

Tender notification for the procurement of a “Semi-automatic Wire Bonder”

This is an RFQ for the procurement of a “Semi-automatic Wire Bonder” for the department of Physics at the Indian Institute of Science (IISc), Bangalore. This RFQ is from domestic (India-based) equipment manufacturers.

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Section 1- Bid Schedule

1	Tender No	PHY/PSAK/24-25/583
2	Tender Date	20th Nov 2024
3	Item Description	Procurement of a “Semi-automatic Wire Bonder”
4	Tender Type	Two bid system (i) Technical Bid (Part A) (ii) Commercial Bid (Part B)
5	Place of tender submission	Department of Physics Indian Institute of Science, Bangalore 560012
6	Last Date & Time for submission of tender	12th December 2024
7	For further clarification	Prof. P S Anil Kumar Dept. of Physics Indian Institute of Science Bangalore – 560012, India. Email: anil@iisc.ac.in

Section 2 – Eligibility Criteria

Prequalification criteria:

1. The Bidder's firm should have existence for a minimum of 5 years. (Enclose Company Registration Certificate)
2. The Bidder should belong to either a local manufacturer or class1/class 2 supplier distinguished by their "local content" as defined by recent edits to GFR. They should mention clearly which class they belong to in the cover letter.
 - a) **Class 1 supplier:** Goods and services should have local content of equal to or more than 50%.
 - b) **Class 2 supplier:** Goods and services should have local content of equal to or more than 20% and less than 50%.
3. Bidders offering imported products will fall under the category of non-local suppliers. They cannot claim themselves as Class-1 local suppliers/Class-2 local suppliers by claiming the services such as transportation, insurance, installation, commissioning, training, and other sales service support like AMC/CMC, etc., as local value addition.
4. Purchase preference as defined by the recent edits to GFR (within the "margin of purchase preference") will be given to Class-1 supplier.
5. Quote should come only from Indian Original Equipment Manufacturer (OEM) or their Indian authorized distributor.
6. The quotations should be on FOR-IISc Bangalore basis in INR only.
7. MSME can seek exemption to some qualification criteria. IISc follows GFR2017 for such details
8. The bidder should sign and submit the declaration for Acceptance of Terms and Conditions as per -Annexure 4.
9. 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 must be given as per Annexure 3.

Section 3 – Terms and Conditions

A) Submission of Tender:

1. All documentations in the tender should be in English.
2. Tender should be submitted in two envelopes (two bid system).
 - a. **Technical Bid (Part-A)** – Technical bid consisting of all technical details and check list for to technical specifications.

The technical proposal should contain a technical compliance table with 5 columns.

- i. The first column must list the technical requirements, in the order that they are given in the technical requirement below.
 - ii. The second column should provide specifications of the instrument against the requirement. Please provide quantitative responses wherever possible.
 - iii. The third column should describe your compliance with a “YES” or “NO” only. Ensure that the entries in column 2 and column 3 are consistent.
 - iv. The fourth column should state the reasons/explanations/context for deviations, if any.
 - v. The fifth column can contain additional remarks from the Indian Original Equipment Manufacturer (OEM) or from their distributors. You can use this opportunity to highlight technical features, qualify response of previous columns, or provide additional details, compare your solution with that of your competitors or provide details as requested in the technical requirements table below.
 - b. **Commercial Bid (Part-B)** – Indicating item wise price for the items mentioned in the technical bid, as per the format of quotation provided in tender, and other commercial terms and conditions.
3. The technical bid and price bid should each be placed in separate sealed covers, superscripting 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.
 4. The SEALED COVER superscripting tender number / due date & should reach the Department of Physics, Indian Institute of Science, Bangalore 560012, India, on or before due date mentioned in the tender notice. In case due date happens to be holiday the tender will be accepted on the next working day. If the quotation cover is not sealed, it will be rejected.
 5. All queries are to be addressed to the person identified in “Section 1 – Bid Schedule” of the tender notice.
 6. 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).

7. If price is not quoted in Commercial Bid as per the format provided in tender document the bid is liable to be rejected.
8. The Institute reserves the right to accept or reject any bid and to annul the bidding process and reject all bids at any time prior to the award of contract, without there by incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders.
9. The technical proposal must include references of at least 3 previous installations done within last 5 years of similar equipment from the equipment manufacturer. Please provide the names and contact addresses of the three independent referees, so that the committee can contact them independently to get reference. Please provide the installation report.
10. Incomplete bids will be summarily rejected.
11. Quote should come only from Indian Original Equipment Manufacturer (OEM) or their Indian authorized distributor.
12. The quotations should be on FOR-IISc Bangalore basis in INR only.

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 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 confirming to the tender terms.

C) Validity of the offer:

The offer shall be valid 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 during commercial evaluation. The decision in regard to acceptance and / or rejection of any offer in part or full shall be the sole discretion of IISc Bangalore, and decision in this regard shall be binding on the bidders.

4. The award of 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 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 construe 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. Lowest bid will be calculated based on the total price of all items tendered for Basic equipment along with accessories selected for installation, operation, pre-processing and post processing, optional items, recommended spares, warranty, 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 warranty period of **minimum 1 year** including free supply of consumables, spare parts, and data analysis software from the date of functional installation. Vendor should include cost of any spares that are expected to be needed during the warranty period, including electronics, subcomponents, and software. 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 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 purchase order. The system should be delivered, installed, and made functional **within 3 months** from the date of receipt of 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 of entire system by the IISc, Bangalore shall be taken as the start of the warranty period. No partial shipment is allowed. The bidder should also arrange for technical training to the local facility technologists and users.

I) Payment Terms:

100% payments (except AMC) will be released after completion delivery and satisfactory installation subject to TDS as per rules. AMC cost (if ordered), after completion of warranty period will be released on half-yearly basis at the end of each six months subject to satisfactory services. Price basis must be on FOR-IISc Bangalore basis only. As per GFR no advance payment can be made to domestic vendors, unless an equal amount of bank guarantee is provided.

J) Statutory Variation:

Any statutory increase in the taxes and duties subsequent to 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 on to IISc, Bangalore.

K) Dispute and Jurisdiction:

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

L) General:

1. All amendments, time extension, 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 successfully complete the envisaged work. It is however, advised not to furnish superfluous information.
3. The bidder may visit the installation site before submission of 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

No	Item and Description
1	The wire bonder should have provision for Thermosonic Wedge-Wedge, Ball-Wedge, Ribbon, and Bump bonding
2	The bonder should be able to use Gold and Aluminum wires of diameters ranging upto 75 μm . Also Gold ribbons of width upto 25 μm x 250 μm
3	The Z & Y Axis movement, as well as the clamp movement should be motorized, with additional manual control of Z motion. The motorized Z axis travel movement should be 17 mm minimum and the motorized Y axis travel movement should be 10 mm minimum
4	Stereo Microscope of minimum of 60x magnification should be supplied
5	Manual X Axis movement
6	X-Y Table Movement: Manipulator (6:1) or better
7	Wire feed angle: 90 degrees
8	Z axis gap between two bonds: 0 mm to 15 mm
9	Bond Tool depth access (Z axis): Up to 16mm
10	Ultrasonic System: Frequency in range of 60 KHz to 65 KHz
11	Ultrasonic Power: 0 to 5 Watts or better
12	Bond Time: 0-20000 milliseconds
13	Bond Force: 10 to 150 grams
14	Bond Actuation: Touch down sensor
15	Supply Voltage @ 50 Hz: 220 - 240 VAC
16	Illumination: Dual Optical fiber
17	The work stage surface should have heating arrangement, should have a minimum diameter of 60 mm and also it should have adjustable height arrangement
18	The work stage temperature should be variable between room temperature and minimum 250 °C.
19	The bonder unit should be provided with dual illumination, touch screen TFT control panel for display and entry of bond parameters
20	System should have motorized wire feed & user friendly changeover from ball to wedge configuration with just change of tool
21	Up to 100 programs storage capability. Also USB backup arrangement
22	At least two wedge tools for 25 μm Au wedge bonding should be included in the quote.
23	At least two capillary tools for 25 μm Au ball bonding should be included in the quote
24	One 100 m spool (2" spool) of 25 μm Gold wire should be included in the quote.
25	At least two wedge tools for 25 μm Aluminum wire wedge bonding should be included in the quote.
26	One 100m spool (2" spool) of 25 μm Aluminum wire should be included in the quote
27	Tool box (usually consisting of 2 tweezers, allen keys, hook, 1 substrate, 3 Cu-screws, 1 glass, 1 torque wrench) to be provided with the wire bonder
28	The product should have a minimum warranty of one year
29	Technical support should be available within India
30	The manufacturer should provide list of Indian customer reference base along with technical bid. At least 20 machines to be installed in India
31	Wire Bonder should be CE Certified. CE Certificate should be provided

The quote should include:

1. A 100m spool (2" spool) of 25 μ m Aluminum wire.
2. A tool box with 2 tweezers, allen keys, hook, 1 substrate, 3 Cu-screws, 1 glass, and 1 torque wrench.
3. A minimum warranty of one year.
4. Technical support available within India.
5. A list of Indian customer references with at least 10-20 machines installed in India.
6. CE certification for the wire bonder with the CE certificate 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 Chair,
Attn: Prof. P S Anil Kumar
Department of Physics
Indian Institute of Science
Bangalore – 560012, India
Email: anil@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 Chair,
Dept. of Physics,
Indian Institute of Science,
Bangalore – 560012, India

Ref: Tender No: XXXXXXXXX
Dated: XXXXX

Supply and installation of a “Semi-automatic Wire Bonder” at Physics, 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 and installing -----

(Signature of the Bidder)

Printed Name

Designation, Seal

Date:

Annexure-3:

Declaration regarding track record

To,
The Chair
Dept. of Physics
Indian Institute of Science,
Bangalore – 560012, India

Ref: Tender No: XXXXXXX

Dated: XXXXX

Supply and installation of a “Semi-automatic Wire Bonder” at the Dept of Physics, 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

Reason Since when and
for how long

(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 Chair,
Dept. of Physics
Indian Institute of Science,
Bangalore – 560012, India

Ref: Tender No: XXXXXX

Dated: XXXX

Supply and installation of a “Wedge Wire bonder” at CeNSE, 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 (3 years)				
6.	AMC 3 years beyond warranty				

Any additional items

S.No	Description	Cat. Number	Quantity	Unit Price	Sub total
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Addressed to
The Chair,
Attn: Prof. P S Anil Kumar
Dept of Physics
Indian Institute of Science
Bangalore – 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:

A. 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.

B. 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.