

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE
ISRO TELEMETRY TRACKING & COMMAND NETWORK (ISTRAC)
BANGALORE**

Tender for Ka-Band ultra cryogenic cooled Low Noise Amplifier

Bids to be submitted online

Tender No.: ISTRAC/ISTRAC PURCHASE/TR202500026801 dated 07-05-2026

A. Tender Details

Tender No : **ISTRAC/ISTRAC PURCHASE/TR202500026801**

Tender Date : **07-05-2026**

Tender Classification: **GOODS**

Purchase Entity : **ISTRAC PURCHASE**

Centre : **ISRO TELEMETRY TRACKING & COMMAND NETWORK (ISTRAC)**

Ka-Band ultra cryogenic cooled Low Noise Amplifier

A) This is a dual part Public Tender. Please submit your offer separately for Technical and price Bid under relevant template. Please upload Price Bid under Price Bid only and nowhere else. If price is mentioned anywhere other than Price Bid, your offer will not be considered. 2)Please provide your compliance for (a) Performance Bank Guarantee clause (b) Liquidated Damages clause and Security Deposit clause and other terms and conditions of the tender enquiry.

B) GeM Non-availability report ID number: GEM/GARPTS/13102025/PQJCD2HR1SV7

C) Evaluation criteria: - Overall L1

D) Class I/ Class II/ Non Local Supplier shall be eligible to bid against this tender as defined in Make in India order.

E) Any clarification with respect to this tender shall be raised against clarification window in the new EGPS. No mail enquiries shall be entertained.

F) The rate of GST will be as applicable per the HSN code.

A.1 Tender Schedule

Bid Submission Start Date : **07-05-2026 15:30**

Bid Clarification Due Date : **28-05-2026 17:00**

Bid Submission Due Date : **08-06-2026 14:00**

Bid Opening Date : **08-06-2026 14:30**

Price Bid Opening Date : **30-06-2026 10:00**

B. Tender Attachments

NA

Instructions To Vendors

1. PROFORMA FOR INSTRUCTIONS TO TENDERERS AND TERMS & CONDITIONS OF TENDER

1. a) All available technical literature, catalogues and other data in support of the specifications and details of the items should be furnished along with the offer.

(b) Samples, if called for, should be submitted free of all charges by the tenderer and the Purchaser shall not be responsible for any loss or damage thereof due to any reason whatsoever. In the event of nonacceptance of tender, the tenderer will have to remove the samples at his own expense.

(c) Approximate net and gross weight of the items offered shall be indicated in your offer. If dimensional details are available the same should also be indicated in your offer.

(d) Specifications: Stores offered should strictly confirm to our specifications. Deviations, if any, should be clearly indicated by the tenderer in his quotation. The tenderer should also indicate the Make/Type number of the stores offered and provide catalogues, technical literature and samples, wherever necessary, along with the quotations. Test Certificates, wherever necessary, should be forwarded along with supplies. Wherever options have been called for in our specifications, the tenderer should address all such options. Wherever specifically mentioned by us, the tenderer could suggest changes to specifications with appropriate response for the same.

2. ACCEPTANCE OF STORES: (a) The stores shall be tendered by the Contractor for inspection at such places as may be specified by the purchaser at the Contractor's own risk, expense and cost. (b) It is expressly agreed that the acceptance of the stores Contracted for, is subject to final approval by the purchaser, whose decision shall be final. (c) If, in the opinion of the purchaser, all or any of the stores do not meet the performance or quality requirements specified in the Purchase Order, they may be either rejected or accepted at a price to be fixed by the purchaser and his decision as to rejection and the prices to be fixed shall be final and binding on the Contractor. (d) If the whole or any part of the stores supplied are rejected in accordance with Clause No. (c) above, the purchaser shall be at liberty, with or without notice to the Contractor, to purchase in the open market at the expense of the Contractor stores meeting the necessary performance and quality Contracted for in place of those rejected, provided that either the purchase, or the agreement to purchase, from another supplier is made within six months from the date of rejection of the stores as aforesaid.

3. ARBITRATION : All disputes, differences, claims and demands arising under or pursuant to or touching this agreement shall be referred to Arbitration of a sole Arbitrator to be appointed by the Director, ISTRAC, whose decision/award will be final and binding on both the parties. Such arbitration shall be held in Bangalore and shall be subject to and governed by the provisions of the Arbitration and Conciliation Act of 1996 or any statutory modification or re-enactment thereof. The language to be

used in Arbitration is English only.

4. As a Government of India Department, this office is exempted from payment of Octroi and similar local levies. Tenderers shall ensure that necessary Exemption Certificates are obtained by them from the Purchase Officer concerned to avoid any payment of such levies.

5. a) Your offer should be valid for 120 days from the date of opening of the tender. b) Prices are required to be quoted according to the units indicated in the annexed tender form. When quotations are given in terms of units other than those specified in the tender form, relationship between the two sets of units must be furnished.

6. CUSTOMS DUTY : This office is eligible for Concessional Customs Duty @ 5.5% against Ministry of Finance, Department of Revenue, Government of India, vide Customs Notification No.51/96-Cus Dated 23-07-1996 (Sl.No.1) and amended under Notification No.93/96 dated 11th December 1996 and 24/2002 dated 01-03-2002

7. DESPATCH: The Contractor is responsible for obtaining a clear receipt from the Transport Authorities specifying the goods despatched. The consignment should be despatched with clear Railway Receipt/Lorry Receipt. If sent in any other mode, it shall be at the risk of the Contractor. Purchaser will take no responsibility for short deliveries or wrong supply of goods when the same are booked on 'said to contain' basis. Purchaser shall pay for only such stores as are actually received by them in accordance with the Contract.

8. TAXES: GST is payable as per applicable rates.

9. GUARANTEE & REPLACEMENT: (a) The Contractor shall guarantee that the stores supplied shall comply fully with the specifications laid down, for material, workmanship and performance. (b) Warranty shall be for the period mentioned in the tender document. After the acceptance of the stores, if any defects are discovered therein or any defects therein found to have developed under proper use, arising from faulty stores design or workmanship, the Contractor shall remedy such defects at his own cost provided he is called upon to do so within the warranty period, by the purchaser who shall state in writing in what respect the stores or any part thereof are faulty. (c) If, in the opinion of the purchaser, it becomes necessary to replace or renew any defective stores such replacement or renewal shall be made by the Contractor free of all costs to the purchaser, provided the notice informing the Contractor of the defect is given by the purchaser in this regard within the said period of warranty from the date of acceptance thereof. (d) Should the Contractor fail to rectify the defects, the purchaser shall have the right to reject or repair or replace at the cost of the Contractor the whole or any portion of the defective stores. (e) The decision of the Purchaser notwithstanding any prior approval or acceptance or inspection thereof on behalf of the Purchaser, as to whether or not the Stores supplied by the Contractor are defective or any defect has developed within the said period of warranty or any other period or as to whether the nature of defects requires renewal or replacement, shall be final, conclusive

and binding on the Contractor. (f) To fulfill guarantee conditions outlined in (a) to (e) above, the Contractor shall, at the option of the Purchaser, furnish a Bank Guarantee (as prescribed by the Purchaser)

10. If the IGST is applicable, the same will be reimbursed if it is reflected in Bill Of Entry. Proof shall be provided while claiming payment.

11. It is to be noted that either Customs Duty or GST is applicable (any one)

12. JURISDICTION : The contract/ purchase order shall be governed by an interpreted and construed in accordance with the laws of India. The courts situated at Bangalore only shall have jurisdiction to deal with and decide any legal matter or dispute arising out of contract/ purchase order.

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

14. Please provide your compliance for Security Deposit, Performance Bank Guarantee and Liquidated Damages Clause.

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

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

17. Sales Tax and/or other duties/levies legally leviable and intended to be claimed should be mentioned in the price bid template. If nothing is mentioned, then it will be presumed that the rate quoted is inclusive of all taxes/duties.

18. SECURITY DEPOSIT: Wherever, the Purchase Order value is Rs. 5.00 Lakhs or more, on acceptance of the tender, the Contractor shall, at the option of the Purchaser and within the period specified by him, deposit with him, in cash or in any other form as the Purchaser may determine,

security deposit not exceeding ten percent of the value of the Contract as the Purchaser shall specify. If the Contractor is called upon by the Purchaser to deposit, 'Security' and the Contractor fails to provide the security within the period specified, such failure shall constitute a breach of the Contract, and the Purchaser shall be entitled to make other arrangements for the re-purchase of the stores Contracted at the risk of the Contractor in terms of Sub-Clause (ii) and (iii) of clause regarding Delivery. (b) hereof and/or to recover from the Contractor, damages arising from such cancellation.

19. SETTLEMENT OF DISPUTES : Except as otherwise specifically provided in the contract, all disputes concerning question of fact arising under the Contract shall be decided by the Purchaser subject to a written appeal by the Contractor to the Purchaser whose decision shall be final to the parties hereto. Any disputes or differences including those considered as such by only one of the parties arising out of or in connection with the Contract shall be, to the extent possible, settled amicably between the parties. If amicable settlement cannot be reached, then all disputes shall be settled by arbitration.

20. TERMS & CONDITIONS OF TENDER

21. TEST CERTIFICATE: Wherever required, test certificates should be sent along with the despatch documents.

22. The authority of the person signing the tender, if called for, should be produced.

23. The Purchaser reserves the right to place order on the successful tenderer for additional quantity up to 25% of the quantity offered by them at the rates quoted.

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

25. The tenderer should supply along with his tender, the name of his bankers as well as the latest Income-Tax clearance certificate duly countersigned by the Income-Tax Officer of the Circle concerned under the seal of his office, if required by the Purchaser.

26. The term Contractor shall mean, the person, firm or company with whom or with which the order for the supply of Stores is placed and shall be deemed to include the Contractor's successors, representative, heirs, executors and administrators unless excluded by the Contract.

27. The term Purchase Order shall mean the communication signed on behalf of the Purchaser by an Officer duly authorised intimating the acceptance on behalf of the Purchaser on the terms and conditions mentioned or referred to in the said communication accepting the tender or offer of the Contractor for supply of stores or plant, machinery or equipment or part thereof.

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

29. The term "Stores" shall mean what the Contractor agrees to supply under the Contract as specified in the Purchase Order including erection of plants & machinery and subsequent testing, should such a condition is included in the Purchase Order.

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

2. TENDER TERMS AND CONDITIONS

1. All information in Vendor Specified Terms shall be provided without fail to avoid unnecessary correspondence / delay in process. The same should reach before technical bid opening date and time without fail.

2. As per Rule 144(xi) of General Financial Rules, 2017, any bidder from a country which shares a land border with India will be eligible to bid in any procurement whether of goods, services (including consultancy services and non consultancy services) or works (including turnkey projects) only if the bidder is registered with the Competent Authority (i.e., Department for Promotion of Industry and Internal Trade) in line with Order (Public Procurement No. 1, 2 and 3) dated 23/07/2020 and 24/07/2020 or any amendments thereon issued by the Public Procurement Division, Department of Expenditure, Ministry of Finance. Hence, Vendors or Agents of a Vendor (Indian or Others) from a country sharing border with India shall submit the copy of Valid Registration made with DPIIT along with the tender mandatorily, without which the offer will be treated as invalid.

3. a) Order no: F.No.6/18/2019 PPD dated 23.07.2020 of Department of Expenditure), Ministry of Finance Under Public procurement division for the General Financial rule (GFRs).

4. b) Class I local supplier means a supplier or service provider, whose goods, service or works offered for procurement, has local content equal to or more than 50%, as defined under order.

5. c) Class II local supplier means a supplier or service provider, whose goods, services or works offered for procurement, has local content more than 20% but less than 50%, as defined under this Order.

6. d) Bidders offering imported products will fall under the category of Non-local suppliers. They cannot claim themselves as Class I Local suppliers/Class II Local suppliers by claiming the services such as transportation, insurance, installation, commissioning, training and after sales service support like AMC/CMC etc. as local value addition.

7. e) Verification of local content: i) The Class I local supplier/ Class II local supplier at the time to tender, bidding or solicitation shall be required to indicate percentage of local content and provide self certification that the item offered meets the local content requirement for Class I local supplier / Class II local supplier as the case may be. They shall also give details of the location(s) at which the local value addition is made.

8. A supplier who has been debarred by any procuring entity for violation of this order shall not be eligible for preference under this order for procurement by any other procuring entity for the duration of the debarment. The debarment for such other procuring entities shall take effect prospectively from the date on which it comes to the notice of other procurement entities, in the manner prescribed.

9. Delivery Terms: FOR ISTRAC

10. GENERAL TERMS & CONDITIONS FOR BIDDERS: For this procurement, bids from Class I, class II and Non-Local Suppliers are admissible. Provisions contained in Public Procurement (Preference to Make in India), Order 2017 issued by Department for Promotion of Industry and Internal Trade (DIPP), Ministry of Commerce & Industries vide letter No. P 45021/2/2017 PP(BE II) dated 04.06.2020 and subsequent amendment & directives shall be followed. Accordingly, offer will be evaluated & processed in conformation with above referred GOI order (Specially mentioned below). The bidder shall provide compliance and undertaking as per order and hereafter amendments:

11. If an agent submit bid on behalf of the principal/OEM, the same agent shall not submit a bid on behalf of another principal/OEM in this tender for the same item. If submitted, all offers will be liable for rejection.

12. iii) False declarations will be in breach of the code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules (GFR) for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the general Financial Rules along with such other actions as may be permissible under Law.

13. ii) In case bid value is in excess of Rs. 10 Cr., Class I local supplier/ Class II local supplier shall be required to 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 respect of suppliers other than companies) giving the percentage of local content.

14. In case the bidders propose any other payment terms in deviation with the standard terms mentioned in the tender enquiry, it may be noted that applicable cash flow implications will be loaded on the prices quoted for commercial comparison of the offers. If advance payments are insisted by the bidders, interest at the rate of MCLR (Marginal Cost Linked Rate) as notified by State Bank of India from time to time shall be loaded on the prices for price comparison.

15. In this tender either the Indian agent on behalf of the principal/OEM or the principal /OEM itself can bid, but both cannot bid simultaneously for the same item. Indian agents while quoting on behalf of their principals shall provide necessary latest authorisation letter obtained from their principals/manufacturers.

16. Liquidated damages: If the vendor fails to deliver the items on or before the delivery date, or any extension thereafter purchaser shall recover from the vendor as liquidated damages a sum of 0.5% of the contract price of the undelivered stores for each calendar week of delay. The total liquidated damages shall not exceed 10% of the contract price of the unit or units so delayed.

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

18. Model Certificates for Tenders for Work involving possibility of sub contacting: I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub contracting to contracting from such countries I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority and will not sub contract any work to a contract form such countries unless such contractor is registered with the Competent Authority. I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered. Provide Compliance for the above in Vendor Specified Commercial Terms.

19. NO EMD AND TENDER FEE.

20. Performance Bank Guarantee (PBG) to be furnished as a security for fulfilment of warranty obligations by the successful vendor after satisfactory execution of purchase order/Contract (3% of the value of the purchase order/Contract). Central SUs/PSE/Autonomous bodies are exempted from the production of Performance Bank Guarantee. Instead; an indemnity bond shall be furnished in lieu of PBG.

21. Product Scope: Class I local supplier/ Class II local supplier shall offer only standard and catalogued product for Equipment / Spares Cards / assemblies. If the above offered Equipment / Cards / Assemblies are under development / to be developed the bid will not be considered.

22. PUBLICITY: No publicity of any kind whatsoever in case of PURCHASE ORDER shall be given by the Supplier without prior permission of the Purchaser.

23. SECRECY: The technical information, drawings, specifications and other related documents, forming part of the CONTRACT, are the property of the Purchaser and shall not be used for any other purpose, except for execution of the CONTRACT. All rights, including rights in the event of grant of

patent and registration of designs are reserved. The technical information, drawings, specifications, records and other documents shall not be copied, transcribed, traced or reproduced in any other form or otherwise in whole and/or duplicated, modified, divulged and/or disclosed to a third party nor misused in any other form whatsoever without Purchasers consent in writing except to the extent required for the execution of this CONTRACT. These technical informations, drawings, specifications and other related documents shall be returned to the Purchaser with approved copies and duplicates, if any, immediately after they have been used for the agreed purpose.

24. Senior Purchase and Stores Officer, ISTRAC, reserves the right to accept or reject any/or all the tenders in part or full without assigning any reasons thereof.

25. Submit the bid on or before due date.

26. Successful vendor has to submit the security deposit. (3 % of the value of the purchase order). Central PSUs/PSE/Autonomous bodies shall be exempted from the payment of security deposit, and instead, an indemnity bond shall be secured from them.

27. VENDORS HAS TO REFLECT THE POINT NO (4), (5) AND (6) IN THEIR BID.

28. TAXES: GST is payable as per applicable rates.

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

3. INSTRUCTIONS TO TENDERERS FOR ONLINE SUBMISSION OF TENDERS THROUGH E-PROCUREMENT SYSTEM

1. a) Bidders shall arrange themselves all resources, including Digital signature certificates and Internet Connections at their own cost, for participating in online tendering.
- b) Vendors can download the tender details and submit their offers online using their vendor accounts (obtained during registration) in our portal. Help demos for tender download and bidding processes are given on home page.
- c) The tender should be submitted online in the ISTRAC link before the due date and time as specified in the tender schedule in the portal.
- d) Vendors shall also take note of other Instructions to tenderers indicated in the tender documents.

2. Conditions for online submission of tenders:

- a) It is mandatory for interested parties to register as vendors in our e-procurement portal <https://eproc.vssc.gov.in/home.html> for participating in online eProcurement process of ISRO. Only

registered vendors can submit their offers online in our eProcurement portal.

- b) Vendors who are already registered in the existing EGPS software of ISRO, please register by clicking the link in the email you would have already received from 'eproc@vssc.gov.in'. After registration, do the profile update by login to this portal.
- c) For new vendors, who are not registered in the existing EGPS software, vendor registration will be released along with the portal release. To register as vendors please refer to the help demos listed on the home page of the e-procurement link mentioned above. They may approach help desk (contact details provided on the home page) for any technical help for registration and subsequent process.
- d) OEM details should be added in your E-Procurement profile under Add Agent/Principal without fail.

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

4. Procedure for seeking clarifications/help for the tender:

- a) All enquiries regarding the tenders and submission of offers shall be online and only through our eProcurement portal.
- b) Vendors may approach help desk e-mail id and phone number given on the home page for any technical help (e-mail: eproc@vssc.gov.in and Phone: +91471 2565454/4574/2527/3753/3289).

5. Queries by vendors on technical problems on the last day of tender will not be binding on ISTRAC/ISRO for resolving/addressing. ISTRAC will not be responsible for non-submission of bids for those cases.

4. CERTIFICATE OF UNDERTAKING

1. A certificate from the bidder shall be enclosed along with their quotation (Technical bid) as per the format enclosed.

2. An AGENT is a person employed to do any act for another, or to represent another in dealings with third person.

3. 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 is : DEPARTMENT FOR PROMOTION OF INDUSTRY AND INTERNAL TRADE (DPIIT)).

4. (b)Control shall include the right to appoint majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholders agreements or voting agreements.

5. Bidder from a country which shares a land border with India for the purpose means:

- (a) An entity incorporated, established or registered in such a country; or
- (b) A subsidiary of an entity incorporated, established or registered in such a country; or
- (c) An entity substantially controlled through entities incorporated, established or registered in a such a country; or
- (d) An entity whose beneficial owner is situated in such a country; or
- (e) An Indian (or other) agent of such an entity; or
- (f) A natural person who is a citizen of such a country; or
- (g) A consortium or joint venture where any member of the consortium or joint venture falls under any of the above.

6. **BIDDER** (including the term tenderer, consultant or service provider in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.

7. CERTIFICATE

8.

COMPANY NAME AND SEAL:

9. DESIGNATION:

10. Explanation:

(a) Controlling Ownership interest means ownership of or entitlement to more than twenty-five per cent of shares or capital or profits of the company;

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ISTRAC, BENGALURU: 560 058.

12. iii) In case of an unincorporated association or body of individuals, the beneficial owner is the

natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals.

13. (iii).I/We _____ hereby undertake that if the Certificate is found to be false at any given time ISRO/ISTRAC may treat this as a ground for immediate termination and further legal action in accordance with law can be initiated.

14. ii)In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership.

15. (ii).I/We hereby confirm that the country of origin of goods is _____

16. i)In case of a company or Limited Liability Partnership, the beneficial owner is a natural person(s), who, whether acting alone or together, or through one or more juridical person, has a controlling ownership interest or who exercises control through other means.

17. (i).I/WE _____ read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India. I / We _____ Certify that this bidder is not from such a country.

18. iv)Where no natural person is identified under (i) or (ii) or (iii) above, the beneficial owner is the relevant natural person who holds the position of senior managing official.

19. I / We _____ Certify that this bidder is from such a country and registered with the Competent Authority (i.e. Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT). Copy of Registration Certificate is enclosed.

20. NAME:

21. OR*

I/We _____ read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India.

22. Ref:Tender No _____ date _____

Our Quotation No. _____ date _____

23. REQUIREMENT OF REGISTRATION:

24. SIGNATURE:

25. (* Strike out whichever is not applicable).

26. Subject: Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs) 2017 - reg.

27. The beneficial owner for the purpose of (6) above will be as under:

28. (TO BE PRINTED ON THE LETTER HEAD OF THE VENDOR)

29. v)In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.

5. MAKE IN INDIA UNDERTAKING (VENDORS SHALL SUBMIT THE BELOW CERTIFICATE ON THEIR LETTER HEAD DULY SIGNED)

1. The type of Class which the vendor belongs:Class-I or Class-II Local Suppliers as defined under DPIIT Order dtd 04/06/2020- Preference to Make in India Order-2017 Revision.(Class I local supplier means a supplier or service provider, whose goods, service or works offered for procurement, has local content equal to or more than 50% & Class II local supplier means a supplier or service provider, whose goods, services or works offered for procurement, has local content more than 20% but less than 50%). NOTE: Bidders offering imported products will fall under the category of Non-local suppliers. They cannot claim themselves as Class I Local suppliers/Class II Local suppliers by claiming the services such as transportation, insurance, installation, commissioning, training and after sales service support like AMC/CMC etc. as local value addition.

2. Percentage of local content for the quoted item.

3. Details of location (s) at which the local value addition is made

4. Provide self-certification that the item (s) offered meets the local content requirement for Class-I/Class-II Local Suppliers as the case may be.

C. Bid Templates

C.1 Technical Bid - Ka-Band ultra cryogenic cooled Low Noise Amplifier

1. CRYO LNA (Ka-Band) with 2 years standard warranty and minimum spares.

Item specifications for CRYO LNA (Ka-Band) with 2 years standard warranty and minimum spares.

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Frequency Range	31.8 GHz to 32.3 GHz	Yes / No / Explain		
2	NT at 15K Physical Temperature	<27K at RF input	Yes / No / Explain		
3	Gain	≥ 55 dB	Yes / No / Explain		
4	Gain Flatness	≤3dB peak to peak	Yes / No / Explain		
5	Maximum Gain Slope	≤ 0.05dB/MHz	Yes / No / Explain		
6	Out of Band rejection	>60 dB for frequencies: 20 GHz to 30 GHz >60dB for frequencies: >34 GHz	Yes / No / Explain		
7	Gain stability over time	< 0.5dB peak to peak over 24 hrs	Yes / No / Explain		
8	Group delay variation	≤2.5ns pp over 100MHz	Yes / No / Explain		
9	Group delay stability	≤±2.5ns pp over 24Hrs at 27K	Yes / No / Explain		
10	Pout 1dB	5 dBm minimum	Yes / No / Explain		
11	Input VSWR	Better than 1.5:1 (RL=14dB)	Yes / No / Explain		
12	Output VSWR	Better than 1.3:1 (RL=17.7dB)	Yes / No / Explain		
13	Gain at P1dB	≥ 55 dB	Yes / No / Explain		

14	Spurious and Harmonic levels	< -65 dBc	Yes / No / Explain		
15	Input Interface	WR-28, UBR320, flat flange	Yes / No / Explain		
16	Output Connector	K type (2.92mm) female 50 Ω	Yes / No / Explain		
17	Test input connector	K type (2.92mm), female 50Ω	Yes / No / Explain		
18	Injection coupler	An injection coupler is required in front of each LNA. Coupling factor: 30dB	Yes / No / Explain		
19	LNA system configuration	1:1 mode	Yes / No / Explain		
20	Specifications of Cooling system		-		
21	Cold head base temperture	<15K	Yes / No / Explain		
22	Time to reach base temperature	<6h	Yes / No / Explain		
23	Time to warm-up	<2h	Yes / No / Explain		
24	Base temperature stability	± 1K over 100hrs	Yes / No / Explain		
25	Cold head exchange maximum time	<30min	Yes / No / Explain		
26	Helium Compressors	Each cryogenic Dewar shall be provided with a dedicated compressor.	Yes / No / Explain		
27	Cold head sleeves	All Dewars shall be provided with a sleeve mechanism in order to allow exchanging the cold head(s) without dismantling the Dewar	Yes / No / Explain		
28	Thermometers	All Dewars shall be supplied with thermometers to monitor the ambient temperature and the ones of each cryogenic stage	Yes / No / Explain		
29	Cooler type and capacity	Gifford McMahon and capacity of 6W at 20K	Yes / No / Explain		

30	Material for vacuum flange	Aluminium	Yes / No / Explain		
31	Number of Dewars to be supplied with 02 RF chains per Dewar.	02	Yes / No / Explain		
32	PC and other hardware for parameter monitoring	01	Yes / No / Explain		
33	Mechanical Dimensions of Dewar systems (Maximum)	1m high x 40 cm wide x 40 cm long	Yes / No / Explain		
34	Mechanical Dimensions of Compressor system (Maximum)	70 cm (H)x 68 cm (D)x 60 cm (W)	Yes / No / Explain		
35	MTTR and MTBF of Dewar systems	MTTR < 12 hrs MTBF: 50,000 hrs	Yes / No / Explain		
36	AC Power Supply	Single Phase: 230V +/- 5%, 47Hz-53Hz frequency	Yes / No / Explain		
37	Maximum length of gas lines	20 meters	Yes / No / Explain		
38	Specifications of Radiometric system		-		
39	Noise Temperature	0.5% corresponding to 0.02 dB measurement resolution.	Yes / No / Explain		
40	Overall measurement accuracy	6% RSS	Yes / No / Explain		
41	Range of measurement	20K to 120K	Yes / No / Explain		
42	RF measurement band	Ka-band 31.8 GHz to 32.3 GHz	Yes / No / Explain		
43	IF Freq	70 MHz	Yes / No / Explain		
44	Measurement BW	10 MHz	Yes / No / Explain		
45	Basic measurement time	<1 sec	Yes / No / Explain		
46	Time stamp precision	1 ms	Yes / No / Explain		
47	UTC interface with station clock	IRIG-B, 1 KHz	Yes / No / Explain		

48	Separate PC hardware for the display of Tsys value and for logging the measured values.	01	Yes / No / Explain		
49	Tsystem measurement capabilities required:	1. Overall Tsys measurement (including antenna terminal and LNA system) 2. Tsystem measurement of individual cryo LNA system The Tsystem measurement system for individual LNA can be in-line measurement or plug in and plug out. Note: The Tsystem measurement shall not degrade the specified Tsys	Yes / No / Explain		
50	Specifications of M&C system		-		
51	Remote operation	The M&C interface of the equipment shall provide all means to allow its remote operation (e.g. configuration and performance monitoring) via the Front-End Controller.) Physical temperature, Pressure and switch position etc.	Yes / No / Explain		
52	LAN interface	All equipment shall have a LAN M&C.Interface. Vendor shall provide hardware switch and switch configuration.	Yes / No / Explain		
53	Frequency of remote polling	The M&C interface shall permit a polling of the M&C information every 2 seconds	Yes / No / Explain		

54	M&C interface protocols	The equipment shall support one of the following M&C interface protocols: Basic M&C [MUC ICD] and protocols derived from it SNMP BacNet [BACNET] SED Proprietary protocol [SED M&C] Modbus/TCP [MODBUS]	Yes / No / Explain		
55	Hand-shake	The M&C interface protocol shall carry out the hand-shake on application level	Yes / No / Explain		
56	Configurable IP addresses	All equipment shall have configurable IP addresses, masks, gateway addresses	Yes / No / Explain		
57	DNS support	All equipment shall support DNS	Yes / No / Explain		
58	Local/remote mode	The M&C function shall include MMI and a remote M&C interface to allow the following separate operational modes: Local (Monitoring and control via the equipment/subsystem MMI) Remote (Monitoring and control via the M&C interfaces)	Yes / No / Explain		
59	Parameters and functions availability	All parameters and functions available via the subsystem/equipment MMI shall also be available via the M&C interface except explicitly mentioned	Yes / No / Explain		
60	Control availability: remote mode	The control via the M&C interface shall only be possible when the equipment is in remote mode	Yes / No / Explain		
61	Control availability: local mode	The control via the equipment MMI shall only be possible when the equipment is in local mode	Yes / No / Explain		

62	Monitoring always available	Monitoring of the equipment via MMI and M&C interface shall always be possible, independent from the local/remote mode	Yes / No / Explain		
63	Local MMI	The local MMI shall consist of a web browser interface and/or in a local panel.	Yes / No / Explain		
64	Organization of the subsystems/equipment	The M&C parameters shall be organized according to the subsystems/equipment.	Yes / No / Explain		
65	Monitored commandable parameters	Each commandable M&C parameter shall also be a monitoring parameter (with the exception of the RESET command).	Yes / No / Explain		
66	Information available at MMI and M&C interface	The following information shall be available via the subsystem/equipment MMI and the M&C interface: <ul style="list-style-type: none"> • Status of equipment/subsystem • Settings/configuration parameters • Fault conditions • Interlock/RF inhibit status • RF switch position • Sensor readouts: Temperature and pressure 	Yes / No / Explain		
67	Software version	The software version shall be provided via the M&C interface	Yes / No / Explain		
68	Power failure remote state fallback	All remotely controllable equipment shall come back in the remote state after a power failure or a reboot	Yes / No / Explain		
69	Configuration retention	The configuration stored by the equipment shall not be lost after power Cycling	Yes / No / Explain		

70	Power outage recovery	After a power outage the M&C equipment shall recover without the need to reset manually alarms or failures	Yes / No / Explain		
71	Environment Parameters		-		
72	Ambient Temperature	The system shall work between temperature range of 18deg C to 23 deg C	Yes / No / Explain		
73	Ambient operation air humidity	90% no condensation	Yes / No / Explain		
74	Altitude	Up to 2500m from sea level	Yes / No / Explain		
75	Storage air temperature	-20 °C to 70 °C	Yes / No / Explain		
76	Transport mechanical conditions	Equipment shall meet the mechanical conditions allowing to withstand different modes of transport (road, air ocean, railroad) as well as to their handling and on-site installation	Yes / No / Explain		
77	Packaging	Packaging shall guarantee adequate protection against shocks during transport via air, ship, truck	Yes / No / Explain		
78	Specifications of Dehydrator		-		
79	Operation regeneration	Automatic mode and Demand mode	Yes / No / Explain		
80	Discharge pressure	10 mbar to 500 mbar	Yes / No / Explain		
81	Flow rate	12 litres per minute	Yes / No / Explain		
82	Minimum output dew point at 95% RH	-40 degree C	Yes / No / Explain		
83	Number of ports	One	Yes / No / Explain		
84	Output connector for Dehydrator	3/8 inch	Yes / No / Explain		

85	Output fittings	3/8-inch hose pipe 5 mtr (Suitable conversions/adaptors to be provided for interfacing hose with pressure outlet)	Yes / No / Explain		
86	Alarm	Configurable for Low and High pressure to identify leakage	Yes / No / Explain		
87	Display	Alarms and pressure	Yes / No / Explain		
88	Remote Monitoring	Monitoring of relevant parameters like pressure, flow rate, alarms etc through ethernet. LAN RJ45	Yes / No / Explain		
89	Installation	Indoors 19" rack mountable.	Yes / No / Explain		
90	Ambient Temperature for dehydrator operation	5 deg.C to 45 deg.C	Yes / No / Explain		
91	Operating voltage	230V AC +/- 5%, 47-53 Hz	Yes / No / Explain		
92	Warranty for Dehydrator	2 years standard warranty	Yes / No / Explain		
93	Mechanical Dimensions (Maximum)	Height: 177.8 mm (4U)	Yes / No / Explain		
94	For Detailed specification of the Ka-band Ultra Cryo cooled LNA. Request to refer the RFP document (annexure attached). Give your compliance to the details mentioned in RFP document.		-		

Document : RFP document.

2. Extended Warranty

Item specifications for Extended Warranty

SI No	Specification	Value	Compliance	Offered Specification	Remark
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1	Extended Warranty of 3 years apart from standard warranty of 2 years.	3 years	Yes / No / Explain		
2	Warranty should start from the date of acceptance of the unit at ISTRAC.		-		
3	During the delivery of the items vendor shall provide duly authorized warranty certificates from Original Equipment Manufacturer (OEM) only.		-		
4	During the warranty period in case of any failure of the unit, first attempts will be made to diagnose the fault locally with remote assistance via phone/e-mail/fax from the vendor.		-		
5	Vendor shall provide the quote for warranty period in the commercial bid separately. Vendor shall clearly mention the cost for each year of extended warranty.		-		
6	The payment for extended warranty duration will be made on pro-rata half yearly basis.		-		
7	During the period of extended warranty of 03 years, the responsibility of shipping the goods to OEM and the responsibility of shipping back the units to ISTRAC shall be OEM's responsibility with DAP Bangalore Airport incoterm. Custom duty, custom clearance, etc will be borne by respective party at their respective country.		-		

8	For further details, request to refer the RFP document (annexure attached). Give your compliance to the details given in RFP document.		-		
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Common Specifications (Applicable for all items)

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	This is two-part tender. Bidder shall submit techno-commercial offer and price bid separately. Techno-commercial bid shall include all Technical, commercial terms & conditions, payment schedules etc. except the price information.		-		
2	Disclosure of any amount/price in techno-commercial bid will lead to rejection of offer.		-		
3	This LNA system is required to be operated in 24/7 basis. So, it shall have maximum reliability and very high availability figures.		-		

4	The bidder shall provide complete technical details of the offer with detailed explanation of the system, the various options available and any other information that may be required to evaluate the offer. ISTRAC reserves right to reject any incomplete offer.		-		
5	The bidder shall bring out point-by-point technical compliance matrix against all the specifications and functional requirements. The bidder shall explicitly bring out all the points wherever the specifications are not met or exceeded.		-		
6	The party shall be a reputed one with min. 10 years of experience in manufacturing similar system.		-		

7	<p>Vendor shall have supplied at-least one Ultra Cryogenic cooled LNA in last five years (2021-2025). The party shall provide the list of customers, to whom similar systems have been supplied during last five years (2021-2025) by them and performance certificates/ documentary proof from the end user. MSME/startup Vendors will not get any exemptions for not having prior experience in Cryo LNA domain due to its usage in mission critical operations.</p>		-		
8	<p>The vendor shall be OEM or authorised vendor of OEM. Necessary certification has be produced. Without which the offer shall be rejected.</p>		-		
9	<p>Delivery of total order and installation at D32, IDSN, Bengaluru shall not exceed 20 months from the date of PO release by ISTRAC.</p>		-		

10	The bidder shall also provide the quotation for extended warranty period (for 3 years) apart from the two-year standard warranty		-		
11	The extended warranty payment shall be on half-yearly basis. The payment shall be made on pro-rata basis after completion of 2 years of standard warranty.		-		
12	The bidder shall guarantee supply of spares and maintenance support for at least 10 years from the date of acceptance of the system.		-		
13	Party shall provide detailed user operation and maintenance manual in English and remote operation software along with the product. User manual shall also include required information/schematics for first level of trouble shooting of the system at field		-		

14	<p>13.The L1 criteria shall be based on the total cost which includes equipment cost with two-year standard warranty, minimum spares cost mentioned in the spares table (Table-8) and extended warranty cost of 3 years beyond standard warranty.</p>		-		
15	<p>The cost of warranty and each year of extended warranty shall be between 4% to 8% of the basic cost of the equipment. If this condition is not met, the bid will be summarily rejected.</p>		-		
16	<p>The vendor shall prepare a detailed FAT report including test results, deviation (if any), with taken corrective action and submit to ISTRAC for approval before the actual shipment of the equipment. FAT test template to be send to ISTRAC for prior approval.</p>		-		

17	<p>Vendor shall respond to the query related to issues observed during system operations within 48 Hours from the issue intimation through Phone/video call/email or in-Person (if required) during warranty period. Failure to do so, a penalty will be imposed 0.5% per week of delay to 10% of warranty value of that particular year.</p>		-		
18	<p>SAT (Site Acceptance test) and commissioning of the system at site should be completed by the supplier within 45 days after the delivery, until otherwise advised by ISTRAC In case of any deviation in system performance at Site with respect to FAT performance, vendor will be responsible for rectification of issue without any additional cost.</p>		-		

19	<p>ISTRAC representative may witness the FAT at supplier's facility. The supplier shall provide at least 45 Days advance notification to schedule the FAT before the delivery schedule. The cost incurred for the visit of ISTRAC representative(s) shall be borne by ISTRAC.</p>				
20	<p>Vendor need to provide 3-day training on "System Operation and maintenance" to 10 ISTRAC engineers at Site (ISTRAC, Bangalore) without any additional cost.</p>				
21	<p>During the period of standard warranty of 02 years, the responsibility of shipping the goods to OEM and the responsibility of shipping back the units to ISTRAC shall be OEM's responsibility with DAP Bangalore Airport incoterm. Custom duty, custom clearance, etc will be borne by respective party at their respective countr</p>				

Supporting Documents required from Vendor

1. Compliance Matrix. Data sheet of the product. Previous experience in Cryo and RF systems. Price Quotation.

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	Supply conditions mentioned in the General conditions.	Yes / No / Explain	
2	Payment Term : (a) Towards supply and Installation & Commissioning :As per RFP under table 9 (b) Towards Extended warranty.: Pro-rata half yearly basis after completion of two years standard warranty.	Yes / No / Explain	
3	Taxes and other costs, if any	Yes / No / Explain	
4	Delivery Period	Yes / No / Explain	
5	Delivery Term	Yes / No / Explain	
6	Security Deposit: FD or BG for 3% of total PO value incl. taxes to be submitted within 30 days after receipt of PO and valid till supply & acceptance.	Yes / No / Explain	
7	Performance Bank guarantee : BG for 3% of total PO value incl. taxes to be submitted while claiming payment valid till end of warranty period with a claim period of 60 days.	Yes / No / Explain	
8	SD-cum-Warranty (PBG) (in lieu of SD & PBG as a single instrument): BG for 3% of total PO value incl. taxes to be submitted within 30 days after receipt of PO valid till end of warranty period with a claim period of 60 days.	Yes / No / Explain	

9	<p>DELAY IN COMPLETION / LIQUIDATED DAMAGES :Time is the essence of the contract. If the Contractor fails to deliver the stores within the time specified in the Contract or any extension thereof, the Purchaser shall recover from the Contractor as Liquidated Damages a sum of one-half of one per cent (0.5%) of the Contract price of the delayed stores for each calendar week of delay. The total liquidated damages shall not exceed ten percent (10%) of the contract price. Stores will be deemed to have been delivered only when all their component parts are also delivered. If certain components are not delivered in time, the stores will be considered as delayed until such time as the missing parts are delivered.</p>	Yes / No / Explain	
10	<p>Down Time Compensation: As per RFP</p>	Yes / No / Explain	
11	<p>Warranty Period</p>	Yes / No / Explain	
12	<p>Validity (90 days for Single Part tenders, 120 days for Two part tenders & 90 days after price bid opening)</p>	Yes / No / Explain	
13	<p>Name and Address of the company on whom purchase order to be placed.</p>	Yes / No / Explain	
14	<p>Certificate of Undertaking: Any bidder from a country which shares a land border with India will be eligible to bid in any procurement whether of goods or services (including consultancy services and non consultancy services) or works (including turn-key projects) only if the bidder is registered with the Competent authority (i.e. DPIIT). Hence, it is mandatory to furnish Certificate of Undertaking as indicated in the tender document.</p>	Yes / No / Explain	

15	Foreign vendors are permitted to quote. 1. Class -I and Class-II Local suppliers/Non-local suppliers as per make in India policy are also eligible to participate in the bid. 2. The percentage of local content should be specifically mentioned in the offer if the quote is from Class-I or Class-II local supplier 3. Preference will be given as per MII order. For tender valuing more than INR 10 Crores, Certificate from CA/Cost accountant as specified in MII order to be submitted)	Yes / No / Explain	
16	Percentage of local content for the quoted item.	Yes / No / Explain	
17	Details of location (s) at which the local value addition is made	Yes / No / Explain	
18	Government e-Marketplace Seller ID	Yes / No / Explain	
19	Any other terms	Yes / No / Explain	
20	Whether Micro and Small Enterprises [MSEs] (Yes or no). Please submit valid MSE certificate along with the bid.	Yes / No / Explain	
21	Whether you are claiming MSE Purchase preference (Yes or No)	Yes / No / Explain	

22	<p>Arbitration: Local suppliers: :In the event of any dispute/s, difference/s or claim/s arising out of or 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 together with amendments thereto or any modification thereof. The Arbitration shall be conducted in Bengaluru in the Arbitration and Conciliation Centre-Bengaluru (Domestic and 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 Tenderer during the pendency of arbitration proceedings, without prejudice to a final adjustment in the accordance with the decision of the Arbitrator unless otherwise directed in writing by the Purchaser or unless the matter is such that the works cannot be possibly continued until the decision (whether final or interim) of the Arbitrator is obtained. Adherence and acceptance to this Clause is Compulsory or otherwise the Tender will be rejected.</p>	Yes / No / Explain	
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23	Arbitration with Overseas Supplier: In the event of any dispute or difference arising out of or in connection with this Purchase Order, such dispute or difference shall be settled amicably by mutual consultants or through the good offices of the respective parties. If such resolution is not possible, then the unresolved dispute or difference shall be referred to the Sole Arbitrator appointed in accordance with provisions of the ICADR Arbitration Rules, 1996 of the International Center for Alternative Dispute Resolution, New Delhi. The Arbitration shall be conducted in India in accordance with the Rules & Procedures of the Arbitration and Conciliation Act of 1996 or any re-enactment or modification thereof. The expenses for the Arbitration shall be paid as may be determined by the Arbitrator. The Seat for Arbitration shall be Bengaluru. The applicable language for Arbitration shall be English only. Adherence and acceptance to this Clause is Compulsory or otherwise the Tender will be rejected.	Yes / No / Explain	
24	Arbitration with Public Sector Undertakings: In the event of any dispute or difference relating to the interpretation and application of the Contract, such dispute or difference shall be taken up by either party for resolution through AMRCD as mentioned in DPE OM No. 4 (1)/2013 - DPE (GM) /FTS 1835 dated 22.05.2018 and/or amended thereafter".	Yes / No / Explain	
25	Percentage of Agency Commission included in the quoted price.	Yes / No / Explain	
26	Country of Origin	Yes / No / Explain	
27	During Warranty, To and Fro charges in case of repairs/replacements will be to suppliers account.	Yes / No / Explain	

C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Remark
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1	CRYO LNA (Ka-Band) with 2 years standard warranty and minimum spares.	1.00 Nos.		-		
2	Extended Warranty	3.00 Years		-		

Common charges (Applicable for all items)

P&F Charges	
Freight Charges	
Installation Charges	
Documentation & Handling Charges	
Other Charges (If any)	