

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

Tender No.: OC/JD/15/02 dated 2.01.2015

Sub: "Flow Synthesizer"

Sealed tender in two bids system (**Technical Bid & Financial bid**) is invited from bonafide, resourceful and eligible manufacturers/exclusive distributors for "**Flow Synthesizer**".

Part - I(Technical Bid) of the tender should contain technical details and commercial terms and conditions and **Part - II(Price Bid)** should indicate group-wise price as mentioned in the Technical Bid where applicable. The Technical Bid and Price bid are to be submitted in two separately sealed envelopes distinctly marked accordingly and both to be put inside another envelope, which should be sealed and super scribed with tender notice no. and due date. The bidders may submit bids duly signed in their own letterheads.

Complete tender bids should reach the **office of the Department of Organic Chemistry, Indian Association for the Cultivation of Science, 2A & 2B Raja S. C. Mullick Road, Jadavpur, Kolkata - 700032** on or before the scheduled date & time specified below.

Tender Notice No.	OC/JD/15/02 dated 02.01.2015
Last date and time of submitting tender	02.02.2015 at 12.30 P.M.
Pre-bid meeting	16.01.2015 at 3.00 P.M.
Date and time of opening tender	02.02.2015 at 3.30 P.M.
Place of opening tender	IACS Kolkata, Lab 108A
contact	e-mail: ocjd@iacs.res.in Tel. +91-33-2473 4971 (ext. 1405)

The **technical bids** will be opened first to evaluate the technical specifications of the equipment thereafter, the **Price bids** of only technically qualified bidders will be opened.

1. TECHNICAL BID:

The Technical Bid should contain technical specifications and kept in a separate envelope duly super scribed as "**Technical Bid**" on the outer side of the envelope as detailed above.

Specification of a Flow Synthesizer

Temperature operating range -85 °C to 260 °C

Flow rate 0.01 to 10.0 mL/min - pumps can be recalibrated within system firmware

Operating pressure 100 bar (1400 psi)

Full stainless steel flow path

Integral safety screen

Loop injectors with Tefzel rotors

Mounting for temperature controlled glass static mixer chip for heated and low temperature chemistry

Internal fully automated firmware control

Full safety interlock for low and high pressure and over temperature protection on coil and column holder

Ability for user to rewind reactor coils

All flow path pipe work must be readily accessible on the outside of the machine

Instrument Control System including PC and software

Capable of running an automatic experiment without external PC

Firmware can be updated by end user

System can be updated with Fraction collector and liquid handler system for fully automatic operation for optimisation and library synthesis

Consumables:

Coil reactors 2.5 mL, 5 mL, 10 mL, 20 mL (one in each) in Stainless steel, Hastelloy, PFA and PTFE

Back pressure regulators chemically inert with Hastelloy spring adjuster screw

Supply of columns 15 mm and 10 mm O.D for immobilised reagents and scavengers. Capable of being heated and cooled in the instrument

The machine can be upgraded in future.

The financial bid indicating (item-wise) price for the item (s) 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. The price bids 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.

PRICE: Price to be quoted both on FOB/CIF/EX WORKS basis. Name of the particular Port from where our authorized forwarder will lift the consignment must be mentioned clearly with FOB/CIF/EX WORKS price.

3. BID SECURITY:

i) The financial bid should be super scribed as "PRICE BID" on the outer cover of the envelope.

ii) **Bid Security (EMD):** An Account Payee Demand Draft of Rs. 40,000/- (Forty thousand only) in the name of "Indian Association for the Cultivation of Science" is to be furnished by the bidders as Bid Security money or Earnest Money Deposit (EMD).

iii) The Demand Draft for the Bid-Security money should have at least 45 (forty five) days validity period after the opening of the Bids.

iv) In case of non-award of the work the Bid Security money would be returned to the unsuccessful Bidders.

4. PERFORMANCE SECURITY:

An Account Payee Demand Draft of **10% of the order value** in the name of "Indian Association for the Cultivation of Science" is to be furnished by the successful bidder as Performance security. Performance security money should remain valid for a period of 60 days beyond the date of completion of all contractual obligations of the supplier including warranty obligations. Bid security money will be refunded to successful bidder on receipt of THE Performance security money.

5) GENERAL INSTRUCTIONS:

1) Incomplete & conditional tenders and tenders received after the due date will be summarily rejected without assigning any reasons thereof.

2) Tender Notice Number and tender for "Flow Synthesizer" should clearly be written on the envelope.

- 3) At any time prior to the bid due date, IACS may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder during pre-bid meeting, modify the bidding documents. The amendment(s) will be notified on the Institute website. Prospective bidders are advised to occasionally visit the website (www.iacs.res.in/tender) for any amendment.
- 4) **Payment:** 100% against delivery and successful installation subject to submission of performance guarantee.
- 5) **Warranty:** Minimum 2 years.
- 6) **Installation/Demonstration/Application Training at site:** Free of cost by the supplier
- 7) **Service facility:** Supplier should mention their details of service setup and Manpower in Kolkata who are responsible for after sales support. Response time should be within 24 hours.
- 8) **Validity of tender:** Tender submitted shall remain valid at least for three months from the date of opening the tender. Validity beyond three months from the date of opening of the tender shall be by mutual consent.
- 9) The tender should accompany a compliance chart.
- 10) The rate should be inclusive of all taxes, transportation etc. Nothing extra will be paid in addition to the quoted rate.
- 11) The model number, make, and a printed literature of the product shall submit positively.
- 12) Proposed delivery schedule should be mentioned clearly.
- 13) Manufacturers/exclusive distributors/vendors should have history of supplying this type of instrument to this or other Scientific Organizations.
- 14) Authorized Dealership Certificate is must in case of principal manufacturing company is not quoting directly.
- 15) Guarantee certificate, users manuals etc. are to be handed over to the user after successful commissioning of the system.

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16) In the event of date being declared a closed holiday for purchaser's office, the due date for submission of bids and opening of technical bids will be the following working day at the appointed time.

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

18) For any clarification regarding technical specifications, etc. please send your queries to "Dr. Jyotirmoyee Dash" ocjd@iacs.res.in.

19) The Institute reserves the right to reject any or all of the tenders received without assigning any reason thereof.

R E G I S T R A R