



भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली

मानव संसाधन एवं विकास मंत्रालय, भारत सरकार द्वारा स्थापित
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27th April 2016

TENDER NOTICE

On the behalf of Director, IISER-Mohali, sealed tenders in **TWO BID SYSTEM** { Technical and Commercial separate } are invited, for purchase of following item along with EMD money by DD /Banker Cheque/FDR/ Bank guarantee for Rs 2,00,000/- and tender fee of Rs 1000/- (non-refundable) through DD in favour of the Registrar, IISER Mohali, so as to reach us latest by **18th May 2016** before 1 pm and will be opened on the same day at 4pm.

Sr	Description	Qty
01	Combined steady-state and pico-second time resolved fluorimeter (using TCSPC technique) (Specification as enclosed)	01

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(Mukesh Kumar)
Assistant Registrar (S&P)

Specifications- for combined steady-state and pico-second time-resolved fluorimeter (using TCSPC technique):

Excitation:

1) Picosecond laser diodes (LDs) with ~80ps or better temporal width (FWHM) at select wavelengths, computer controlled, rep rate between 10 to 100 MHz, easy switching between LDs, continuous and computer controlled power control, external triggering option.

Standard LDs in visible/NIR range (~350nm to ~850nm) should be provided. Mention the lowest possible pulse-width for each.

May separately quote for additional visible/NIR LDs with details.

May quote separately for other compatible CW/pulsed sources (for example, tunable supercontinuum source).

2) LEDs with ~800ps or better temporal width (FWHM) at ~295nm.

Standard LDs in UV range (~250nm to ~400nm) should be provided. Mention the lowest possible pulse-width for each.

May separately quote for additional LEDs with details.

3) Optional coupling to a femtosecond (~100 fs FWHM) Ti:sapphire laser and/or visible OPA in future should be possible.

4) For steady-state absorption, excitation monochromator with computer-controlled switching between lamps, grating rotation and slit-width adjustment is preferred.

Details (source type, dispersion, blaze wavelength, PMT sensitivity, etc) should be provided.

5) Optional coupling to steady-state NIR (~800nm to ~2μm) source in future should be possible. This should simply be achieved by easily replacing the grating(s).

May quote separately for accessories for both steady-state and time-resolved (if possible) with all details for every component (source, monochromator, detector) for this NIR range.

6) Additional excitation source at a fixed wavelength (~550nm) with dual picosecond pulsed and CW mode operation is highly preferred.

Emission:

1) For fluorescence detection (both steady-state and TCSPC), emission monochromator with computer-controlled switching between lamps, grating rotation and slit-width adjustment is preferred. The resolution should be ~1nm or better.

Details (dispersion, blaze wavelength, PMT sensitivity, etc) should be provided.

2) For TCSPC the detector should be an MCP-PMT like the standard R3809-50 or better, must be kept in a temperature controlled (Peltier cooled or fan cooled) housing.

Details of the MCP-PMT (sensitivity, dark noise, transit time-width, etc) should be provided.

3) The lowest IRF (achieved with femtosecond excitation) and the IRF with the LD having lowest pulse-width must be clearly mentioned.

4) For time-resolved anisotropy measurement, motorized (computer controlled) toggling of GT prism-polarizer must be done.

5) The input from an independent fluorescence microscope must be used for FILM.

6) For fluorescence quantum yield measurement, an integrating sphere must be assembled very easily whenever needed.

May quote separately for integrating sphere with accessories.

Sample:

1) The sample chamber must be temperature controlled.

Clearly mention the temperature range with coil-heating or other method (without cryostat)

2) Optional cryostat cooling and coil heating must be possible.

May quote separately for cryostat with accessories.

- 3) Quartz cells of following sizes (one pair of each type) must be provided: 10mm x 10mm, 10mm x 5mm, 10mm x 2mm. Additional pair of glass cells of 10mm x 10mm size must be provided.
 - 4) There should be in-built stirring of liquid sample with magnetic stirrer and/or flow cell type arrangement with peristaltic pump.
 - 5) Fluorescence in the reflection mode must be collected with proper collection optics.
- May quote separately for accessories for FLIM.

Hardware & software:

- 1) Details of the CFD, TAC range, electronic jitter, etc must be clearly mentioned.
- 2) The system software must acquire, fit and analyze the data through user-friendly interface. Analysis like tail fitting, numerical reconvolution, lifetime distribution, anisotropy analysis, global lifetime analysis, error analysis, etc must be done easily. At least two PC license for the software must be provided.

All additional features of the software, if any (like, TRES measurement, FRET analysis), must be mentioned.

Other:

- 1) All additional accessories (neutral density filters/attenuators, desktop unit, power cables and connectors, etc) should be provided.
 - 2) Should mention about the installation, training, warranty and maintenance.
 - 3) Should provide name and address of at least 10 different users of the quoted model(s) within India and in abroad.
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INSTRUCTIONS

1. The Quotation should be addressed to the Assistant Registrar (S&P), IISER Mohali should on the top of the envelope invariably give Reference number with due date and time of submission of quotation. Quotation should be submitted directly by the original manufacturer/supplier, If quotation is submitted by any representative/agent/dealer then they must have to produce a authority certificate of principal party for quoting the price otherwise it will be very difficult at this end to consider such quotation.
2. One time importers from China with custom made specifications are highly discouraged.
3. The quantity mentioned in this inquiry is and shall be deemed to be only approximate and will not in any manner be binding on the Institute. Before the deadline for submission of the bid, IISER Mohali reserves the right to modify the bidding document and to extend or not to extend the date of submission. Such amendment/modification will be notified to bidders receiving the bidding document in writing or fax/ email and will also be hosted on IISER Mohali website.
4. The rates offered should be FOR Chandigarh/Mohali in case of firms situated outside Chandigarh/Mohali, and free delivery at the Institute premises in case of local firms. Supplier from outside India should mention the **Ex-works/FOB/FCA/CIF/CIP** price clearly. Conditional tenders will be summarily rejected
5. In case of Ex-godown terms the amount of packaging forwarding freight etc should clearly be indicated by percentage or lump sum amount. Institute has policy **not to make any advance payments** towards any purchase, Letter of credit can be opened if required.
6. THE INSTITUTE IS EXEMPTED FROM EXCISE AND CUSTOM DUTY under notification no-51/96 –CUSTOM DATED 23/7/1996 AND DSIR REGISTRATION NO TU/V/RG/-CDE(1062)/2011 DT. 02/09/2011 / EXCISE NOTIFICATION NO. 10/97- CENTRAL EXCISE DT. 01.03.1997

7. TAX: - This Institute is not exempted from the payment of Sales Tax/Service Tax/VAT. The current rate (i.e. percentage of Sales Tax should be clearly indicated included or excluded) wherever chargeable. Please also provide the copy of PAN card, TIN number, Service tax number, Sales tax number duly self-attested.
8. The delivery period should be specifically stated. Earlier delivery will be preferred
9. The firms are requested to give detailed description and specifications together with the detailed drawings, printed leaflets and literature of the article quoted. The name of the manufactures and country of manufacture should also invariably be stated. In the absence of these particulars, the quotation is liable for rejection.
10. Validity of offer: 90 days. The warranty period after satisfactory installation should be mentioned and firm should replace all manufacturing defect parts/ whole item under warranty without any extra cost including clearance, freight, taxes. Security deposit/ Bank Performance Guarantee for 10 % of the value of supply order as per norms may be sought from firms.
11. Late or delayed quotation will not be accepted.
12. The right to reject all or any of the quotation and to split up the requirements or relax any or all the above conditions without assigning any reason is reserved. For any corrigendum and addendum our website may please be checked regularly.