

INDIAN INSTITUTE OF TECHNOLOGY GOA

At Goa Engineering College Campus

Farmagudi, Ponda, Goa 403401

E-mail: purchase@iitgoa.ac.in

GSTIN: 30AABAI1653D1ZF

PAN: AABAI1653D

TAN: BLRI08261B

Enquiry No: IITGOA/2021-22/024

Date: 10/08/2021

IIT Goa invites sealed quotations in two bid form for the supply of below mentioned items.

Sl. No.	Description of Item	Qty
1	High Voltage High Speed Power Amplifier (Detailed Specifications Attached)	01

Terms and conditions:

1. Quotation must be valid for at least 90 days.
2. The GSTIN should invariably be mentioned in your offer.
3. Kindly attach a compliance certificate along with the technical quote.
4. Prices: Prices should be quoted in INR – F.O.R., IIT Goa basis only.
5. Payment terms: Within 30 days after the delivery and successful installation of items at IIT Goa.
6. Delivery and installation should be made within 4 weeks of getting a confirmed order.
7. It is mandatory for bidders to quote items having Local Content more than 20%. Refer revised Public Procurement (Preference to Make in India), Order 2017 P- 45021/2/2017 – B. E. II dated 04.06.20 issued by DPIIT, Ministry of Commerce and Industry, Govt. of India.
8. 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 Department for Promotion of Industry and Internal Trade (DPIIT).
9. The suppliers shall provide the banking details along with their quote on their letterhead duly signed and stamped.
10. Quotations shall be submitted in two parts;
 - 1) **Part – I (Technical)** should contain all the technical details and specification of the product. It should contain unpriced bid along with terms and conditions, compliance certificates, proprietary certificates (if applicable), any other certificates/details etc. This envelope should be marked as “Technical Bid”

- 2) **Part -II (Financial)** The financial bid of the above item should be in a sealed envelope marked as “Financial Bid” and should contain financial terms and conditions.
11. IIT Goa reserves the right to accept or reject any or all the bids without assigning any reason in public interest.
12. The successful bidder has to submit a Performance Guarantee Bond for 3% of the Purchase Order value and valid till one year OR up-to warranty period plus sixty days whichever is later from the date of issue of Purchase Order. Performance Guarantee Bond may be submitted within 15 (Fifteen) days from the date of order acknowledgment as a successful bidder.
13. For any clarification, you may kindly contact Dr. Shakthi Prasad D. (E-mail: shakthi@iitgoa.ac.in) and Stores & Purchase Department (email: purchase@iitgoa.ac.in) till 20/08/2021.
14. All sealed quotations must be super scribed with the tender enquiry number and should reach to the Assistant Registrar (Stores & Purchase), IIT Goa, at Goa College of Engineering Campus, Farmagudi, Ponda, Goa, 403 401 by 17.00 Hrs on or before 31/08/2021.

Sd/-
Asst. Registrar (S&P)

Technical Specifications of High voltage high speed power amplifier

Performance	
Output Voltage Range	0 to ± 20 kV DC or peak AC
Output Current Range	0 to ± 20 mA DC or ± 60 mA peak for 1 ms (must not exceed 20 mA rms)
Input Voltage Range	0 to ± 10 V DC or peak AC
Input Impedance	25 k Ω , nominal
DC Voltage Gain	2000 V/V
DC Voltage Gain Accuracy	Better than 0.1% of full scale
DC Offset Voltage	Better than ± 2 V
Output Noise	Less than 1.5 V rms
Slew Rate (10% to 90%, typical)	Greater than 800 V/ μ s
Large Signal Bandwidth (1% distortion)	DC to greater than 5.2 kHz
Small Signal Bandwidth (-3dB)	DC to greater than 20 kHz
Stability	
Drift with Time	Less than 50 ppm/hr, noncumulative
Drift with Temp	Less than 100 ppm/ $^{\circ}$ C
Voltage Monitor	
Ratio	1/2000th of the high-voltage output
DC Accuracy	Better than 0.1% of full scale
DC Offset Voltage	Less than ± 2 mV
Output Noise	Less than 10 mV rms
Output Impedance	47 Ω
Features	
High-Voltage On/Off	
Local	Individual push-button switch
Remote	TTL compatible input. TTL high (or open) turns off high-voltage output. TTL low turns on high-voltage output.
Dynamic Adjustment	Graduated 1-turn potentiometer to optimize the AC response for various load parameters
Limit/Trip Mode	Switch selectable for either limit or trip. Graduated 1-turn potentiometer to adjust limit or trip level from 0 to 100% peak current. One LED indicator and one BNC connector

Trip Status Indicator and Connector	An indicator should illuminate and a BNC should provide a TTL low when the high-voltage is disabled due to the output current exceeding the current trip level, the detection of a high-voltage power supply fault, removal of one of the panels, or if the equipment is out of regulation for greater than 500 ms.
Out of Regulation Status	Illuminates and a TTL low should be provided when unit fails to produce required HV output such as during a current limit

Other requirements:

Essentials

- a) Quotation for AMC after warranty period.
- b) User list and contact number from IITs/IISERs/IISc etc. of same quoted model.
- c) Installation report with important specs.
- d) Optional accessory should be quoted separately.
- e) OEM must have annual turnover above 10 cr.
- f) Globally reputed brand indicated by publications.
- g) Condition of purchase: successful demonstration of specs during site installation.

1. Warranty:

- a) The complete instrument and accessories excluding consumables should be under warranty for a period of **one year** from the date of installation.
- b) In case of breakdown during the warranty period, service engineer of the supplier should make as many visits as are necessary to rectify the problem and replace the faulty parts. Supplier should provide all spares required for making the instrument operational.

2. Maintenance and Repair:

- a) Vendor should be easily accessible and available on demand within 24 hours of any problem in the instrument.
- b) One compulsory visit per year for maintenance must be included apart from the installation visit.
- c) Annual Maintenance Contract (AMC): Financial involvement for two years on site AMC after the expiry of warranty period should be provided.

3. Installation and Training:

Vendor should provide training on operation and application for each of the equipment mentioned in the tender at IIT Goa after installation. The training event needs to be performed once a year for three years.

4. Spares:

The supplier of the instrument must confirm in writing that the spares for the entire instrument will be available for a period of at least ten years after the installation of the instrument.

5. Manual:

One set of operating manual and service manual (in English) should be provided with the instrument. The manual should be presented in both, hard and soft copy.

6. Pre-installation requirements:

All the necessary pre-installation requisites required for the complete installation of the system.

FORMAT FOR PERFORMANCE GUARANTEE BOND

(To be typed on Non-judicial stamp paper of the value of Indian Rupees of One Hundred) (TO BE ESTABLISHED THROUGH ANY OF THE NATIONAL BANKS (WHETHER SITUATED AT GOA OR OUTSTATION) WITH A CLAUSE TO ENFORCE THE SAME ON THEIR LOCAL BRANCH AT GOA OR ANY SCHEDULED BANK SITUATED AT GOA. BONDS ISSUED BY CO-OPERATIVE BANKS ARE NOT ACCEPTED.

To,
The Registrar,
Indian Institute of Technology, Goa
Farmagudi, Ponda,
Goa – 403401

LETTER OF GUARANTEE

WHEREAS Indian Institute of Technology, Goa (Buyer) have invited Tenders vide Tender No..... Dt. for purchase of
AND

WHEREAS the said tender document requires that any eligible successful tenderer (seller) wishing to supply the equipment / machinery, etc. in response thereto shall establish an irrevocable Performance Guarantee Bond in favour of “**Registrar, Indian Institute of Technology, Goa**” in the form of Bank Guarantee for Rs (**3% (three percent) of the purchase value**) and valid till **one year or upto warranty period whichever is later** from the date of issue of Performance Guarantee Bond may be submitted within 15 (Fifteen) days from the date of Order Acknowledgment as a successful bidder.

NOW THIS BANK HEREBY GUARANTEES that in the event of the said tenderer (seller) failing to abide by any of the conditions referred in tender document / purchase order / performance of the equipment / machinery, etc. this Bank shall pay to Indian Institute of Technology, Goa on demand and without protest or demur Rs..... (Rupees.....).

This Bank further agrees that the decision of Indian Institute of Technology, Goa (Buyer) as to whether the said Tenderer (Seller) has committed a breach of any of the conditions referred in tender document / purchase order shall be final and binding.

We, (name of the Bank & branch) hereby further agree that the Guarantee herein contained shall not be affected by any change in the constitution of the Tenderer (Seller) and/ or Indian Institute of Technology, Goa (Buyer).

Notwithstanding anything contained herein:

1. Our liability under this Bank Guarantee shall not exceed Rs.
(Indian Rupees only).
2. This Bank Guarantee shall be valid up to(date) and
3. We are liable to pay the guaranteed amount or any part thereof under this bank guarantee only and only if IIT Goa serve upon us a written claim or demand on or before (date).
4. This Bank further agrees that the claims if any, against this Bank Guarantee shall be enforceable at our branch office at situated at
(Address of local branch).

Date:

Yours truly,

Signature and seal of the Guarantor:

Name of Bank:

Instruction to Bank: Bank should note that on expiry of Bond Period, the Original Bond will not be returned to the Bank. Bank is requested to take appropriate necessary action on or after expiry of bond period.

UNDERTAKING FOR BID SECURITY

(To be issued by the bidder on company's letterhead in lieu of EMD)

To,
The Registrar,
Indian Institute of Technology Goa,
At GEC Campus, Farmagudi, Ponda – Goa

We, M/s (name of the firm), with ref. to enquiry no.

..... dtd hereby undertake that:

- 1) We accept all the terms and conditions of the tender document.
- 2) We accept that, we will not modify our bid during the bid validity period, submit performance guarantee within the stipulated period and honor the contract after award of contract.
- 3) In the event of any modification to our bid by us or failure on our part to honor the contract after final award or failure to submit performance guarantee, our firm may be debarred from participation in any tender/contract notified by Indian Institute of Technology, Goa for a period of one year.

Yours faithfully,

(Signature of the bidder with date and seal)

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)

Date: _____

To,
The Registrar,
Indian Institute of Technology Goa,
At GEC Campus, Farmagudi, Ponda - Goa

Sub: Declaration of Local content

Tender Reference No: _____

Name of Tender: - _____

Country of Origin of Goods being offered: _____

We hereby declare that an item offered has _____ % local content. _____

“Local Content” means the amount of value added in India which shall, be the total value of the item being offered minus the value of the imported content in the item (including all customs duties) as a proportion of the total value, in percent.

We understand that as per Office Memorandum dated 04/03/2021 issued by Ministry of Commerce and Industry, services such as transportation, insurance, installation, commissioning, training and after sales support like AMC/CMC etc. are not considered 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)