

ALL INDIA INSTITUTE OF MEDICAL SCIENCES
ANSARI NAGAR, NEW DELHI-29.
STORES SECTION (DO)

Ref. No. 31/Stores(DO)/Pead/PAC/2019-20/FSC Dated-25/11/2019

Sub:- Purchase of "Applied Biosystems 3500XL Genetic Analyzer (24 capillary system) – 01 No." for the Department of Peditric at AIIMS, New Delhi-110029, on proprietary basis Inviting comments thereon.

The Institute is in the process to purchase "Applied Biosystems 3500XL Genetic Analyzer (24 capillary system) – 01 No. at AIIMS, New Delhi from M/s. Thermo Fisher Scientific, Singapore through M/s. Vision Diagnostic India Pvt., New Delhi. The PAC Certifications by M/s. Thermo Fisher Scientific, Singapore as well as the user department 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 15 day from the date of issue/uploading of the notification giving reference No. 31/Stores(DO)/Pead/PAC/2019-20/FSC. The comments should be received in office of Stores Officer (FSC), Store Section (DO), Animal House Building, Near Biotechnology Building at AIIMS on or before 20/12/2019 upto 12.30 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.

Yours faithfully,


SR. STORES OFFICER (DO)

Encl: Related documents enclosed.

ALL INDIA INSTITUTE OF MEDICAL SCIENCES**ANSARI NAGAR, NEW DELHI - 110029****Proprietary Article Certificate (PAC) (Machinery & Equipment)**

- (i) The indented goods are manufacture by M/s Applied Biosystems Inc. represented in India by M/s Invitrogen Bioservices India Pvt. Ltd. & the Product is being purchased through their authorized distributor M/s Vision Diagnostic (India) Pvt. Ltd.
- (ii) Item Name: Applied Biosystems 3500XL Genetic Analyzer (24 capillary system)
- (iii) Model No: ABI 3500XL
- (iv) Vital Technical Performance Parameters required which makes the requirement proprietary^{##} Specifications has been enclosed.
- (v) No other make or model is acceptable for the following reasons: Similar items with equivalent specifications are not available from other manufacturers.

It is certified that market survey has been done and found that no other manufacturer is manufacturing similar/equivalent specifications which can fulfill the vital requirements of end user.

Signature of TSEC

With Name, Designation, Department and Hospital/Institute/DGHS

Madhulika
डॉ. मधुलिका काबरा / Dr. Madhulika Kabra
 आचार्य / Professor
 अनुवांशिकी एकक (बालरोग चिकित्सा विभाग)
 Division of Genetics (Department of Pediatrics)
 अ.भा.आ.नं. नई दिल्ली / A.I.I.M.S., New Delhi-29
 DMC Regn. No. 18800



Ashok K. Deorari
डॉ. अशोक कु. देवसरी
 Dr. Ashok K. Deorari, MD, FAMS
 आचार्य एवं विभागाध्यक्ष / Professor & Head
 बालरोग चिकित्सा विभाग / Department of Pediatrics
 अ.भा.आ.नं. नई दिल्ली / A.I.I.M.S., New Delhi-110029

##Note: TSEC should clearly mention the vital functional parameters requirements which end user essentially require and are manufactured by only one manufacturer mentioned in Serial No. (i).

(89)

**DEPARTMENT OF PEDIATRICS
ALL INDIA INSTITUTE OF MEDICAL SCIENCES**

| | |
|-------------------------------|--|
| Item Name | Applied Biosystems 3500XL Genetic Analyzer (24 capillary system) |
| Quantity | 01 (One) |
| Cost (approximately) in lakhs | 160.00 lakhs |
| Warranty /Guarantee | 5 years comprehensive warranty |

Technical Specification of 24 Capillary Genetic Analyzer on Propriety basis

1. Fully automated capillary, fluorescence-based DNA Sequencer.
2. Only licensed version of the system to be quoted along with user license to perform the sequencing by Sanger procedure.
3. Number of capillaries: 24 Capillaries operating in parallel to meet throughput. Employ uncoated capillary arrays that use bare silica capillaries with a useful life.
4. Application: Should be able to perform of Re-sequencing, Long Read Sequencing, and comparative sequencing, metagenomics Fragment analysis applications like Microbial Finger printing, Microsatellite, Long Sizing, SNP Validation and screening, Linkage analysis etc.
5. Excitation source: Single line 505 nm solid state long life laser utilizing a standard power supply and without heat removal ducting.
6. Dye detection: Cooled CCD detection technology and a spectrograph for color separation. System must be able to detect and analyze 6 fluorescent dyes simultaneously for DNA fragment analysis.
7. Capillary illumination: 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. Tracking of consumable: Radio-Frequency identification technology to tracks key consumables data.
9. Heating/cooling: Active temperature cooling/heating that can maintain temperatures from 18oC 70oC.
10. Sequencing throughput :> 830 samples/day having > 500bp read length with QV20. System should support read length more than 800bp.
11. Electrophoresis Voltage: Up to 20 kV.
12. should provide suitable data analysis system along with system.
13. Software: The vendor must supply softwares that are optimized for the instrument in the area of Re-sequencing, Long Read Sequencing, and comparative sequencing, Fragment analysis applications like Microbial Finger printing, Microsatellite, Long Sizing, SNP Validation and screening etc.
14. Real time analysis: System software should allow 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.
15. System should be upgradable to 96 capillaries and accommodate new dyes, latest versions of Big Dye Terminator based kits and applications
16. Simultaneous and continuous excitation and detection of all the capillaries for uniform signal intensity and high Signal to Noise ratio.
17. Consumables: Applications-specific kits and sequencing reagents required to perform sequencing by sanger should be manufactured and available from the same supplier.
Should be open system to accommodate primers from third party as well.
18. Free of cost system training performed by a vendor service engineer.
19. The Vendor should have a good service and application support back up along with instruments to provide an effective application related troubleshooting and support .The vendor should provide Application Training on the instrument, chemistry options and software used in the

Rage

Dr. Ramash Arora
MD, DM (Neonatology)
Professor
Department of Pediatrics
All India Institute of Medical Sciences
New Delhi-110 029

Dr. Neeraj Gupta
MD, DM (Neonatology)
Professor
Department of Pediatrics
All India Institute of Medical Sciences
New Delhi-110 029

Dr. Raksha Seth
MD, DM (Neonatology)
Professor
Department of Pediatrics
All India Institute of Medical Sciences
New Delhi-110 029



Dr. Madhulika Kalia
Professor & Officer In-Charge
Division of Genetics
Department of Pediatrics
A.I.I.M.S., New Del. 110029
DMC Regn. No. 1680

AUD

Shrinder
Officer

regional lab.

20. Vendor should have at least 100 installations (includes all the available models) in India.
21. System should be quoted with a compatible data analysis system, printer and 5kVA online UPS with atleast 60 min back up.
22. Electrical requirement: 220 volt, 50 Hz.

GENERAL CLAUSES

1. Only Principal Companies or Authorized Distributors from Principal companies should quote. Quotations from non - authorized distributors will not be entertained. Features in the quotations should be substantiated with proper Principal Company Catalogue.
2. Should operate under a Quality Management System which complies with the requirements of ISO 9001:2008 for design, manufacture and services.
3. Should be CE (Europe)/UL /EMC/CSA certified.
4. Copies of all certifications e.g. Quality Standard certificate, technology, Principal company/Authorised Distributorship should be attached with the quotations.
5. In-House Service Engineers from principal company/ or Authorised agents should be available in India on one-day notice basis in case of emergency (this will apply for those equipment wherein this clause is not built into the specification).
6. Compliant points should be given (in the sheet) in order of the specifications' serial order. Compliant points should be highlighted in the company catalogue with page number.
7. Must include: User's list with telephone numbers and email address.
8. Vendor should submit an undertaking from manufacture the responsibility of maintenance in case of merger or acquisition.
9. Rate list of spares should be provided.
10. A performance certificate from at least 2 users should be provided.

CMC

- The 5 years warranty should be all inclusive.
- 5 years CMC (6th-10th years) after completion of the 5 years warranty period with spares and labor. The price of CMC will be added to cost of the equipment for calculating L1.
- Penalty clause: Direct presence in India with strong after-sales technical and service support and must ensure that all faults are rectified within one week, failing which would lead to extension of warranty by twice the period of downtime. The warranty should be all inclusive.

VENDOR LIABILITY

- Provide technical and application support for 3 years, to handle the equipment at company's expenses following satisfactory installation. This is to be in consultation with CCRF, AIIMS.
- The warranty should be all inclusive.

UNDERTAKING

Dr. *[Signature]*
MD (Medical Microbiology)
Professor
Department of Microbiology
All India Institute of Medical Sciences
New Delhi-110029

The instrument is a Proprietary Item

"Certified that the space and manpower are available for installation the equipment immediately after receiving the equipment in the Institute".

The following are the members of Technical Specification & evaluation Committee:

Dr. Madhulika Kabra
Professor & Officer-In-Charge
Division of Genetics
Department of Pediatrics
A.I.I.M.S., New Delhi-110029
DMC Regn. No. 16800

Dr. Madhumita Roy Chowdhury
Senior Lecturer
Division of Genetics,
Department of Pediatrics

Dr. Neeraj Gupta
Assistant Professor
Division of Genetics (Deptt. of Pediatrics)
A.I.I.M.S., New Delhi-110029
DMC Regn. No. 43435



Dr. Rachna Seth
Assistant Professor
Department of Pediatrics
अखिल भारतीय आयुर्विज्ञान संस्थान, नई दिल्ली-110029
All India Institute of Medical Sciences, New Delhi-29

SECTION - XIII
MANUFACTURER'S AUTHORISATION FORM

The 'Director'
All India Institute of Medical Sciences
Ansari Nagar, New Delhi-110029, India.



Dear Sir,
Ref: Vision Diagnostic India Pvt. Ltd Quote No VDIPL/2018-19/AIIMS/1983-PI. Dated: 19-12-2018

We, Invitrogen Bioservices India Pvt. Ltd. is an affiliate of Life Technologies Inc., the original manufacturers of Applied Biosystems 3500XL Genetic Analyzer (24 capillary system) having factories at Blk 33, Marsiling Industrial Estate Road 3# 07-06 Singapore. Invitrogen Bioservices India Pvt. Ltd. hereby authorize Messrs Vision Diagnostic India Pvt. Ltd. FFSR 9A & 9B, Premium Corporate Suite, Ansal Plaza, Vaishali Sec-1, Ghaziabad-201010, UP, India to submit a bid, process the same further and enter into a contract with you against your requirement as contained in the above referred TE documents for the above goods manufactured by us.

Dr. Ramesh Agarwal
MD, DM (Neonatology)
Professor
Department of Pediatrics
All India Institute of Medical Sciences
New Delhi-110 029

We also state that we are not participating directly in this bid for the following reason(s): Advance Payment

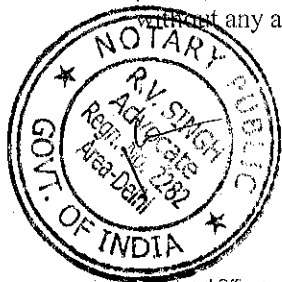
We further confirm that no supplier or firm or individual other than Messrs. Vision Diagnostic India Pvt. Ltd. is authorized to submit a bid, process the same further and enter into a contract with you against your requirement as contained in the above referred TE documents for the above goods manufactured by us.

We also hereby extend our full warranty, CAMC as applicable as per clause 15 of the General Conditions of Contract, read with modification, if any, in the Special Conditions of Contract for the goods and services offered for supply by the above firm against this TE document.

We also hereby confirm that we would be responsible for the satisfactory execution of contract placed on the authorized agent and the spares for the equipment shall be available for at least 10 years from the date of supply of equipment.

We also confirm that the price quoted by our agent shall not exceed the price which we would have quoted directly"

We also confirm that in case we change appointed Indian agent during Comprehensive warranty/CAMC period, all accepted liabilities will be fulfilled/accepted by me (OEM) or our new appointed Indian agent without any additional cost and conditions.



for and on behalf of Messrs Invitrogen Bioservices India Pvt. Ltd.



डॉ. नीरजा गुप्ता / Dr. Neerja Gupta
सहायक आचार्य / Assistant Professor
आनुवांशिकी एकक (बालरोग चिकित्सा विभाग)

Registered Office:
Invitrogen BioServices India Pvt. Ltd.
2nd Floor, First Technology Plaza, Whitefield, Bangalore 560 068.
T+91 80 41785401, 41785400, F+91 80 41785431, 41785430, M.S., New Delhi-29
www.thermofisher.com CIN: U73100KA2004PTC035330

डॉ. मधुलिका काबरा / Dr. Madhulika Kabra
आचार्य / Professor
आनुवांशिकी एकक (बालरोग चिकित्सा विभाग)
Division of Genetics (Deptt. of Pediatrics)
आ. 29 अ. 29, नई दिल्ली / A.I.I.M.S., New Delhi-29
Regn. No. 10000

Yours faithfully, Madhulika Roy Chowdhury
Senior Scientist
Division of Genetics,
Department of Pediatrics,
All India Institute of Medical Sciences
New Delhi - 110029

ATTESTED

Notary Public Delhi - 1 MAY 2019

TO WHOM-SO-EVER IT MAY CONCERN**Proprietary Certificate**

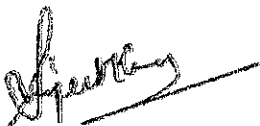
This is certified that the **ABI PRISM 3500xL** Genetic Analyzer/DNA Sequencer having the part number 4405633 by M/s Applied Biosystems brand, (Part of ThermoFisher scientific) and US patent number 5171534, 5332666, 5567292, 5821058 has the following proprietary/unique features combined in a single instrument system:

1. The system uses internally uncoated capillaries (an array of 24 capillaries) with patented Performance Optimized Polymer which enhance the capillary life and run time considerably.
2. The system is a fully automated platform with 96 and 384 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 ABI Prism 3500xL Genetic Analyzer. No DNA Sequencer other than ABI 3500xL offers all the unique features mentioned above in single system.


Yours faithfully

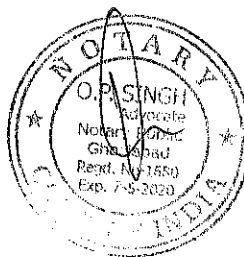
For Invitrogen Bioservices India Pvt Ltd




Authorized Signatory




Dr. Ramesh Agarwal
MD, DM (Neonatology)
Professor
Department of Pediatrics
All India Institute of Medical Sciences
New Delhi-110 029




TRUE COPY ATTESTED


O.P. SINGH
Advocate
Regd. No-1680
Notary Public
Ghaziabad




Dr. Madhulika Kabra
Professor & Officer In-Charge
Division of Genetics
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डॉ. शुकला / Dr. Shukla

आर्य समाज, नई दिल्ली / A.I.I.M.S., New Delhi-29
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डॉ. रश्मि सेठ / Dr. Rashmi Sethi
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