

Sub. : Expression of Interest (EOI) for the Procurement of “Automated Electrophoresis Solution System for NGS Library QC with Computer and Software”

Ref. No. : CBMR/ PUR/ 1169/ 2025

Dated: 30.12.2025

This Expression of Interest (EOI) invites applications from the reputed OEMs (original equipment manufacturers) for the procurement of “Automated Electrophoresis Solution System for NGS Library QC with Computer and Software” by the Centre. Main features of the instrument as follows:

Requirement of Automated Electrophoresis Solution System for NGS Library QC

The system should be capable of assessing sample size, quantity, molarity, integrity, and QC of genomic DNA, cfDNA, total RNA, PCR products, and NGS libraries. The instrument should support high-sensitivity applications with minimal sample volume and provide reliable algorithms, such as DIN, RIN, and DV200, for comprehensive sample-quality assessment.

Features:

1. Automated DNA/RNA QC system capable of analysing up to 96 samples at constant cost per sample, supporting gDNA, cfDNA, total RNA, PCR fragments, and NGS libraries.
2. The instrument should be capable of running the following application Assays:
 - Genomic DNA Kit and High sensitivity DNA kit
 - RNA Kit and High Sensitivity RNA Kit to access the RNA integrity
 - Cell Free Kit (50 to 750 bp & Sensitivity of 20 pg/μL)
3. Fully automated workflow with no manual gel-dye mixing, walk-away operation, and ready-to-use pre-cast agarose gel devices.
4. System must use Automated electrophoresis-based system, should require minimum DNA/RNA input as starting material, support DNA quality assessment up to ~40,000 bp (DQS/DIN equivalent) and RNA integrity assessment up to ~6,000 nt (RQS/RIN equivalent) and DV200 analysis for degraded FFPE RNA assessment
5. Should include QR-code scanner, mineral-oil-free kits, and be recommended by NGS sequencer OEMs for sample QC.
6. Supplied with 5-year warranty, desktop PC (i7) + UPS, and starter kits (HS DNA and HS RNA, two units each).

General information / conditions / instruction to prospective bidders:

The scope of work includes the supply & installation of “Automated Electrophoresis Solution System for NGS Library QC with Computer and Software” system. Firms having done similar work can apply along with documentary evidence for work done in the past in government / private sector. The firm should also meet other criteria given below and is required to submit all supporting documents

relating to the credentials / technical capabilities / financial standings and track along with their EOI as follows.

- Name of the firm with their constitution/proprietorship/partnership details etc. with the date of establishment/registration. Please submit the Articles of Association with the application.
- List of similar equipment supplied successfully in the last 5 years in Government research labs, other Government organizations and to Private Agencies along with brief details of the work. Enclose relevant document / certificate to ascertain the satisfactory completion of the work / service provided.
- List of employees in the firm, who will take up the requisite job/service listed above, their area of expertise and nature of their work in last five years.
- The list of work in hand, nature of work, cost, date of start and completion with present progress and the contact details of the clients.
- Proof of Turnover certified by a Chartered Accountant.

Applications in response to this EOI should be submitted in a sealed envelope, superscribed "Expression of Interest (EOI) for Procurement of Automated Electrophoresis Solution System for NGS Library QC with Computer and Software" addressed to the Director, Centre of Biomedical Research (CBMR), SGPGIMS Campus, Raebareli Road, Lucknow- 226014 (UP) positively by 19.01.2026 by 3.00 p.m. The offer shall be opened on the same day at 3.30 p.m. There is no need to quote the price at this stage.

“A Technical Committee, constituted by the competent authority shall evaluate the applications and short list the firms for further proceedings. Short listed firms shall be invited for the technical presentation / discussion scheduled on a suitable date, which would be communicated to concerned firms”.

If any information furnished in the application is found incorrect at a later stage, the firm shall be liable to be debarred from participation/taking up work in CBMR. CBMR reserves the right to verify the particulars furnished by the applicant independently. CBMR reserves the right to reject any application without assigning any reason.

ADMINISTRATIVE OFFICER