



All India Institute of Medical Sciences Jodhpur

Admn/Prop/13/2020-AIIMS.JDH

Dated: -15th June 2020.

Subject: Purchase of Sanger Sequencer for the Department of Biochemistry at AIIMS, Jodhpur on proprietary basis-

Inviting comments thereon.

The Institute is in the process to purchase of Sanger Sequencer for the department of Biochemistry at AIIMS, Jodhpur from M/s Invitrogen BioService India Pvt. Ltd (Thermo Fisher Scientific), 372, Udyog Vihar Bhawan, Gurgaon- 122 016 on proprietary basis. The proposal submitted by M/s Invitrogen BioService India Pvt. Ltd (Thermo Fisher Scientific), Gurgaon and PAC certification by user are attached.

The above document are being uploaded for open information to submit objection, comments, if any from any manufacturer regarding proprietary nature of the equipment within 21days of issue giving reference Admn/Prop/13/2020-AIIMS.JDH. The comments should be received by office of Administrative Officer, Medical College at AIIMS, Jodhpur on or before 06th July 2020 upto 03:00 PM failing which it will be presumed that any other vendor is having no comment to offer and case will be decided on merits.

Administrative Officer

Enclosed: Related documents enclosed.



All India Institute of Medical Sciences Jodhpur



Invitrogen BioServices India Pvt. Ltd
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T+91 124 6722800
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Dated: 03rd December 2018

TO WHOM-SO-EVER IT MAY CONCERN

Proprietary Certificate

This is to certify that the Sanger Sequencer (ABI 3500 Genetic Analyzer-DNA Sequencer) having the part number 4405673 by M/s Applied Biosystems brand, (Part of ThermoFisher scientific) and US patent number 5171534, 5332666, 5567292, 5821058 has the following proprietary/unique features combined in a single instrument system:

1. The system uses internally uncoated capillaries (an array of 8 capillaries) with patented Performance Optimized Polymer which enhance the capillary life and run time considerably. It also has a provision optionally to upgrade from 8 capillary to 24 capillary system to meet the future throughput.
2. The system is a fully automated platform with 96 well Auto sampler, which provides complete walk away automation.
3. The system detects and analyzes 6 fluorescent dyes simultaneously. The detection system composed of a spectrograph and a peltier-cooled charged coupled device (CCD) and provides multicolor detection.
4. Software generated "virtual filters" for fluorescent detection and it will readily accommodate new dyes and applications as they become available without requiring changes in the optical hardware.
5. The system is capable of running "one polymer one array" for both the sequencing and genotyping application, enabling the user to seamlessly switch between sequencing and fragment analysis runs, even in the same plate.
6. Having Radio-Frequency identification technology to tracks key consumables data.
7. The system is capable of running 6-dye chemistry for genotyping applications and uses the sixth generation Big Dye Terminator version 1.1 & 3.1 chemistry for the sequencing applications.

All the features mentioned above are incorporated in Sanger Sequencer (ABI 3500 Genetic Analyzer-DNA Sequencer). No Sanger Sequencer (DNA Sequencer) other than ABI 3500 Genetic Analyzer offers all the unique features mentioned above in single system.

Yours faithfully

For Invitrogen Bioservices India Pvt Ltd


Virender Negi
Account Manager

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Date: 03rd December 2018

The Administrative Officer
All India Institute of Medical Sciences
Basni Industrial Area, Phase-2,
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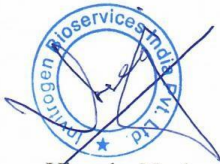
Subject: Authorization

We Invitrogen Bioservices India Pvt. Limited, who are established & reputable manufacturers of **Sanger Sequencer(DNA Sequencer)** having factories at US / Singapore / UK / Japan / Finland / Korea hereby authorize M/s Sujata Enterprises 110, Janpath Parshwanath Colony, Nirman Nagar, Jaipur-302019 to submit a bid, negotiate & conclude the contract with you against your above project of Sanger Sequencer(DNA Sequencer) manufactured by us.

No company or firm or individual other than M/s Sujata Enterprises, Jaipur are authorized to bid, negotiate & conclude the contract in regard to this specific project.

We hereby extend our full guarantee and warrantee as per the terms & conditions of AIIMS Jodhpur against this project by above firm.

For Invitrogen Bioservices India Pvt. Ltd.



Virender Negi
Account Manager

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Sanger Sequencer- Specifications- Qty-1

1. Instrument should be fully automated multi capillary, fluorescence-based genetic analysis system to process multiple samples in single run.
2. Instrument should be a bench top instrument to support various applications like: Genomic Sequencing, re-sequencing, Long Read Sequencing, and comparative sequencing, Fragment analysis applications like Microbial Finger printing, Microsatellite, Long Sizing, SNP Validation and screening, Linkage analysis etc
3. Number of capillaries: 8 Capillaries operating in parallel and must be upgradable to 24 capillaries to meet future throughput. Employ uncoated capillary arrays that use bare silica capillaries.
4. Dye detection: Cooled CCD detection technology and a spectrograph for color separation, the system must be able to detect and analyze 6 fluorescent dyes simultaneously.
5. The system to utilize a single line 505nm Solid State long life laser utilizing a standard power supply.
6. Radio-Frequency identification technology to tracks key consumables data.
7. Simultaneous dual-side illumination detection system to maximize signal uniformity and sensitivity that in turn reduces the requirements placed on the user for sample preparation and cleanup.
8. Active temperature cooling/heating that can maintain temperatures from 18°C to 70°C.
9. Sequencing throughput :-> 280 samples/day having 850bp read length with QV20,
10. System software allowing real-time data quality evaluation providing immediate access to base-called or size called data to make decision about the quality of data as it is generated.
11. Software: The vendor must supply software that are optimized for the instrument in the area of de novo, Re-sequencing, Long Read Sequencing, and comparative sequencing, Fragment analysis applications like SSR, ISSR, AFLP Microbial Finger printing, Microsatellite, Long Sizing, SNP Validation and screening, Linkage analysis etc
12. System should be open to accommodate primers from any third party.
13. System should have resolution less than one base pair.
14. The vendor supplying the instrument should have own application support laboratory in India for local & efficient after sales service-support.
15. The firm must have at least 100 installation of the genetic analyzers (all models) within India.
16. System should be equipped with latest model of fully compatible computer system.
17. The system should be provided with 2 KVA UPS with one hour backup.

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