

## Department of Materials Science and Engineering

**Date: 22/05/2018**

**Enquiry Number: IITK/MSE/PL**

We are interested to purchase “**Microplate spectrophotometer**”. The proposed machine should comply with or be better than each of the specifications mentioned in the Technical Specifications Section. Please carefully note and comply with the following instructions. If any of the instructions are not followed, the submitted bid will be disqualified.

1. Please submit your bids in two separate envelopes named “Technical Bid” and “Price bid”. The Technical bid should contain the detailed technical specifications of the proposed machine, photographs of the machine and other accessories offered. The Technical Bid should not contain any prices. The Price Bid should contain the technical specifications as well as prices in details.
2. The “Technical Bid” should contain one “Technical Compliance” statement, each page of which should have signature and seal of the prospective supplier. In this statement, each of the specifications mentioned in the Technical Specification should be re-written and the value (or range wherever applicable) offered in the proposed machine for the given specification should be specifically mentioned. This should be followed by stating whether the offered machine complies or does not comply with the concerned specification. If value offered by proposed machine for any of the asked specification is not specified or comply/does-not-comply for each specification not specified or any ambiguity is left in the specifications, the bid will be disqualified.
3. The prospective supplier should be either original manufacturer or 100% subsidiary or authorized agent of the original manufacturer of the offered machine. The Technical Bid should contain an original certificate obtained from the principal company to this effect.
4. The prospective supplier should have supplied the offered machine to at least 3 government or government-affiliated institutes, which should be either an IIT, IISc, NIT or a national laboratory like NML, NCL etc. The list of such personals having this machine and their contacts should be included in the Technical Bid.
5. Each of the envelopes should be appropriately marked as either “Technical Bid” or “Price Bid”. Enclose the two sealed envelopes in another bigger sealed envelope and send it to the address mentioned below.
6. Include proprietary item certificate if applicable
7. Institute is exempted for partial custom duty (CD applicable to IIT Kanpur is 5.15%). Prices quoted should be FOB (indicating port of shipment) and CIF (New Delhi) values separately if requires import.
8. Institute is exempted from payment of Excise Duty under notification No. 10/97.
9. The bids should reach the undersigned before 12 Noon on 12/06/2018.

**Dr. Vivek Verma**  
**Faculty Building Office, FB 418**  
**Department of Materials Science and Engineering**  
**Indian Institute of Technology, Kanpur**  
**Uttar Pradesh 208016**

### Technical specifications

- Should have UV-Vis absorbance; Fluorescence intensity (top & bottom), Luminescence, Time Resolved Fluorescence (TRF) modes upgradable to Cell imaging system-Fluorescence, Bright field, phase contrast, Colour Bright field (up to 60x )
- Wavelength range: 250-800 nm
- Temperature control: upto 65°C
- Detector : PMT
- Reading speed (Kinetic): 96 wells : 15 Seconds , 384 wells : 25 Seconds
- Condensation control: System should ability with Condensation Control for long time kinetics
- Microplate types: 6, 12, 24, 48, 96 and 384-well plates and Petridishes.
- Shaking: Linear and orbital plate shaking modes.
- Light source: Xenon Flash Lamp
- Absorbance : Wave length -: 230 – 850 nm, Monochromator with 1 nm increment
- Fluorescence intensity : Wave length : 250- 850 nm, (Monochromator with 1 nm increment ) , Variable bandwidth fluorescence monochromator
- Luminescence: Wave length : 300-700 nm
- Software Single integrated windows (7 or higher) based software for Reader control and data analysis with at least 3 user licenses should be supplied with the instrument.
- Read method: Should be able to perform end-point, kinetic, spectral scanning, well-area scanning assays.
- System should be upgradable to Cell Imaging & Live cell imaging :

Imaging modes: Fluorescence, Brightfield, phase contrast Brightfield, color brightfield

Support up to 60x & imaging Slides, Micro plate, Petri dishes & flask

- Installation and training: Vendor should provide training on operation and application at IIT Kanpur after installation.
- Spares: The supplier of the instrument must confirm in writing that the spares for the entire instrument will be available for a period of at least ten years after the installation of the instrument.