

# Global tender notification for the procurement of Optical Parametric Amplifier

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## Section 1: Bid Schedule

1	Tender Number	IPC/SG/2024/OPA-SG
2	Tender Date	9 <sup>th</sup> July 2024
3	Item Description	Optical Parametric Amplifier
4	Tender Type	Two bid system: (a) Technical Bid (Part A) (b) Commercial Bid (part B)
5	Place of tender submission	The Chairperson Kind attention: Dr. Soumen Ghosh Department of Inorganic and Physical Chemistry Indian Institute of Science Bengaluru, Karnataka 560012, India
6	Last Date and Time for tender submission	30 <sup>th</sup> July 2024, 5:00 PM (Indian Standard Time)
7	Primary Point of Contact	Dr. Soumen Ghosh Department of Inorganic and Physical Chemistry, Indian Institute of Science, Bengaluru 560012, India Email: soumenghosh@iisc.ac.in

This is a Request for quote (RFQ) from the **Global Original Equipment Manufacturer (OEM) or their authorized Indian distributor** for the procurement of an Optical Parametric Amplifier at the Department of Inorganic and Physical Chemistry (IPC) in the Indian Institute of Science, Bangalore. All interested vendors shall submit a response demonstrating their capabilities to produce the requested equipment to the primary point of contact.

## Section 2: Eligibility Criteria

Prequalification criteria:

1. The bidder must have substantial track-records in supplying similar yb-pumped OPA to educational institutes/universities/research organizations in India.
2. The bidder should sign and submit the declaration for Acceptance of Terms and Conditions as per -Annexure 4.
3. The Bidder must not be blacklisted/banned/suspended or have a record of any service-related dispute with any organization in India or elsewhere. A declaration to this effect has to be given as per Annexure 3.
4. System Catalogue should be produced with the Technical Bid. Original Invoice, Original Warranty Certificate, and Original Test Reports should be produced for all imported items from OEM (Original Equipment Manufacturer) at the time of supply of equipment.
5. Manufacturers should have ISO or equivalent international standard certificate. Please attach the required certificate with the bid.
6. The supplier will support the user with all the spares for a minimum period of 5 years.
7. Details of experienced service engineers including contact detail should be provided in the tender document.
8. Bidder shall have to submit audited accounts (Balance sheet profit and loss account) for previous three financial years. The audited statement must be signed and stamped by qualified chartered accountants. The supplier will support the user with all the spares for a minimum period of 5 years.
9. Bidder must submit Income Tax return for assessment years 2020-21, 2021-22 and 2022-23.
10. Valid safety/health/environment protection authority-approved certification must be provided for the proposed system. The original/valid certificate should be provided with the Unit.
11. The Bidder should have supplied similar equipment in Central Universities preferably in centrally Funded Technical Institutes (IITs, IISc, IISER, NIT). Please provide the details and contact information.

## Section 3: Terms and conditions

### (A) Submission of Tender

1. All documentation in the tender should be in English.
2. Vendors will be required to submit a technical proposal and a commercial proposal in **two separate sealed envelopes** (two bid systems). The technical bid should contain all commercial terms and conditions, except the price. **Only vendors who meet the technical requirement will be considered for the commercial negotiation.**
3. **The technical bid** (Part A) must contain a point-by-point technical compliance document. The technical proposal should contain a compliance table with 5 columns.
  - a. The first column must list the technical requirements, in the order that they are given in the technical requirements below.
  - b. The second column must provide the specification of the instrument against the requirement (please provide quantitative responses wherever possible)
  - c. The third column should describe the compliance with a “YES” or “NO” only. Ensure that the entries in column 2 and column 3 are consistent.
  - d. The fourth column should clearly state the reasons/explanations/context for deviations if any.
  - e. The fifth column may contain additional remarks. It can be used to highlight the technical features, qualify the response of previous columns, or provide additional details.
4. **The commercial bid** (Part B) – Indicating item-wise price for the items mentioned in the technical bid, **as per the format of quotation provided in the tender**, and other commercial terms and conditions. The commercial bid should indicate the following separately: (a) equipment price (b) optional items (c) Shipping cost and (d) the Total cost.
5. The technical bid and price bid should each be placed in separate sealed covers, superscribing on both the envelopes the tender no. and the due date. Both these sealed covers are to be placed in a bigger cover which should also be sealed and duly superscripted with the Tender No, Tender Description & Due Date.
6. The SEALED COVER superscribing tender number/due date & should reach the Chairperson Office, Department of Inorganic and Physical Chemistry, Indian Institute of Science, Bangalore – 560012, India on or before the due date mentioned in the tender notice. In case the due date happens to be a holiday the tender will be accepted on the next working day. If the quotation cover is not sealed, it will be rejected.
7. All queries are to be addressed to the person identified in “Section 1: Bid Schedule” of the tender notice.

8. The GST/other taxes, levies etc., are to be indicated separately. The BIDDER should mention GST Registration and PAN in the tender document (Indian Bidders only).
9. In addition to that listed in the technical table that the vendor would like to bring to the attention of the committee, such as data sheets, technical plots etc. must be listed at the end of the compliance table. The committee will go through the data provided and those available in their website to evaluate the suitability.
10. The decision of the purchase committee will be final. The Institute reserves the right to accept or reject any bid or to annul the bidding process and reject all bids, at any time before the award of the contract without thereby incurring any liability of the affected bidder or bidders.
11. Incomplete bids will be summarily rejected.

#### (B) Cancellation of Tender

Notwithstanding anything specified in this tender document, IISc Bangalore, in its sole discretion, unconditionally and without having to assign any reason, reserves the rights:

- a. To accept OR reject the lowest tender or any other tender or all the tenders.
- b. To accept any tender in full or in part.
- c. To reject the tender, offer not conforming to the tender terms.

#### (C) Validity of the Offer

The offer shall be valid at least 90 Days from the date of opening of the commercial bid.

#### (D) Evaluation of the Offer

1. The technical bid (Part A) will be opened first and evaluated.
2. Bidders meeting the required eligibility criteria as stated in Section 2 of this document shall only be considered for Commercial Bid (Part B) opening. Further, agencies not furnishing the documentary evidence as required will not be considered.
3. Pre-qualification of the bidders shall not imply final acceptance of the Commercial Bid. The agency may be rejected at any point during technical evaluation or commercial evaluation. The decision regarding acceptance and/or rejection of any offer in part or full shall be the sole discretion of IISc Bangalore, and the decision in this regard shall be binding on the bidders.
4. The award of the contract will be subject to acceptance of the terms and conditions stated in this tender.
5. Any offer which deviates from the vital conditions (as illustrated below) of the tender is liable to be rejected:
  - a. Non-submission of complete offers.

- b. Receipt of bids after the due date and time and or by email/fax (unless specified otherwise).
  - c. Receipt of bids in open conditions.
6. In case any BIDDER is silent on any clauses mentioned in these tender documents, IISc Bangalore shall consider that the BIDDER had accepted the clauses as of the tender and no further claim will be entertained.
  7. No revision in the terms and conditions quoted in the offer will be entertained after the last date and time fixed for receipt of tenders.
  8. The lowest bid will be calculated based on the total price of all items tendered for Basic equipment along with accessories selected for installation, operation, preprocessing and post-processing, optional items, recommended spares, warranty, and annual maintenance contract.

**(E) Pre-requisites:**

The bidder will provide the prerequisite installation requirement of the equipment along with the technical bid.

**(F) Warranty:**

The complete system is to be under a warranty period of a minimum of 3 year from the date of delivery, including a free supply of consumables and spare parts and online assistance for 3 subsequent years. If the instrument is found to be defective, it must be replaced or rectified at the cost of the bidder within 30 days from the date of receipt of written communications from IISc Bangalore. If there is any delay in replacement or rectification, the warranty period should be correspondingly extended.

**(G) Purchase Order:**

1. The order will be placed on the bidder whose bid is accepted by IISc based on the terms & conditions mentioned in the tender document.
2. The quantity of the items in the tender is only indicative. IISc, Bangalore reserves the right to increase /decrease the quantity of the items depending on the requirement.
3. If the quality of the product and service provided is not found satisfactory, IISc Bangalore reserves the right to cancel or amend the contract.

**(H) Delivery, Installation and Training**

The bidder shall provide the lead time to delivery, installation and made functional at IISc Bangalore from the date of receipt of the purchase order. The system should be delivered, installed, and made functional within 5 months from the date of receipt of the purchase order. The supply of the items will be considered as effected only on satisfactory installation and

inspection of the system and inspection of all the items and features/capabilities tested by the IISc, Bangalore. After successful installation and inspection, the date of taking over the entire system by the IISc, Bangalore shall be taken as the start of the warranty period. No partial shipment is allowed. Wherever needed, Scientist/Technical persons of the Institute should be trained by the supplier at the project site free of cost. In case the person is to be trained at supplier's site abroad or in India it should be mentioned in the quotation clearly. The supplier should bear all the expenses for such training including 'to & fro' fares and lodging & boarding charges.

**(J) Payment Terms:**

100% payments (except AMC) will be released after completion of delivery and satisfactory installation subject to TDS as per rules. AMC cost (if ordered), after completion of the warranty period) will be released on a half-yearly basis at the end of each six months subject to satisfactory services. The AMC will be comprehensive.

**(K) Statutory Variation:**

Any statutory increase in the taxes and duties after the bidder's offer, if it takes place within the original contractual delivery date, will be borne by IISc, Bangalore subject to the claim being supported by documentary evidence. However, if any decrease takes place the advantage will have to be passed onto IISc, Bangalore.

**(L) Disputes and Jurisdiction:**

Any legal disputes arising out of any breach of contract about this tender shall be settled in the court of competent jurisdiction located within the city of Bangalore, India.

**(M) General:**

1. All amendments, time extensions, clarifications etc., within the period of submission of the tender will be communicated electronically. No extension in the bid due date/time shall be considered on account of delay in receipt of any document(s) by mail.
2. The bidder may furnish any additional information, which is necessary to establish capabilities to complete the envisaged work. It is, however, advised not to furnish superfluous information.
3. The bidder may visit the installation site before submission of the tender, with prior intimation.
4. Any information furnished by the bidder found to be incorrect, either immediately or at a later date, would render the bidder liable to be debarred from tendering/taking up of work in IISc Bangalore.

## Section 4: Technical Specifications

Sr. No.	Description	Specifications
<i>Optical Parametric Amplifier</i>		
An OPA system emitting tunable broadband femtosecond pulses, in a hands-free operation, covering most of the visible-near IR to near mid-IR within a thermally-sealed enclosure. It should be such that the pulse duration be signal can be compressed to <70 fs in range 650 – 800 nm (pulse compressor is not needed). The OPA system must have single laptop or computer control of all components with unified software control to allow operators to adjust system parameters and verify status of the optimization loops.		
<i>Compatibility of OPA with existing Pump Laser</i>		
1	Pump laser	Tunable repetition-rate Yb-doped femtosecond amplified laser
2	Pump wavelength	1030 +/-10 nm
3	Suitability with pump power	20 W
4	Max. pump repetition rate	200 kHz
5	Max. pump pulse energy	500 μJ
6	Pump laser pulse-to-pulse stability	< 0.5% rms
7	Pump Pulse duration	< 290 fs
<i>Output of the OPA</i>		
8	Tuning range	Signal: covering most of 630-900 nm Idler: covering most of 1200-2500 nm
9	Uncompressed Pulse duration	<300 fs
10	Spectral bandwidth of the signal	It should be such that the pulse duration be the signal be <70 fs in range of 650 – 800 nm once compressed. (pulse compressor is not needed)
10	Conversion Efficiency at peak of the signal @700 nm	> 7% (before compression)
11	Pulse to pulse energy stability @800 nm	< 2%
12	Long-term power stability @800 nm	< 2%
<i>Accessory Equipment</i>		
13	Accessories	All optics, mounts, tubes, measurements devices, laptop & chiller necessary for operation of OPA with amplifier laser must be provided.



## **Section 5- Technical Bid**

The technical bid should furnish all requirements of the tender along with all annexures in this section and submitted to

The Chairperson,  
Attn. Dr. Soumen Ghosh  
Department of Inorganic and Physical Chemistry  
Indian Institute of Science, Bengaluru 560012, India  
Email: [soumenghosh@iisc.ac.in](mailto:soumenghosh@iisc.ac.in)



## **Annexure-1:**

### **Details of the Bidder**

The bidder must provide the following mandatory information & attach supporting documents wherever mentioned:

#### Details of the Bidder

- | Sl. No | Items Details   |
|--------|---|
| 1.     | Name of the Bidder  |
| 2.     | Nature of Bidder (Attach attested copy of Certificate of Incorporation/ Partnership Deed) |
| 3.     | Registration No/ Trade License, (attach attested copy)                                    |
| 4.     | Registered Office Address   |
| 5.     | Address for communication   |
| 6.     | Contact person- Name and Designation  |
| 7.     | Telephone No  |
| 8.     | Email ID  |
| 9.     | Website   |
| 10.    | PAN No. (attach copy)   |
| 11.    | GST No. (attach copy)   |

Signature of the Bidder

Name, Designation, Seal

Date

**Annexure-2:**

**Declaration regarding experience**

To,  
The Chairperson,  
Department of Inorganic and Physical Chemistry  
Indian Institute of Science, Bengaluru 560012, India

Ref: Tender No: XXXXXXXX

Dated: XXXXX

Supply and Installation of Optical Parametric Amplifier at the Department of Inorganic and Physical Chemistry in IISc Bangalore.

Sir,

I've carefully gone through the Terms & Conditions contained in the above referred tender. I hereby declare that my company / firm has years of experience in supplying of High Precision Linear Stage.

(Signature of the Bidder)

Name, Designation, Seal

Date

### **Annexure-3:**

#### **Declaration of the track record**

To,  
The Chairperson,  
Department of Inorganic and Physical Chemistry  
Indian Institute of Science, Bengaluru 560012, India

Ref: Tender No: XXXXXXXX

Dated: XXXXX

Supply and Installation of Optical Parametric Amplifier at the Department of Inorganic and Physical Chemistry in IISc Bangalore.

Sir,

I've carefully gone through the Terms & Conditions contained in the above referred tender. I hereby declare that my company/ firm is not currently debarred /blacklisted by any Government / Semi Government organizations/institutions in India or abroad. I further certify that I'm competent officer in my company/firm to make this declaration.

Or

I declare the following,

Sl. No.	Country in which the company is Debarred/blacklisted /case is Pending	Blacklisted/debarred by Government/Semi Government/Organizations /Institutions	Reasons	Since when and for how long
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(NOTE: In case the company / firm was blacklisted previously, please provide the details regarding period for which the company / firm was blacklisted and the reason/s for the same).

Yours faithfully

(Signature of the Bidder)

Name Designation, Seal

Date

**Annexure – 4:**

**Declaration for acceptance of terms and conditions**

To,  
The Chairperson,  
Department of Inorganic and Physical Chemistry  
Indian Institute of Science, Bengaluru 560012, India

Ref: Tender No: XXXXXXXX

Dated: XXXXX

Supply and Installation of Optical Parametric Amplifier at the Department of Inorganic and Physical Chemistry in IISc Bangalore.

Sir,

I've carefully gone through the Terms & Conditions as mentioned in the above referred tender document. I declare that all the provisions of this tender document are acceptable to my company. I further certify that I'm an authorized signatory of my company and am, therefore, competent to make this declaration.

Yours faithfully,

(Signature of the Bidder)

Name, Designation, Seal

Date

## **Annexure – 5:**

### **Details of items quoted:**

- a. Company Name
- b. Product Name
- c. Part / Catalogue number
- d. Product description / main features
- e. Detailed technical specifications
- f. Remarks

### **Instructions to bidders:**

1. Bidder should provide technical specifications of the quoted product/s in detail.
2. Bidder should attach product brochures along with technical bid.
3. Bidders should clearly indicate compliance or non-compliance of the technical specifications provided in the tender document.

## Section 6 – Commercial Bid

The commercial bid should be furnished with all requirements of the tender with supporting documents as mentioned under:

S.No	Description	Cat. Number	Quantity	Unit Price	Sub total
1.	Essential items noted in the technical specification				
1.a	... (details of essential items)				
1.b	...				
2.	Optional items noted in the technical specification				
2.a	... (details of essential items)				
2.b	...				
3.	Accessories for operation and installation				
4.	All Consumables, spares and software to be supplied locally				
5.	Warranty (1 year)				
6.	Cost of Insurance and Airfreight				
7.	CIP/CIF IISc, Bengaluru				

Any additional items

Sl. No	Description	Cat. Number	Quantity	Unit Price	Sub total

Addressed to

The Chairperson,  
Attn. Dr. Soumen Ghosh  
Department of Inorganic and Physical Chemistry  
Indian Institute of Science, Bengaluru 560012, India



## Section 7 – Checklist

(This should be enclosed with technical bid- Part A)

The following items must be checked before the Bid is submitted:

### 1. Sealed Envelope “A”: Technical Bid

1. Section 5- Technical Bid (each page signed by the authorized signatory and sealed) with the below annexures:

- a. Annexure 1: Bidders details
- b. Annexure 2: Declaration regarding experience
- c. Annexure 3: Declaration regarding clean track record
- d. Annexure 4: Declaration for acceptance of terms and conditions
- e. Annexure 5: Details of items quoted

2. Copy of this tender document duly signed by the authorized signatory on every page and sealed.

### 2. Sealed Envelop “B”: Commercial Bid

Section 6: Commercial Bid

Your quotation must be submitted in two envelopes: Technical Bid (Envelope A) and Commercial Bid (Envelope B) super scribing on both the envelopes with Tender No. and due date and both of these in sealed covers and put in a bigger cover which should also be sealed and duly super scribed with Tender No., Tender description & Due Date.