

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE
2A & 2B, RAJA S C MULLICK ROAD, JADAVPUR, KOLKATA 700032

NIT No. : IACS/IC/Dr. S. Ghosh Dey / 2016-17 / 05 dtd. 17/05/2016

Indian Association for the Cultivation of Science invites Sealed Tenders for purchase “**Stopped Flow with Cryo-Stopped Flow, Rapid Freeze Quench and EPR Stop Flow Attachments**” to be procured from DST SERB Individual Project. The bids are to be submitted in **Two-Bid pattern i.e. Technical Bid and Price Bid** in two separate sealed covers distinctly marked accordingly and both to be put inside another envelope, which should be sealed and super scribed with **Stopped Flow with Cryo-Stopped Flow, Rapid Freeze Quench and EPR Stop Flow Attachments** ' Tender Notice No., Due date and time of opening. Two bids i.e. Technical Bid and Price Bid should be identical in all respects except that the Technical Bid should have blank space at the places where prices have been quoted in the Price Bid. The bidders may submit bids duly signed in their own letterheads. In case the scheduled date of opening of tender is declared as holiday, the tender will be opened on the next working day at 3.00 P.M. The technical bids will be opened first to evaluate the technical specifications of the equipment and the price bids of the technically qualified companies only will be opened thereafter. Complete tender bids should reach the **Registrar, Indian Association for the Cultivation of Science, 2A & 2B, Raja S C Mullick Road, Jadavpur, Kolkata 700032, West Bengal, India**, on or before the scheduled date & time specified below :

Tender Notice No.	IACS/IC/Dr. S. Ghosh Dey / 2016-17 /05 dtd. 17/05/2016
Last Date and Time of Submission of Tender	15 /06 / 2016 before 17:00 hrs
Pre-bid Meeting (date, time & venue)	03 /06 /2016 at 15:00 hrs JC Bose Meeting Room
Date, time and placed of opening of Technical part of Tender	(a) 16 /06/ 2016 at 15:00 hrs JC Bose Meeting Room
Date, time and placed of opening of Financial part of Tender	(b) 17 / 06 / 2016 at 15:00 hrs JC Bose Meeting Room
Contact Details	Dr. Somdatta Ghosh Dey e-mail: icsgd@iacs.res.in

2. PRICE BID: The financial bid indicating item-wise price for the items mentioned in the technical bid should be kept in a separate sealed envelope duly super scribed as “PRICE BID” on the outer cover of the envelope as already detailed above.

(a) The components of the Stopped Flow has to be **quoted in dollars/Euros for (imported) on CIF basis.**

(b) **The price bid of only technically qualified bidders will be opened and they will be intimated the date and time of opening at their email id-s.** Rest of the bids will stand rejected.

BID SECURITY:

1. An Account Payee Demand Draft/Pay Order for Rs. 6,00,000/- (Rupees Six Lakhs only) drawn in favor of "Indian Association for the Cultivation of Science" is to be furnished along with Technical Bid as Bid Security money (or EMD). Bidders registered with the Central Purchase Organizations, National Small Industries Corporation etc. may be exempted from paying EMD subject to their submission of a copy of valid registration certificate with their Technical Bids, failing which their bids will be rejected.

2. The Demand Draft/ Pay Order for the Bid-Security money should have at least 60 (sixty) days validity period after the opening of the Bids.

3. In the case of non-award of the work, the Bid Security money would be returned to the bidders.

PERFORMANCE SECURITY:

1. An Account Payee Demand Draft/Bank Guarantee of Rs. 12,00,000 (Rupees Twelve Lakhs Only) drawn in favor of "Indian Association for the Cultivation of Science" is to be furnished by the successful bidder to be awarded the contract, as "Performance Security" money.

2. Performance Security should remain valid for a period of 90 (sixty) days beyond the date of completion of all contractual obligations of the supplier including warranty obligations.

3. Bid Security would be refunded to the successful bidder on receipt of Performance Security

3. TECHNICAL BID:

The stopped flow and the accessories must be provided by a single OEM and not assembled from components from different manufacturers. The country of manufacture should be USA, Japan, UK and member countries of European Union. The instrument quoted must feature

- Number of syringes: 4
- 4 independent stepping motors
- mixer type: berger ball (x3)
- syringes: Must made in peek (Glass syringes not acceptable)
- Syringes size: 10 mL as a standard other volume as 6.5-7.0mL, 3.0-4.0 mL and 1.0 2.0 mL should be available as option)
- Priming volume: 80-100 μ L
- Mixing ratio: variable for the four syringes from 1:1:1:1 to 1:25:25:50 or comparable) Intermediate mixing ratios should be available.
- The mixture should be software controlled.
- Minimum injection volume: 10-25 μ L depending on the cuvette used
- Cuvette supplied as a standard: light path of 0.75mm and 1.5 mm
- Temperature control -80°C to 20°C (with cryo stopped flow) and default operation at room temperature with water bath control.
- Must be equipped with
 - Cryo stopped flow for operation between -80°C to 20°C

- Freeze quench accessory integrated with and controlled by the parent system.
- EPR stopped flow with EPR flat cell.
- Use of set of delay lines for continuous AND interrupted flow mode in double/triple mixing
- Must adapt loading ports for gas tight syringes (for anaerobic conditions)
- Must be supplied with adapted o'rings for using organic solvents use
- One Xe/Hg lamp (must be able to adapt a second lamp in the light box)
- Two optical modes detection modes: absorbance (both PMT and Diode Array)

PMT detector

- acquisition modes: rapid kinetics recordings
- fiber optical guide in excitation
- PM tube should be directly attached to the observation head
- wavelength range: 200 to 800 nm
- slit width: ~8-10 nm
- acquisition speed: from 7-12 μ s/point to as low as 10 s/point
- filtering: Manual analogue low-pass (10 μ s to 30 ms)
- noise level in absorbance: $5 \cdot 10^{-5}$ AU (rms at 1 ms integration time constant)
- complete driving software running under Windows XP or higher version
- can be motorized for automatic scanning capabilities

Diode array detector:

- 1024 pixels
- Spectral range: 200 nm - 900 nm
- 0.7-1.0 nm/diode
- Integration time: 1.5 ms - 10 s. Integration time above 2.5 ms not acceptable.
- SMA fiber optics (with >95% transmission in the visible range) + adaptor/coupling optics

(i) Warranty: Two (2) years on-site OEM warranty for all parts and labor. The warranty period will commence from the date of certification of successful installation of the equipment.

(ii) Maintenance: The vendor should include the price of annual maintenance contract (AMC) as an option in the price bid.

(iii) Installation and Commissioning: Free of cost at IACS, Kolkata. The vendors are required to give an estimate of the time, space and other facilities required for installation in the technical bid. The vendor shall remain responsible to **demonstrate the performance of the stopped flow, cryo-stopped flow, freeze quench and EPR accessory after installation.**

(iv) Vendor Eligibility:

- (I) bids must be submitted by OEMs or OEM supported single vendors (one vendor one OEM) only with original authorization certificates from the OEMs. **Vendors should have proven experience in setting up at least five similar systems in the last five years in India.** Proof for such experience (installation certificates/user appreciation note) from credible sources should be included in the technical bid.
- (II) Vendor should be responsible along with OEM in providing support for the machines during the warranty period.

- (III) Vendor should have service engineers stationed at Kolkata and should respond to service calls within 24 hours of receiving a notice from IACS. Additionally, the vendor (service provider) should have an office in Kolkata. The vendor has to provide contact details of service engineers and its office in Kolkata

Additional Requirements:

(i) **Compliance List:** The vendor must submit a table indicating the compliance of the features of the model of the components being quoted with those given in the indent. In case of non-compliance against a particular item, the vendor should justify that.

(ii) **Training:** Free training on operation, maintenance and troubleshooting of the whole system should be provided to at least 2 persons for a period of one week at the site of installation.

****Please Note: The decision of the Technical Committee on technical competence and eligibility of any technical bid submitted by any vendor would be final and cannot be contested.**

3. GENERAL INSTRUCTIONS:

(i) **Submitting Tender:** The Tender must contain materials related to these specifications and should not contain materials that can overtly or covertly try to canvass for the vendor. The vendors are allowed to deviate from the specifications provided only when such deviations are demonstrated to be technically superior and the same is acceptable to the technical committee.

Additional features in the quoted items which are better than those in the indent – may be highlighted. The technical bid should not have any mention of pricing. The commercial bid should have the pricing for each option separately. Prices should be inclusive of all charges (taxes/duties as applicable, shipping charges, delivery at site, installation etc.) with clearly indicated break-ups. Fax, e-mail Tender will not be accepted. Duplicate Bid document must be submitted in Separate closed cover.

(ii) **Post-sale service:** The vendor must submit the names of the service engineers employed by them who are competent to perform the installation and maintenance along with their contact details in India.

(iii) **Tender updates:** Prospective bidders may please refer to our website <http://www.iacs.res.in>, occasionally for any update on the tender which may appear from time to time. **Interested Vendors should email their interest in Pre-Bid meeting at least a week before the scheduled date.**

(iv) **Ineligible Tenders:** Incomplete and conditional tenders and tenders received after the due date will be summarily rejected without assigning any reasons thereof. Tender Notice and tender for 'Stopped Flow with Cryo-Stopped Flow, Rapid Freeze Quench and EPR Stop Flow Attachments' should be clearly written on the envelope.

(v) In case of any dispute, the decision of the Institute authority shall be final and binding on the bidders.

Registrar (Acting)