Indian Institute of Science (IISc)
Bengaluru, Karnataka, India - 560012
(www.iisc.ac.in)

NOTICE INVITING TENDER

under the two-cover bid format

for

Supply and Installation of

Continuous Metabolic Analyzer

at

Department of Bioengineering, Indian Institute of Science
Bengaluru, Karnataka, India 560012

Tender No: BE/ENQ/TNDR/July2026/01

Date: 30/07/2026

Email: office.be@iisc.ac.in

This is a Request for Quote (RFQ) for domestic (India-based) bidders for the supply and installation of **Continuous Metabolic Analyzer** at the Department of Bioengineering, IISc.

Section 1 - Bid Schedule

1	**Tender No**	***BE/ENQ/TNDR/July2026/01***
2	**Tender Date**	**30/07/2026**
3	**Item Description**	Supply and Installation of Continuous Metabolic Analyzer, at Department of Bioengineering, IISc
4	**Tender Type**	Two bid system (i) Technical Bid (Part A) (ii) Commercial Bid (Part B)
5	**Place of tender submission**	The Office of the Chair Department of Bioengineering, Indian Institute of Science, Bangalore, Karnataka, India – 560012
6	**Last Date & Time for submission of tender**	**21/08/2026** **05:00 pm**
7	**For further clarification**	Prof. Siddharth Jhunjhunwala Department of Bioengineering, Indian Institute of Science Email: siddharth@iisc.ac.in with a copy to office.be@iisc.ac.in Phone: +91-80-2293 2624 (office)

Section 2 – Eligibility Criteria

Prequalification criteria:

1. The Bidder's firm should have existed for at least five years. Bidders should enclose the Company Registration Certificate.
2. **Past Performance:** The Bidder must provide evidence of having supplied and successfully installed continuous metabolic analyzers within the past 5 years, globally. Evidence may include purchase orders or commissioning reports.
3. The Bidder should have well equipped and qualified technical service personnel for the instrument(s) and the service personnel should be regularly trained by the manufacturer/OEM.
4. The quote should come only from an Indian Original Equipment Manufacturer (OEM) or their Indian authorized distributor. In this regard, an appropriate letter should be provided on the company letterhead with the manufacturing facility detailed address, country, contact person mail-ID etc.
5. If the bidder is not the OEM, formal authorization and commitment from the OEM must be provided for system integration, calibration, and performance validation support during installation and acceptance.
6. The Bidder should belong to either Class-1 or Class-2 suppliers 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 equal to or more than 50%.
    b. Class-2 supplier: Goods and services should have local content equal to or more than 20 % and less than 50%.
7. 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 services such as transportation, insurance, installation, commissioning, training, and other sales service support like AMC/CMC, etc., as local value addition.
8. Purchase preference, as defined by the recent edits to GFR (within the "margin of purchase preference"), will be given to the Class-1 supplier.
9. MSMEs can seek exemption from some qualification criteria. IISc follows GFR2017 for such details.

10. The quotations should be on FOR-IISc Bangalore basis in INR only

11. All documentation in the tender should be in English.
12. The bidder should sign and submit the declaration for Acceptance of Terms and Conditions as per - Annexure 4.
13. 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.
14. Any information furnished by the bidder found to be incorrect, immediately or later, would render the bidder liable to be debarred from tendering/taking up work in IISc, Bengaluru.

Cancellation of Tender:

1. Bids with inconsistencies with respect to this Section 3 Terms and Conditions and Section 4 Technical Specifications will be rejected.
2. Notwithstanding anything specified in this tender document, the IISc purchase committee, in its sole discretion, unconditionally and without having to assign any reason, reserves the rights:
    a. To accept OR reject the lowest tender, any other tender, or all the tenders.
    b. To accept any tender in whole or in part.
    c. To reject the tender, offer not confirming the tender terms.

Section 3 – Terms and Conditions

Documents Required for Submission of Tender:

1. Tenders should be submitted in two envelopes (a two-bid system).
    a) **Technical Bid (Part-A)** – A technical bid must be prepared consisting of Annexure 1-5. Additionally, in Annexure 5A, additional remarks from the OEM may be provided to highlight technical features justifying qualification in terms of specifications, and provide any additional details, compare the solution with competitors.

    b) The bidder must submit a detailed technical specification of the continuous metabolic analysis system. These should include the types of plates that can be used (24 and 96-well plate system), the schematics and diagrams of the plate and the sensors, the depth of the sensors in the plate, mixing rates and temperature of the system. Requirements are mentioned in Section 4 Technical Specifications.
    c) **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.
2. The technical bid and the commercial bid should be placed in separate envelopes and sealed, superscribing the tender description, tender number, and the due date on both envelopes. Both these sealed envelopes are to be placed in a single bigger envelope, which should also be sealed and duly super-scripted with the Tender No, Description & Due Date.
3. The single bigger sealed envelope should reach The Office, Dept. of Bioengineering, Indian Institute of Science, Bengaluru, Karnataka, India – 560012, on or before the due date mentioned in the tender notice. If the due date is a holiday, the tender will be accepted on the next working day. If any of the envelopes are not sealed, the bid will be rejected.
4. All queries are to be addressed to the contact details as mentioned in Section 1 – Bid schedule, item no. 7 of this tender notice.
5. GST/other taxes, levies, etc., should be indicated separately. The Bidder should mention GST Registration no. and PAN in the tender document.
6. If the price is not quoted in the Commercial Bid as per the format provided in the tender document, the bid may be rejected.
7. The purchase committee reserves the right to accept or reject any bid, and annul the bidding process, and reject all bids at any time prior to the award of the contract without thereby incurring any liability to the affected bidder or bidders, or any obligation to inform the affected

bidder or bidders about the same.

8. Leaflets and Descriptive Literature: Full descriptive particulars and drawings of the equipment offered should accompany the tender. Information regarding the country of manufacture or origin of materials used in the manufacture of the articles should be furnished.
9. Incomplete bids will be summarily rejected.

Validity of the Offer:

The offer shall be valid for 90 days from the commercial bid's opening date.

Evaluation of Offer:

1. The technical bid (Part A) will be opened first and evaluated.
2. Bidders meeting the required eligibility criteria 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. Prequalification of the bidders shall not imply final acceptance of the Commercial Bid. The bid 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 Bengaluru, and the decision in this regard shall be binding on the bidders.
4. The contract award 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 or by email/fax (unless previously 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 Bengaluru shall construe that the Bidder has accepted the clauses as of the tender, and no further claim will be entertained.
7. All amendments, time extensions, clarifications, etc., within the tender submission period, will be communicated electronically. No extension of the bid due date/time shall be considered due to a delay in receipt of any document(s) by mail.
8. No revision of the terms and conditions quoted in the offer will be entertained after the last date and time fixed for receipt of tenders.

9. The lowest bid will be calculated based on the total price of all items tendered for the basic equipment, accessories selected for installation, operation, pre- and post-processing, optional items, recommended spares, warranty, and annual maintenance contract. The purchase committee seeks the most cost-effective solution for obtaining a new product. A Bidder is encouraged to propose all avenues, including but not limited to buy back of the existing product, turnkey upgrade of existing product or purchase of new parts for the product.
10. The bidder may furnish any additional information necessary to establish capabilities to complete the envisaged work successfully. It is, however, advised not to provide superfluous information.
11. If required, the Bidder should give a technical presentation by their expert to the tender committee to clarify their queries, if any, during the technical evaluation.
12. With prior intimation and necessary approval, the bidder may visit the installation site before tender submission.

Pre-requisites:

The bidder shall provide the pre-requisite installation requirement of the equipment along with the technical bid.

Spares:

The bidder shall provide a detailed Bill of Materials, user manuals, and a list of all recommended spares, consumables, accessories, and replacement parts associated with the supplied system. The list shall include OEM/manufacturer name, part number, quantity, function, and confirmation of availability for a minimum period of three (3) years after installation. The bidder shall separately identify critical spares required for AO components including WFS, DM, FSM, cameras, DAQ hardware, controllers, optics, and associated electronics.

A certificate (in addition to the annexures) is required from the bidder stating that the model quoted is the latest model available from them and that service and repaid support will be available for at least 5 years post purchase.

Warranty:

The complete system must be under warranty for a minimum period of 3 years (year-wise

breakup value should be shown in the commercial bid). The Bidder should include the cost of any spares needed during the warranty period, including electronics, subcomponents, and software. If the instrument is defective, it must be replaced or rectified at the bidder's cost within 30 days from receipt of written communications from IISc, Bengaluru. If there is any delay in replacement or rectification, the warranty period should be extended.

Annual Maintenance Contract (AMC):

1. An annual maintenance contract for at least three years post-warranty should be provided as an optional item upon completion of the warranty period. Cost break-up for this should be provided year-wise.
2. The AMC costs will not be considered for classifying the bidder's domestic nature (class 1 or class 2) (see eligibility criteria in section 2).

Delivery, Installation, Acceptance, Training, and Demonstration:

1. **Delivery:** The bidder shall provide the lead time to delivery of the system at IISc, Bengaluru, from the date of receipt of the purchase order.
2. **Installation and Acceptance:** The bidder shall provide the lead time from the date of delivery to the completion of installation and testing toward acceptance of the system, within 2 weeks.

   Acceptance Criteria: The following tests and reports shall be submitted for system acceptance after installation, in line with the technical specifications or better as offered by the bidder. The bidder may carry out integration and validation in coordination with the OEM and in consultation with the IISc technical team; however, overall responsibility for satisfactory system performance shall remain with the bidder.

   I. Verification of proper functioning of all major subsystems, including the hardware, the sensing systems, and control software.
   II. Calibration, integration, and alignment of all components for stable operation.
   III. Demonstration of the measurements of DO, pH, OCR and ECAR from at least one plate with cells of our choice.
   IV. Submission of complete system documentation, calibration records, and operational procedures.

Training and Installation:

a. **We expect at least 3 (1hr each) training sessions to be conducted with a batch of 2-3 students at the beginning, and additional training be provided as required.**
b. **Additional training on using the software and obtaining sharing-ready**

data should also be provided.

After successful installation and inspection, the date of taking over the entire system by the IISc, Bengaluru, shall be taken as the start of the warranty period.

3. No partial shipment is allowed.
4. The bidder should also arrange testing and validation of performance as per specification, technical training, demonstration, and for the facility technologists of user facility with no additional cost.

Post-Installation Support and Technical Assistance

1. The supplier must provide active support for the complete installation, integration, and commissioning of the continuous metabolic analyzer system.
2. The supplier shall provide monthly online technical assistance (minimum 1 hour) on mutually agreed dates to address system performance, debugging, and operational challenges.
3. The supplier shall depute a qualified engineer for online servicing and system upgrades at least once every 6 months.
4. The scope of support shall include subsystems such as the software, hardware related to plate placement and removal, any instrument calibration, and data acquisition systems.
5. Separate commercial quotes must be provided for:
    I. Monthly online technical support
    II. on-site visits on request
6. The bidder shall specify response time (≤48 hours) and resolution time commitments, with critical issues to be resolved within a mutually agreed maximum timeframe

Payment Terms:

90% payment will be released after delivery, inspection, and satisfactory installation of the system. The remaining 10% will be released after successful completion of acceptance tests. As per GFR, no advance payment can be made to domestic bidders unless an equal amount of bank guarantee is provided.

Statutory Variation:

Any statutory increase in the taxes and duties subsequent to the bidder's offer, if it takes place within the original contractual delivery date, will be borne by IISc, Bengaluru, subject to the claim supported by documentary evidence. However, if any decrease occurs, the

advantage will have to be passed on to IISc, Bengaluru.

Disputes and Jurisdiction:

Any legal disputes arising from any breach of contract pertaining to this tender shall be settled in the court of competent jurisdiction in Bengaluru, India.

Purchase Order:

1. The order will be placed with 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, Bengaluru reserves the right to increase /decrease the quantity of the items depending on the requirement.
3. If the product and service quality is unsatisfactory, IISc, Bengaluru reserves the right to cancel or amend the contract.

Section 4 – Technical Specifications

The following technical specifications must be demonstrated during system installation and acceptance.

Parameter	**Specification limits / details**
Temperature for cell/plate incubator	RT + 10°C minimum; maximum ≥ 39 °C
Temperature control	± 0.3 °C at the maximum (lower would be preferred)
Ambient temperature for instrument	20 – 30 °C
Humidity monitoring in cell/plate incubator	Should be available
Ambient humidity for instrument	20 – 60 %
CO_2 level in the cell/plate incubator	1 – 15 % (with ± 0.5 control) at the very least
Plate types	24-well and 96-well should be permissible
Monitoring parameters	Dissolved Oxygen (DO), pH, Oxygen consumption rate (OCR), ECAR
DO measurement range	5 – 95 % at the very least
pH measurement range	6 – 8 (with a step size of ± 0.2)
Continuous monitoring of above parameters for a minimum of -	10 days
Sampling rate of monitoring parameters	At least once every 10 minutes
Mixing rate of media in the plates	10 – 50 seconds / cycle (or better)
Working volume for 24 well plate	1000 – 1500 µL
Working volume for 96 well plate	150 – 200 µL
Instrument input voltage	100 – 240 V
Data collection and visualization	
Computer hardware	Laptop or desktop, intel core 5 or better (equivalent), 16 GB DDR5, 1512 GB SSD, USB-C, USB-A, Windows 11
If desktop, then additional hardware	Monitor (minimum 21 inch), keyboard and mouse
Software	For all data collection and analysis on the computer attached to the instrument, should be available
Additional software	Same software – one or more additional licenses to be installed in other computers for offline analysis

Section 5- Technical Bid

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

The Office
Department of Bioengineering,
Indian Institute of Science

Bengaluru, Karnataka – 560012, India

Annexure-1:

Details of the Bidder

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

Sl. No	Items	Details
1.	Name of the Bidder	
2.	Nature of Bidder (Attach an attested copy of the Certificate of Incorporation/ Partnership Deed)	
3.	Registration No/Trade License (attach attested copy)	
4.	PAN No. (attach copy)	
5.	GST No. (attach copy)	
6.	Complete contact details (address, mobile no. / telephone no. / Email ID /website address) of company	
7.	Details of the contact person, address, mobile number, email ID, etc. (Sales and technical)	
8.	Category – (a) OEM, (b) OEM authorized distributor (mention clearly), (c) Another Supplier	
9.	Authorization letter by the OEM (Yes / No)	
10.	Bank Account Details (Attach a copy of a cancelled cheque or a letter from the bank.)	

Signature of the Bidder

Name

Designation, Seal Date:

Annexure-2:

Declaration Regarding Experience

To,

The Chair,
Department of Bioengineering,
Indian Institute of Science,
Bengaluru, Karnataka – 560012, India

Ref: Tender No: ***BE/ENQ/TNDR/July2026/01***

Dated: 30/07/2026

Subject: Supply and installation of **Continuous Metabolic Analyzer** at Department of Bioengineering, IISc.

Respected Chair,

I have carefully reviewed the Terms & Conditions in the above-referred tender. I hereby declare that my company/firm has __- - -__ years of experience in supplying and installing the proposed equipment.

(Signature of the Bidder)

Printed Name

Designation, Seal Date:

Annexure-3:

Declaration regarding track record

To

The Chair,
Department of Bioengineering,
Indian Institute of Science,
Bengaluru, Karnataka – 560012, India

Ref: Tender No: *BE/ENQ/TNDR/July2026/01*

Dated: 30/07/2026

Dear Sir/Madam

I have carefully reviewed the Terms & Conditions 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 am a competent officer in my company/firm to make this declaration.
Or

I declare that my firm is debarred/blacklisted as per following details:

S.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 the 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,
Department of Bioengineering,
Indian Institute of Science,
Bengaluru, Karnataka – 560012, India

Ref: Tender No: *BE/ENQ/TNDR/July2026/01*

Dated: 30/07/2026

Dear Sir/Madam

I have carefully reviewed the Terms & Conditions 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 am an authorized signatory of my company and am, therefore, competent to make this declaration.

One copy of this tender document (duly sealed and signed on all pages) is being attached to this bid.

Yours faithfully,

Seal & Signature with name & date and PAN & Aadhar card no. of the signatory.

Annexure – 5:

Details of items quoted with technical specifications:

1. **Technical Compliance Table (add as per section 4)**

S.No.	Parameter Name	Part in instrument that measures parameter	Detailed technical specifications (Use required number of sub-rows for each parameter)			Compliance "Yes/No"	Remarks
			Parameter as per instrument being sold	Unit	Desired value (as in Tender)		
1							
2							
3							
.							
.							
	Accessories (essential/optional)						
	Spares						

2. **Product brochures and user manuals** (add all relevant documents here).

Section 6 – Commercial Bid

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

To

The Chair,
Department of Bioengineering,
Indian Institute of Science,
Bengaluru, Karnataka – 560012, India

Ref: Tender No: *BE/ENQ/TNDR/July2026/01*

Dated: 30/07/2026

Dear Sir/Madam,

S. No	Description	Catalogue No.	Quantity	Unit Price	Sub Total
1.	Essential items noted in the technical specification				
1.a					
1.b					
1.c					
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				
7.	Cost of Insurance and Airfreight				
8.	FOR IISc, Bengaluru				

Any additional items, such as Spares, Hardware/PCBs Likely to go obsolete after the next 3 Years

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

Annexure 7 –

Declaration of Local Content by Local Supplier

Subject: Public Procurement (Preference to Make in India)

References:

Preference to Make in India, including counteroffering, will be as per the Public Procurement (Preference to Make in India) Order 2017, available in the following links

https://dipp.gov.in/publicprocurements
http://dipp.nic.in/sites/default/files/publicProcurement_MakeinIndia_15June2017.pdf
http://dipp.nic.in/sites/default/files/Revised-PPP-MII-Order-2017_28052018.pdf
https://dipp.gov.in/sites/default/files/PPP-MII%20Order%20dt%2029th%20May%2019_0.pdf
https://dipp.gov.in/sites/default/files/PPP%20MII%20Order%20dated%204th%20June%202020.pdf

We hereby declare with reference to the above subject and references that **M/s ----------**

(Tick whichever is applicable as below)

"Class-I local supplier" meeting the requirement of minimum local content equal to 50% (fifty percent) or more defined in the above government notification for the goods and services.

(or)

“Class-II local Supplier” meeting the requirement of local content 20% to less than 50% (fifty percent) defined in the above government notification for the goods and services

(or)

Non-Local supplier (If not belonging to Class-I & Class-II)

Please mention the details about the following:

Enquiry no: _____**dated.** _____

Type of Supplier (Class-I/Class-II) _____

Product: _____

Project: _____

Details of the location at which local value addition will be made are as follows**:** _____

We also understand that the false declarations will be in breach of the 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.

Authorized Signature M/s ----------
(Signature and stamp)

Place: _____
Date: _____

Section 7 – Checklist

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

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

Sealed Envelope "A": Technical Bid

Annexure 5- Technical Bid (each page signed by the authorized signatory and sealed) with the following 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.
f) Annexure 7: Declaration of Local Content by Local Supplier.

Copy of this tender document duly signed by the authorized signatory on every page and sealed. All Annexures are to be submitted on the company letterhead by the supplier.

Sealed Envelope "B": Commercial Bid

Section 6: Commercial Bid

Your quotation must be submitted in two envelopes: **Technical Bid (Envelope A)** and **Commercial Bid (Envelope B)**, clearly indicating the Tender description, Tender No., and the due date on both envelopes. These should be sealed and placed inside a larger envelope, which must also be sealed and appropriately marked with the Tender No., Tender description, and Due Date.