

**All-India Institute of Medical Sciences**  
**Ansari Nagar, New Delhi-29.**  
**(RESEARCH SECTION)**

Ref. No. 03/Stores/Rep.Bio/NK/2017-18/RS

Dated: 22.05.2017

**Subject:** Purchase of On-Chip Electrophoresis System (Bioanalyzer), for the Deptt. of Reproductive Biology, AIIMS, New Delhi-29 on proprietary basis- Inviting comments thereon.

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The request has been received from Dr. Neeraj Kumar, Deptt. of Reproductive Biology, AIIMS to purchase the subject item from M/s LCGC Life Sciences LLP (mfg. by M/s Agilent Technologies India Pvt. Ltd.) on proprietary basis. The proposal submitted by M/s LCGC Life Sciences LLP and PAC certifications are attached.

The above documents are being uploaded for open information to submit objections, comments, if any, from any manufacturer regarding proprietary nature of the equipment/item within issue of 15 days giving reference **No. 02/Stores/Rep.Bio/NK/2017-18/RS**. The comments should be received by office of Stores Officer (RS), Research Section at AIIMS on or before **06/06/2017 upto 12:00 p.m.**, failing which it will be presumed that any other vendor is having no comment to offer and case will be decided on merits.

**STORES OFFICER (RS)**

**Encl:** Related documents enclosed.

1. PAC Certificate enclosed.
2. Specification of equipment.

**LC GC**

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**LCGC LIFE SCIENCES LLP**  
203 & 204, 2nd Floor, Pocket II,  
Shree Durgaji Shopping Complex,  
Mayur Vihar-I, New Delhi - 110 091.  
Phone : 011-22756195 / 011-22790140  
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Email : delhi@lpgcindia.com  
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**Quotation****Our Ref: LCGC/Quote/2017-18/3066A****Date: 11.05.2016**

To,  
Dr Neeraj Kumar, Scientist,  
Dept of Reproductive Biology,  
AIIMS

Dear Sir/Ma'am,

With reference to our discussion please find the quotation. The given price is for your information. We are sure that you will find our price competitive and we are looking forward for the placement of your valuable order.

Sl No.	Cat. No.	Item and Specification	Net unit Price	qty	Total (INR)
01	<u>G2939AA 2100 Bioanalyzer</u>	Includes original Bioanalyzer 2100 Expert software Instrument license and Chip priming station, Chip vortexer. The system is an automated analyzer based on microfluidics, capable to run on chip electrophoresis as a part of quality control for Proteins, DNA, and RNA. The system offers automated analysis of up to 12 samples in less than 30 minutes. The system software has flexibility to compare samples across multiple chips. Also with the help of Software we can get our data as normal Gel Bands, Electropherogram and dendrogram. Includes electrode cartridge, electrophoresis license, test chips. The System have RNA quality check with RIN, offering total RNA, mRNA and Small RNA's data including RIN algorithm (RNA Integrity Number). There are more than 10,000 publications to Support the Machine.	11,14,286.00	01	11,14,286.00
02	<u>i-7 laptop Computer</u>		Inclusive	01	Inclusive
03	30 min back up 2 KVA online UPS		Inclusive	01	Inclusive
04	5067-1511: RNA Nano Kit		Inclusive	01	Inclusive
Total Price					11,14,286.00
ADD:VAT/CST @ 5%					55,714.00
Total Quotation Value					11,70,000.00

Kolkata | Ahmedabad | Bangalore | Chennai | Chandigarh | Delhi | Mumbai | Surat | Indore | Pune | Goa



डॉ. नीरज कुमार  
Dr. NEERAJ KUMAR  
वैज्ञानिक -II/Scientist-II

प्रजनन विभाग/Dept. of Reproductive Biology  
अ.पा.आ.स., नई दिल्ली/A.I.I.M.S., New Delhi-110029

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<http://www.agilent.com/chem/contactus>

## Proprietary Certificate

The following features ensure the Agilent 2100 Bioanalyzer instruments (models G2939A or G2938C) sold with Part numbers G2939AA, G2940CA, G2943CA, or G2938C, are proprietary items manufactured by Agilent Technologies:

- The 2100 Bioanalyzer system uses microfluidics technology for the analysis of biological samples.
- The 2100 Bioanalyzer system enables high resolution separation and quantification of DNA, with sensitivity as low as 0.1 ng/ $\mu$ L.
- Unique RNA Integrity Number (RIN) algorithm is included for unbiased total RNA integrity assessment.
- The 2100 Bioanalyzer system uses user-replaceable electrophoresis cartridge.
- The G2938C model may be easily upgraded for flow applications with an exchangeable flow cytometry cartridge.
- Agilent offers dedicated kits for highly sensitive analysis during NGS and miRNA sample processing.
- Agilent offers system validation services (IQ & OQ) and an expandable feature for 21 CFR part 11 compliance.
- The Bioanalyzer Expert Software offers a color-coded result flagging tool, an easy-to-use rule-defined system for automated QC and data evaluation.
- The Bioanalyzer Expert Software allows quick comparison of up to 48 samples within one chip or across multiple chips.
- The Bioanalyzer Expert Software offers native XML export for seamless data integration across platforms and projects.

The Agilent 2100 Bioanalyzer system is covered by the following patents: USRE39527E1, US8346486B2, JP4664280B2, DE10315581B4, US6353475B1, US6504607B2, EP1187677B1, US6811668B1, and US7449096B2.

Agilent Technologies is the sole manufacturer of the 2100 Bioanalyzer system and this product is not manufactured by any other firm in India / Abroad.

Melissa Huang Liu, Ph.D.  
Product Manager

2100 Bioanalyzer System & Consumables



डॉ. नीरज कुमार  
Dr. NEERAJ KUMAR  
पेक्षा निगम - II / Scientist-II  
प्रजनन प्रौद्योगिकी विभाग / Dept. of Reproductive Biology  
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Agilent Technologies



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Agilent Technologies

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### **Specifications for On -chip Electrophoresis System (Bioanalyzer)**

1. The system should be an automated analyzer based on microfluidics, capable to run on chip electrophoresis as a part of quality control for Proteins, DNA, and RNA.
2. Single platform for High Throughput DNA, RNA, Protein analysis. The system must have user interchangeable electrode cartridges.
3. System must offer sensitivity down to pg/ $\mu$ L with minimum sample requirement of 1-4  $\mu$ L.
4. The system must be able to offer dedicated applications for NGS Workflow & Small RNA. The kits for same should be available through the same vendor.
5. The system must have capability to be upgraded, if required, validation services (IQ and OQ) and 21 CFR Part 11 compliance.
6. The system must include priming station along with vortexer and software for Instrument control and data analysis.
7. The system software must have flexibility to compare samples across multiple chips.
8. System shall have RNA quality check with RIN, offering total RNA, mRNA and Small RNA's data including RIN algorithm (RNA Integrity Number)
9. The data of biochemical analysis should be in digital form for convenient analysis, archiving and storage.
10. Color coded result flagging tool in the software shall be available
11. System shall come with various data-display options as gel view, electropherograms and tables
12. System should be accompanied by all its accessories like UPS, laptop and kits for standardization etc.
13. Company should provide at least five year warranty.