

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE

Jadavpur, Kolkata – 700032

NIT No.: IACS/TRC/DNA Synthesizer/ 2016-17 /38

Dtd. 09/09/2016

Sub: “Procurement of DNA/Nucleic Acid Synthesizer” under the “IACS-TRC” Grant

Sealed tender in two bids system (**Technical Bid & Price bid**) is invited from bonafide, resourceful and eligible manufacturer/exclusive distributor/vendors for “DNA/Nucleic Acid Synthesizer” with the following specifications & Accessories. 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. 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 superscribed with tender reference no. and due date. Complete tender bids should reach to the office of Dr. Surajit Sinha, Department of Organic Chemistry, Indian Association for the Cultivation of Science, Jadavpur, Kolkata 700032 on or before the scheduled date & time specified below. The bidders may submit bids duly signed in their own letterheads.

Tender Notice No.	IACS/TRC/DNA synthesizer/2016-2017/38 dated 09.09.2016
Last date and time of submitting tender	18 October, 2016 at 11 am
Date and time of opening technical bids tender	18th October, 2016 at 3 pm
Date and Time of Pre-bid meeting	28th September, 2016 at 3 pm
Place of opening tender	Organic Chemistry Office
Venue of Opening of Price Bid	The Price Bids of the bidders qualifying the technical bid will only be opened, the date of which will be intimated to the short-listed bidders at their email addresses. The rest of the bids will be rejected
Contact	ocss5@iacs.res.in

The technical bids will be opened first to evaluate technical specifications of the equipment and there after the price bids of only the technically qualified distributor/vendors will be opened

Opening of price-bid: The Price Bids of the bidders qualifying the technical bid will only be opened, the date of which will be intimated to the short-listed bidders at their email addresses. The rest of the bids will be rejected.

Please note that IACS will not provide any accommodation or expenses to any of the bidders for attending opening of technical bid/price bid.

A). TECHNICAL BID:

Technical Bid should contain technical details and commercial terms and conditions and kept in a separate envelope duly superscribed as **Technical Bid** on the outer cover of the envelope.

Detailed Technical Specifications of “DNA/Nucleic Acid Synthesizer”:

Application:

The primary application would be for the preparation of DNA/RNA/LNA/PNA and any other modifications in oligonucleotides etc.

It is for this purpose, the following set of specifications is required.

System:

It should be a closed system, under Argon.

System should be compact, and no long tubes and consuming minimum reagents to grow long and short oligos.

User friendly economic viable set up with no long tubes and should offer low consumption of chemicals during priming.

Online trityl monitor is must and should be standard and not an option.

Basic specifications:

Complete, ready to work DNA, RNA, LNA, PNA synthesizer.

- Minimum 8 columns and minimum 12 amidite ports, at least 8 online
- Ability to use standard as well as universal CPG/polystyrene
- Independent synthesis in each column
- Variable synthesis scale up to 10 µmol
- Online trityl monitor for all columns (all trityl collected): - online trityl monitoring, collecting and measuring full trityl with direct and reliable information; not simply verifying in flow detectors.
- Free programmable synthesis control (also internal)
- New synthesis start on every position while synthesis running: start of new synthesis on every position at every time during the synthesis.
- Automated antisense oligo synthesis.
- Automated wobbles mix base capabilities without amidites premix
- Universal column fitting: Should be possible to use standard columns of all suppliers worldwide.
- Compact system, no moving parts.
- Efficient coupling preferably Cycle time: 3 ó 3.5 min for 8 column synthesis or should more efficient.
- Designed especially for long, highest purity oligos (more than 50 mer)

System design should be such that, no exhaust cabinet necessary.

Use friendly software with minimum specifications of Computer for running, data acquisition, interpretation etc.

Should be compact w.r.t dimensions.

Silent compressor

Set of reagent cap adapters for reagent and amidite bottles.

Relevant consumable to standardize initial experimentation.

Bottles, o-rings and tubes

Gas regulator with appropriate tubes and adapters

Synthesis starter kit of amidites and columns (Solid)

Installation and training to IACS faculty or staff s or students.

Essential spare parts kit.

B). Price BID:

Price Bid should indicate group-wise price as mentioned in the Technical Bid and kept in a separate envelope duly superscribed as "Price Bid" on the outer cover of the envelope.

Price: Price to be quoted both on FOB/CIF basis for foreign currency or in Indian currency.

Bid Security (EMD) : An Account Payee Demand Draft for **Rs. 80,000/-**(Rupees eighty thousand only) drawn in favour of "Indian Association for the Cultivation of Science" payable at (State Bank of India, Jadavpur University Branch, A/C No. 11079699211, IFSC: SBIN000093) is to be furnished by the bidders, as Bid Security money or Earnest Money Deposit (EMD) with the tender.

The Demand Draft for the Bid-Security money should have at least 90 days validity period after the opening of the Bids.

In case of non-award of the work the Bid Security money would be returned to the unsuccessful Bidders. Bid security money to the successful bidder will be refunded on receipt of the Performance security money.

Performance Security:

An Account Payee Demand Draft for an amount of 8% of the order value drawn in favor of "Indian Association for the Cultivation of Science" payable at Kolkata is to be furnished by the successful bidder as Performance security.

Performance security money would be released by IACS after a period of 60 days from 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.

C) GENERAL INSTRUCTIONS:

1. Incomplete & conditional tenders and tenders received after the due date will be summarily rejected without assigning any reasons thereof.
2. 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 for any amendment.
3. **Payment:** 100% against delivery and successful installation or in advance for the foreign vendors subject to submission of performance guarantee by their Indian agents.
4. **Installation/Demonstration/Application Training at site:** Free of cost by the supplier
5. **Service facility:** Supplier should mention their details of service setup and Manpower in India preferably at Kolkata who are responsible for after sales support. Response time should be within 24 hours
6. **Validity of tender:** Tender submitted shall remain valid at least for four months from the date of opening the tender. Validity beyond four months from the date of opening of the tender shall be by mutual consent.
7. The tender should accompany a compliance chart.
8. The rate should be inclusive of all taxes, transportation etc. Nothing extra will be paid in addition to the quoted rate.
9. The model number, make, and a printed literature of the product shall submit positively.
10. Proposed delivery schedule should be mentioned clearly.
11. Manufacturers/exclusive distributors/vendors should have history of supplying this type of instrument to this or other Scientific Organizations.
12. Authorized Dealership Certificate is must in case of principal manufacturing company is not quoting directly.
13. Guarantee certificate, users manuals etc. are to be handed over to the user after successful commissioning of the system.
14. 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, modify the bidding documents. The amendment(s) will be notified in the Institute website. Prospective bidders are advised to occasionally visit the website for any amendment www.iacs.res.in/tender
15. 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.
16. For any clarification regarding technical specifications, etc. please send your queries to Dr Surajit Sinha (ocss5@iacs.res.in).
17. The Institute reserves the right to reject any or all of the tenders received without assigning any reason thereof.

Registrar (Acting)