

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


Ref. No. 11/SO(DO)/Haemat/PAC/23-24/M&E

Sub: Proposal for procurement of Next Generation Sequencer – 01 no. on PAC basis for Department of Haematology, at AIIMS, & uploading of the proposal on AIIMS Website thereof.

Store Section (DO) is in the receipt of proposal for procurement of Pneumatic and Ultrasonic Combined Lithoclast System from M/s Premas Life Sciences Pvt. Ltd., (M/s Illumina Singapore Pte. Ltd. (OEM)), from Deptt. of Haematology on proprietary article certificate:

1. Technical Specification duly signed by TSEC
2. PAC cum compatibility Certificate
3. Departmental PAC Certificate
4. Performa Invoice from principle/authorized distributor M/s Premas Life Sciences Pvt. Ltd.
5. Manufacturer's Authorization Certificate in favour of M/s Premas Life Sciences Pvt. Ltd
7. In compliance with Make in India directives user deptt certified that the said item is GTE exempted (Sr. No. 299, of OM No. F.4/1/2023-PPD (pt.)

Now, in view of the above, the said proposal is uploaded on AIIMS website for period of 15 days with the view to invite objections w.r.t. proprietary nature of the product from the OEC's or their authorized distributors. The comments/objections if any should be received in office of Store Officer (FSC), Store Section (DO), Animal House Building, Near Biotechnology Building at AIIMS on or before 28/03/2023 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.


STORES OFFICER (DO)
मनोहर आर्य / MANOHAR ARYA
थण्डार अधिकारी (नि.व्य.)/Stores Officer (D.O.)
अखिल भारतीय आयुर्विज्ञान संस्थान
All India Institute of Medical Sciences
अंसारी नगर, नई दिल्ली/Ansari Nagar, New Delhi-29

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Quantity 01

Specifications for benchtop high throughput next generation sequencing system

1. The system should occupy a minimal lab footprint and should be offered as a complete system with automated template DNA amplification, sequencing, and data analysis (base calling, alignment, variant calling, and reporting) onboard on machine.
2. The system should be capable of sequencing a human exome and genome in a single run at 30X coverage.
3. System should be the most successful and widely adopted sequencing chemistry worldwide. System should use nucleotides with reversible terminators and should mimic natural biological chemistry with simultaneous addition of all four bases in the sequencing reaction for competitive addition to the DNA template.
4. System should offer flexibility and scalability with output ranging from 30Gb–180Gb (100 - 400 million reads) in a single run to support a broad range of applications and variable sample numbers per run, including various oncology/cancer samples, HLA typing, transcriptome sequencing, myeloid panel, metagenomic sequencing, 16s metagenomics whole exome sequencing, de-novo sequencing and re-sequencing of microbes, and re-sequencing of various human samples across oncology, genetic disease, reproductive health, and more without effecting turnaround time.
5. The system should be able to generate at least 300 million reads or more from single/pair end from single sequencing run.
6. Sequencing output generated should have at least 99.9% raw accuracy with high quality data.
7. System should support read length of 100bp, 200bp, 300bp & 600 bp from single/pair end sequencing or better for various applications.
8. The system must have on-board server offers an ultra-rapid, accurate solution for secondary analysis (should process a full human genome at 30X from FASTQ to VCF in less than 20 minutes, full human exome at 100X from FASTQ to VCF in less than 5 minutes).
9. The sequencing technology should offer accurate sequencing of long homopolymer stretched more than 15bp long stretches in the genome accurately and highest read quality score of Q30 for more than 80% of the base calls having >99% accuracy ensuring quality control steps.
10. System should be able to perform applications like Targeted oncology panels (Solid tumor including comprehensive genomic panel (>500 genes), Cell free DNA panels, Hemat–oncology, Immuno-oncology, Targeted RNA sequencing, Small RNA Sequencing, RNA fusion, Amplicon Sequencing, Targeted sequencing, 16s Metagenomics, Microbial genome sequencing, etc.
11. Sequencing chemistry should be robust and globally proven, as demonstrated with greater than 6000 peer reviewed publications.
12. The data analysis module should enable real time, on-instrument image processing, base calling, read alignment and variant calling without the need for ancillary equipment.
13. Alignment, variant calling, and reporting should also be supported through in cloud computing environment.
14. Library preparation should be easy and completed within 12 hours with minimal hands-on time. Ease of library preparation and time required will be one of the important criteria for selection.
15. System should be able to sequence multiple samples at a time with option of using barcodes for sample multiplexing (up to 384).
16. The system should include the latest software, hardware, accessories, and technology available at the time of installation which is needed for generating high quality sequence reads. System should be capable to upgrade for high data output. All software updates and hardware updates should be provided free of cost including for high data output.

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17. The technology/system should be supported with proven performance & installation at minimum 10 installations in Govt institutes/clinical labs across India for same make model.
18. The systems should be provided on a turnkey basis and all essential accessories required for the sequencing workflow as listed below should be provided by the supplier (Point 21A-H)
19. The vendor should also install a small backup instrument to support clinical range of applications like myeloid panel, MPN panel, lymphoid panel, HLA typing and more ensuring a 100% uptime so that the turnaround time is maintained.
20. Warranty – 5 years
21. Comprehensive warranty for the main equipment as well as accessories i.e. UPS, Printer for 5 years and next 5 years CMC after warranty. No spare part/accessories of the equipment along with UPS, batteries(including replacement of all parts even due to wear/tear which may or may not affect the routine functioning of the equipment) will be purchased by the hospital during the warranty and CMC period and all these shall be provided free of cost by the bidder only. If due to some reason, company is not able to repair the equipment, the equipment of similar specification and same throughput should be installed free of cost at the same terms and conditions till the 10 year period is completed.

22. Essential Accessories:

- A. Automated analyzer for QC of DNA/RNA samples which can do analysis of Sample size, Quantity, Molarity and Integrity, cfDNA with percent of cfDNA purity, NGS library QC, Analysis of amplified libraries, PCR & multiplex PCR fragment analysis, QC of quantitative PCR products, Quality and quantity of total RNA samples.
 - System should analyze any sample number from 1-16 at constant cost per sample.
 - No manual Gel dye mix steps for sample preparation should be require. System should have automated loading, processing to analysis with zero cross contamination and walk away operation.
 - The system must be able to accommodate maximum sample volume of 1-2 μ L of precious sample for all applications including High Sensitivity Analysis.
 - The system should support DIN & RIN algorithm to measure the quality of the DNA & RNA.
 - The system must be accommodating tube strips or tube strips format.
 - The instrument software must offer feature for calculating the stability of RNA.
 - System must offer individual tips for sample loading to avoid any contamination issues.
 - The system must not use any fragile capillaries for electrophoresis. Instead, rugged chips /tapes/plates and tubes must be used.
 - The system should have integrated bar code scanner.
 - The system must not depend on use of any external/internal Nitrogen cylinder for running the Instrument.
 - The Kits required for the system must not use any mineral oil for preventing sample evaporation.
- B. Fluorometer for accurate measurement of DNA/RNA/Protein in a sample with below features:
 - Dynamic range: 5 orders of magnitude
 - Processing time: <5 seconds/sample
 - Light sources: Blue LED (peak ~470 nm), Red LED (peak ~635 nm)
 - Excitation filters: Blue LED (430–495 nm), Red LED (600–645 nm)
 - Emission filters: Green (510–580 nm), Red (665–720 nm)
 - Detectors: Photodiodes, measurement capability from 300–1,000 nm
 - Calibration type: 2- or 3-point standard

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- Sample chamber: Accommodates one Qubit Assay Tube
 - Tube type: Qubit Assay Tube
 - Warm-up time: <35 seconds
 - Sample data storage: 1,000 samples
 - Networking capabilities: Transfer data directly to computer using a USB cable or wirelessly using the supplied Wi-Fi adaptor
 - Display: 5.7 in. capacitive touchscreen with high-resolution color display
- C. Magnetic stand for sample preparation
- D. Branded, compatible online 5KVA UPS to support the entire system.
- E. Vibration-free table, Branded i7 Laptop
- F. Local NAS storage of up to 20 TB
- G. System should be supply with consumables (library prep & sequencing reagents) for Exome Seq (96), Myeloid (96), ALL (24), Custom Panel for 1000-2500 probes (96), WTS (96), T cell Receptor (24), IGHV (40), DNA/RNA QC (112).
- H. System should come with high end computational GPU system are as below:
- Processors: 2 x Intel Xeon Skylake or latest 4000 series with at least 16Cores/32T, 2.1GHz
 - Accelerators: 1 x Nvidia 2GB Graphics card. Scalable to 2 double width GPUs in total
 - RAM: 64GB DDR4-2400 ECC RDIMM using 32GB DIMMs (Max 2TB, at least 16 DIMMs)
 - HDD: 1 x 2000GB (2TB), 7200 RPM, Enterprise SATA HDDs. Provision for Total 8 Hot Swap HDD Bays, 4 Non-Hot Swap HDD Bays by default from day one
 - NVMe: On board NVMe controller, with at least 2 or more NVMe SSDs supported drive bays
 - NIC: 2 x 1 Gig Ethernet ports (RJ-45 ports)
 - RAID: SATA RAID Controller with RAID 0, 1, & 10 levels supported
 - Graphics: Graphics using on board graphics controller or dedicated professional add on graphics controller
 - Management: On-board IPMI 2.0 with out of band management with required license for activation And Tachometer status monitoring equipped system with PM controller FANs
 - Exp Slot: 4 x PCIe (x16 slots) and 2 x PCIe (x8 slots) Appropriate to populate 2 double width x16 based GPGPU Cards and at least 1 x single width Graphics card
 - Ports: 2 USB, 2 x Network, 1 x Video ports
 - Chassis: Tower and Rack-mountable (4U or lesser) with sliding rails and Handle Bars.

BIS/CE-IVD/US-FDA certification is not necessary.

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3/10/23

Umesh Patel. Tushar Singh.

Amfar
Bharat

Jasmit Kaur

Umesh Patel

Tushar Singh

Amfar

July 19, 2023

Proprietary Certificate

To Whom It May Concern

We have our registered address at B-583, Sushant Lok Phase 1, Near Park Plaza, GURUGRAM, Gurgaon, Haryana, India 122009. We are the manufacturer of the Illumina Sequencing Systems & Microarray Systems and consumables for the Sequencing Systems and Microarray Systems and Software & Analysis products. We hereby, confirm that the following products are manufactured by Illumina, Inc. and/or Illumina Singapore Pte. Ltd. and contain technology that is proprietary to Illumina, Inc..

Catalog # (Product Code)	Patents	Product Name
20038898	US 8,809,551 US 8,993,784 US 9,156,987 US 9,540,690 US 10,005,083 US 10,261,018 US 10,343,160 US 10,344,269 US 10,385,214 US 10,393,613 US 10,416,428 US 10,480,025 US 10,487,102 US 10,519,496 US 10,526,648 US 10,549,281 US 10,596,569 US 10,807,089 US 10,830,700 US 10,831,012 US 10,900,077 US 10,901,202 US 10,954,561 US 10,975,210 US 10,982,261 US 10,995,111 US 11,001,816 US 11,001,888 US 11,008,359 US 11,028,115 US 11,028,116 US 11,110,452 US D895,146 US D913,518 US D923,197 US D923,198 US D925,768	NextSeq 1000 Sequencing System

Yours faithfully



Name: Derrick Yim
Title: Director, Accounting
For and behalf of Illumina India Biotechnology Private Limited





डॉ. मनोरंजन महापात्रा
Dr. Manoranjan Mahapatra
आचार्य एवं विभागाध्यक्ष / Professor & Head
रुधिर विज्ञान विभाग / Deptt. of Hematology
अ.भा.आ.सं., नई दिल्ली / A.I.I.M.S., New Delhi-29



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August 31, 2023

CERTIFICATE OF AUTHORIZATION

We, Illumina India Biotechnology Private Limited (Hereinafter referred as "Illumina") hereby certify that Premas Life Sciences Pvt. Ltd ("Channel Partner"), having a principal place of business at E49/5 Okhla Industrial Estate Phase-II 2nd Floor, South Delhi, New Delhi, Delhi, 110002, India, is the selected and authorized Channel Partner of Illumina products.

Channel Partner is responsible for product promotion, training, after sales service, distribution, offering, negotiation and entering into contracts for Illumina branded products within the territories of India and Bhutan.

Please note that this certificate does not authorize Channel Partner to take any action that would result in the cancellation, revocation, annulment, or rescission (or other similar action) of any existing or future product registration within the territory unless support by a notarized/apostilled letter on Illumina letterhead authorizing such action that is signed by a senior vice president (or higher officer) of Illumina.

This certification is valid until March 31st, 2025.

For Illumina India Biotechnology Private Limited

Sincerely,



Boon Kheng Yim

Director - Accounting



डॉ. मनोरंजन महापात्रा
Dr. Manoranjan Mahapatra
आचार्य एवं विभागाध्यक्ष / Professor & Head
रुधिर विज्ञान विभाग / Deptt. of Hematology
आ.आ.सं., नई दिल्ली / A.I.I.M.S., New Delhi-29

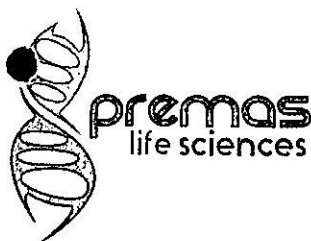


Illumina India Biotechnology Private Limited

CIN: U51100HR2015PTC024675

Registered office: Plot-11, Sushant Lok Phase I, New Park Plaza, Gurgaon, Haryana, India 122009.

Corporate office: 10th Floor, Peninsula Tower, Embassy Drive, Connaught Place, Connaught Place, New Delhi 110002, India
Bangalore office: 10th Floor, Peninsula Tower, Embassy Drive, Connaught Place, Connaught Place, New Delhi 110002, India



Premas Life Sciences Pvt. Ltd.

E - 49/5, Second Floor, Okhla Phase II,

New Delhi - 110020

CIN: U51909DL2011PTC217592

Email: contact@premaslifesciences.com

Phone: 011-46170798

Prepared for:

All India Institute of Medical Sciences

Ansari Nagar, New Delhi

,DL,110029,INDIA

Hereinafter referred to as "AIIMS-DELHI"

Quotation Number:	SQPLS/ILM/23-24/0583
Quotation Date:	November 23, 2023
Expiration Date:	March 31, 2024
Prepared By:	Varun Kumar
Phone Number:	8053590959
Email:	cs@premaslifesciences.com

II. PRODUCT & PRICING INFORMATION

Catalog #	Product Description	Customer Price	Qty.	Transaction value (INR)	HSN/SAC Code	GST %	GST Amount	Total Amount
20038898	Nextseq 1000 Sequencing system with 5 year warranty "Includes: Vibration free table, Magnetic Stand 16 & 96 wells, Branded i7 Laptop"	5,77,43,542.00	1	5,77,43,542.00	90275090	18.00	1,03,93,837.56	6,81,37,379.56
-	High end computational GPU system with 5 year warranty							
-	Automated gel electrophoresis system with 5 year warranty.							
-	Qubit Fluorometer with 5 year warranty							
-	Demuhidifier with 5 yr warranty							
-	A suitable 5 KVA branded UPS with 1 hrs backup, 5 years warranty							
-	WD/Seagate 4 Bay NAS 20 TB Storage							
-	Library prep and sequencing consumables for: WTS, Exome, Myeloid, Custom Panel (96 Rxns) ALL, T cell Receptor (24 Rxns), IGHV (40 Rxns) DNA/RNA QC Consumables (500 Rxns) Library QC Consumables (112 Rxns), Nextseq 1000/2000 P1/P2 Reagents Or other compatible reagents, Sequencing kit for above test.							
Total							6,81,37,379.56	
TCS Amount							0.00	
Net Total							6,81,37,379.56	

Terms & Conditions:

1 Prices Given FOR basis. The above declared price is valid for above mentioned product mix assuming to have shipment in one lot. Change in qty will change the price.

2 Delivery within 10 to 14 weeks from date of purchase order.

3 Payment - 100% advance through Inland LC in in favour of "Premas Life Sciences Pvt. Ltd.".

4 GST will be applicable as per govt rule at the time of invoicing.

5 Order should be issued in favour of Premas Life Sciences Pvt. Ltd., E 49/5, 2nd Floor, Okhla Industrial Area Phase II, New Delhi-110029

6 This quote is valid on for supply in India.

7 Road Permit/E-Way Bill should be provided for dispatch of material, if any applicable.

8 Above quoted products are for research use only.

9 GST No. is mandatory to mention in purchase order copy.

Regd. Office: E - 49/5, Second Floor, Okhla Phase II, New Delhi - 110020

www.premaslifesciences.com, GSTIN: 07AAGCP0079F1Z1



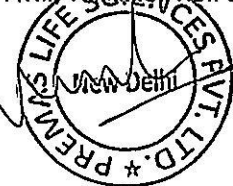
डॉ. मनोरंजन महापात्रा

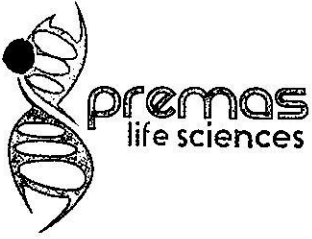
Dr. Manoranjan Mahapatra

आचार्य एवं विभागाध्यक्ष / Professor & Head

रुधिर विज्ञान विभाग / Deptt. of Hematology

ज. ग. ओ. सी., नई दिल्ली - 110029, New Delhi-29





Premas Life Sciences Pvt. Ltd.

E - 49/5, Second Floor, Okhla Phase II,

New Delhi - 110020

CIN: U51909DL2011PTC217592

Email: contact@premaslifesciences.com

Phone: 011-46170798

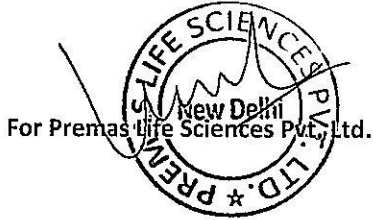
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10 Please share PO on cs@premaslifesciences.com.

11 The full GST as per govt. rules will be applicable at time of invoicing However, if any GST / Tax difference / liability occur due to change in norms by govt. the same will be borne by purchaser / consignee.

12 The customer needs to provide TCS exemption letter in order to revoke the TCS amount while invoicing.

13 Premas Drug License no. 20B-129800 & 21B-129801.



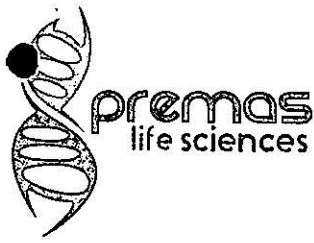
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Dr. Manoranjan Mahapatra

डॉ. मनोरंजन महापात्रा
Dr. Manoranjan Mahapatra
आचार्य एवं विभागाध्यक्ष / Professor & Head
रुधिर विज्ञान विभाग / Deptt. of Hematology
अ.भा.शा.सं., नई दिल्ली / A.I.I.M.S., New Delhi-29



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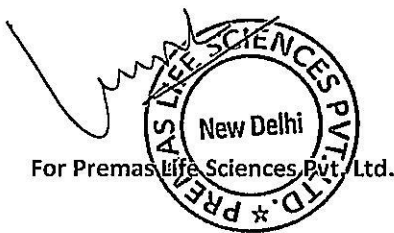
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Comprehensive Service Contract After Completion of Warranty

Product Description	Customer Price	Qty.	Transaction value (INR)	HSN/SAC Code	GST %	GST Amount	Total Amount
CMC Charges for 6th year	33,71,353.98	1	33,71,353.98	998399	18%	6,06,843.72	39,78,197.69
CMC Charges for 7th year	35,39,921.68	1	35,39,921.68	998399	18%	6,37,185.90	41,77,107.58
CMC Charges for 8th year	37,16,917.76	1	37,16,917.76	998399	18%	6,69,045.20	43,85,962.96
CMC Charges for 9th year	39,02,763.65	1	39,02,763.65	998399	18%	7,02,497.46	46,05,261.11
CMC Charges for 10th year	40,97,901.83	1	40,97,901.83	998399	18%	7,37,622.33	48,35,524.16
Net Total							2,19,82,053.50

Terms & Conditions:

1. Payment Term – Net 30 days in favor of Premas Life Sciences Pvt. Ltd.
2. Purchase Order in the name of Premas Life Sciences Pvt. Ltd. plot no. E 49/5, 2nd Floor, Okhla Phase 2, New Delhi 110020.
3. Above prices are inclusive of all taxes.
4. Above CMC charges will be applicable if the order received before extended warranty. Instrument should be in working condition before putting into the contract. If there is any gap between two warranties then recertification/health check (Chargeable) of instruments would be performed & in case any spare parts and consumables are needed then customer to purchase the spare parts and consumables to put instrument in working condition.
5. CMC contains One preventive maintenance visits only per year + breakdown call as & when required.



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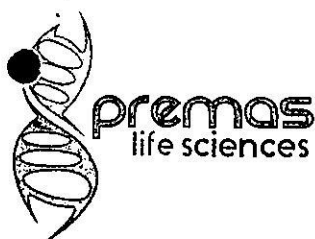
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Premas Life Sciences Pvt. Ltd.

E - 49/5, Second Floor, Okhla Phase II

New Delhi - 110020

CIN: U51909DL2011PTC217592

Email: contact@premaslifesciences.com

Phone: 011-46170798

List of Consumables for Nextseq 1000 Sequencing System

Cat No.	Description	Unit Price
20074933	NextSeq 1000/2000 P1 Reagents (100 cycles)	1,20,335
20050264	NextSeq 1000/2000 P1 Reagents (300 cycles)	1,67,132
20075294	NextSeq 1000/2000 P1 Reagents (600 cycles)	2,54,040
20046811	NextSeq 1000/2000 P2 Reagents (100 cycles)	1,94,541
20046812	NextSeq 1000/2000 P2 Reagents (200 cycles)	3,65,817
20046813	NextSeq 1000/2000 P2 Reagents (300 cycles)	4,85,082
20075295	NextSeq 1000/2000 P2 Reagents (600 cycles)	5,28,135
20024479	AmpliSeq™ for Illumina® Immune Repertoire Plus, TCR beta Panel 24rxn	3,74,374
20019101	AmpliSeq™ Library PLUS 24 Reactions) for Illumina®	4,14,486
20019105	AmpliSeq™ CD Indexes Set A for Illumina	89,850
20022654	Ampliseq™ cDNA Synthesis for Illumina®	71,666
105035	Twist Exome 2.0 plus Comprehensive Exome Spike-in, 12 Reactions	5,48,955
106661	Twist EF 2.0 + Std Hyb v2 + Amp Mix + Dry Down Beads, 96x12	6,98,445
101308	Twist Universal Adapter System - TruSeq Compatible, 96 Samples Plate A	86,625
101001	Twist Custom Panel, 12 Reactions (No. of Probes 1000-2500)	7,78,470
106661	Twist EF 2.0 + Std Hyb v2 + Amp Mix + Dry Down Beads, 96x12	6,98,445
101308	Twist Universal Adapter System - TruSeq Compatible, 96 Samples Plate A	86,625
107061	Twist RNA Library Prep Kit, 96 Samples	6,49,440
107242	Twist Purification Beads, 96 Samples	67,485
105560	Twist Std Hyb and Wash Kit v2 with amp mix, 12 Reactions	80,190
104325	Twist Dry Down Beads, 12 Reactions	1,03,620
100578	Twist Universal Blockers, 12 Reactions	1,07,250
101310	Twist Universal Adapter System - TruSeq Compatible, 96 Samples Plate C	86,625
HDA-MY1001-24	Pillar ONCO Reveal Myeloid Panel, 24 Rxns	4,00,000
IDX-PI-1001-96	Index kit A, 32 combinations	50,000
AB0013	Archer FusionPlex ALL Kit - 8 reactions	3,82,800
SA0040	Archer MBC Adapters A1-A8	13,200
SA0041	Archer MBC Adapters A9-A16	13,200
SA0042	Archer MBC Adapters A17-A24	13,200

Terms & Conditions:

1 Prices Given FOR basis. The above declared price is valid for above mentioned product mix assuming to have shipment in one lot. Change in qty will change the price.

2 Delivery within 10 to 14 weeks from date of purchase order.

3 Payment – net 30days in favour of "Premas Life Sciences Pvt. Ltd.".

4 GST will be applicable as per govt rule at the time of invoicing.

5 Order should be issued in favour of Premas Life Sciences Pvt. Ltd., E 49/5, 2nd Floor, Okhla Industrial Area Phase 2, New Delhi-110020.

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7 Road Permit/E-Way Bill should be provided for dispatch of material, if any applicable.

8 Above quoted products are for research use only.

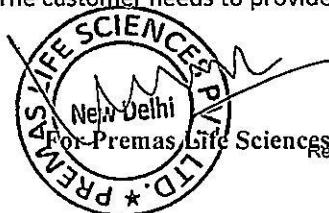
9 GST No. is mandatory to mention in purchase order copy.

10 Please share PO on cs@premaslifesciences.com.

11 Premas Drug License no. 20B-129800 & 21B-129801.

12 The full GST as per govt. rules will be applicable at time of invoicing However, if any GST / Tax differential liability arises due to change in norms by govt. the same will be borne by purchaser / consignee.

13 The customer needs to provide TCS exemption letter in order to revoke the TCS amount while invoicing.



Regd. Office: E - 49/5, Second Floor, Okhla Phase II, New Delhi - 110020

www.premaslifesciences.com, GSTIN: 07AAGCP0079F1Z1

Santh
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डॉ. मनोरजन महापात्रा
आचार्य एवं विभागाध्यक्ष / Professor & Head
रक्त विज्ञान विभाग / Deptt. of Hematology
I. भा. आ. सं., नई दिल्ली / A.I.I.M.S., New Delhi-29

16

DEPARTMENT OF HEMATOLOGY
A.I.I.M.S., NEW DELHI

Dated: 28.11.2023

Item Name: **"Next Generation Sequencer" through Proprietary.**

Proprietary Article Certificate (PAC)(Machinery & Equipment)

- (i) The Indented goods are manufacture by M/s Illumina.....
- (ii) Item Name: Next Seq 1000 Sequencing System
- (iii) Model No. 20038898.....
- (iv) Vital Technical Performance Parameters required which makes the requirement proprietary High throughput Sequencing
- (v) No other make or model is acceptable for the following reasons:
NIL

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

Thanking you,

Yours Sincerely

Dr. M. Mahapatra

Prof. & Head

Dept. of Hematology

डॉ. मनोरंजन महापात्रा
Dr. Manoranjan Mahapatra
आचार्य एवं विभागाध्यक्ष / Professor & Head
रक्त विज्ञान विभाग / Deptt. of Hematology
आ.भा.आ.सं., नई दिल्ली / A.I.I.M.S., New Delhi-29

Donca

Tamith

Umesh *Tuba Sengal*

janki

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DEPARTMENT OF HEMATOLOGY
A.I.I.M.S., NEW DELHI

Dated: 28.11.2023

Proprietary Article Certificate (PAC)

(for chemicals, spare parts, reagents, consumable etc.)

- (i) The indented goods are manufactured by M/s.....Illumina.....
(ii) Item NameCosumables for NextSeq 1000 Sequencing System.....
(iii) Model/Part/Catalogue No.List attached.....
(iv) Reasons/Justification which makes the requirement proprietary
.....NextSeq 1000/2000 P1/P2 reagents proprietary.....


1. 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.
2. It is certified that the purchase is proposed to be made on proprietary usage basis because any other material/equipment/industriment chemical, etc. if used will lead to deviation and affect the integrity/accuracy, validity or analysis of the assignment/patient care.

Thanking you,

Deeshika

Yours Sincerely

Dr. M. Mahapatra
Prof. & Head
Dept. of Hematology

 डॉ. मनोरंजन महापात्रा
Dr. Manoranjan Mahapatra
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रुधिर विज्ञान विभाग / Deptt. of Hematology
अ.भा.आ.सं., नई दिल्ली / A.I.I.M.S., New Delhi-29

Hanra

Tamara

Tina Singh
jasbir kaur