

Notice Inviting Tender

Supply and Installation of Ultrasound Research and Development Platform

Tender No: BSSE/GKA/2018-19/01



INDIAN INSTITUTE OF
SCIENCE

**Bio-Systems Science and Engineering
Indian Institute of Science
Bangalore – 560012**

January 2019

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SECTION 1 – BID SCHEDULE

1	Tender No	BSSE/GKA/2018-19/01
2	Tender Date	16th January 2019
3	Item Description	Supply and Installation of Ultrasound Research And Development Platform
4	Tender Type	Two Bid System a) Technical Bid (Part-A) b) Commercial Bid (Part-B)
5	Place of Submission and tender opening	The Chairman Bio-Systems Science and Engineering, Indian Institute of Science, Bangalore – 560012, India
6	Last Date & Time for submission of tender	8th February 2019, 17:00 hrs
7	For further clarifications	The Chairman Bio-Systems Science and Engineering, Indian Institute of Science, Bangalore – 560012, India Email: chair.bsse@iisc.ac.in with copy to marora@iisc.ac.in

SECTION 2 – ELIGIBILITY CRITERIA

Prequalification criteria:

1. The Bidder's firm should have existence for a minimum of 3 years. (Enclose Company **Registration Certificate**)
2. If the Bidder is a local distributor/dealer/Agent, it is mandatory to attach authorization certificate along with the bid from the original equipment manufacturer.
3. The bidder should sign and submit the declaration for Acceptance of Terms and Conditions as per -Annexure 4
4. 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.

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, check list for conformance to specifications, format in which the price bid is quoted without the actual prices (suppliers who include any indication of prices in the technical bid will be automatically disqualified).
 - 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 a sealed cover, superscripting on both the envelopes the tender no. and the due date and Both these sealed covers are to be placed in a bigger cover which should also be sealed and duly superscripted with the Tender No & Due Date.
4. The SEALED COVER superscripting tender number / due date & should reach The Chairman, Bio-Systems Science and Engineering, Indian Institute of Science, Bangalore – 560012, India on or before due date mentioned in the tender notice. If the due date happens to be general holiday the tender will be accepted and opened on the next working day.

If the quotation cover is not sealed, it will be rejected.

5. All communications are to be addressed to- The Chairman, Bio-Systems Science and Engineering, Indian Institute of Science, Bangalore – 560012, India.
6. GST/other taxes, levies etc.,if applicable, 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 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. 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 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 Offer:

1. The technical bid (Part A) will be opened first and evaluated.
2. Bidders meeting the required 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 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) Mode of Shipment:

In case of foreign bidders, the consignment must be airlifted, insured and transported to the installation site by the bidder. **Necessary custom**

clearance will be done by IISc, Bangalore, at Bangalore International Airport.

G) Customs clearance:

The IISc, Bangalore will furnish the necessary papers for the import of items into India, necessary custom duty exemption certificate and other supporting documents to facilitate the import of the items will be provided.

Cost of Insurance and Freight up to Bangalore shall be borne by the bidder(CIP/CIF). Whereas, Customs clearance and cost of customs duty shall be borne by IISc, Bangalore.

H) Warranty:

The complete system is to be under minimum warranty period of 1 year including free supply of spare parts and labour from the date of functional installation. If the instrument is found to be defective, it has to 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. Also, If the system found to be defective after delivery and installation and if the import and export are involved, during warranty period, to repair the system, the bidder shall be completely responsible to import, export, transportation and CIF charges and all the relevant costs shall be borne by the bidder.

I) Annual Maintenance Contract:

An annual maintenance contract cost will be negotiated on completion of warranty period. *The bidder shall provide an annual maintenance cost as part of the commercial bid.*

J) 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.

K) Delivery and Installation:

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 120 days 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.

L) Payment Terms:

The payment will be through a Letter of Credit and the terms of payment are negotiable.

M) 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.

N) Disputes 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.

O) 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. All imported equipment should be quoted in the currency of the country of origin, and all locally sourced items should be quoted in Indian Rupees.
5. 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

Technical Specifications of Ultrasound Research and Development Platform:

Sl.No	Technical Parameter	Specification	Essential/Desirable
1	Number Of Active Channels support	Minimum 64 Receive and 128 Transmit independent channels	Essential
2	Imaging Modes		
2.1	Conventional Imaging Modes	B-Mode, M-Mode, Color Doppler and spectral Doppler	Essential
2.2	Special Imaging Modes	Plane Wave Imaging, Multiangle Flash Imaging, Very high frame rate Imaging(10,000 Frames/Sec), User Programmable Beamformer	Essential
3	Extended Transmit Option	Required with transmit duration of minimum 10milli seconds	Desirable To be quoted as separate cost item
4	High Intensity focused Ultrasound(HIFU) Continuous Transmit	8W per channel continuous	Desirable To be quoted as separate cost item
5	Arbitrary Waveform Generation	Independently programmable per-channel at 4 ns intervals (250 MHz clock rate minimum)	Desirable To be quoted as separate cost item
6	Axial and Lateral resolution	0.5mm (Minimum)	Essential
7	Scan angle	0 to 150°	Essential
8	Scan Depth	8 to 20 Cm	Essential
9	Signal Breakout Board	Printed circuit board adapter that plugs into the system connector and provides provision for ribbon cable connection to custom transducers with the space impedance matching	Essential
10	Input frequency range	0.5 MHz to 20 MHz	Essential
10.1	Input frequency range - Start Value	Less than or equal to 0.5 MHz Min	Essential
10.2	Input frequency range - End Value	Greater than or equal to 20 MHz	Essential
10.3	Pulser Amplitude	10 to 190 V _{p-p} No of steps in the range shall be indicated by bidder	Essential
11	Sampling Frequency	Up to 60 MHz	Essential
12	ADC resolution	Min 14 bit ADC	Essential
13	RF Channel data access capability	RF Channel data (prebeamformed), beamformed, post processed and scan converted data access capability in real-time at least 30FPS	Essential

14	Data Acquisition Triggers	Input and output triggers are fully programmable to trigger events	Essential
15	Safety Certifications	IEC 61010-1 3rd edition or equivalent	Essential
16	OS Support	Windows and Linux	Essential
17	Probes	Linear, Phased, curved and Custom Probe support capability.	Essential
18	Software Development Kit (SDK) to integrate user application across the research platform.	Provision to write own application code directly in different programming language (C/C++, etc.) including MATLAB	Essential
19	Power supply	40V to 140V 6V to 50V	Essential
20	Power Consumption	30W to 50W @ 230V,50Hz	Essential
21	Probes and Accessories:		
21.1	Linear Array Probe	Frequency Range 5-11MHz, Minimum 128 elements	Essential
21.2	Curved Array Probe	Frequency Range 2-5 MHz, Minimum 128 elements suitable for obs. and gyne applications	Essential
21.3	Custom Probe Support Kit/Universal Probe Adapter.	Should be Provided	Desirable To be quoted as separate cost item
22	Integrated computer	Software pre-installed to run the System	Essential

A) Accessories:

The bidder shall supply the below items along with the machine:

1. Recommended spare parts with specifications.
2. Operational manuals and maintenance manuals.
3. Sample APIs , Programs and Product Demo
4. Two copies of the operational software (in hard disks) should be made available.
5. Special and essential Infrastructure requirements.

B) Training and demonstration:

Training on usage of the machine (hardware and software) must be demonstrated by the successful bidder at bidder's cost for at least two persons at IISc, Bangalore.

C) 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 5: Technical Bid

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

The Chairman

Bio-Systems Science and Engineering

Indian Institute of Science

Bangalore – 560012

INDIA

Annexure-1:**Details of the Bidder**

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

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

Signature of the Bidder

Name

Designation, Seal

Date:

Annexure-2:

Declaration regarding experience

To,

The Chairman
Bio-Systems Science and Engineering
Indian Institute of Science,
Bangalore – 560012, India

Ref: Tender No: XXXXXXXXXX

Dated: XXXXX

Supply and Installation of Ultrasound Research and Development Platform

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 Supply and Installation of Ultrasound Research and Development Platform of this class.

(Signature of the Bidder)

Printed Name

Designation, Seal

Date:

Annexure-3:

Declaration regarding track record

To,

The Chairman
Bio-Systems Science and Engineering
Indian Institute of Science,
Bangalore – 560012, India

Ref: Tender No: XXXXXXXX

Dated: XXXXX

Supply and Installation of Ultrasound Research and Development Platform

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	Black listed / 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 Chairman
Bio-Systems Science and Engineering
Indian Institute of Science,
Bangalore – 560012, India

Ref: Tender No: XXXXXX

Dated: XXXX

Supply and Installation of Ultrasound Research and Development Platform

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:

Company Name	
Product Name	
Part / Catalogue number	
Product description / main features	
Detailed technical specifications	
Remarks	

Section 6: COMMERCIAL BID

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

SI No	Description	Catalogue Number	Quantity	Unit Price	Sub Total
1	Instrument price				
2	Accessories for operation and installation				
3	All safety equipment and protective gear				
4	List and cost of consumables				
5	Warranty (1 year)				
6	Cost of Insurance and Airfreight (CIP /CIF) Bengaluru				

Addressed to:

**The Chairman
Bio-Systems Science and Engineering
Indian Institute of Science,
Bangalore – 560012, India**

SECTION 7 – CHECK LIST

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

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

1. Envelope “A”: Technical Bid

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

Annexure 1: Bidders details

Annexure 2: Declaration regarding experience

Annexure 3: Declaration regarding clean track record

Annexure 4: Declaration for acceptance of terms and conditions

Annexure 5: Details of items quoted

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

2. 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. & Due Date.