अंतर - विश्वविद्यालय त्वरक केंद्र
INTER-UNIVERSITY ACCELERATOR CENTRE
(विश्वविद्यालय अनुदान आयोग का स्वायत्त निकाय)
(An Autonomous Centre of UGC)
अरुणा आसफ अली मार्ग, नई दिल्ली - 110067
Aruna Asaf Ali Marg, New Delhi - 110067

ई-निविदा आमंत्रण सूचना / NOTICE INVITING E-TENDER

निविदा संख्या : एनआईटी/08R/ वी.वी.वी.एस/आई.681/26-27 **दिनांक: 23/11/2026**
Tender Number: NIT/08R/VVVS/I.681/26-27 **Dated: 23/11/2026**

अंतर-विश्विधालय त्वरक केंद्र (आईयूएसी) निदेशक आईयूएसी, नई दिल्ली की ओर से ई-प्रोक्योरमेंट पोर्टल के माध्यम से दो बोली प्रणाली, यानी तकनीकी और वित्तीय बोलियों के तहत आईयूएसी, नई दिल्ली-110067 की ओर से "**अनुलग्नक ए के अनुसार 30kW, 97MHz सॉलिड-स्टेट आरएफ पाि◌र एम्पलीफायर** "की आपूवति के वलए ऑनलाइन बोवलयां आमंवत्रत करता है।

Inter-University Accelerator Centre (IUAC) invites online bids on behalf of the Director IUAC, New Delhi through e-procurement Portal under two bid system, viz., Technical and Price bids, from eligible / experienced parties for **30kW, 97MHz Solid-State RF Power Amplifier as per Annexure A**.

निविदा दस्तावेज, सेंट्रल पब्लिक प्रोक्योरमेंट (सीपीपी) पोर्टल https://eprocure.gov.in/eprocure/app से मुफ्त में डाउनलोड किए जा सकते हैं। इच्छुक बोलीदाता, जिन्होंने ई-प्रोक्योरमेंट पोर्टल में नामांकन/पंजीकरण नहीं किया है, उन्हें भाग लेने से पहले https://eprocure.gov.in/eprocure/app वेबसाइट के माध्यम से नामांकन/पंजीकरण करना होगा। बोलियां केवल https://eprocure.gov.in/eprocure/app वेबसाइट पर ऑनलाइन जमा करनी होगी। निविदाकारों/ठेकेदारों/बोलीदाताओं को सलाह दी जाती है कि वे ई-प्रोक्योरमेंट पोर्टल में दिए गए निर्देशों का पालन करें। बोली दस्तावेजों को 100 डी.पी.आई. में ब्लैक एंड व्हाइट स्कैन करें, जो स्कैन किए गए दस्तावेजों के आकार को कम करने में मदद करता है।

Tender Documents may be downloaded from Central Public Procurement (CPP) Portal free of cost https://eprocure.gov.in/eprocure/app. Aspiring Bidders who have not enrolled/registered in e-procurement portal should enroll/register before participating through the website https**://eprocure.gov.in/eprocure/app**. Bids should be submitted online only at website: **https://eprocure.gov.in/eprocure/app**. Tenderers / Contractors / Bidders are advised to follow the instructions provided in the e-procurement portal. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned documents.

केवल ई-प्रोक्योरमेंट पोर्टल के माध्यम से प्राप्त बोलियों को ही खोला जाएगा। जो बोलियाँ उत्पादों/वस्तुओं के कार्य/आपूर्ति के वांछित प्रयोजनों को संपूर्ण रूप से पूर्ण करने में अक्षम होगी, उन बोलियों को अस्वीकार कर दिया जाएगा और केवल पूर्ण बोलियों पर विचार किया जाएगा। अंतर-विश्वविद्यालय त्वरक केंद्र के पास बिना कोई कारण बताए किसी भी/सभी निविदाओं को आंशिक/पूर्ण रूप से स्वीकार/अस्वीकार करने का अधिकार सुरक्षित है और इस संबंध में आईयूएसी का निर्णय सभी बोलीदाताओं के लिए बाध्यकारी होगा।

Only bids received through e-procurement portal will be considered for opening. Bids not covering full scope of work/supply of the products/goods will be rejected and only complete bids will be considered.

IUAC reserves the right to accept / reject any / all tenders in part / full without assigning any reasons whatsoever, and the decision of IUAC in this regard will be binding on all the bidders.

ई.एम.डी. का भुगतान करने के लिए बोलीदाता को "ऑनलाइन" भुगतान विकल्प का चयन करना होगा, जो https://services.sabpaisa.in/pages/iuac.html लिंक पर जाकर लागू होगा। बयाना राशि ऑनलाइन भुगतान के रूप में होगी और इसे बोली खोलने से पहले जमा किया जाना चाहिए। एम.एस.एम.ई./एन.एस.आई.सी. में पंजीकृत बोलीदाताओं को ई.एम.डी. के भुगतान से छूट दी गई है। एम.एस.एम.ई./एन.एस.आई.सी.(निविदा की गई वस्तु/कार्य के लिए पंजीकृत इकाई) से पंजीकृत निविदाकारों को तकनीकी बोली के साथ वैध पंजीकरण प्रमाणपत्र की प्रति https://eprocure.gov.in/eprocure/app वेबसाइट पर अपलोड करनी होगी।

Bidder has to select the payment option as "online" to pay the EMD as applicable by going to the link **https://services.sabpaisa.in/pages/iuac.html**. The Earnest Money Deposit shall be in the form of online payment and it should be deposited before the bid opening. Bidders registered with MSME/ NSIC are exempted from payments of EMD. However, they have to submit Bid Security Declaration Form. Tenderers registered with MSME/NSIC (the unit being registered for the item/work tendered) are required to upload copy of valid registration certificate in the website https://eprocure.gov.in/eprocure/app along with technical bid.

बोलीदाताओं को इस बात को विशेष ध्यान में रखने की सलाह दी जाती है कि वे अनिवार्य रूप से उपलब्ध कराए गए प्रारूप में ही अपनी वित्तीय बोलियां जमा करें और कोई अन्य प्रारूप स्वीकार्य नहीं होगा। यदि मूल्य बोली निविदा दस्तावेज के साथ मानक .XLS BOQ प्रारूप के रूप में दी गई है, तो इसेही डाउनलोड करना होगा और प्रारूप को संशोधित किए बिना ऑनलाइन भरना और जमा करना होगा। यदि बोलीदाता द्वारा BOQ फाइल को संशोधित पाया जाता है, तो बोली को अस्वीकार कर दिया जाएगा।

Bidders are advised to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard .XLS BOQ Format with the tender document, then the same is to be downloaded and to be filled and submitted online without modifying the format. **If the BOQ file is found to be modified by the bidder, the bid will be rejected**.

उपरोक्त निविदा के संबंध में कोई भी शुद्धिपत्र/संशोधन केवल https://eprocure.gov.in और www.iuac.res.in वेबसाइट पर जारी किया जाएगा। बोलीदाता, अपनी बोली जमा करने से पहले निविदा दस्तावेज से संबंधित, प्रकाशित होने वाले किसी भी शुद्धिपत्र की जानकारी रखें। निदेशक, अंतर-विश्वविद्यालय त्वरक केंद्र के पास बिना कोई कारण बताए किसी भी/सभी निविदाओं को आंशिक/पूर्ण रूप से स्वीकार/अस्वीकार करने का अधिकार सुरक्षित है।

Any Corrigendum / Amendments in respect of above tender shall be issued on website https://eprocure.gov.in and www.iuac.res.in only. Bidders should consider any corrigendum published on the tender document before submitting their bids. The Director, IUAC reserves the right to accept/reject any/all tenders in part/full without assigning any reasons thereof.

Tender Document for

The Supply of 30kW, 97MHz Solid-State RF Power Amplifier as per Annexure-A.

TENDER ENQUIRY NO: IUAC/NIT/XX/VVVS/I.681/2026-27

LAST DATE OF SUBMISSION: xx/xx/2026

INTER-UNIVERSITY ACCELERATOR CENTRE (IUAC)

(Formerly Nuclear Science Centre) Autonomous Body of UGC

Aruna Asaf Ali Marg, Post Box No. 10502, NEW DELHI - 110 067 (India)

Phone: 091-11-24126022/24-26/29

E - TENDER DOCUMENT

कार्य/आपूर्ति का नाम Name of Work / Supply	अनुलग्नक ए के अनुसार **30kW, 97MHz** सॉलिड-स्टेट आरएफ पाि र एम्पलीफायर" 30kW, 97MHz Solid-State RF Power Amplifier as per Annexure-A.
अनुबंध संख्या / Tender Number	IUAC/ NIT/08R/VVVS/I.681/26-27
अनुमादित निविदा मूल्य / Tender Value / Estimate only	Rs. 4,00,00,000/- (Rupees Four Crore only)
बयाना राशि/ Earnest Money Deposit	Rs. 8,00,000/- (Rupees Eight Lakh only) **Nil for MSME**
निष्पादन सुरक्षा जमा राशि/ Performance Security	10% ऑर्डर मूल्य का / of Order value
निविदा दस्तावेज शुल्क/ Tender Document Fée	शून्य NIL
बोली जमा करने की समाप्ति तिथि और समय (भाग-ए एवं भाग-बी) Bid Submission End Date and Time (Part - A and Part - B)	08/12/2026 अपराह 03:00 बजे 08/12/2026 at 03:00 P.M.
तकनीकी बोली खुलने की तिथि - भाग - ए Technical Bid Opening Date- (Part - A)	09/12/2026 अपराह 03:30 बजे 09/12/2026 at 03:30 P.M.
मूल्य बोली खुलने की तिथि - भाग-बी Price Bid Opening Date (Part - B)	तकनीकी रूप से योग्य समझे गए बोलीदाताओं को बाद में सूचित किया जाएगा To be intimated later on to the technically qualified bidders
Contact Person	1. Administrative Officer (S&P) E-mail: iuacstores@gmail.com 2. Mr. V.V.V.Satyanarayana E-mail: satya.iuac@gmail.com

TENDER FORM

To

The Director
IUAC,
Aruna Asaf Ali Marg,
New Delhi 110067

Dear Sir,

I/We have read and examined the following Tender Documents relating to the Supply of 30kW, 97MHz Solid-State RF Power Amplifier as per Annexure-A to Inter-University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi -110067.

1. Registration process on CPP portal for online bidding, searching for tender documents, preparation of bids, instruction for submission of bids & assistance to bidders
2. Special Instructions to Bidders for Registration with Competent Authority
3. General Terms & Conditions of Contract
4. Special Terms and conditions of Contract
5. Annexures
6. Price Bid

I/We hereby offer to execute the work complete in all respects specified in the underwritten Memorandum within the time specified therein, at the rates specified in the Price Bid and in accordance with the specifications and instruction in writing referred to in the condition of tender.

Bidders Signature and Seal

INSTRUCTIONS TO BIDDERS

REGISTRATION PROCESS ON CPP PORTAL FOR ONLINE BIDDING

i. Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: https://eprocure.gov.in/eprocure/app) by clicking on the link "**Online Bidder Enrollment**" on the CPP Portal which is free of charge.

ii. Bidder who registered already may skip the registration process and login to site through their user ID/Password.

iii. As part of the enrollment process, the bidders will be required to choose a unique username and assign a password for their accounts.

iv. Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.

v. Upon enrollment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / nCode / eMudhra/ Nic etc.), with their profile.

vi. Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC's to others which may lead to misuse.

vii. Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

SEARCHING FOR TENDER DOCUMENTS

a) There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.

b) Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.

c) The bidder should make a note of the unique Tender ID assigned to each tender; in case they want to obtain any clarification / help from the Help desk.

PREPARATION OF BIDS

a) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.

b) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.

c) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, GST Certificate etc.) has been provided to the bidders. Bidders can use "My Space" or ''Other Important Documents'' area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

Note: Bidder should consider any corrigendum published on the tender document before submitting their bids.

INSTRUCTIONS FOR SUBMISSION OF BIDS

1. The tender documents are available on our website www.iuac.res.in **& www.eprocure.gov.in.**
2. Tender documents may be downloaded from IUAC's website www.iuac.res.in and CPPP site https://eprocure.gov.in/eprocure/app as per the schedule as given in the tender document.
3. The tender shall be submitted online in two parts, viz., Technical bid and Financial (price Bid) bid.
4. The offers submitted by hand/Post/Fax/email shall not be considered. No correspondence will be entertained in this matter.
5. All the pages of bid being submitted must be sequentially numbered by the bidder irrespective of nature and content of the documents before uploading.
6. The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.
7. Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
8. The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
9. Bidders are requested to note that they should necessarily submit their financial (price Bid) bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BOQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BOQ file, open it and complete the white colored (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BOQ file is found to be modified by the bidder, the bid will be rejected.
10. The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
11. All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128-bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid opener's public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
12. The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
13. Upon the successful and timely submission of bids (i.e. after Clicking "Freeze Bid Submission" in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
14. The bid summary has to be printed and kept as an acknowledgment of the submission of the bid. This acknowledgment may be used as an entry pass for any bid opening meetings.
15. Not more than one tender shall be submitted by one contractor or contractors having business relationship.
16. Under no circumstance will father and his son(s) or other close relations who have business relationship with one another (i.e. when one or more partner(s)/director(s) are common) be

allowed to tender for the same contract as separate competitors. A breach of this condition will render the tenders of both parties liable to rejection.

17. The bidders are advised to visit CPPP website https://eprocure.gov.in/eprocure/app at least 3 days prior to closing date of submission of tender for any corrigendum / addendum/ amendment.
18. Bids will be opened as per date/time as mentioned in the **Tender Document.** After online opening and evaluation of technical bids, the results of their qualification as well Price-Bid opening will be intimated.
19. Submission of a tender by a tenderer implies that he has read all the stipulations contained in this tender document and has acquainted him of the nature, scope and specifications of the items to be followed.
20. The tenderer shall submit all documents after duly filling the same in all respects. Tenders which are found to be vague or incomplete shall be rejected summarily.
21. Tenders shall be submitted ON-LINE; it shall be signed by one who has been authorized by the board of director /director / manufacture/ firm owner /their authorized agents through a resolution/ authority letter. Copy of the resolution/ authority letter in favor of the person signing must accompany the tender.
22. Tenders containing erasures and alterations of the tender documents are liable to be rejected unless these are authenticated by the person signing the Tender Documents.
23. **Code of Integrity for Public Procurement**

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

#	Term	Meaning
(a)	**Corrupt practice**	The offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the action of a public official in the procurement process or in contract execution.
(b)	**Fraudulent practice**	a misrepresentation or omission of facts in order to influence a procurement process or the execution of a contract.
(c)	**Collusive practice**	means a scheme or arrangement between two or more bidders, with or without the knowledge of the purchaser, designed to establish bid prices at artificial, non-competitive levels.
(d)	**Coercive practice**	means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the procurement process or affect the execution of a contract.
(e)	**Anti-Competitive practice**	any collusion, bid rigging or anti-competitive arrangement, or any other practice coming under the purview of the Competition Act, 2002, between two or more bidders, with or without the knowledge of the purchaser, that may impair the transparency, fairness and the progress of the procurement process or to establish bid prices at artificial, non-competitive levels
(f)	**Conflict of interest**	participation by a bidding firm or any of its affiliates that are either involved in the consultancy contract to which this procurement is linked; or if they are part of more than one bid in the procurement; or if the bidding firm or their personnel have relationships or financial or business transactions with any official of purchaser who are directly or indirectly related to tender or execution process of contract; or improper use of information obtained by the (prospective) bidder from the purchaser with an intent to gain unfair advantage in the procurement process or for personal gain
(g)	**Obstructive Practice**	materially impede the purchaser's investigation into allegations of one or more of the above mentioned prohibited practices either by deliberately destroying, falsifying, altering; or by concealing of evidence material to the investigation; or by making false statements to investigators and/or by threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or by impeding the purchaser's Entity's rights of audit or access to information.

SPECIAL TERMS AND CONDITIONS OF TENDER

1. **Carrying of work**
   All the work shall be carried out in accordance strictly as per the specifications given in the tender to the total satisfaction of the Institute.

2. **Contractors/Supplier Responsibility for the manner of Execution of Work**
   The contractor/s/supplier shall be solely responsible for the manner and the method of executing the work. The work shall be subject to the approval of IUAC from time to time for purposes of determination of the question whether the work is executed by the contractor in accordance with the contract.

3. **Specifications**
   During execution of work, the contractor/bidder should follow all standard norms of safety measures/precautions as per relevant codes to avoid accidents/damages to man, machines and buildings, at his own cost. If specifications for an item of work are not covered as per approved Specifications of tender, the same shall be decided by the Institute and shall be binding on the contractor.

4. **Agency's Risk**
   All risks of loss of a or damage to physical property and of personal injury and death which arise during and in consequence of the performance of the contract other than the excepted risks are the responsibility of the contractor /supplier.

5. **Action and Compensation payable in case of Bad work**
   (1) If it shall appear to IUAC, or our representatives, that any work has been executed with unsound, imperfect or unskillful workmanship then the contractor/supplier shall be liable to pay compensation.
   (2) If during the execution of works, any damage is caused to IUAC property by contractor's/supplier's workers, contractor/supplier will duly make good the loss. IUAC has the right to make suitable deduction from contractor's/supplier's bills along with penalty, if contractor/supplier fails to make good the loss.
   (3) No material belonging to the contractor/supplier whether consumable or non-consumable should be brought inside the IUAC campus without proper entry at the Main Gate nor any material should be taken out without proper gate pass issued by the authorized representatives of the Centre. Material delivery challans duly entered at the main gate shall to be submitted. It shall always prevail, unless otherwise specifically stated, that the entire provisions of Tender document been opened upon and accepted for compliance by the contractor/supplier without any reservation.
   (4) If during the execution of works, any damage is caused to IUAC property by contractor's/supplier's workers, contractor/supplier will duly make good the loss. IUAC has the right to make suitable deduction from contractor's bills along with penalty, if contractor/supplier fails to make good the loss.
   (5) During execution of work, the contractor/supplier should follow all standard norms of safety measures/precautions as per relevant codes to avoid accidents/damages to man, machines and buildings, at his own cost. Contractor/supplier will have his own arrangement to escort the labour to the nearest hospital for treatment in case any injury happens to any worker during execution of work. Seal & Signature of Bidder/Bidder.

(Seal & Signature of bidder)

ASSISTANCE TO BIDDERS

1. More information useful for submitting online bids on the CPP Portal may be obtained at: https://eprocure.gov.in/eprocure/app.

2. Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.

3. Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Help desk. The contact number for the help desk is 1800 3070 2232.

SPECIAL INSTRUCTIONS TO BIDDERS FOR REGISTRATION WITH COMPETENT AUTHORITY

Bidders Registration

1. 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 constituted by the Department for Promotion of Industry and Internal Trade (DPIIT).

2. **"Bidder"** for the purpose of this tender (including) the term 'tenderer', 'consultant' 'vendor' or 'service provider' in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several person, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated here in before, including any agency, branch or office controlled by such person, participating in a procurement process.

3. **"Bidder from a country which shares a land border with India"** for the purpose of this tender 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 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.

4. **"The Beneficial owner"** for the purpose of (3) above will be as under:

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

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;

b) "Control" shall include the right to appoint the 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;

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;

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;

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;

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 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. **"Agent"** for the purpose of this Order is a person employed to do any act for another, or to represent another in dealings with third persons.

6. **Sub-contracting in works contracts:** Including turnkey contracts, contractors shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority.

***Please note that the bidders shall provide the mandatory Certificates in the following formats on their registered Company's letter heads:**

Certificate for Tenders involving procurement

"I/We have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I/we certify that we are not from such a country or, if from such a country, have been registered with the Competent Authority, I/we hereby certify that we fulfill all requirements in this regard and are eligible to be considered. [Where applicable, evidence of valid registration by the Competent Authority shall be attached]"

Certificate for Tenders for Works involving possibility of subcontracting

"I/We have read the clause regarding restrictions of procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries; I/we certify that we are not from such a country or, if from such a country, have been registered with the Competent Authority and will not sub- contract any work to a contracting from such countries unless such contractor is registered with the Competent Authority. I/we hereby certify that we fulfill all requirements in this regard and is/are eligible to be considered. [Where applicable, evidence of valid registration by the competent Authority shall be attached.]"

Tenderer's Signature and seal

2. General Terms and Conditions of the Tender:

2.1. Submission of Tender:

Tenders should be uploaded on CPP portal in two parts separately, i.e. "Technical Bid" (Part-A) and "Price Bid / BOQ)" (Part-B). No other mode of submission will be accepted. Submission of complete tender document duly stamped and signed by tenderer with technical bid is mandatory. Any clarifications/amendments/corrigenda etc., to NIT before last date of submission of bid will only be available on our website: www.iuac.res.in. Therefore, bidders (OEM) are advised to keep visiting our website. **OEM are ONLY requested to bid.**

2.2 Technical Bid (Part-A):

Pre-Qualification of the Bidder

Only Original Equipment Manufacturer (OEM) or their authorized (sales and service) representatives in India are eligible to quote for the required item as per the specification given in Annexure-A. The authorized representatives will have to submit a valid certificate of authorization from the OEM along with the BID. The bidder will have to submit OEM technical brochure wherein description of the product lineup including quoted product and company services are clearly mentioned along with required technical specifications.

The bidder must be a national or internationally reputed firm/company/manufacturer or their representative for high-power solid-state RF power transmitter/ amplifiers/Scientific Instruments of various ratings, who have supplied and carrying out after-sale services such as installation, repair, restoration, test and calibration of suppled Instruments to the internationally reputed laboratories and industries worldwide.

The bidder must be duly authorized by the OEM for solid-state RF power amplifier testing and repair facilities along with trained manpower, supported by the OEM for spare parts and other required resources for successful repair, restoration, test and calibration in India.

No deviations in respect of NIT conditions are acceptable. In this bid, the bidder should upload the following documents:

1. Tender Acceptance Letter (written on company letter head, duly signed and stamped) as per the format provided in Annexure-B.
2. Profile of the Tenderer as per Annexure-C.
3. Earnest Money Deposit Proof & MSME to submit Bid Securing Declaration in lieu of EMD/Bid Security.
4. Format for declaration by the Bidder for Code of Integrity & conflict of interest as in Annexure-D.
5. The bidder should not be a blacklisted individual or entity by any Government, or Government Department, whether in the Central/State/District levels across India. An undertaking in this regard, Annexure-F to be enclosed with the Technical Bid.
6. Declaration of local content as in Annexure-G.
7. Solvency certificate as in Annexure-I.
8. Technical specification compliance as in Annexure-J.
9. Check list for pre-qualification bid as in Annexure-K.
10. Valid authorized representatives/dealership certificate with authorization from the OEM.
11. Details (Complete address with contact number) of the authorized service center in India for the quoted product along with a valid undertaking / certificate from OEM authorizing service facility of their supplied products in India for after sale services such as repair, restoration,

test & calibration to be attached. Drawings / test results / catalogues / other technical specifications of the products indicating its ability to meet the technical specifications.

12. Proof of delivery of high-end Solid-State RF amplifiers (Minimum 10kW in HF/VHF range) in the form of one copy of successfully executed purchase order of value more than 80% of the estimated value, Rs.320,00000/- (Rupees three crore twenty lakhs only) or two copies of order value each of 50% of the estimated value, Rs 2,00,00000/- (Rupees Two crores only) or three copies of order value each of 40% of the estimated value, Rs1,60,00000/- (Rupees one crore sixty lakhs only) for the supply of scientific instruments to reputed organizations, Govt. Dept.(Central/State), PSU & Autonomous bodies/Accelerator labs anywhere in the world in the last 7 years.
13. The bidder should have a minimum annual average turnover of Rs2.65 crore during the last three financial years.
14. Copies of the audited statements/turnover certificate of the past three financial years ending on 31st March of the previous financial year in which the tenders are invited. To support the claim, provide a certificate of CA. In case balance sheet and statement of Profit & Loss for the immediately preceding financial year have not be prepared/audited, the account for one more preceding financial year can be submitted.
15. Solvency certificate minimum of Rs1.6 Crore in a prescribed format is required from any scheduled bank.
16. The bidder shall assure in written for the supply of spare parts after warranty is over for maintenance of the equipment supplied if and when required for a period of at least five years.
17. DPIIT-recognized startups may get the relaxation to waive prior turnover, experience criteria, and EMD as per Government of India GFR-2017, provided they meet the prescribed eligibility criteria.

Technical bids which are not confirming to the technical specifications will be disqualified.

2.3 Price Bid (Part-B):

In this bid, the bidder is required to quote unconditional rates in the .XLS BOQ formed provided with this tender. Quotes in INR will only be accepted.

The Indigenous suppliers quoting in INR should quote the rates all-inclusive up to IUAC and excluding GST. The BOQ file must not be modified.

The following information to be provide along with Price Bid:

1. Mention that the warranty period which shall not be less than 24 months.
2. Standard accessories and documentation such as manuals, software if any would be provided.
3. Price bid will be compared on the total of price bid of the all the quoted/requested items as pert Price Bid, part-B.

2.4 Earnest Money Deposit:

EMD @ 2% of total estimate value Rs. 8,00,000 (Rupees Eight Lakhs) is payable by the bidder. Bidder has to select the payment option as **"online" to pay the EMD as applicable by going to the link https://services.sabpaisa.in/pages/iuac.html**. The Earnest Money Deposit shall be in the form of online payment and it should be deposited before the bid opening.

EMD of technically disqualified bidders will be returned within 15 days from the date of evaluation of the technical bids. The refund of EMD to all the bidders except lowest shall be made within 15 days from the date of opening of price bid. The EMD of the successful lowest

bidder (L1) shall be held back as security deposit and will be released after completion of the works and on receipt of Performance Security.

EMD is the mandatory requirement however the MSMEs/NSIC/Startups registered as per Government of India are exempted from payment of Earnest Money Deposit (EMD) and are required to submit Bid Security Declaration as per Annexure D form subject to conditions given below: -

i. MSMEs participating in the tender must submit valid & authorized copy of certificate of registration. The MSME's Bidder to note and ensure that nature of services and goods/items manufactured mentioned in MSME's certificate matches with the nature of the services and goods /items to be supplied as per Tender.

ii. The registration certificate issued by agencies must be valid as on Bid closing date of the tender. Bidder shall ensure validity of registration certificate in case bid closing date is extended.

iii. The MSMEs who have applied for registration or renewal of registration with any of the authorized agencies / bodies but have not obtained the valid certificate as on close date of the tender, are not eligible for exemption / preference.

iv. DPIIT-recognized startups meeting the provisions given in GFR-2017, government of India subjected to the eligibility criteria.

2.5 Validity of Tender:

Tender shall be valid for acceptance without any change in rates and NIT conditions for a period of 90 days from the date of opening of Price bid. No Bidder can withdraw/or modify his tender or revoke the same within the said period of 90 days. If a Bidder on his own withdraws or revokes the tender or revises or alters or modifies the tender for any item or condition within a period of aforesaid 90 days his EMD deposit shall stand forfeited and action will be taken as per Bid Security Declaration. The validity of accepted rates is extendable for a period of 180 days from the date of issue of Award Letter, with mutual consent of both the parties.

2.6 Escalation / Deviation:

No escalation or deviation shall be allowed till execution of order / contract.

2.7 Performance Security:

The supplier shall require to submit the Performance Security within 15 days on issue of LOI in the form of irrevocable bank guarantee or FDR issued by any Indian Nationalized Bank for an amount which is 5% of the contract value within 15 days from the date of receipt of the purchase order and should be kept valid for a period of 60 days beyond the date of completion of all contractual obligations including guaranty/defects liability period. The Performance Security shall be refunded to the supplier on completion of all contractual obligations including guarantee/ defect liability period.

2.8 Testing and Demonstration:

The equipment must be tested by the supplier for quoted RF Power at IUAC within one-month time period after delivery of goods at IUAC in presence and to the satisfaction of the team of experts constituted by IUAC who will test the performance of the equipment/amplifier. No separate charges for testing, etc., will be paid to the party beyond the quoted prices.

2.9 Terms of Payment:

80% of the payment shall be made after the delivery of all the goods at IUAC. 20% of the total payment shall be made after successful technical inspection, testing and acceptance at IUAC with due certification by the concerned IUAC personnel. All payments will be made after

statutory deductions.

2.10 Guarantee/Defect liability period:

The supplied material should be guaranteed from manufacturing / engineering defect and bad material / workmanship for a minimum period of twenty-four months (2 Years) from the date of acceptance of the goods by IUAC. During this period if any replacement/ repairs/ rectification of any of the supplied item etc. is needed, the supplier shall do the same free of cost to IUAC. If the equipment/ part needs to be shipped to the service centre for repair/rectification during the guarantee period, the shipment charges should be borne by the supplier. The supplier shall guarantee that all equipment shall work satisfactorily and that the performance and efficiency of the equipment shall not be less than the specified values. **The bidder shall assure the supply of spare parts after warranty is over for maintenance of the equipment supplied if and when required for a period of at least ten years.**

2.11 Timeline for Supply:

The material should be supplied within **120 days**. The time allowed for the completion of work to be reckoned from the 10th day after the date of issuance of award letter/purchase order from the date of issue of Purchase order. Any delay in completion of the work/supply due to reasons attributable to the vendor / manufacturer is liable to liquidated damages as per clause 12 of this NIT. However, under the force-majeure conditions as per clause 13 of NIT, IUAC may grant suitable time extension for which vendor has to request along with the justification/reasons well in advance to the Director, IUAC for approval without any prejudice or price escalation.

2.12 Liquidated Damages:

In case the delivery of the listed items is delayed beyond the specified delivery period for reasons attributable to the supplier, deductions on account of liquidated damages @ 0.5% per week subject to maximum of 10 % of the total order value will be deducted.

2.13 Force-Majeure:

IUAC may grant an extension of time limit set for the supply items in case it is delayed by force majeure beyond the supplier's control. Force majeure is defined an event of effect that cannot reasonably be anticipated such as acts of God (like earthquakes, floods, tsunami etc.), the direct and indirect consequences of wars (declared or undeclared), national emergencies, pandemics/epidemics, civil commotions and strikes (only those which exceeds a duration of ten continuous days) at successful Tenderer's factory. Apart from the extension of the time limit, force majeure does not entitle the successful tenderer to any relaxation or to any compensation of damage or loss suffered. The decision of the Director, IUAC will be final and binding for the bidder.

2.14 Preference to Make in India:

Preference to local suppliers shall be given as per revised Public Procurement (Preference to Make in India), Order 2017, No. P-45021/2/2017-PP (B.EII) dated 16.09.2020 issued by DPIIT, Ministry of Commerce and Industry, Govt. of India as notified from time to time. (Submit duly filled Declaration of Content, Annexure- XV for the same). The Declaration of Content once submitted in the Technical Bid will be final. Submission of Revised Declaration of Content will NOT be accepted. As per O.M. of DPIIT, Ministry of Commerce and Industry, Govt. of India No. P-45021/102/2019- BE- II- Part (1) (E-50310) Dated 04.03.2021, Bidders offering Imported products will fall under the category of Non-Local Suppliers. They cannot claim themselves as Class-I or Class-II Local Suppliers by claiming the services such as Transportation, Insurance, Installation, Commissioning, Training and After Sale Service Support like AMC/ CMC etc. as Local Value Addition

2.15 IUAC reserves the right to order all the spares quoted or some/part of the spares as per their requirement.

2.16 Participation of IUAC Personnel:

The IUAC personnel will witness and participate in the RF power testing, demonstration and operation of the quoted RF amplifier at IUAC.

2.17 Final Acceptance:

The final acceptance of the system/amplifier is defined as the successful completion of shipment, testing and acceptance tests at IUAC to substantiate compliance with the specification mentioned in Annexure-A.

2.18 Correspondence:

All the correspondence in respect of tender / contractual obligation/technical shall be made to The Administrative Officer (S&P) / Shri V.V.V. Satyanarayana, Inter-University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi - 110067.
E-mail: iuacstores@gmail.com / satya.iuac@gmail.com Phone: +91-11- 24126018, 24126022.

2.19 Tender Rejection:

(a) Director, IUAC reserves the right to accept/reject any/all tenders in part/full without assigning any reason whatsoever and the decision of the IUAC in this regard will be binding on all the bidders.
(b) Bids received by means other than e - procurement portal will be rejected.
(c) Only complete bids will be considered and incomplete bids will be rejected.
(d) If BOQ file is found to be modified by the bidder, the bid will be rejected. Only INR quote will be acceptable.
(e) Tenders not complying with any of the provisions stated in this tender document are liable to be rejected.
(f) If the General Terms and conditions are not accepted and not signed by the bidders, then the tender will be rejected.
(g) Tender will be rejected on non-submission of 'Bid Security'

2.20 Negotiations:

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

2.21 Termination for Insolvency:

IUAC may at any time terminate the Contract by giving written notice to the Supplier, if the Supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy, which has accrued or will accrue thereafter to the Purchaser.

2.22 This notice inviting tender will form part of the contract agreement to be executed by the successful tenderer.

The contract shall be governed by the Indian Laws. Any dispute arising out of this contract will be subjected to jurisdiction of New Delhi / Delhi only.

Accepted

(Signature of Bidder)
(Name and Address of the Bidder)

Part-A Technical-Bid
Annexure-A
(Technical Specifications)

#	PARAMETERS	SPECIFICATIONS	NOTE
1	Center Frequency	97MHz	
2	Bandwidth	≥ ±500kHz	+/-0.5dB
3	Output Power	≥ 30 kW CW (24x7 operation)	for 50 Ohm load (To power RF Accelerator cavity)
4	Operating modes	CW or Pulsed	With Indication of mode of operation on front panel as well as remote read
5	Input Power Level typical	0 dBm (1mW)	for maximum power output
6	Power Efficiency	≥60%	DC-RF efficiency
7	Technology	LDMOS	Rugged, generic, easy to source MOSFET from open market should be used
8	Amplifier type	Class AB	Between 3kW to 27kW Power output. Ambient temperature varying between +18°C to +50°C
	Linearity range	10 dB	
9	Overall RF Power Output Stability	±1% of set value	
10	Phase shift	±5°	
11	Input Power Level (No damage)	Up to +20dBm	Overdrive protection must be activated with panel indication and remote read.
12	Harmonics at P1dB	≤ -30 dBc	2nd and higher order harmonics
13	Spurious oscillations (if any)	≤ -60 dBc	
Pulsed Operation			
14	Repetitive frequency	10Hz to 1000Hz	Pulse Rise & Fall Times ~ 10µS
	Pulse duration	50uS to 50mS	
	Droop rate	≤ ± 1%	
15	Physical configuration	19-inch Rack mounted modular system	Sub-systems must be designed for easy removal for maintenance and repair.
	Space constraints/ Maximum limits	Height: 200cm Width: 135cm Depth: 120cm	
Amplifier Sub-Units			

16*	Amplifier sub-units must be independently powered through a circuit breaker and they should contain DC power supplies. Sub-units should independently display the fault, RF power, DC power supply parameters with remote control software and local touch/push switches. The amplifier sub-units must have an air filter. The air filter must be removable for cleaning from the front panel.		
	All on-board sub-unit power supplies must be widely available in the market supplied by primary/good brand and not built specifically for the amplifier.		
	The amplifier sub-units must have an air filter. The air filter must be removable for cleaning from the front panel without the use of any tool whatsoever, but only by hand.		
	Each sub unit of amplifier must be composed of multiple independent RF Pallets. They must be all identical and working in parallel. They must be easily repairable & replaceable for easy maintenance.		
	Each sub unit of amplifier must be provided with on-board local display and keyboard/switches that allows full local control.		
	Each amplifier sub unit should be contained/housed in a standard 19-inch box/chassis.		
Load Conditions			
17	RF Impedance Level	50 Ohm load (Room temperature accelerator cavity having S11 of better at 97MHz.)	RF Input: N-connector RF Output: 3-1/8" EIA (Should be available on top side)
	VSWR during continuous operation at Load	$\geq$ 1:2 at maximum Power Level (VSWR protection must be enabled over 3kW of reflected power)	Amplifier units should be able to withstand 10% reflection power (i.e. 3kW, CW) of maximum forward power rating and shall not trip with interlock to protect itself from damage.
	VSWR Protection	Amplifier should protect itself against open & short load conditions at all phase angles.	
Interlock Protection-Latched Operation for any fault with manual Reset			
18	Protection for	Excessive VSWR (continuous operation)	Emergency Bang Switch shut down on Front Panel should be provided. Amplifier should be shut down/ tripped with status indication for both local and remote operation
		Over temperature	
		Flash over inside sub-units and main amplifier	
		Insufficient cooling liquid/flow	
		3-Phase AC mains phase error (phase reversal, over or under voltage)	
		Over drive	Fold-back / RF OFF with status indication

	External Interlock	Provision to use the status of external equipment with electrical contacts to interlock overall system **"Normal Open"** contacts to break amplifier operation	Two additional potential free isolated contacts, interlock input accessible through top of amplifier preferably in a terminal block or D-Sub-min Connector to be provided which can be used as an external interlock.
Utility System			
19	AC Mains	3 x 415V ± 10%, 50Hz ± 2Hz, 5-wire system (3 phases, Neutral and Earth), with safety earthing stud on chassis.	AC cable inlet preferably through top side
20	Operating Temperature Range	$+18^0$C to $+50^0$C	
21	Humidity level for amplifier's operation	~40% to 90%	@ Ambient 18^0C to 50^0C
22	Cooling System	Complete closed loop control system installed internally or should be able interface with the external cooling water system which has the water pressure ~6bar, ~22 degrees C inlet temperature.	Preferable: Cooling water flow sensor, flow switch, water inlet and outlet temperature sensors to indicate these parameters on display. Amplifier sub-units must have protection against over temperature of heat sink with Indication. Must have removable and washable air, water dust/dirt filters.
Safety			
23	Electrical & Fire safety	Short circuit proof, regulated DC supply lines must be sufficiently secured with suitable fasteners	Chassis earthing -mandatory
			Secured back & side panels for operator safety
			Sub-units & main Chassis must have provision for external earthing connections.
	Mains - ON/OFF control	AC lines should be routed through sufficiently rated circuit breakers	Front panel accessible multi-way switch
	Emergency	Bang switch	Emergency shut down on Front panel
	RF	Amplifier should fulfill RF safety measures and should be IEC 215 Compliant	Should satisfy international safety standards for electrical safety, radiation emission and susceptibility as the unit is liable to be placed in

		Company/ supplier should have ISO quality certification	radiation environment. Certificates to be attached.
Connectors			
24	RF Power Input	N Connector	Accessible on front/top panel
	RF Power Output	3-1/8" EIA flange	Preferably on the top of chassis/amplifier
	RF Samples	BNC – Forward & Reflected ports ~60dB (both in main and in sub units)	*Not to exceed 0dBm across 50 Ohm at maximum RF output power. * Accessible on Front panel
	Amplifier Ready	Two potential free contact signals to given as output (when amplifier is ready to give output i.e. driver, sub units, control unit, interlocks are ok and ready)	Through terminal block or D connector
Parameter Indication, Remote Control & Status			
25a	Local control, Indication, Status thorough high level Control Unit	-Forward power (CW, Pulsed)	* Overall controller must be a central control unit with built-in converters, server built-in to display parameters, accept front Panel commands, communicate with internal and external units, handle both analogue and logic signals required for overall amplifier to indicate amplifier status and display valves.
		-Reflected Power	
		-VSWR Alarm	
		-Temp Alarm	
		-Water flow status	
		-Water temp Alarm	
		DC ON/OFF status	* Response time for critical RF shut down shall be less than 5uS
		-RF ON/OFF/Standby status	
		-Local/Remote selection	
		-Pallet-Voltage, Current intake monitoring	
		-Operation hours display	
		-TCP/IP address settings	
		-External interlock (2 nos)	
25b	Interface for Remote control & monitor	-RS-232 Control	Software, command set must be supplied to write multiple parameter set points, read actual values through dedicated commands etc.
		-TCP/IP (Accessible on front panel)	
		-SNMP	
25c	From each amplifier sub	- Forward Power	

	units should have on board monitoring display, it must be possible to monitor at least:	- Reflected Power	
		- Output Voltage and Amperes of each individual on-board power supply	
		- Total Transistor Current	
		-Individual Pallets Current of internal RF modules of sub units	
		- Over current status	
		- Interlock status	
26	After SHUT DOWN for any reason, the amplifier must not to restore to previous condition until RESET by the operator locally or remotely, only after clearing the faults(s).		
27	**Warranty**		Minimum 24 months
28	**Installation**		Refer to “Testing & Commissioning”
29	**Documentation**		Refer “Documents & manuals”
30	**Spare Items**	1. List of spare parts - Suggested for our stock.	
		2. Spare RF power pallets - 2nos	
		3. LDMOS – 10nos	
		4. List of customized ready to use cards installed in amplifier for maintenance	
		5. Spare DC power supply - 2nos	
		6. RF Sub Unit (i.e. amplifier units whose power is combined to give 30kW output - 1nos	
		7. Control Unit PLC - 1no	

Testing & Commissioning:

Tests to be carried out at vendor’s site must include;

1. Characterization of Power amplifier for Bandwidth, Gain and Phase measurements with actual plots.
2. Continuous 48 hours continuous full power test on 50 Ohms dummy load for required specifications.
3. Simulation of fault conditions and observations include external Interlock failure, VSWR fault, emergency stop, failure of water flow, over temperature failure, mains 3-phase failure etc.
4. The installation and commissioning of equipment at IUAC will be carried out by technical personnel of IUAC with the help of supplied documentation and supplier help available online.

5. IUAC reserve the right of Pre-dispatch Inspection. For Persons deputed for inspection from IUAC, the expenses towards 'to and fro' air fare and all local expenses including accommodation will be borne by IUAC.

Documents and Manual:

a) Original hard copies of all test reports / certificates, test setup details shall be provided to IUAC.
b) Two sets of the operation and maintenance manuals should be provided without additional cost. Manual must contain detailed mechanical, electrical drawings, BOM with catalogue/ manufacturer's part number. The supplied technical manual must include detail block diagrams, schematic diagrams, as built wiring diagrams, installation procedures, test reports, software manuals including programming steps with instructions if any, etc., for operational, maintenance, installation and repair purposes. Any third-party components or PCBs used shall be clearly mentioned with details of source. Customized part(s) shall be mentioned with correct part number for identification.
c) Any programming or control software package shall be provided in a SD card or USB/Pen drive.
d) All schematics must include test point (default) DC values and expected RF values in Vpp, for troubleshooting purposes.
e) Documentation must include: Test setup used and 48 hours continuous test results tabulated under standard test conditions for reproducibility as site.

ANNEXURE – B

TENDER ACCEPTANCE LETTER

(To be given on Company Letter Head)

Date:

To,
The Director
IUAC, New Delhi-67

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No: IUAC/NIT/
Name of Tender / Work: -

Dear Sir,

I/ We have downloaded / read and examined the tender document(s) for the above-mentioned Tender /Work from the web site(s) namely:

---

as per your advertisement, given in the above-mentioned website(s).

1. I / We hereby certify that I / we have read the entire terms and conditions of the tender documents (including all documents like annexure(s), schedule(s), etc..,), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.
2. The corrigendum(s) issued from time to time by your department/ organization too have also been taken into consideration, while submitting this acceptance letter.
3. I / We hereby unconditionally accept the tender conditions of above-mentioned tender document(s) / corrigendum(s) in its totality / entirety.
4. I / We do hereby declare that our Firm has not been blacklisted/ debarred by any Govt. Department/Public sector undertaking.
5. I / We certify that all information furnished by our Firm is true & correct and, in the event, that the information is found to be incorrect/untrue or found violated, then your department/ organization shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy.

Yours Faithfully,

(Signature of the Bidder, with Official Seal)

ANNEXURE-C

PROFILE OF THE TENDERER
(To be given on Company Letter Head)

Tender for "Supply of 30kW, 97MHz Solid-State RF Power Amplifier as per Annexure-A".

1.	Name of the Firm / Organization	:
2.	Address	:
3.	Telephone No. / Mobile No. & Name of the Contact Person	:
4.	Fax No.	:
5.	E-mail ID	:
6.	Month and Year of establishment	:
7.	Name of proprietor / partners/director	:
8.	No. of years of experience in this field, with Reference, Certificates	:
9.	Annual Turnover during the last three years (Enclose copies of Audited Financial Statement duly certified by CA)	
	2022-23	:
	2023-24	:
	2024-25	:
10.	Whether the firm is a Tax Assessee? If so, please give the details of PAN No. and copies of ITR files for the last three financial years	:
11.	GST Registration No.	:
12.	Name of the OEM and address	:

Signature of the Bidder & Seal

(Name and Address of the Bidder)

Company Seal

ANNEXURE – D

Format for declaration by the Bidder for Code of Integrity & conflict of interest
(On the Letter Head of the Bidder)

No: _____ Date _____

To,
The Director
IUAC, New Delhi

Sir,

With reference to your Tender No._____ dated_____ I/We hereby declare that we shall abide by the Code of Integrity for Public Procurement as in your Tender document and have no conflict of interest. It is certified that we are not associated, or have been associated in the past, directly or indirectly, with a firm or any of its affiliates which have been engaged by the Purchaser to provide consulting services for the preparation of the design, specifications, and other documents to be used for the procurement of the goods to be purchased under this Invitation of Bids / Tender.

The details of any previous transgressions of the code of integrity with any entity in any country during the last three years or of being debarred by any other Procuring Entity are as under:

a
b
c

We undertake that we shall be liable for any punitive action in case of transgression/ contravention of this code.

Thanking you,

Yours sincerely,

Signature of the Bidder

(Name and Address of the Bidder)

Company Seal

ANNEXURE – E

BID SECURING DECLARATION FORM

(TO BE SUBMITED BY MSME ONLY ON COMPANY LETTER HEAD)

Tender/Bid No.: Date:

To
The Director
Inter University Accelerator Centre (IUAC)
New Delhi

Dear Sir/Madam,
We, the undersigned, solemnly declare that: according to the conditions of this Tender Document, the bid must be supported by a Bid Securing Declaration In lieu of Bid Security.

We unconditionally accept the condition of this Bid Securing Declaration. We understand that we shall stand automatically suspended from being eligible for bidding in any tender in IUAC for a period of two years from the date of opening of this bid if we breach our obligation under the tender conditions, if, we,

1) withdraw/amend/impair/derogate, in any respect, from our bid, within the bid validity; or
2) being notified within the bid validity of the acceptance of our bid by IUAC

(i) fail or refuse to sign the contract, or

(ii) failed or refused to produce the original documents for scrutiny or the required Performance Security within the stipulated time under the conditions of the tender documents.

We know that this Bid Securing Declaration shall expire if the contract is not awarded to us, upon:

1) receipt by us of your notification
   a) of cancellation of the entire tender process or rejection of all bids or
   b) of the name of successful bidder or
2) Forty-five days after the expiration of the bid validity or nay extension to it.

Signed: Name:

Dated on _____ day of _____

Corporate Seal (where appropriate)

(Note: In case of a Joint Venture, the Bid Securing Declaration must be in the name of all partners to the Joint Venture that submits the bid)

Signature of the Bidder

(Name and Address of the Bidder)
Company Seal

ANNEXURE – F

(Undertaking to be given on Bidders/ Company Letter Head)

I / We (bidder) hereby give an undertaking that:

1. I / We have not been blacklisted / on holiday list / debarred during last three years by any Govt. Department/Govt. Autonomous Body/Institution, etc.

2. I/We do not have any dispute with any of the Govt. Departments/ Govt. Autonomous Bodies/Institutions, etc.

3. I/We have never been certified as 'Unsatisfactory Performer' for the said services provided to the Govt. Departments/ Govt. Autonomous Bodies/ Institutions;

4. I/We have not submitted any fake/forged certificates/ documents and later, if any such 'Certificates/Documents' found to be fake/ forged or contains willful wrong/incorrect information, suitable legal actions may be initiated against me/us/agency and the agencies/ bidders shall be debarred from tendering withe the Institute.

5. I/We shall not withdraw my/our bid after opening of Technical Bid and if done so, the IUAC and the agencies / bidders shall be debarred from tendering with the Institute.

Seal and Signatures of the Authorized Person of the Agency

Name and designation of the
Authorized Person of the Agency

Place:
Date:

ANNEXURE-G

(For Works Contracts, including Turnkey contracts)

(Undertaking on Bidder's Letterhead)

Tender Ref. No……. Dated:

CERTIFICATE

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 contractors from such countries and hereby certify that this bidder is not from such a country and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority.

OR (whichever is applicable)

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 contractors from such countries and hereby certify that this bidder is from _____ (Name of Country) and has been registered with the Competent Authority and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority. I also certify that this bidder fulfils all the requirements in this regard and is eligible to be considered.

(Copy/ evidence of valid registration by the Competent Authority is to be attached)

Signature of Bidder/ Agent

Name:

Designation:

Organization Name:

Contact No.:

ANNEXURE-H

DECLARATION OF LOCAL CONTENT

(To be given on Company Letter Head – For tender value below Rs.10 Crores)
(To be given by Statutory Auditor/ Cost Auditor/ Cost Accountant/ CA for tender value above Rs.10 Crores)

To,
The Director,
Inter-University Accelerator Centre,
Aruna Asaf Ali Marg,
New Delhi- 110 067.

Subject: - Declaration of Local Content

Tender Reference No: _____
Name of Tender/ Work: _____

1. Country of Origin of Goods being offered: _____
2. We hereby declare that items offered has _____ % local content
3. Details of the Location at which the Local Value Addition is made _____
   _____
   _____

"Local Content" means the amount of value added in India which shall, unless otherwise prescribed by the Nodal Ministry, be the total value of the item procured (excluding net domestic indirect taxes) minus the value of the imported content in the item (including all customs duties) as a proportion of the total value, in percent.

Bidders offering Imported products will fall under the category of Non-Local Suppliers. They cannot claim themselves as Class-I or Class –II Local Suppliers by claiming the services such as Transportation, Insurance, Installation, Commissioning, Training and After Sale Service Support like AMC/ CMC etc. as Local Value Addition.

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

Yours faithfully,

(Signature of the bidder, with Official Seal)

Note: Preference shall be given to local suppliers as per revised Public Procurement (Preference to Make in India), Order 2017, No. P-45021/2/2017-PP (B.E-II) dated 16.09.2020 issued by DPIIT, Ministry of Commerce and Industry, Govt. of India. (Submit duly filled Declaration of Local Content for the same). The Declaration once submitted in the Technical Bid will be final. Submission of Revised Declaration will NOT be accepted.

ANNEXURE-I

To be provided on the stationary of the bank

Solvency Certificate
[Format for Solvency Certificate]

To
The Director,
Inter-University Accelerator Centre,
New Delhi-110067.

Solvency Certificate

This is to certify that to the best of our knowledge and information, M/s…….. (address)……. A customer of our bank is respectable and be treated as good for an engagement to a sum of Rs ……. (Solvency amount) …….. only as on …… (Date of Certificate). This certificate has been issued without any risk and responsibility on the part of the Bank or any of its officers.

This certificate is issued at the specific request of the customer.

Yours Sincerely,

For ……Bank

Signature of Bank Officer
Designation
(with seal)

ANNEXURE-J
Technical Specifications Compliance

#	PARAMETERS	SPECIFICATIONS	COMPLIANCE (YES/NO)
1	Center Frequency	97MHz	
2	Bandwidth	≥ +500kHz, +/-0.5dB	
3	Output Power	≥ 30 kW CW (24x7 operation)	
4	Operating modes	CW or Pulsed	
5	Input Power Level typical	0 dBm (1mW)	
6	Power Efficiency	≥60%	
7	Technology	LDMOS	
8	Amplifier type	Class AB	
	Linearity range	10 dB	
9	Overall RF Power Output Stability	±1% of set value	
10	Phase shift	±5°	
11	Input Power Level (No damage)	+20dBm	
12	Harmonics at P1dB	≤ -30 dBc	
13	Spurious oscillations (if any)	≤ -60 dBc	
Pulsed Operation			
14	Repetitive frequency	10Hz to 1000Hz	
	Pulse duration	50uS to 50mS	
	Droop rate	≤ ± 1%	
15	Physical configuration	19-inch Rack mounted Modular system	
	Space constraints/ Maximum limits	Height: 200cm Width: 135cm Depth: 120cm	
16	Each amplifier sub unit should be contained/housed in a standard 19-inch box/chassis.		
Load Conditions			
17	RF Impedance Level	50 Ohm load (Room temperature accelerator cavity having S11 of better at 97MHz.)	
	VSWR during continuous operation at Load	≥ 1:2 at maximum Power Level (VSWR protection must be enabled over	

		3kW of reflected power)	
	VSWR Protection	Amplifier should protect itself against open & short load conditions at all phase angles.	
Interlock Protection-Latched Operation with manual Reset			
18	Protection for	Excessive VSWR (continuous operation)	
		Over temperature	
		Insufficient cooling liquid/flow	
		3-Phase AC mains phase error (phase reversal, over or under voltage)	
		Over drive	
	External Interlock	Provision to use the status of external equipment with electrical contacts to interlock overall system **"Normal Open"** contacts to break amplifier operation	
Utility System			
19	AC Mains	3 x 415V ± 10%, 50Hz ± 2Hz, 5-wire system (3 phases, Neutral and Earth), with safety earthing stud on chassis.	AC cable inlet
20	Operating Temperature Range	$+18^0$C to $+50^0$C	
21	Humidity level for amplifier's operation	~40% to 90%	
22	Cooling System	Complete closed loop control system installed internally or should be able interface with the external cooling water system which has the water pressure ~6bar, ~21 degrees C inlet temperature.	
Safety			
23	Electrical & Fire safety	Short circuit proof, regulated DC supply lines must be sufficiently secured with suitable fasteners	
	Mains - ON/OFF control	AC lines should be routed through sufficiently rated circuit breakers	
	Emergency	Bang switch	
	RF	Amplifier should fulfill RF safety measures and should be IEC 215	

		Compliant Company/ supplier should have ISO quality certification	
Connectors			
24	RF Power Input	N Connector	
	RF Power Output	3-1/8” EIA flange	
	RF Samples	BNC – Forward & Reflected ports ~60dB (both in main and in sub units)	
	Amplifier Ready	Two potential free contact signals to given as output (when amplifier is ready to give output i.e. driver, sub units, control unit, interlocks are ok and ready)	
Parameter Indication, Remote Control & Status			
25a	Local control, Indication, Status thorough high level Control Unit	-Forward power (CW, Pulsed)	
		-Reflected Power	
		-VSWR Alarm	
		-Temp Alarm	
		-Water flow status	
		-Water temp Alarm	
		DC ON/OFF status	
		-RF ON/OFF/Standby status	
		-Local/Remote selection	
		-Pallet-Voltage, Current intake monitoring	
		-Operation hours display	
		-TCP/IP address settings	
		-External interlock (2 nos)	
25b	Interface for Remote control & monitor	-RS-232 Control	
		-TCP/IP (Accessible on front panel)	
		-SNMP	
25c	From each amplifier sub units should have on board	- Forward Power	
		- Reflected Power	

	monitoring display, it must be possible to monitor at least:	- Temperature of each individual on-board power supply	
		- Output Voltage and Amperes of each individual on-board power supply	
		- Total Transistor Current	
		-Individual Pallets Current of internal RF modules of sub units	
		- Over current status	
		- Interlock status	
26	After SHUT DOWN for any reason, the amplifier must not to restore to previous condition until RESET by the operator locally or remotely, only after clearing the faults(s).		
27	**Warranty**	Minimum 24 months	
28	**Installation**	Refer to “Testing & Commissioning”	
29	**Documentation**	Refer “Documents & manuals”	
30	**Spare Items**	1. List of spare parts - Suggested for our stock.	
		2. Spare RF power pallets - 2nos	
		3. LDMOS – 10ns	
		4. List of customized ready to use cards installed in amplifier for maintenance	
		5. Spare DC power supply -2nos	
		6. RF Sub Unit (i.e. amplifier units whose power is combined to give 30kW output - 1nos	
		7. Control Unit PLC - 1no	

ANNEXURE-K

Check-List for Pre-Qualification Bid for the
"Supply of 30kW, 97MHz Solid-State RF Power Amplifier
to IUAC, Aruna Asaf Ali Marg, New Delhi - 110067

#	Documents Provided	Page number
1.	Tender Acceptance Letter (ANNEXURE-B)	
2.	Profile of the Tenderer (ANNEXURE-C)	
3.	Declaration for Code of Integrity and Conflict of Interest (ANNEXURE-D)	
4.	Bid Security Declaration (ANNEXURE-E)	
5.	Undertaking on letter head (ANNEXURE-F)	
6.	Undertaking on the letter head Certificate - Bidder Not from/ from Country sharing Land border with India & Registration of Bidder with Competent Authority (ANNEXURE-G)	
7.	Declaration of Local content as given (ANNEXURE-H)	
8.	Solvency Certificate (ANNEXURE-I)	
9.	Scope of Work / Technical Specification/ and Technical Data Sheet –Technical Specifications Compliance (ANNEXURE-J)	
10.	Proof of submission of EMD/ MSME/NSIC Registration Certificate	
11.	Self-attested copies GSTIN & PAN card issued by the respective authorities.	
12.	Copies of work/supply orders as specified in the NIT along with satisfactory performance certificates from the concerned employers.	
13.	Annual turnover of last three financial years (2022-23, 2023-24 & 2024-25) duly certified by the Statutory Auditors. To support the claim, provide a certificate of CA (No need to provide copies of balance sheet).	
14.	Copies of ITR filed for the last three financial years	
15.	Certificate of OEM / Authorized Dealer or Distributor / Bid specific authorization.	
16.	Signed and stamped copy of NIT.	
17.	Check List (ANNEXURE-K)	
18.	Any other documents, if required.	

Part-B

PRICE-BID

(Price should be quoted in the standard BOQ format of this tender;
Incomplete price bid will be rejected)

Tender Inviting Authority: INTER UNIVERSITY ACCELERATOR CENTRE

Name of Work/Supply: Supply of 30kW, 97MHz Solid-State RF Power Amplifier as per Annexure-A"

#	Description	Qty	Unit Price (INR)	GST (INR)	Total Amount (INR)
1	Supply of "30kW, 97MHz Solid-State RF Power Amplifier as per Annexure-A".	1			
2	Spare Sub-unit RF Power Amplifier (Amplifier unit whose power is combined to give 30kW final output)	1			
3	Spare RF Pallets	2			
4	LDMOS	10			
5	Spare DC Power Supplies	2			
6	Programmed PLC of CLU Unit	1			
7	Set of recommended customized ready to use PCB cards for maintenance purpose	1			

Note: Comparison shall be made based solely on the price of the amplifier. IUAC shall have the right to decide whether or not to procure the spares and the quantity of spares to be procured.