

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

Ref. No. 136/CNC/Neurobiochem/PAC/2023-24/ST.

Dated: 20.03.2024

Sub:- Purchase of "Automated capillary DNA Sequencer (08 capillary) on buy-back and Proprietary basis-01No." for Neuro-biochemistry (Lab) under department of Neurology, CNC, AIIMS, New Delhi-29 on proprietary basis-Inviting comments thereof.

The CNC (AIIMS) is in the process to purchase of **Automated capillary DNA Sequencer (08 capillary) on buy-back and Proprietary basis-01No." for Neuro-biochemistry (Lab) under department of Neurology, CNC, AIIMS, New Delhi-29 on proprietary basis** from M/s. Invitrogen Bioservices India Pvt. Ltd. which is an affiliate of Thermo Fisher, USA) through their Indian supplier M/s. Vision Diagnostic (India) Pvt. Ltd, New Delhi. The proposal submitted by M/s. Vision Diagnostic (India) Pvt. Ltd, New Delhi and PAC Certifications are attached.

The above documents are being uploaded for open information to submit Suggestion/objections/comments, if any, by any manufacturer/Supplier firm regarding proprietary nature of the equipment/item, within 15 days of issue of this document on AIIMS website by giving reference No. **136/CNC/Neurobiochem/PAC/2023-24/ST**. The comments/objections should be submitted in the office of Stores Officer (CNC), Room No. 3, 1st Floor, New Pvt. Ward, CNC at AIIMS, New Delhi-29 on or before **06.04.2024 upto 12.00 noon.**, failing which it will be presumed that any other vendor is having no comment to offer and purchase process will be initiated further for purchase of item as per procedure. No suggestions/objections will be considered after 16.04.2024.

Encl: Related documents enclosed.

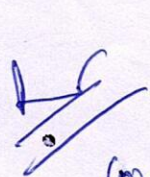
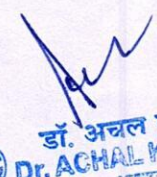

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20/3/24
STORES OFFICER
(CNC, AIIMS, N.DELHI-29)

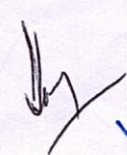


भंडार अधिकारी
Stores Officer
इद तंत्रिका केन्द्र, अ.भा.आ.सं., नई दिल्ली
C.N. Centre, All India Institute
of Medical Sciences, New Delhi

(150)


Specification of AUTOMATED CAPILLARY DNA SEQUENCER (8 capillary)

- Instrument should be fully automated multi capillary, fluorescence-based genetic analysis system to process multiple sequencing and fragment analysis samples in single set up.
- System should have 8 Capillaries operating in parallel and system should have feature to be upgraded with 24 number of capillaries when needed.
- Instrument should be a bench top instrument to support various applications like Genomic Sequencing, de novo/re-sequencing, Gene Expression, Targeted Sequencing (Variant Validation) and Microbial Identification.
- System should have easy-to-use features like autocalibration, one-button instrument start-up and even an onboard learning center thereby requiring less training and decreasing operator error.
- System should be capable of supporting different types of formats for samples: 4 plates; 96well plates; 8-strip tube(compatible).
- System should have advanced connectivity like Web enabled for simple data transfer and collaboration, remote monitoring, remote troubleshooting for faster resolution
- System should have Cooled CCD detection technology and a spectrograph for color separation.
- System should be able to Connect Platform with cloud-enabled capability; USB port for Wi-Fi dongle; ethernet ports. System should have advanced features like Voice command capability to perform basic instrument operations for easy management
- The system must be able to detect and analyze 6 fluorescent dyes and should be enabled to read 8 fluorescent dyes simultaneously if required.
- Traceability and data security with an optional security, audit, and e-signature (SAE) software module
- System should facilitate continuous plate loading for 4 plates and sample reprioritization feature with walkaway operations for 4- 96 well plates OR equivalent strip tubes.
- System should utilize a single line 505nm Solid-State long-life laser utilizing a standard power supply.
- System should be enabled with Radio-Frequency identification technology to tracks key consumables data without the need of any external barcode reader.
- System should be provided with one polymer and one array feature for sequencing and fragment analysis to enable both the applications on the same plate with walk away automation
- System should be enabled with one button start up, autospectral calibration and onboard learning center.
- System or software with the system should have the capabilities to generate “virtual filters” for fluorescent detection to readily accommodate new dyes and applications as they become available without requiring changes in the optical hardware.
- Software for secondary data analysis should come from original equipment manufacturer.
- System software 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.




डॉ. अचल कुमार श्रीवास्तव
Dr. ACHAL KR. SRIVASTAVA
आचार्य/Professor
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तंत्रिका विज्ञान/Neurosciences Centre
ए.भा.आ.सं., नई दिल्ली/A.I.I.M.S., New Delhi-110029




डॉ. संध्या / Dr. Sandhy
अतिरिक्त निदेशक/Additional D
रा. ग. वि. केंद्र / Centre
एच. एच. एच. / H. H. H.
भारत सरकार / Go
राज्य मार्ग, दिल्ली-54 / 22

- Sequencing Analysis Software of the system should enable us to base call, trim, display, edit and print electropherograms generated by Genetic Analyzer.
- 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.
- Sequencer Software should provide reference-based analysis of sequencing reactions for mutation detection and analysis, SNP discovery and validation, sequence confirmation.
- Gene mapping software should be a flexible genotyping software that enables DNA sizing and quality allele calls. This software should specialize in fragment analysis and sequencing applications like multi-application functionality including Amplified Fragment Length Polymorphism (AFLP), Loss of Heterozygosity (LOH), microsatellite, SNP genotyping analysis.
- Variant Reporter Software should be reference based and non-reference-based analysis of sequencing reactions for mutation detection and analysis, SNP discovery and validation, and sequence confirmation.
- System should be equipped with latest model of fully compatible computer system.
- The vendor supplying the instrument should have own application support laboratory in India for addressing local training requirements & efficient after sales service-support.
- Equipment to be supplied with all required reagents for standardization of all the applications to be performed in the equipment.
- To be quoted with 500 gene scan reagent and 1000 sequencing reagents.


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 आचार्य / Professor
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 तंत्रिका विज्ञान / Neurosciences Centre
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डॉ० संध्या काबरो / Dr. Sandhya Kabra
 अतिरिक्त निदेशक एवं एन.ओ.डी. / Additional Director & HOD
 रा.रो.नि.केन्द्र / National Centre for Disease Control
 स्वा. एवं परि. क. मंत्रा. / Ministry of H & F.W.
 भारत सरकार / Govt. of India.
 22, शान नाथ मार्ग, दिल्ली-54 / 22, Shan Nath Marg, Delhi-54

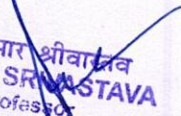
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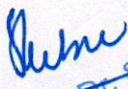
**Proprietary Article Certificate (PAC)
(Machinery & Equipment)**


- The indented goods are manufactured by M/s: Thermo Fischer Scientific, ABI applied biosystem (Invitrogen bio services)
- Item Name: Automated DNA sequencer- 8 Capillary
- Model No: SEQSTUDIO 8 FLEX, DESKTOP
- Vital Technical Performance Parameters required which makes the requirement proprietary:
 - 1) System uses internally uncoated an array of 8 Capillaries (upgradable to 24 capillary) with patented performance optimized polymer enhancing capillary life.
 - 2) The system uses solid laser to excite all the 6 dyes. Detection system composed of a spectrograph and a peltier –cooled charged couple device (CCD) provides multicolor detection.
 - 3) System generated “virtual filters” for fluorescent detection to readily accommodate new dyes and applications as they become available without requiring changes in the optical hardware.
 - 4) System is capable of running with one polymer and one array feature for sequencing and fragment analysis to enable both the applications on the same plate with walk away automation.
 - 5) System uses Radio-Frequency identification technology to tracks key consumables data and records administrative information.
 - 6) The system is capable of running 6-dye chemistry for genotyping applications and uses 6th gen BDT 1.1 and 3.1 versions for sequencing application.
- No other make or model is acceptable for the following : the equipment is under patented technology (patented certificate attached)


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

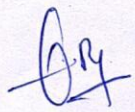

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Dr. ACHAL KR. SRIVASTAVA
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 तंत्रिका विज्ञान iNeurosciences Centre
 अ.भा.आ.सं., नई दिल्ली/A.I.I.M.S., New Delhi-110029


 डॉ. संध्या काबरा
 अतिरिक्त निदेशक एवं एन.ओ.डी. / Additional Director & HOD
 रा.रो.जि.केन्द्र / National Centre for Disease Control
 स्वा. एवम् पारि. विभाग / Ministry of Health & Family Welfare
 नई दिल्ली-110054


DR. K. S. ANAND
 Principal Consultant & Professor
 Deptt. of Neurology
 Atal Bihari Vajpayee Institute of Medical Science
 Dr. Ram Manohar Lohia Hospital, New Delhi-110001


 डॉ. रishi गुप्ता / Dr. RISHI GUPTA
 प्रयोगशाळा अध्येक्षक / Professor & Officer-in-Charge
 प्रयोगशाळा अनुसंधान / Laboratory Oncology
 डॉ. भी.रा.अ.सं.रो.केसर अस्पताल/Dr. B.R.A., IRCH
 अ.भा.आ.सं., नई दिल्ली/A.I.I.M.S., New Delhi-110029





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Invitrogen Bioservices India Pvt.Ltd
372, Udyog Vihar Phase- II,
Gurgaon – 122 016. Haryana, India
T +91 124 6722800. F +91 124 6722850, 851
www.thermofisher.com
CIN: U73100KA2004PTC035330

Dated: 10/11/20

TO WHOM-SO-EVER IT MAY CONCERN

This is to certify that the brand Applied Biosystems 3500 Genetic Analyzer having the Part Number 4405673 manufactured by M/s. Life Technologies Holding Pte. Ltd. is the proprietary item and has following unique features:

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.
2. The system uses solid laser to excite all the 6 dyes. Detection system composed of a spectrograph and a peltier –cooled charged coupled device (CCD) provides multicolor detection.
3. 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.
4. 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.
5. The system also provides the flexibility to use different polymers for variety of applications.
6. 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.
7. The system uses Radio-Frequency identification technology to track key consumables data and records administrative information.

No DNA Sequencer other than ABI 3500 Genetic Analyzer offers all the unique features mentioned above, together, in one single instrument system.

Dr. Sanchhya Kabra
 डॉ. संध्या कबरा / Dr. Sanchhya Kabra
 Additional Director & HOD
 आणविक विज्ञान केंद्र / National Centre for Disease Control
 रसा. एवं पार. क. श्रेणी / Ministry of H & F.W.
 22, शांति नगर, दिल्ली-54

Dr. Achal Kr. Srivastava
 डॉ. अचल कुमार श्रीवास्तव
Dr. ACHAL KR. SRIVASTAVA
 आचार्य/Professor
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 अ.मा.आ.सं., नई दिल्ली/A.I.I.M.S., New Delhi-110029



For Invitrogen Bioservices Pvt Ltd

[Signature]



TRUE COPY ATTESTED

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

[Signature]

[Signatures]

[Signature]

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MANUFACTURER'S AUTHORISATION FORM

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

Dear Sir,

Ref: Email dated 06th December & Our Buy Back Quote# Vdipl/2022/CNC-Aiims/142 dated 02/08/2022

We, Life Technologies Holdings Pte Ltd are proven and reputable manufacturers of Applied Biosystems SeqStudio Flex(Goods) having factories at 33 Marsiling Industrial Estate Road 3 #07-06, Singapore 739256. Messrs Invitrogen Bioservices India Pvt. Ltd. having registered office at 2nd Floor, First Technology Place, 3 EPIP Whitefield, Bangalore 560 066 ("**Invitrogen**") is an affiliate of Thermo Fisher. Invitrogen has authorized Messrs Vision Diagnostic (India) Pvt. Ltd, Plot no.405, Ground Floor, Patparganj Industrial Area, Delhi-110092 India to submit a bid, process the same further and enter into a contract with you against your requirement Applied Biosystems SeqStudio Flex goods manufactured by us.

We also state that we are not participating directly submitting this quote for the following reason(s): M/s. Vision Diagnostic (India) Pvt. Ltd is Invitrogen's authorized channel partner for All India Institute of Medical Sciences Ansari Nagar, New Delhi.

We further confirm that no supplier or firm or individual other than Messrs Vision Diagnostic (India) Pvt. Ltd, Plot no.405, Ground Floor, Patparganj Industrial Area, Delhi-110092, India is authorized dealer for Invitrogen 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 for the SeqStudio Flex(Goods)for supply by the above firm against this authorization.

We also hereby confirm that we would be responsible for the satisfactory execution of purchase Orders placed by the authorized agent and the spares for the equipment shall be available for at least 10 years or 5 years from the date of discontinuation of supplied equipment(whichever is earlier).

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

The products mentioned above are 100% imported in India we are a non-local supplier of the same.

The said distributor shall comply with all the applicable laws



Akihiro Chiba
Senior Director, APJ Commercial
Genetic Sciences Group
23 December 2022
[Signature with date, name and designation]
for and on behalf of Life Technologies Holdings Pte Ltd
33 Marsiling Ind Estate Road 3 #07-06
Singapore 739256

11 September 2023

Ref: VDIPL/2022/CNC-AIIMS/142

To,
The Chief
Neuro Science Centre
All India Institute of Medical Science,
Ansari Nagar, New Delhi 110029

Subject: Proforma Invoice for 8 Capillary Automated DNA Sequencer system.

Dear Sir/ Madam,

This has reference to your requirement of Automated Sanger Sequencing, we submit our offer for Thermo Scientific Model Seqstudio 8 Flex with their accessories for your kind consideration.

S. No.	Products Descriptions	Qty	Unit Price	Total Price
1	<p>Seqstudio 8 Flex Desktop – 8 capillary – Sanger sequencer,</p> <p>Part No: A53628 Make: Thermo Fisher Scientific</p> <p>Introducing you to the world of Enhanced Flexibility: SeqStudio Flex Genetic Analyzer (Available in 8/24 capillary throughput options)</p> <ul style="list-style-type: none"> Scheduling flexibility Four-plate capacity, continuous plate loading, and urgent sample reprioritization provide both the largest mid-throughput capacity and complete scheduling flexibility, translating into extra time in your day. Ease of use Easier capillary array installation, streamlined one-button start up, autocalibration, and an onboard learning center offer users of any skill level greater usability. 	1	2,30,00,000.00	2,30,00,000.00



Molecular Diagnostics Simplified

Vision Diagnostic (India) Pvt. Ltd.

Corporate Office

FFSR 9A & 9B , First Floor
Ansal Premium Corporate Suits,
Ansal Plaza, Sector-1
Vaishali, Ghaziabad-201010(U.P.)

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to 4343021 (22 Lines)
info@vision-groups.com
www.vision-groups.com

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Patparganj, Delhi-110092
Phone : 011- 40509878, 41625493
GSTIN : 07AABCV9939R129

Lucknow Office

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Lucknow- 226012 U.P.
Ph : 0522-4016799
GSTIN : 09AABCV9939R125
info-iko@vision-groups.com

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Mount, Chennai-600016, Tamil Nadu
Tel. : + 91 7428793111, 044 22112475
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अ.भा.आ.सं., नई दिल्ली/A.I.I.M.S., New Delhi-110029

VISION DIAGNOSTIC (I) PVT. LTD.
Deli-110092
P.I.E. 405,
Patpar Ganj,
Industrial
Area East,
Delhi-110092

S. No.	Products Descriptions	Qty	Unit Price	Total Price
	<p>and streamlined training whether they work in a single- or multi- user environment. No instrument expert is required.</p> <ul style="list-style-type: none"> Standalone instrument an integrated touchscreen computer with intuitive software and walk-through wizards for simplified sample mapping, plate linking, and run setup. Remote setup, monitoring, and data transfer Our Thermo Fisher Connect Platform provides enhanced flexibility and simplified collaboration by allowing users to stay connected to their instrument and data, remotely and safely, from anywhere. Thermo Fisher Connect Platform Work when and where you want. Set up experiments, monitor progress, and analyze data from your mobile phone, tablet, laptop, or remote desktop using our Thermo Fisher Connect cloud-based platform. Comprehensive software Extract greater insight from your data using the Applied Biosystems comprehensive suite of primary and secondary analysis software with applications that include minor variant finding, microbial identification, gene editing, and next-generation sequencing confirmation. Application diversity Any application, any time. Perform Sanger sequencing and fragment analysis runs on a single plate using POP-7 Polymer. <p>SeqStudio Flex genetic analyzers deliver high-level Sanger sequencing and fragment analysis performance using capillary electrophoresis to support a diverse range of applications.</p> <ul style="list-style-type: none"> Targeted sequencing NGS confirmation Cell line authentication Minor variant finding Gene editing confirmation Multiplexed PCR 			

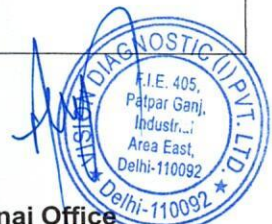


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Dr. ACHAL KR. SRIVASTAVA

अचार्य/Professor

तंत्रिका विज्ञान विभाग/Department of Neurology
तंत्रिका विज्ञान/Neurosciences Centre
अ.भा.आ.सं., नई दिल्ली/WALLING, New Delhi-110002

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Vision Diagnostic (India) Pvt. Ltd.

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Mount, Chennai-600016, Tamil Nadu
Tel. : + 91 7428793111, 044 22112475
info-chennai@vision-groups.com

S. No.	Products Descriptions	Qty	Unit Price	Total Price
	<ul style="list-style-type: none"> ▪ Microbe or virus identification ▪ DNA methylation analysis ▪ SNP genotyping ▪ Microsatellite instability (MSI) analysis ▪ dsDNA quality control ▪ Plasmid sequencing 			
2	SEQSTUDIO 8FL SEQ FRAG INSTALL Part Number: A53802	1	Included	Included
3	SMARTSTART, SEQSTUDFLEX, 1D, CS Part Number: TRN00192	1	Included	Included
4	SW, SEQUENCING ANALYSIS V8 USB Part Number: A38938	1	Included	Included
5	SW, VARIANT REPORTER V3.1 USB Part Number: A53552	1	Included	Included
6	SW, SEQSCAPE V4.1 USB Part Number: A53548	1	Included	Included
7	SW, GENEMAPPER FULL 6.1 Part Number: A53547	1	Included	Included
8	Next Generation Confirmation (NGC) Part Number: Cloud Based Software	1	Included	Included
9	Sanger Sequencing Kit Part Number: A38073	1	Included	Included
10	IQ/OQ/IPV SEQSTU8FLEX SEQ/FRAG Part No: A53769 IQ/OQ/IPV will be done at the time of installation and PQ will be perform every year up to 5 years. All the Consumables required for IQ/OQ/IPV/PQ are included.	1	Included	Included
Sub Total				2,30,00,000.00
Special Institutional Discount				35,00,000.00
Price After Discount				1,95,00,000.00
Buy Back Cost				7,00,000.00
Price After Buy Back				1,88,00,000.00
GST @18%				33,84,000.00
FOR Destination Price inclusive of GST				2,21,84,000.00

Amount in word: Rs. Two Crores twenty one lakhs eighty four thousand only.

TERMS AND CONDITIONS

- Validity of Bids:** Our bids are valid till 31st March 2024.
- CMC Charges:** 7% of above quoted total value for 6th year and 5% escalation every year from 7th to 10th year. GST will be charged extra as applicable.
- Delivery period:** Delivery of the ordered items shall be made within 12-16 weeks from the date of confirmed purchase order.



Dr. ACHAL KR. SRIVASTAVA
 आचार्य/Professor
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 सत्रिका विज्ञान/Neuroscience Centre
 अ.भा.आ.सं., नई दिल्ली/All.I.I.O., New Delhi-110022



Vision Diagnostic (India) Pvt. Ltd.

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Colony First Street, ST. Thomas
Mount, Chennai-600016, Tamil Nadu
Tel. : + 91 7428793111, 044 22112475
info-chennai@vision-groups.com


4. **Installation:** The supplied equipment's shall be installed totally free of cost by our factory trained service engineers. Any locally supplied items not manufactured by us, shall be installed by authorized service engineers of those original manufacturers / distributors.
5. **Warranty:** We offer a Warranty of 60 months from the date of installation or 63 months from the date of delivery.
6. **Training:** Multiple trainings and workshops for instrument operation and applications will be done at site.
7. **Service Support:** We have a team of service engineers who are trained at our factory. The service team shall provide prompt and quality service during and after the warranty of the equipment. We assure that the response time will be 24 hour and in case of minor breakdown the system will be fixed in 48 hours, in case of major breakdown the system will be fixed in 3 days and the maximum break down time will be 5 days or as per tender.
8. **Spares and consumables:** We maintain an inventory of most of all commonly required parts and also most consumables required for smooth operation of the supplied equipment's. This inventory is at our warehouse near Mumbai and shall be available at short notice as and when required.
9. We also undertake to the effect that the offered equipment is of current generation and only the equipment/ instruments of recent manufacture will be supplied and not a pre-owned one.
10. We also undertake to the effect that the Tenderer/OEM have not been banned or suspended from Government transactions due to any reason including corrupt and fraudulent practices.
11. Regarding correctness of the bid; the best of our knowledge and belief we hereby confirm that bid submitted by us is true and correct.
12. **Purchaser's responsibility:** Site preparation/supplies such as carrier gas, electrical and air conditioning are the purchaser's responsibility. These preparation requirements must be met for warranty to remain valid. (Pre-installation manual / Specifications are available upon request).
13. **Site Preparation:** Provisions of site utilities are the responsibility of the customer. System operates on 220/230V 50Hz.
14. Plastic, Rubber and movable parts does not cover under warranty/CMC. It is part of consumables.
15. Theft, burn, physical damage does not cover under warranty/CMC Period.
16. **Prices:** All prices quoted are in INR & on FOR basis.

If you need any further information or clarification, please feel free to contact us.

for and on the behalf of, Vision Diagnostic India Pvt. Ltd.


Authorized Signatory




Dr. ACHAL KR. GRIMALDI
आचार्य/Professor
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Vision Diagnostic (India) Pvt. Ltd.

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Dated: 10 February 2023

PROPRIETARY CERTIFICATE

This letter is to certify that Applied Biosystems™, a part of Thermo Fisher Scientific, is the sole manufacturer and sole provider of the Applied Biosystems™ SeqStudio™ Flex 8-cap Genetic Analyzer (Part No. A53627, A53628, A53629), and SeqStudio™ Flex 8-cap Genetic Analyzer having 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, 50 cm and 36 cm in length) with Performance Optimized Polymers, which enhance the capillary life and run time considerably. The capillary arrays have a unique built-in frame and retractable slider for easy installation.
2. The system has an optional provision to upgrade from 8 capillary to 24 capillary system to meet future throughput needs.
3. The system has 4-plate capacity, which can accommodate 96-well Standard and Fast plates or 8-tube Standard or Fast strips, and provides complete walk away automation.
4. The system is capable of continuous plate loading and sample reprioritization.
5. The system is built with a single-line 505 nm, solid-state long-life laser that utilizes a standard power supply and requires no heat removal ducting.
6. The detection system is composed of a spectrograph and a peltier-cooled charged coupled device (CCD) and provides multicolor detection. The system detects and analyzes 6 fluorescent dyes simultaneously.
7. The system is capable of running 6-dye chemistry for fragment analysis applications and uses the sixth-generation BigDye Terminator version 1.1 & 3.1 chemistries and BigDye Terminator Direct chemistry for sequencing applications.
8. Software generated "virtual filters" for fluorescent detection readily accommodate new dyes and applications as they become available without requiring changes in the optical hardware.
9. After initial manual spectral calibration, the system has an autospectral calibration algorithm that updates the dye matrix with every injection, as needed, allowing optimized deconvolution of the dye spectra (some exceptions may apply).
10. The system has an offscale peak recovery algorithm to recover data from saturated pixels for fragment analysis runs (some exceptions may apply).
11. The system is capable of running "one polymer one array" for both sequencing and fragment analysis applications, enabling the user to seamlessly switch between both applications, even in the same plate.
12. The on-board computer and integrated touchscreen enable stand-alone instrument control, data collection, quality control monitoring and auto-analysis of data.
13. The pre-packaged on-instrument consumables and capillary arrays are each designed with an RFID (Radio Frequency Identification) tag integrated into the label to track key consumables data.



TRUE COPY ATTESTED

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