

**Open Tender Notification for the procurement of "Automated fluorescence Live cell imaging system inside an incubator" at the Biochemistry Department, Indian Institute of Science, Bangalore**

**(Last date of submission of tenders: 16th January 2024)**

**(GLOBAL TENDER notification)  
(GTE approval number: F.No 51-03-2023-TS.VII)**

**December 26, 2023**

**Dear Sir/Madam,**

**Sub: Automated fluorescence Live cell imaging system inside an incubator**

**This is a Global tender notification meant for the purchase of an " Automated fluorescence Live cell imaging system inside an incubator "** towards the purpose of performing bright field and fluorescence live cells imaging in real-time in cellculture incubator for monitoring cell viability and cytotoxicity and analysis cellular processes. Your quotation should clearly indicate the terms and conditions of the quotation, delivery schedule, entry tax, payment terms, warranty coverage etc. The quotation should be submitted in two parts: **Part I (Technical Bid) and Part II (Commercial Bid)** and both should be submitted in separate sealed envelopes. The Technical bid should be exactly the same as the Commercial bid except that prices must not be shown in the technical bid. The Technical bid should have an item wise compliance report of all specifications indicated below. **The last day for submitting the bid is 16th January, 2024 from the date of tender notification.** The offer should be valid for a period of at least 90 days from the last date of submission of quotes. **Quote should come from authorized Original Equipment Manufacturer (OEM) or their authorized distributor.** The quotations should be on CIP/CIF-IISc Bangalore basis in INR only.

The bid should address the following technical specifications for the: Automated fluorescence Live cell imaging system inside an incubator:

1. Automated Live Cell Imaging device that can be placed inside any cell culture incubator. This device should enable cell culture and live cell imaging simultaneously.
2. Unit Dimensions **should Not** be more than 170 x145 x 140mm (L x W x H) and Weight below 1.5 KG
3. The device should fit in any rack of an incubator of an approximate height of less than 17cm.
4. Optics of the Imaging device should have Bright field, green and red fluorescence channels.
5. Magnification should be 10x fixed Objective
6. Light Source preferably should be LED with minimum 6.4MP CMOS Camera.
7. Experimental recording interval rate should be between 5min -12hr.

8. Imaging device should be able to accommodate Culture vessels including Flasks, Well plates, Petri dishes, slides, micro fluidic and custom made culture contraptions.
9. System should be provided wherein all the scans are uploaded to Cloud for storage and processing. This storage should also ensure data security, improved accessibility and increased work flexibility.
10. Cloud Storage should be flexible in accessing data from anywhere at any time.
11. Operating conditions should be : 5-40 Deg C and 20-95% humidity
12. Image analysis algorithms for confluence, and scratch assay should be included.
13. Live Cell Imaging device should not require calibration by user for operation.
14. Cell Imaging device which should have USB provision to connect to external Laptop/Desktop computer.
15. Instrument should come with a minimum of 1-2 Years Warranty.
16. Imaging device should have the modules to acquire Time lapse movies to investigate the development of cellular processes.
17. Imaging device should provide full remote access so that no need to enter the lab to inspect cell cultures
18. Imaging device should allow acquisition of both bright field and fluorescence images real-time while the cells are incubated in CO2 incubator
19. The imaging device should be portable and should be able to reconnect independent of the device location.

**Important: Please note that the Automated fluorescence Live cell imaging system inside an incubator should match all technical specifications and item-wise compliance must be listed in a detailed document in the technical bid**

1. 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 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%.
2. 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.
3. Purchase preference as defined by the recent edits to GFR (within the “margin of purchase preference”) will be given to the Class-1 supplier.
4. MSMEs can seek an exemption to some qualification criteria. IISc follows GFR2017 for such details.

**The sealed tender documents should be addressed to The Chair, Department of**

**Biochemistry, Indian Institute of Science, Bangalore 560 012. Last date for receiving queries is 16<sup>th</sup> Jan. 2024 from the date of tender notification.**

Thank you,

Sincerely

Chair  
Department of Biochemistry,  
Indian Institute of Science  
Bangalore - 560 012