the party at free of cost, to maintain the specified quality level within specified time.

13.2 Re-inspect the reworked dimension as well as the related dimensions and report the values. Re-inspection of other closely tolerated dimensions and geometrical parameters shall also be carried out to ensure that no deformation has taken place due to job holding or machining.

13.3 If the rejection of fabricated items is due to poor workmanship at party's side and IISU engineers certify them accordingly, subject to rejection allowance specified at clause no:11, further FIM will be issued to which party is required

to pay the value of the FIM indicated by IISU. In such cases, no cost towards machine hours incurred will be paid by IISU.

14.0 PACKING AND DELIVERY

- 14.1 Party shall arrange to pack and transport all the fabricated parts with balance material if any along with "Material consumption statement" and deliver as stipulated in each work order to Purchase & Stores Officer, IISU.
- 14.2 Suitable packing container preferably strong wooden cases to be used. Each hardware has to be packed inside the cases with adequate packing material preferably with thermocol to arrest any kind of movements/shakes while transporting to take care of any in-transit damages.
- 14.3 The transporter has to be instructed to handle the cases with utmost care while transporting to IISU.
- 14.4 The title of the parts shall be deemed to be passed on to IISU only after receipt of items/parts at the IISU stores, in good condition, along with all documents and acceptance thereof.
- 14.5 The party shall strictly adhere to the delivery dates mentioned in the order unless otherwise agreed by IISU in writing. IISU shall insist upon imposing penalty for delayed deliveries.

15.0 PROGRESS REPORT:

Party shall send a fortnightly progress report from effective date of contract with respect to each work order to IISU. The report shall comprise the following.

- 15.1 Submission of process plans, quality plans and sample against each work order.
- 15.2 Sample machining, bulk supply machining.
- 15.3 Delivery schedule of all work orders.
- 15.4 Issues/problems encountered if any.

16.0 MODIFICATION

Modification to any clause which forms part of this contract is possible only with the mutual consent between the signatories to this contract.

17.0 TECHNICAL CLARIFICATION:

Any technical clarification shall be referred to Competent authority, who will be also focal point for all such matters.

18.0 CORRESPONDENCE

All correspondences with regard to the Rate Contract shall be addressed to the Senior Purchase and Stores Officer, IISU, Vattiyoorkavu, Trivandrum, 695013. All correspondences shall have RC. No., work order number and date.

19.0 QUALITY CLAUSES

- 19.1 All fabrication drawing issued by IISU along with the Work order shall be properly stored, handled and used.
- 19.2 Party shall receive, store, handle and use IISU Free-issue-materials (FIM) with utmost care. To ensure trace-ability, the IISU FIM should be stored in separate and identified location to avoid mix-up with other materials. Even during fabrication i.e., during intermediate stage machined/multiple machine operation care should be taken to properly put the hardware being processed in polythene sheet with proper identification. Similar care should be taken during inspection also. This mode of ensuring material trace-ability should be followed thorough out till the hardware are delivered at IISU.
- 19.3 Party shall take adequate care during processing/Inspection/Packing etc to ensure the processed hardware are not damaged and that scratch mark/dent etc do not occur
- 19.4 Immediately on receipt of order, process plan and quality plans are to be prepared. The process plan should clearly bring out the machines used, the sequence of operations and other relevant details like use of sulphur-free and halogen-free cutting fluids for Titanium alloys. The quality plan should include details of equipment/instruments to be used for each inspection feature along with resolution aspects/range and submit the same to IISU for review and approval as in standard format. Inspection of ordered components should be as per approved plan. In case of any change in process plan, approval from IISU has to be obtained.
- 19.5 Sample batch of components, if specified in the scope of the order should be fabricated and supplied within the stipulated period to IISU for review and clearance prior to commencing fabrication of production batches. The sample batch of components should be accompanied by required inspection reports.
- 19.6 Party shall fabricate ordered components strictly as per IISU supplied drawings only. In case of any doubts, clarifications need to be sought and processed further as per clarification provided.
- 19.7 Party shall carryout inspection of the fabricated components for all dimensions, parameters and characteristics as indicated in the drawing by using certified

measuring instrument only. The inspection report should indicate only the exact measured values with absolute numbers as per standard inspection format. Finally, inspection audit will be performed by quality control section of IISU.

19.8 All dimension, geometric tolerances, surface finish and any other characteristic specified as per drawings should be 100% inspected and reported.

19.9 It is the responsibility of party to have the proper identification; traceability and control of raw materials/intermediate stage machined components and finished components at all stages of fabrication and inspection.

19.10 Party shall submit a certificate of conformance affirming that the raw materials have been used for fabrication with traceability and components fabricated and inspected as per drawings supplied by IISU and that the dimensions and other parameters specified are correct.

19.11 Party shall ensure that non conformance if any due to any snags/deviations on the drawings specified dimensions/parameters should be reported to IISU for approval.

19.12 It is the responsibility of the Party to ensure that only sulphur free and halogen free cutting fluid are used during machining in case when the material is Titanium and its alloys.

19.13 Party should also certify that the components are strictly fabricated by using the free issue material supplied by IISU only. This is a very important quality requirement. Any deviation in this regard, will be viewed seriously by IISU.

19.14 Inspection report submitted by party, will be scrutinized by IISU quality engineers and acceptance/rework/reject decisions of supplied hardware will be only based on all quality parameters being met in full. In case it is found that the reported dimensions are incorrect, the components will be summarily rejected and the party shall be liable to replace such components free of cost.

19.15 All inspection instruments should be calibrated through NABL approved agency and only such calibrated instruments should be used for inspection. Calibration certificate of instruments shall be shown to IISU quality engineers at any point of time to check their validity.

19.16 Party should take adequate care during processing / inspection / packing etc. to ensure the processed hardware are not damaged and that scratch marks / dents etc do not occur.

20.0 PAYMENT

Payment will be made typically within 30 days on receipt and acceptance of each job duly inspected and accepted by our inspection personnel and duly supported by a clearance certificate from the focal point duly approved by competent authority. The bill/invoice shall be submitted to Sr. Accounts Officer, IISU.

21.0 LIQUIDATED DAMAGES

If the contractor fails to deliver finished components within time specified in the Work Order or any extension thereof, IISU shall recover liquidated damages @0.5% (zero-point five percent) of the fabrication cost of the undelivered items for each calendar week or part of week the of delay, subject to a ceiling of 10% (ten percent) of the cost of items so delayed. For the purpose of LD clause, the delivery period will start from date of positioning FIM at party's site.

22.0 FALL CLAUSE

If at any time during the currency of this Rate Contract party reduces the rates to any other customers, it shall be forthwith notify such reduction in the rates to us and the rates payable under this contract for the man-machine hour rates shall stand correspondingly reduced.

23.0 ARBITRATION

In the event of any dispute/s, difference/s or claim/s arising out of relating to the interpretation and application of the Contract, such dispute/s or difference/s or claim/s shall be settled amicably by mutual consultations of the good Offices of the respective parties and recognizing their mutual interests attempt to reach a solution satisfactory to both the parties. If such a resolution is not possible within 30 days from the date of receipt of written notice of the existence of such dispute/s, then the unresolved dispute/s or difference/s or claim/s shall be referred to the Sole Arbitrator appointed by the Parties by mutual consent in accordance with the rules and procedures of Arbitration and Conciliation Act 1996 as amended from time to time. The Arbitration shall be conducted in Bengaluru in the Arbitration and Conciliation centre- Bengaluru (Domestic & International) as per its rules and regulations. The

expenses for the Arbitration shall be shared equally or as may be determined by the Arbitrator. The considered and written decision of the Arbitrator shall be final and binding between the parties. The applicable language for Arbitration shall be "English only:

Work under the contract shall be continued by the CONTRACT during the pendency of Arbitration proceedings, without prejudice to a final adjustment in accordance with the decision of the Arbitrator unless otherwise directed in writing by the DEPARTMENT or unless the matter is such that the works cannot be possibly continued until in the decision. (whether final Interim) of the Arbitrator is obtained.

24.0 PARALLEL/ADHOC CONTRACT

IISU reserves the rights to enter into parallel/adhoc contract(s) simultaneously or at any time during the currency of contract with one or more agencies. IISU also reserves the right to terminate this RC at any point of time with one-month advance notice.

25.0 IMPORTANT NOTES

The drawing and documents sent along with the order form part of the vital documents and same should be kept on top secret. Under any situations, party should not part with or transfer the technology/contents of drawings and documents whatsoever to any third party/agency without our prior consent. If at any time, it is brought to IISU notice that the secrecy have been transferred by party, intentionally or otherwise to any third party/agency, party shall be liable to Indemnity/damage to Government of India.

26.0 CONFIDENTIALITY

The copy of the drawings furnished against this contract shall remain the property of government of India. Party is prohibited from further utilizing or passing on any of the design details or the details of the drawings in whole part to any third party for using it by them for any exploitation, commercial or otherwise without written permission of IISU

27.0 MAN-MACHINE HOUR RATES

The man-machine hour rates will remain firm for respective year from the effective date of this RC, subject to clause no-22.

28.0 QUOTATION MUST CONTAIN

Along with acceptance of all terms and conditions of this rate contract, party shall submit their offer in two part as mentioned below:

28.1 Technical offer shall contain:

28.1.1 The details of facilities.

28.1.2 Filled compliance sheet (as per annexure-III).

28.1.3 Acceptance of terms & condition provided in Annexure-I, without price details.

28.2 Price offer shall contain:

28.2.1 The man-machine hour rate of every operation for a period of three years in the table given in annexure-II.

28.2.2 Price offer shall be in separate sealed envelope.

Price Bid

Rates of each machining operation for three years as per the table below.

SL NO	Operation/ Machine	Man-machine hr rate (Rs/Hr) 1st year	Man-machine hr rate (Rs/Hr) 2nd year	Man-machine hr rate (Rs/Hr) 3rd year
1	General Turning			
2	CNC Turning			
3	Milling			
4	CNC Milling			
5	Jig boring			
6	Precision Fitting			
7	General Fitting			
8	Cylindrical Grinding			
9	Jig Grinding			
10	Surface Grinding			
11	Dimensional Inspection			

SL. no	description	Rate per trip from IISU to vendor for 1st year	Rate per trip from IISU to vendor for 2nd year	Rate per trip from IISU to vendor for 3rd year
1	Collection or delivery of material from/to IISU/VSSC by vendor's personnel (up to 50kgs)			
2	Collection or delivery of material from/to IISU/VSSC by truck.			

Compliance sheet

Party shall fill this compliance sheet and attach along with the quotation.

SL.No.	Description	Compliance Status,(reference no.such as PO no., audit no. etc.) if applicable	Provide machine details (such as make, model, accuracy etc.), if applicable
1	Party must be a qualified vendor of IISU or any other ISRO centres who is executing precision machining operations successfully.(provide copy of PO and inspection report of hardware for reference).		
2	Party must comply that their facility is under regular quality/vendor audit by IISU or any other ISRO centre's quality team without any non-conformance.		
3	Cylindrical grinding machine with spindle accuracy 1 micron or better.		
4	Jig grinding machine with positional accuracy within 2 microns or better.		
5	Surface grinding machine with axis straightness accuracy within 10 microns or better.		
6	Jig boring machine with 5 microns or better accuracy.		
7	CNC machining/facility with positional accuracy of 10 microns or better.		

8	Well calibrated and maintained precision dimension inspection and geometrical inspection facility.		
9	Well experienced and skilled production and inspection team.		
10	Previous experience on machining precision components for aerospace application by meeting a dimensional and geometrical parameter in the order of 0.005mm.		
11	IISU reserve the right to award the rate contract order to eligible parties for all operation or subset of the operation for a period of 2 years plus one-year extension, which are available with them. Order limit will be shared within the eligible parties for their eligible operations.		
12	During Technical Bid Evaluation, vendor evaluation will be done by IISU team for verifying the availability of machines and its accuracies.		

COMMERCIAL CONDITIONS

1. Tender Documents can be downloaded from our websites: www.vssc.gov.in / www.isro.gov.in. Tender Fee (Rs. 560/-) shall be paid through Non-tax & Revenue Receipts Portal (NTRP)(URL: <https://bharatkosh.gov.in>). Payment receipt shall be submitted along with the quotation. Other mode of payment is not acceptable. [The tender fee is NON-REFUNDABLE].

Government Departments, PSUs (both Central and State), Small Scale Industries units borne in the list of NSIC, MSME and foreign sources are exempted from submission of tender fee. Those who are coming under the above category should submit documentary evidence for the same.

2. **PAYMENT:** 100% within 30 days after receipt and acceptance of item at our site.
3. Please keep and confirm the offer validity minimum 180 days from the date of opening of tender
4. Please send the quotations ONLY in 'SEALED COVER' super scribing our Tender Enquiry No. and Due Date by speed post so as to reach us on or before the due date and time. The cover thus prepared should be sent to the following address so as to reach us on or before the due date and time specified in the tender form:

Sr. Purchase and Stores Officer,
Purchase Unit – IX,
ISRO Inertial Systems Unit,
Vattiyoorkavu, Trivandrum-695 013

IISU will not be responsible for any postal delays. Email/fax quotations 'WILL NOT BE ACCEPTED'.

5. Basic rate and GST rate with applicable HSN Code shall be shown separately.
6. In order to avail of the benefits extended by Government of India to the Micro and Small sectors, please submit attested copy of the valid Entrepreneur Memorandum Part-II signed by the General manager, District Industries Centre or NSIC or MSME Registration Certificate along with your offer. [Note: MSME/NSIC vendors are not exempted from submission of SD].
7. IISU has a right to cancel the tender without assigning any reason etc.
8. **EMD:** The vendors who are not registered with VSSC, shall submit an EMD(Earnest Money Deposit) or Bid Security through NTRP for Rs.50,000/-. The EMD of the unsuccessful vendor will be returned without any interest within 30 days from the date of finalization. Foreign vendors, registered vendors or vendors who have already applied for renewal of registration, Central PSUs/PSEs/Autonomous Bodies/MSMEs etc., shall be exempted from payment of EMD. Vendors seeking exemption from payment of EMD shall submit necessary proof like registration number(vendor code), etc. The quotation submitted by unregistered vendor without EMD will not be considered. The EMD submitted by unregistered vendors will be forfeited in the case of withdrawal of quotation or amendments in quotation or any such deviation in a later period.
9. **SECURITY DEPOSIT (mandatory compliance required):** In the event of placement of Rate Contract, SD@3% of yearly commitment value will be applicable. The Security Deposit shall be valid for a period of 60 days beyond the date of completion of the Rate Contract. The Security Deposit will be discharged without any interest after completion and acceptance of the Contractual Obligations. In case if the contractor fails to execute the order after submission of SD, then SD shall be forfeited.
10. **Liquidated Damages Clause:** The delivery period should be realistic. The delivery period so quoted and mentioned in the order is the essence of the PO/Contract. In case of delay in delivery of material as per the delivery schedule, LD @ 0.5% per week or part thereof on the undelivered portion subject to a maximum of 10% of the contract value shall be levied. Wherever installation & commissioning is

also involved, the supply will be deemed to have been completed only when the entire Stores is supplied, installed and accepted.

11. IISU reserves the right of acceptance of the whole or any part of the tender or portions of the quantity offered and the tenderers shall supply the same at the rates quoted.

12. Purchase Preference Policy - Make in India(Divisible Items-Class I & II Local Suppliers) :

In line with Public Procurement (Preference to Make in India), Order 2017 & its amendments issued by Govt. of India from time to time with a view to support the Indian industries, ISRO has implemented "Purchase Preference Policy". The "Purchase Preference" is applicable for the "Class-I Local Supplier" for the goods/ services/ works covered in this tender, subject to the following terms & conditions:-

- a. The Public Procurement (Preference to Make in India), Order 2017 issued by Govt. of India indicates that if there are any general or specific restrictive clauses to restrict participation of Indian companies in those countries procurement tenders, reciprocity clause need to be invoked as per the order. Hence, if ISRO or Govt. of India come across that Indian suppliers of an item are not allowed to participate and / or compete in procurement by your government, the bid submitted by you will be not be considered and excluded from eligibility for procurement. Please note this point.
- b. Purchase Preference Policy:- Goods/Works which are divisible in nature (required quantity is greater than 1 or not a package basis): a) The subject item falls under divisible category. b) The offers are sought from Class I & II Local Suppliers.
 - i). If L1 is 'Class-1 local supplier', the order/contract for full quantity shall be awarded to L1 bidder. ii). If L1 bid is not from a 'Class-I local supplier', 50% of the order quantity shall be awarded to L1. Thereafter, the lowest bidder among the 'Class-I local supplier' will be invited to match the L1 price for the remaining 50% quantity subject to the Class-I local supplier's quoted price falling within the margin of purchase preference (i.e. 20%) and contract for that quantity shall be awarded to such Class-I local supplier subject to matching the L1 price (inclusive of duties, taxes and freight & insurance). iii). In case such lowest eligible 'Class-I local supplier' fails to match the L1 price or accepts less than the offered quantity, the next higher 'Class-I local supplier' within the margin of purchase 'preference shall be invited to match the L1 price for remaining quantity and so on, and contract shall be awarded accordingly. In cases where none of the 'Class-I local supplier' within the margin of purchase agree to match L1 price, in such cases 100% quantity shall be ordered on original L1 bidder. iv). In case no offers are received from 'Class-I local supplier' or none of the 'Class-I local supplier' falls within the margin of purchase preference of 20%, the order shall be processed on L1 vendor. V). In case L1 bidder (not a 'Class-I local supplier') is not accepting splitting of order on 50:50 basis, in that case the order/contract shall be awarded to such 'Class-I local supplier' for full quantity subject to matching the L1 price. Vi). Regarding MSEs (Indian vendors): a) The following additional aspect as indicated below would be applicable for procurement which are falls under divisible category (i.e., not applicable for indivisible category), in case of participation of MSEs in the tendering who are also complying to the Minimum Local Content (MLC) stipulated in the tender. b) If any Indian vendor satisfies the requirement of MSEs stipulation and also falls within the purchase preference margin as called for in MSME policy (in case of matching L1 price) will be considered for ordering 25% of tendered quantity, the balance quantity / works will be considered for distribution amongst all bidders (including MSEs) as per the purchase preference policy. c) In case no MSEs qualifies for purchase preference or do not match with L1 price then the total tendered quantity will be distributed amongst all bidders as per the purchase preference policy.
- c. Purchase Preference Policy:- Goods/Works which are not divisible (ie., required quantity is 1 or as a package) and Services:
 - I). If L1 is from a 'Class-I local supplier', the contract will be awarded to L1 bidder. II) If L1 is not from a 'Class-I local supplier', the lowest bidder among the 'Class-I local supplier' will be invited to match the L1 price subject to local supplier's quoted price falling within the margin of

purchase preference (i.e. 20%) and the contract shall be awarded to such 'Class-I local supplier' subject to matching the L1 price (inclusive of duties, taxes and freight & insurance). III) In case such lowest eligible 'Class-I local supplier' fails to match the L1 price, the 'Class-I local supplier' with the next higher bid within the margin of purchase preference shall be invited to match the L1 price and so on, and order/contract shall be awarded accordingly. In case where none of the 'Class-I local supplier' within the margin of purchase preference agree to match the L1 price, then the order/contract shall be awarded to the original L1 Bidder.

- d. Works means all works as per Rule 130 of GFR- 2017, and will also include 'turnkey works'. Works includes Engineering, Procurement and Construction (EPC) contracts and services include System Integrator (SI) contracts.
- e. 'L1' means the lowest technically accepted tender / bid / quotation (i.e. lowest landed cost including duties, taxes and freight & Insurance).
- f. 'Margin of purchase preference' means the maximum extent to which the price quoted by the "Class-I local supplier" above the L1 (landed cost).
- g. The margin of Purchase Preference shall be up to 20%.
- h. 'Local content' means the amount of value added in India (i.e. indigenous items/services added in the offered products/ services/ works) be the total value of the item offered (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties/IGST) as a proportion of the total value (excluding net domestic indirect taxes), in percent.
- i. Definitions: A supplier or service provider, whose goods, services or works offered for procurement, has local content: i. Equal to or more than 50%: Class-I local supplier. ii. More than 20% but less than 50%: Class-II local supplier. iii. Less than or equal to 20%: Non-local supplier.
- j. The 'Class-I & II local supplier' should provide a "Self Certification" along with technical offer indicating that the item offered meets the minimum local content as called for in the tender and provide the percentage of local content along with details of the location(s) at which the local value addition is made. In case of two bid tenders, it is mandatory to indicate compliance to MLC (minimum Local Content) in technical bid zone.
- k. The ink-signed certificate shall be provided on vendors letter head along with the offer (, copy of ink-signed certificate shall be attached along with your offer under concerned tab. Original in Hard copy shall be produced on request). In case of non-submission of certificate, the purchase preference shall not apply.
- l. In cases the quoted price is in excess of Rs.1000 Lakhs (including duties, taxes and freight & Insurance) the 'Class-I & II local supplier shall provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in case of suppliers other than companies) giving the percentage of local content.
- m. A committee (with an external expert from a practicing cost accountant or practicing chartered accountant, if required) constituted for independent verification shall verify the self-declarations & auditor's / accountant's certificates on random basis, as per the requirements.
- n. In case of a complaint received from any local supplier indicating a need for review / verification of Local content of successful vendor / awarded vendor, for accepting a complaint from such complainant (w.r.t the false declaration given by the successful vendor on the local content), a complaint fee of Rs.2Lakhs or 1% of the locally manufactured items being procured (subject to a maximum Rs. 5Lakhs), whichever was higher, to be paid by demand draft by the complainant. In case, the complaint is found to be incorrect, the complaint fee shall be forfeited. In case, the complaint is upheld and found to be substantially correct, deposited fee of the complainant would be refunded without any interest.

- o. False declarations will be in breach of code of the integrity for which a bidder or its successor's will not be eligible/debarred for purchase preference from further tenders / pending tenders for two years along with other actions as may be applicable.
- 13. Are you claiming MSE purchase /price preference extended to MSEs/MSMEs. In case of such claims relevant documentary proof supporting MSE/MSME status shall be enclosed in the bid documents.
- 14. **NOTE**
 - The tender submitted by you shall be compulsorily signed. Unsigned tenders will be summarily excluded from the procurement process.
 - If any of the bidders submit any forged or false documents along with the tender, such tenders will be summarily rejected and such bidders will be blacklisted for all future tenders.
 - Being a Govt of India Dept., insurance is not required at our cost. Please ensure safe delivery of the ordered item with proper /ROAD/SEA/AIR worthy packing.
 - All delivery formats (PBG, SD IB) shall be provided by the Dept., in case of placement of order.

16. Conditions for BIDDER FROM A COUNTRY WHICH SHARES LAND BORDER WITH INDIA

- Any bidder from a country which shares a land border with India will be eligible to bid in this tender, only if the bidder is registered with the Competent Authority. Competent Authority for the purpose of registration shall be the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT).
- Validity of Registration: Registration should be valid at the time of submission of bids and should be valid at the time of placement of order.
- Any false declaration and non-compliance of the above would be a ground for immediate rejection of offer or termination of the contract and further legal action in accordance with the laws.

(Radhakrishnan Nair C S)
Sr. Purchase & Stores Officer
For and on behalf of the President of India
The Purchaser