

**Global Tender Notification for the procurement of  
“Automated Agarose gel electrophoresis preparative grade for DNA sequencing and size  
selection”**

**at the Department of Developmental Biology & Genetics,  
Indian Institute of Science, Bangalore**

**Sep 12, 2023**

Dear Sir/Madam,

**Subject: Automated Agarose gel electrophoresis preparative grade for DNA sequencing and size selection for research laboratory uses**

This is a request for global tender quotations for the purchase of an **“Automated Agarose gel electrophoresis preparative grade for DNA sequencing and size selection”**. This machine will be used for resolving and eluting narrow and even DNA fragment size distributions of prepared sequencing libraries to be analysed on Illumina platform.

The equipment is exempted from is exempted from local tendering, and this machine’s GTE is listed (Item No. 100/112/188) in the GOI, MOF office memorandum dated OM No. F.4/1/2023-PPD Dated 03.04.2023.

**Terms and conditions for submission of bids**

Your quotation should clearly indicate the terms and conditions of the quotation, delivery schedule, entry taxes, customs duty, if any, payment terms, warranty coverage, etc.

- **The quotations should be submitted in two bids system, i.e., Technical and Commercial bids.**
- The technical bid must include all the details of the instrument’s technical specifications and terms and conditions masking only the price component. Bill of materials, brochures, technical datasheets, and other documents may be enclosed to help evaluate the technical bid. The Technical bid should have an item-wise compliance report of all specification indicated below. Prices quoted should include all taxes, duties, delivery of the items to the site and installation.

- The commercial bid must include the instrument's price in Indian/Foreign currency CIP/CIF - IISc Bangalore basis.
- The warranty should be for a period of 3 years from the date of installation. Annual maintenance contracts for two years after the warranty period may be quoted separately.
- If the goods are found to be defective, they must be replaced/rectified at the cost of the suppliers within 15 days from the date of receipt of written communication from us. If there is any delay in replacement/rectification, the warranty period should be correspondingly extended.
- Conditional tenders will not be accepted.
- The purchaser reserves the right to accept or reject any bid, to annul the bidding process, and to reject all bids at any time before the award of the contract without incurring any liability to the affected bidder or bidders.
- **Please submit your bid, valid for 90 days**, along with the terms and conditions.
- **The last date to submit your bids is 6<sup>th</sup> Oct 2023.**

**Technical Specifications of Automated Agarose gel electrophoresis preparative grade for DNA sequencing and size selection.**

- System should be completely bio-compatible inert, fully automated to maintain DNA or cloned libraries integrity.
- System should have the ability to automatically extract target fragment sizes between 100bp and 1.5kb
- Instrument should be able to provide narrow size selection range as required for paired-end sequencing, RNA-seq, small RNA sequencing and CHIP-seq to remove unincorporated adapters from the libraries and collect only the cloned product.
- Instrument should also be able to precisely size select DNA fragments in a narrow range from sheared DNA input.
- Instrument should also be able to collect pre-library nucleic acids below a threshold for cell free DNA analysis.
- Instrument should be able to Electro-elute fractions for above mentioned fragments sizes with more than 70% efficiency of recovery.
- Instrument should have electrophoresis voltage of 100V or 150V constant.
- Instrument should come with epifluorescence optical detector of 535 nm excitation and 640 nm emission.

- Instrument should be compatible with precast agarose gels cassettes with capacity to run at least 5 samples at a time with appropriate internal standards with an input DNA capacity of up to 5 µg.
- Instrument should come with accessories for optical calibration.
- Instrument should be provided with a compatible computer (if one is not inbuilt) including a monitor, keyboard and mouse for software-based instrument control, operations, and data analysis.
- Instrument should come with freely upgradable software which should allow for selection of the optimal median fragment size or adjust the base-pair range of selection and customization and saving of protocols for various different size selection criteria.
- Instrument should come with a start-up package of consumable (Gel cassettes, markers etc).

**Important: Please note that the “Automated Agarose gel electrophoresis preparative grade for DNA sequencing and size selection” should match all technical specifications listed above. Submitted technical bids should contain a detailed compliance certificate as per the technical specifications listed in the tender document.**

Both the Technical and Commercial bids should be put in separate sealed envelopes and put together in another cover stating “Automated Agarose gel electrophoresis preparative grade for DNA sequencing and size selection” and should reach us on or before 31<sup>st</sup> Sep 2023 to the below address.

**“The Chair, Department of Developmental Biology & Genetics, Ground Floor, Biological Science Building, Indian Institute of Science, Bangalore, 560012, Karnataka, India.”**

Any further queries can be made to [meetalingh@iisc.ac.in](mailto:meetalingh@iisc.ac.in) and a copy marked to [office.dbg@iisc.ac.in](mailto:office.dbg@iisc.ac.in).

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