

ALL INDIA INSTITUTE OF MEDICAL SCIENCES

ANSARI NAGAR, NEW DELHI- 29

STORES SECTION (DO)

Ref. No. XVI-55/SO(DO)/Biochem/PAC/23-24/M&E

Sub: Proposal for procurement of LC-MS/MS (Liquid Chromatography Tandom Mass Spectrometer – 01 no. on PAC basis for Department of Biochemistry, at AIIMS, at AIIMS, & uploading of the proposal on AIIMS Website thereof.

Store Section (DO) is in the receipt of proposal for procurement of **LC-MS/MS (Liquid Chromatography Tandom Mass Spectrometer** from M/s Sciex India Pvt. Ltd. (M/s AB Sciex Pte Ltd., Singapore, OEM), from the Deptt. of Biochemistry on proprietary article certificate:

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 OEM's or their authorized distributors. The comments/objections if any should be received in office of Store Officer (DO), Store Section (DO), Animal House Building, Near Biotechnology Building at AIIMS on or before **18/06/2024** 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.

31/5/24

STORES OFFICER (DO)



DEPARTMENT OF BIOCHEMISTRY

All India Institute of Medical Sciences

Ansari Nagar, New Delhi-110029

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PROPRIETARY ARTICLE CERTIFICATE (PAC) (MACHINERY & EQUIPMENT)

- (i) The indented goods are manufactured by M/s. **AB SciEx Pte Ltd.**
- (ii) Item Name: **LC-MS/MS (Liquid Chromatography-Tandem Mass Spectrometer) GTE Exemption List no. 266**
- (iii) Model No.: **ZenoTOF 7600 LC-MS. MS System**
- (iv) Vital Technical Performance Parameters required which makes the requirement proprietary: **There are three major parameters which makes this instrument proprietary (Explained below and proprietary/patent certificates attached)**

1. The ZenoTOF 7600 system has included a Zeno trap and electron activated dissociation (EAD) fragmentation cell. Zeno trap pulsing overcomes the traditional duty cycle challenges of TOF technology and delivers up to 20x the sensitivity which enables the detection of important low-abundant molecules. This employs a trap at the end of the collision cell that enables ions to be trapped and released based on high m/z to low, ensuring ions across the mass range arrive simultaneously at the center of the TOF accelerator. During MS/MS analysis, quadrupole time-of-flight (QqTOF) instruments typically have a very low transmission and we lose lots of ions and thus critical information about our experiments, depending on the selected fragment m/z and upper scan range limit. In this scenario, transmission refers to the percentage of inbound ions that are accelerated into the TOF region. This low transmission of ions is due to the challenge of interfacing a continuous ion beam emitted from the collision cell into a pulsed measurement system like a TOF. The addition and activation of a linear ion trap (LIT) near the end of the collision cell, increases transmission of ions drastically, which leads to a 4-20x sensitivity increase over non-trap-based approaches.

2. Along with it, tuneable EAD fragmentation ensures novel structural information can be extracted and quantified from diverse compound types - a capability that is not currently possible by using high resolution alone. This LC-MS/MS incorporates a tunable electron-activated dissociation (EAD) device following a mass resolving quadrupole and prior to a CID cell. The EAD device operates reagent-free and utilizes a 1-Tesla magnet to simultaneously trap electrons with tunable energies with the incoming selected precursor ion beam. The EAD function enables various fragmentation mechanisms like electron capture dissociation (ECD), Hot ECD, and electron-impact excitation of ions from organics (EIEIO), which serve as alternatives to CID, producing different diagnostic product ions across a wide range of molecular classes for wider range of molecules (small & large molecular weight).

Zeno-SWATH data independent acquisition (DIA) delivers a high depth of coverage, particularly on low abundance species and can routinely quantify up to twice the number of plasma proteins than previously possible and drive faster discovery of new disease markers and therapies. Here, sequential windows of a user-defined precursor mass range are passed through the quadrupole mass filter, fragmented in the collision cell, and mass analyzed by the TOF. This high acquisition speed enables more mass windows to be analyzed per cycle while maintaining the number of chromatographic data points and accuracy and precision. In complex samples, increasing the number of mass windows per cycle improves selectivity which is very much essential for our wide range of complex samples, thereby improving sensitivity by leading to generation of more specific MS/MS spectra. This helps in lowering limits of quantitation, yielding greater confidence in target identifications and maintaining assay precision.

No other make or model is acceptable for the following reasons:

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

Dr. Hariprasad Srinivasan
 Professor
 Department of Biochemistry
 All India Institute of Medical Sciences
 New Delhi-110029

Dr. Pradyumn Anand
 Additional Professor
 Department of Biochemistry
 All India Institute of Medical Sciences
 New Delhi-110029

Dr. Sudip Sen
 Professor
 Department of Biochemistry
 All India Institute of Medical Sciences
 New Delhi-110029

Dr. Punjit Kumar
 Associate Professor / Head
 Dept. of Biophysics
 A.I.I.M.S.
 Ansari Nagar, New Delhi-29

S. Bandyopadhyay
 डॉ० सत्यसाची बंद्योपाध्याय/Dr. Sabyasachi Bandyopadhyay
 वैज्ञानिक-II / Scientist-II
 केंद्राध्यक्ष, जख्म उपचार सुविधा
 Centralized Care Research Facility
 अ.भा.आ.सं., नई दिल्ली-29/AHMS, New Delhi-29
 Professor (Laboratory Medicine)
 जख्म उपचार सुविधा केंद्र/JPIA Trauma Centre
 अ.भा.आ.सं., राज नगर, नई दिल्ली-110029
 A.I.I.M.S., Raj Nagar, New Delhi-29

[Signature]
 Signature of TSEC
 With Name, Designation, Department of Hospital/Institute/DGHS
 डॉ० सुनील शंकर, एम.डी.
 एम.डी. (पथोलॉजी) / M.D. (Pathology)
 आचार्य, परामर्शदाता एवं विभागाध्यक्ष
 Professor, Consultant & Head of Department
 Department of Pathology
 VIMC & Safdarjung Hospital, 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).

Technical Specification for High Resolution mass spectrometer with Nano LC, software & all accessories

S. N.	Specifications for HRMS mass spectrometer for multi-omics work (Metabolomics, Proteomics, Lipidomics) & small molecules
Application	<ul style="list-style-type: none"> ➤ The mass spectrometer should be a high resolution mass spectrometer capable of both discovery proteomics (untargeted), metabolomics (untargeted), and validation proteomics and metabolomics (targeted). The mass spec will be used for both qualitative and quantitative based methods. The mass spec should be versatile enough for us to develop our own methodologies and protocols. It should be capable of both data dependent and data independent acquisition (DDA and DIA respectively). Both label and label-free technologies should be possible for quantitative studies in proteomics as well as metabolomics in the mass spec. ➤ The rate of data acquisition (scan rate) should be high since our applications will involve projects with large number of clinical samples in each group. At the same time the sensitivity and dynamic range of detection should be intact. Spectral intensity should be high even at high scan rates. ➤ The machine should have a high mass range ≥ 40000 in order to enable analysis of intact proteins towards development of single protein biomarkers. ➤ A combination of library dependent and "library-free" search potential in order to get maximum coverage and depth of identifications from DIA.
A	Mass Spectrometry Technology required for discovery and quantitative analysis Quadrupole- time- of- flight-mass spectrometer with Linear Ion Trap feature (for discovery and quantitative analysis)

Dr. Parthaprasad Chattopadhyay
Dr. PARTHAPRASAD CHATTOPADHYAY, MD PhD
 Acting Head
 जैव रसायन विभाग / Department of Biochemistry
 अखिल भारतीय आयुर्विज्ञान संस्थान, अंसारी नगर, नई दिल्ली-29
 All India Institute of Medical Sciences, Ansari Nagar, New Delhi-29

Dr. Sunil Singh
डॉ० सुनील शिंगा / DR. SUNIL SINGHA
 एम.डी. (पैथोलोजी) / M.D. (Pathology)
 आचार्य, परमर्षदाता एवं जैव रसायन विभाग / Professor, Consultant & Head of Department of Biochemistry
 विक्रमि विज्ञान विभाग / Department of Biophysics
 वीएमएमसी एवं साफदरजंग अस्पताल, नई दिल्ली-110029
 VMMC & Safdarjung Hospital, New Delhi-110029

Dr. Pragyan Acharya
Dr. Pragyan Acharya
 Additional Professor
 Department of Biochemistry
 All India Institute of Medical Sciences
 New Delhi-110029

Dr. Sabyasachi Bandyopadhyay
डॉ० सन्यसाची बंद्योपाध्याय / Dr. Sabyasachi Bandyopadhyay
 वैज्ञानिक-II / Scientist-II
 केंद्रीकृत कोर अनुसंधान सुविधा
 Centralized Core Research Facility
 अ.भा.आ.सं., नई दिल्ली-29/AIIMS, New Delhi-29

Dr. Jayanth Kumar MD
डॉ० जयन्त कुमार एमडी / Dr. JAYANTH KUMAR MD
 अपर आचार्य / Additional Professor
 जैव रसायन विभाग / Dept. of Biochemistry
 अखिल भारतीय आयुर्विज्ञान संस्थान, नई दिल्ली-29
 All India Institute of Medical Sciences, Ansari Nagar, New Delhi-29

Dr. Sudip Sen
डॉ० सुदीप सेन / Dr. Sudip Sen
 आचार्य / Professor
 जैव रसायन विभाग / Department of Biochemistry
 अ.भा.आ.सं., अंसारी नगर / AIIMS, Ansari Nagar
 नई दिल्ली-110029 / New Delhi-110029

Dr. Punit Kaur
डॉ० पूनित कौर / Dr. Punit Kaur
 आचार्य एवं अध्यक्ष / Professor & Head
 जैवभौतिक विभाग / Deptt. of Biophysics
 अ.भा.आ.सं. / A.I.I.M.S.
 अंसारी नगर, नई दिल्ली-29 / Ansari Nagar, New Delhi-29

Dr. Shantanu Sengupta
डा. शान्तनु सेनगुप्ता / Dr. Shantanu Sengupta
 वैज्ञानिक / Scientist
 जीनोमिक्स और समवेत जीवविज्ञान संस्थान
 Institute of Genomics & Integrative Biology
 मल रोड, दिल्ली-110007 / Mall Road, Delhi-110007

Dr. Hariprasad G
Dr. HARIPRASAD. G (MD, PhD)
 Professor
 Department of Biophysics
 All India Institute of Medical Sciences
 New Delhi-110029

Dr. Purva Mathur
डॉ० पुरवा माथुर / Dr. PURVA MATHUR
 आचार्य (प्रयोगशाळा विज्ञान) / Professor (Laboratory Medicine)
 जय प्रकाश नारायण त्रिनिवस केंद्र / JPNA Trauma Centre
 अ.भा.आ.सं., अंसारी नगर, नई दिल्ली-110029
 A.I.I.M.S., Raj Nagar, New Delhi-29

	Hardware feature	System should be capable of both Collision induced dissociation (CID)& fragmentation based on electron. Quadrupole followed by collision cell (CID as well as with alternative fragmentation) and time of flight (TOF).
	Ion Source	<ul style="list-style-type: none"> ➤ Ion source with ESI probe and APCI probes. <ul style="list-style-type: none"> ○ Desolation temperature 700°C or better. ○ Flow rate range 5µL/min to 3mL/min or better for ESI ○ Flow rate range 200µL/min to 3mL/min or better for APCI ➤ Separate dedicated ion source for handling wide range of flow rates from 100nL to 200µL/min range <ul style="list-style-type: none"> ○ Source should have 2 spray probes for micro & nano flow rate probe along with column heater support or better ○ Programable time-based Ionisation Feature should be present.
i)	Mass Range	Quadrupole: m/z 5- 2250 or better. TOF m/z 5- 40000 or better.
ii)	Resolution	mass resolution that is equal to or greater than 42,000 (FWHM).
iii)	Scan Rate	Scan speed, MS/MS Up to 133Hz (133 MS/MS spectra per second) or better SACN Speed DIA mode: Up to 200 MS/MS scans per cycle in data independent mode (DIA) or better
iv)	Mass Accuracy	≤ 2 ppm MS using external calibration or better. MS/MS internal: ≤0.2 ppm absolute error as demonstrated on m/z 813 fragment ion of Glu-Fibrinopeptide B, internally calibrated ≤0.5 ppm absolute error as demonstrated on m/z 120 fragment ion of Glu-Fibrinopeptide B, internally calibrated
	Sensitivity (MS)	Sensitivity for 1 pg reserpine injection on column with S/N ratio ≥2,500:1 or better in MS scan mode.
	(MS/MS)	Sensitivity for 1pg reserpine injection on column with S/N ratio ≥8000:1 or better in MS/MS scan mode.
	Dynamic range	≥ 5 order of linear dynamic range or better.

Dr. Parto
Acting Head
 डॉ. पार्थसारथ चट्टोपाध्याय, एम डी पीएच
 Dr. PARTHASARATHY CHATTOPADHYAY, MD PhD
 आचार्य/Professor
 जीव रसायन विभाग
 Department of Biochemistry
 आर्यभट्ट राष्ट्रीय अस्पताल, अंसरी नगर, नई दिल्ली-29
 All India Institute of Medical Sciences, Ansari Nagar, New Delhi-29

Dr. Sunil Ranga
 डॉ. सुनील रांगा DR. SUNIL RANGA
 एम.डी. (पैथोलॉजी) एम.डी. (पैथोलॉजी)
 आचार्य, परामर्शदाता एवं विभागाध्यक्ष
 Professor, Consultant & Head of Department
 विकृति विज्ञान विभाग / Department of Pathology
 वीएनएमसी एवं सुफुल्ल अस्पताल, नई दिल्ली-110029
 VMMC & Safdarjung Hospital, New Delhi-110029

Dr. Pragyan Acharya
 डॉ. प्रद्युम्न अचर्या
 Additional Professor
 Department of Biochemistry
 All India Institute of Medical Sciences
 New Delhi-110029

S. Bandyopadhyay
 डॉ. सव्यसाची बंधोपाध्याय/Dr. Sabyasachi Bandyopadhyay
 वैज्ञानिक-II / Scientist-II
 केंद्रीकृत कोर अनुसंधान सुविधा
 Centralized Core Research Facility
 अ.भा.आ.सं., नई दिल्ली-29/AIIMS, New Delhi-29

Dr. Jayanth Kumar
 डॉ. जयन्त कुमार एमडी
 Dr. JAYANTH KUMAR MD
 अतिरिक्त आचार्य/Additional Professor
 जीव रसायन विभाग/Dept. of Biochemistry
 आर्यभट्ट राष्ट्रीय अस्पताल, अंसरी नगर, नई दिल्ली-29
 All India Institute of Medical Sciences, Ansari Nagar, New Delhi-29

Dr. Sudip Sen
 डॉ. सुदीप सेन / Dr. Sudip Sen
 आचार्य / Professor
 जीव रसायन विभाग / Department of Biochemistry
 आर्यभट्ट राष्ट्रीय अस्पताल, अंसरी नगर, नई दिल्ली-110029
 All India Institute of Medical Sciences, Ansari Nagar, New Delhi-110029

Dr. Shantanu Sengupta
 डॉ. शान्तनु सेनगुप्ता / Dr. Shantanu Sengupta
 वैज्ञानिक / Scientist
 जीनोमिक्स और समग्र जीवविज्ञान संस्थान
 Institute of Genomics & Integrative Biology
 मल रोड, दिल्ली-110007 / Mall Road, Delhi-110007
 अ.भा.आ.सं. / A.I.I.M.S.,
 अंसरी नगर, नई दिल्ली-29 / Ansari Nagar, New Delhi-29

Dr. Hariprasad G
 डॉ. हरिप्रसाद जी
 Dr. HARIPRASAD G (MD, PhD)
 प्रोफेसर
 जीव भौतिक विज्ञान विभाग / Department of Biophysics
 आर्यभट्ट राष्ट्रीय अस्पताल, अंसरी नगर, नई दिल्ली-29
 All India Institute of Medical Sciences, Ansari Nagar, New Delhi-110029

Dr. Purva Mathur
 डॉ. पुरवा माथुर / Dr. PURVA MATHUR
 आचार्य (एम्बेड्डेड प्रोफेसर)
 Professor (Laboratory Medicine)
 जय प्रकाश नारायण अस्पताल केंद्र / JPNA Trauma Centre
 अ.भा.आ.सं., राज नगर नई दिल्ली-110029
 A.I.I.M.S., Raj Nagar, New Delhi-29

vii)	Detector	A pulse counting, wide dynamic range dual ADC/TDC based detector. Features a 5 GHz, 10-bit ADC with a 40 GHz TDC
viii)	Scan Mode	Full scan TOF MS, Full scan TOF MS/MS, MRMHR, Variable Window DIA, IDA (DDA), Time Based MRM.
ix)	Fragmentation modes	<ul style="list-style-type: none"> ➤ Collision induced dissociation (CID) ➤ Electron based alternative fragmentation technique without need of reagent. ➤ Both fragmentation should be user tunable for allowing free electron energies for both small and large molecule-based applications.
x)	Duty cycle	➤ It should be greater than 90% in MSMS mode for ensuring minimum loss of ions to achieve better signal & thereby higher sensitivity.
B	Nano-Micro LC system	
Liquid Chromatography System		•Pump:
		Binary Pumps/Solvent Manager.
		Vacuum degassing capability Two/more-channel
		Operating flow rate range 200 nL/min to 100 µL/min without flow splitting
		Effective System Delay Volume <1ul Default configuration. Plunger Seal Wash Integral, active, programmable Maximum Operating Pressure 10,500 PSI or better. Pump compositional precision <0.25 min SD based on six repeat Flow control- Direct, no split. pH range pH 2 to 10
		Auto sampler
		Number of sample plates Any two of the following: <ul style="list-style-type: none"> • 96 and 384 microtiter plates • 48 position 2.00-mL vial plates • 48 position 0.65-mL micro-centrifuge tube plates • 24 position 1.50-mL micro-centrifuge tube plates

Dr. Parthaprasad Chattopadhyay
 डॉ. पार्थाप्रसाद चट्टोपाध्याय, एम डी पीएचडी
 डॉ. PARTHAPRASAD CHATTOPADHYAY, MD PhD
 आचार्य/Professor
 जैव रसायन विभाग
 Department of Biochemistry
 अखिल भारतीय आयुर्विज्ञान संस्थान, अंसारी नगर, नई दिल्ली-29
 All India Institute of Medical Sciences, Ansari Nagar, New Delhi-29

Dr. Sunil Ranga
 डॉ. सुनील रंगा/DR. SUNIL RANGA
 एम.डी. (पथोलॉजी)/M.D. (Pathology)
 आचार्य, परामर्शदाता एवं विभागप्रमुख
 Professor, Consultant & Head of Department
 डॉ. Pradyan Acharya
 विकृति विभाग (Department of Pathology)
 आचार्य/Professor
 अखिल भारतीय आयुर्विज्ञान संस्थान, नई दिल्ली-110029
 Additional Professor
 Department of Biochemistry
 All India Institute of Medical Sciences
 New Delhi-110029

Sabyasachi Bandyopadhyay
 डॉ. सबासची बंधोपाध्याय/Dr. Sabyasachi Bandyopadhyay
 वैज्ञानिक-II / Scientist-II
 केंद्रीकृत कोर अनुसंधान सुविधा
 Centralized Core Research Facility
 अ.भा.आ.सं., नई दिल्ली-29/AIIMS, New Delhi-29

Dr. Jayanth Kumar MD
 डॉ. जयन्त कुमार एमडी
 डॉ. JAYANTH KUMAR MD
 अतिरिक्त आचार्य/Additional Professor
 जैव रसायन विभाग/Dept. of Biochemistry
 अखिल भारतीय आयुर्विज्ञान संस्थान, नई दिल्ली-29
 All India Institute of Medical Sciences, Ansari Nagar, New Delhi-29

Dr. Sudip Sen
 डॉ. सुदीप सेन / Dr. Sudip Sen
 आचार्य / Professor
 जैव रसायन विभाग / Department of Biochemistry
 अ.भा.आ.सं., अंसारी नगर/AIIMS, Ansari Nagar
 नई दिल्ली-110029 / New Delhi-110029

Dr. Punjit Kaur
 डॉ. पुनीत कौर / Dr. Punjit Kaur
 आचार्य/Professor & Head
 जैवभौतिक विभाग / Deptt. of Biophysics
 अ.भा.आ.सं. / A.I.I.M.S.
 अंसारी नगर, नई दिल्ली-29 / Ansari Nagar, New Delhi-29

Dr. Shantanu Sengupta
 डॉ. शान्तनु सेनगुप्ता / Dr. Shantanu Sengupta
 वैज्ञानिक / Scientist
 जीनोमिक्स और समावेश जीवविज्ञान संस्थान
 Institute of Genomics & Integrative Biology
 मल्ल रोड, दिल्ली-110007 / Mall Road, Delhi-110007

Dr. Hariprasad G
 डॉ. HARIPRASAD G (MD, PhD)
 Professor
 Department of Biophysics
 All India Institute of Medical Sciences
 New Delhi-110029

Dr. Purva Mathur
 डॉ. पुरवा माथुर/Dr. PURVA MATHUR
 आचार्य (प्रयोगशाळा चिकित्सा)
 Professor (Laboratory Medicine)
 जय प्रकाश नारायण त्रिभुवा केंद्र / JPNH Trauma Centre
 अ.भा.आ.सं., राज नगर, नई दिल्ली-110029
 AIIMS, Raj Nagar, New Delhi-29

		Injection Volume 0.1 µL to 100.0 µL, in 0.1-µL increments.
		Sample manager precision <1% area RSD 0.2 to 1.9-µL injection
		Column Compartment
		Temperature Control 10 deg. C above ambient to 75 deg. C, 0.1deg. C increments.
		Total system (including pump & Autosampler) should be capable of operation at 10500 psi or better.
		Column compartment ±0.5 °C at sensor temperature accuracy
		Column capacity Single column, 75 µm to 4.6 mm internal diameter (ID); up to 250 mm in length
		TRAP VALVE MANAGER (TVM) ➤ Two 2-position, 6-port switching valve or one 2-position, 10-port switching valve
C	High flow LC	<p>Solvent Bottle : 4 Solvent Bottle .Should also provide tubing for solvent flow. The tubing should contain filters for solvent filtering function</p> <p>Solvent Tray: Should Provide Tray to accommodate 6 solvent bottles of 1 litre</p> <p>Pump Type Binary Pump</p> <p>Flow Rate Range 0.0001 mL/min to 5.00 mL/min or higher and suitable for LC-MS/MS operation</p> <p>Operation Pressure Range The instrument must have an operating pressure range of 9500 PSI or more to perform and enable working flexibility in both regulated and research/scientific work.</p> <p>Gradient Formation The gradient formation must be high-pressure binary mixing</p> <p>Flow-rate</p> <p>Precision ≤ ±0.06% RSD</p> <p>Flow-rate</p> <p>Accuracy ±1 % or better</p> <p>Degasser Built-in online or separate degassing module for at least 5</p> <p>Solvent Lines</p> <p>Sample Cooling Direct Sample Cooling system at 4 – 40 °C</p> <p>Injection Volume 1 – 50 µL or more</p> <p>Autosampler Pressure pressure range at least 9500 psi or better</p>

Phulkar
Acting Head
 डॉ. पार्याप्रसाद चट्टोपाध्याय, एम.डी. पीएचडी
 DR. PARTHAPRASAD CHATTOPADHYAY, MD PhD
 आचार्य/Professor
 जीव रसायन विभाग
 Department of Biochemistry
 आर्य समाज अस्पताल, अंसारी नगर, नई दिल्ली-29
 All India Institute of Medical Sciences, Ansari Nagar, New Delhi-29

Sudip
DR. SUNIL RANGA
 एम.डी. (पैथोलॉजी) / M.D. (Pathology)
 आचार्य, परामर्शदाता एवं विभागाध्यक्ष
 Professor, Consultant & Head of Department
 विकृति विज्ञान विभाग / Department of Pathology
 वीएएमएनएच एवं साफदरजंग अस्पताल, नई दिल्ली-110029
 VMMC & Safdarjung Hospital, New Delhi-110029

Pragyan
Dr. Pragyan Acharya
 Additional Professor
 Department of Biochemistry
 All India Institute of Medical Sciences
 New Delhi-110029

Sabyasachi Bandyopadhyay
 डॉ. सव्यसाची बंद्योपाध्याय/Dr. Sabyasachi Bandyopadhyay
 वैज्ञानिक-II / Scientist-II
 केंद्रोक्त कोर अनुसंधान सुविधा
 Centralized Core Research Facility
 अ.भा.आ.सं., नई दिल्ली-29/AIIMS, New Delhi-29

Jayanth Kumar
Dr. JAYANTH KUMAR MD
 अवर आचार्य/Additional Professor
 जीव रसायन विभाग/Dept. of Biochemistry
 आर्य समाज अस्पताल, नई दिल्ली-29
 All India Institute of Medical Sciences, Ansari Nagar, New Delhi-29

Sudip
Dr. Sudip Sen
 आचार्य / Professor
 जीव रसायन विभाग / Department of Biochemistry
 आर्य समाज अस्पताल, नई दिल्ली-110029
 All India Institute of Medical Sciences, Ansari Nagar, New Delhi-110029

Shantanu Sengupta
Dr. Shantanu Sengupta
 वैज्ञानिक / Scientist
 जीनोमिक्स और समेकित जीवविज्ञान संस्थान
 Institute of Genomics & Integrative Biology
 मल रोड, दिल्ली-110007 / Mall Road, Delhi-110007

Shantanu Sengupta
Dr. Shantanu Sengupta
 वैज्ञानिक / Scientist
 जीनोमिक्स और समेकित जीवविज्ञान संस्थान
 Institute of Genomics & Integrative Biology
 मल रोड, दिल्ली-110007 / Mall Road, Delhi-110007

Hariprasad G
Dr. HARIPRASAD. G (MD, PhD)
 Professor
 Department of Biophysics
 All India Institute of Medical Sciences
 New Delhi-110029

Purva Mathur
Dr. PURVA MATHUR
 आचार्य (प्रयोगशाला चिकित्सा)
 Professor (Laboratory Medicine)
 अर्य समाज अस्पताल, नई दिल्ली-110029
 All India Institute of Medical Sciences, Ansari Nagar, New Delhi-110029

		<p>Injection Volume Precision ±0.25 % RSD Carry Over <0.0015 % or better Sample Capacity 100 or more vials (1.5mL - 2 mL) sample capacity</p> <p>Temperature Setting Range 10 °C below ambient to 85 °C or better Temperature Precision ± 0.1 °C or better Column Accommodation Capability 6 columns of up to 100mm length or better</p>
D	Spares and accessories PC	<p>a. LC-MS/MS startup kit should be supplied as standard(like tubing, syringe, calibration standards)</p> <p>b. All required traceable standards for Mass calibration and tuning, HPLC calibration should be provided</p> <p>c. Standard Tool kit should be provided for Instrument maintenance</p> <p>d. Speedvac or concentrator with vacuum pump should be quoted along with instrument.</p>
E	PC Softwares	<p>Separate systems- one for data acquisition and one for data analysis should be provided with specification as mentioned. Most recent factory recommended for use with the above system to be provided.</p> <p>Workstation specifications: Intel Xeon W-2245 8 Core Processor (3.9GHz 4.7GHz Turbo HT 16.5MB, 155W DDR4-2933)</p> <ul style="list-style-type: none"> 32GB RAM memory (2X16GB DDR4 3200MHZ RDIMM ECC) 2x2 TB Solid State Hard Drive in RAID 1 configuration Hardened installation of Windows 10 IoT Enterprise 2019 LTSC 64 bit Optical mouse Multimedia keyboard RoHS compliant or better
	Data Analysis Software	<p>Instrument should have dedicated software for data acquisition and instrument control. Software for instrument control, data acquisition and data processing must be latest with license. The software should be updated annually based on the latest version available.</p>

Ph...
Dr. Parthappa Chattoopadhyay, MD PhD
 Acting Head
 Department of Biochemistry
 All India Institute of Medical Sciences, Ansari Nagar, New Delhi-29

Dr. Sunil...
Dr. Sunil Kumar
 M.D. (Pathology)
 Professor, Consultant & Head of Department
 Department of Pathology
 VMMC & Safdarjung Hospital, New Delhi-110029

Pragyan
Dr. Pragyan Acharya
 Additional Professor
 Department of Biochemistry
 All India Institute of Medical Sciences
 New Delhi-110029

S. Bandyopadhyay
Dr. Sabyasachi Bandyopadhyay
 वैज्ञानिक-II / Scientist-II
 केंद्रीकृत कोर अनुसंधान सुविधा
 Centralized Core Research Facility
 अ.भा.आ.सं., नई दिल्ली-29/AIIMS, New Delhi-29

Jayanth
Dr. Jayanth Kumar MD
 Additional Professor
 Department of Biochemistry
 All India Institute of Medical Sciences, Ansari Nagar, New Delhi

Shantanu Sengupta
Dr. Shantanu Sengupta
 वैज्ञानिक / Scientist
 जीनोमिक्स और समवेत जीवविज्ञान संस्थान
 Institute of Genomics & Integrative Biology
 माल रोड, दिल्ली- 110007 / Mall Road, Delhi-110007

Hariprasad G
Dr. Hariprasad G (MD, PhD)
 Professor
 Department of Biophysics
 All India Institute of Medical Sciences
 New Delhi-110029

Sudip
Dr. Sudip Sen
 Additional Professor
 Department of Biochemistry
 अ.भा.आ.सं., नई दिल्ली-110029 / New Delhi-110029

Punit Kaur
Dr. Punit Kaur
 Professor & Head
 Department of Biophysics
 अ.भा.आ.सं. / A.I.I.M.S.
 नई दिल्ली-29 / Ansari Nagar, New Delhi

Purva Mathur
Dr. Purva Mathur
 Additional Professor (Laboratory Medicine)
 Professor (Laboratory Medicine)
 अ.भा.आ.सं., राज नगर नई दिल्ली-110029
 A.I.I.M.S., Raj Nagar, New Delhi-29

		<p>Metabolite identification & data base searching capability software for metabolomics and lipidomics application and library for metabolomics and lipidomics shall be quoted. The software should be updated annually based on the latest version available.</p> <p>Protein identification & data base searching capability software for proteomics application and library for proteomics shall be quoted. Software should have the ability to perform library free search based on DIA-NN (DIA- neural network) search or similar algorithms. The software should be updated annually based on the latest version available.</p> <p>Software with formula finder, automatic online database search, and fragmentation prediction tool to identify unknowns. The software should be updated annually based on the latest version available.</p> <p>Dedicated latest software package for metabolite /Protein identification and characterization, relative and absolute quantifications. Software should be able to perform alignment of multiple data sets, statistical analysis software and software for metabolite structure elucidation. All the software required for DIA & DDA workflow should be quoted. The software should be updated annually based on the latest version available.</p> <p>LC system should be controlled by single software or the LC software should be integrated into the MS data acquisition software. The software should be updated annually based on the latest version available.</p>
<p>Dr. Ramesh Prasad Chattopadhyay, MD PhD Additional Professor Department of Biochemistry All India Institute of Medical Sciences, Ansari Nagar, New Delhi-29</p>	<p>Training</p>	<p>The supplier will have to carry out successful installation at the laboratory premises (where ever the system has to be installed) and provide on-site comprehensive training for a minimum of four scientific personnel operating the system till customer satisfaction and provide training and troubleshooting in running the workflow as an when required during the period of contract. An annual training workshop covering the fundamentals of mass spectrometry, and practical aspects of mass spectrometry must be conducted for the period of contract (3 years).</p> <p>Trained operator for LC-MS/MS facility for three years.</p>
<p>Dr. Sunil Ranga / DR. SUNIL RANGA एम.डी. (पैथोलॉजी) / M.D. (Pathology) Professor, Consultant & Head of Department चिकित्सा विज्ञान विभाग / Department of Pathology वीएफएमसी एवं सफादरजंग अस्पताल, नई दिल्ली-110029 VFMCI & Safdarjung Hospital, New Delhi-110029</p>	<p>UPS</p>	<p>The system should have UPS (minimum 15 KVA) of suitable rating with voltage regulation, spike protection and minimum 60 minutes back up for the supplied equipment.</p>
<p>I</p>	<p>Gas generator</p>	<p>System should include Nitrogen generator with latest gas panels with noise free compressor .</p>

Pragyan
 डॉ. पार्थप्रसाद चट्टोपाध्याय, एम.डी. पी.एच.डी.
 Dr. RAMESH PRASAD CHATTOPADHYAY, MD PhD
 Additional Professor
 Department of Biochemistry
 All India Institute of Medical Sciences, Ansari Nagar, New Delhi-29

Dr. Sunil Ranga
 डॉ. सुनील रांगा / DR. SUNIL RANGA
 एम.डी. (पैथोलॉजी) / M.D. (Pathology)
 Professor, Consultant & Head of Department
 चिकित्सा विज्ञान विभाग / Department of Pathology
 वीएफएमसी एवं सफादरजंग अस्पताल, नई दिल्ली-110029
 VFMCI & Safdarjung Hospital, New Delhi-110029

Pragyan
 Dr. Pragyan Acharya
 Additional Professor
 Department of Biochemistry
 All India Institute of Medical Sciences
 New Delhi-110029

S. Bandyopadhyay
 डॉ. सव्यसाची बंद्योपाध्याय / Dr. Sabyasachi Bandyopadhyay
 वैज्ञानिक-II / Scientist-II
 केंद्रीकृत कोर अनुसंधान सुविधा
 Centralized Core Research Facility
 अ.भा.आ.सं., नई दिल्ली-29/AIIMS, New Delhi-29

Jayant Kumar
 डॉ. जयन्त कुमार एमडी
 Dr. JAYANTH KUMAR MD
 Additional Professor
 Department of Biochemistry
 अखिल भारतीय आयुर्विज्ञान संस्थान, नई दिल्ली-29
 All India Institute of Medical Sciences, Ansari Nagar, New Delhi-29

Sandip
 डॉ. सुदीप सेन / Dr. Sudip Sen
 Additional Professor
 Department of Biochemistry
 व.भा.आ.सं., अंसारी नगर / AIIMS, Ansari Nagar
 नई दिल्ली-110029 / New Delhi-110029

Dr. Punil Kaur
 डॉ. पुनीत कौर / Dr. Punil Kaur
 Additional Professor & Head
 जैवभौतिक विभाग / Deptt. of Biophysics
 अ.भा.आ.सं. / A.I.I.M.S.
 नई दिल्ली-29 / Ansari Nagar, New Delhi-29

Shantanu Sengupta
 डा. शान्तनु सेनगुप्ता / Dr. Shantanu Sengupta
 वैज्ञानिक / Scientist
 जीनोमिक्स और समवेत जीवविज्ञान संस्थान
 Institute of Genomics & Integrative Biology
 माल रोड, दिल्ली-110007 / Mall Road, Delhi-110007

Dr. Hariprasad G
 डॉ. हरीप्रसाद जी (एम.पी.एच.)
 Dr. HARIPRASAD. G (MD, PhD)
 Professor
 Department of Biophysics
 All India Institute of Medical Sciences
 New Delhi-110029

Dr. Purva Mathur
 डॉ. पुरवा माथुर / Dr. PURVA MATHUR
 Additional Professor (Laboratory Medicine)
 अखिल भारतीय आयुर्विज्ञान संस्थान / All India Institute of Medical Sciences
 अ.भा.आ.सं., राज नगर नई दिल्ली-110029
 A.I.I.M.S., Raj Nagar, New Delhi-29

		<ul style="list-style-type: none"> ➤ Any other gas cylinder (As required for the instrument) for performing the required applications must be included in the offer along with the gas regulators, gas purification panels , tubing's , connectors and moisture traps etc. 2 back up AC units should be provided.
J	Warranty/CMC	<ul style="list-style-type: none"> ➤ The system should come with a 5 years warranty for the complete system (Mass spec+ nano LC+ Ionization source + gas generator + Autosampler and other associated parts). ➤ Additional 5 year CMC pricing should be quoted as optional. ➤ Since mass spectrometers are very sensitive equipment and requires regular servicing and support for smooth functioning of the facility, user's feedback as deemed by competent authority may be taken. Based on the user's feedback the competent authority reserves the right to reject the bid submitted. ➤ Instruments must be attended within 48 hr in case of any breakdown. The uptime for the facility should be 90% per year or more. Vendor should assure the availability of the spares for next 10 years from the date of installation. ➤ One preventive maintenances for the complete platform should be performed every year during the warranty period. ➤ Vendor must have good service and application support in India to support the Institute as and when required.

Pragyan
 Acting Head
 डॉ. पार्थप्रसाद चट्टोपाध्याय, एम.डी. पी.डी.
 Dr. PARTHAPRASAD CHATTOPADHYAY, MD PhD
 आचार्य/Professor
 जीव रसायन विभाग
 Department of Biochemistry
 अखिल भारतीय आयुर्विज्ञान संस्थान, अंसरी नगर, नई दिल्ली-29
 All India Institute of Medical Sciences, Ansari Nagar, New Delhi-29

Pragyan
 Dr. Pragyan Acharya
 Additional Professor
 Department of Biochemistry
 All India Institute of Medical Sciences
 New Delhi-110029

Sudip
 डॉ. सुदीप सेन / Dr. Sudip Sen
 आचार्य / Professor
 जीव रसायन विभाग / Department of Biochemistry
 व. भा. आ. सं., अंसरी नगर/AIIMS, Ansari Nagar
 नई दिल्ली-110029 / New Delhi-110029

Hariprasad G
 Dr. HARIPRASAD. G (MD, PhD)
 Professor
 Department of Biophysics
 All India Institute of Medical Sciences
 New Delhi-110029

Sunil Ranga
 डॉ. सुनील रांगा / DR. SUNIL RANGA
 एम.डी. (पैथोलोजी) / M.D. (Pathology)
 आचार्य, परामर्शदाता एवं विभागाध्यक्ष
 Professor, Consultant & Head of Department
 चिकित्सा विज्ञान विभाग / Department of Pathology
 वीएमएमसी & सफदरजंग अस्पताल, नई दिल्ली-110029
 VMMC & Safdarjung Hospital, New Delhi-110029

Sabyasachi Bandyopadhyay
 डॉ. सव्यसाची बंद्योपाध्याय/Dr. Sabyasachi Bandyopadhyay
 वैज्ञानिक-II / Scientist-II
 केंद्रीकृत कोर अनुसंधान सुविधा
 Centralized Core Research Facility
 अ. भा. आ. सं., नई दिल्ली-29/AIIMS, New Delhi-29

Jayanth Kumar MD
 डॉ. जयन्त कुमार एमडी
 Dr. JAYANTH KUMAR MD
 अतिरिक्त आचार्य/Additional Professor
 जीव रसायन विभाग/Dept. of Biochemistry
 अखिल भारतीय आयुर्विज्ञान संस्थान, नई दिल्ली-29
 All India Institute of Medical Sciences, Ansari Nagar, New Delhi-29

Shantanu Sengupta
 डा. शांतनु सेनगुप्ता / Dr. Shantanu Sengupta
 वैज्ञानिक / Scientist
 जीनोमिक्स और समन्वित जीवविज्ञान संस्थान
 Institute of Genomics & Integrative Biology
 मल रोड, दिल्ली-110007 / Mall Road, Delhi-110007

Punit Kaur
 डॉ. पुनीत कौर / Dr. Punit Kaur
 आचार्य एवं अध्यक्ष / Professor & Head
 जीवभौतिक विभाग / Dept. of Biophysics
 अ. भा. आ. सं. / A.I.I.M.S.
 अंसरी नगर, नई दिल्ली-29 / Ansari Nagar, New Delhi-29

Purva Mathur
 डॉ. पुरवा माथुर / Dr. PURVA MATHUR
 प्रयोगशाळा (प्रयोगशाळा चिकित्सा)
 Professor (Laboratory Medicine)
 एच. एम. एम. सी. टॉमोसोना त्रॉमा केंद्र/JPNH Trauma Centre
 अ. भा. आ. सं., राज नगर, नई दिल्ली-110029
 A.I.I.M.S., Raj Nagar, New Delhi-29

PROPOSAL FOR PURCHASE

31



Quote Title: SCIEX ZenoTOF 7600 LC-MS/MS System

Quote #:

SCIEX-DEL/DD/AIIMS/167879/23

Quote Date: 09 Jan 2023

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NEW DELHI-110 029

Delivery Period:

6-8 weeks after receipt of Purchase Order & Payment

Payment Terms: LC at sight

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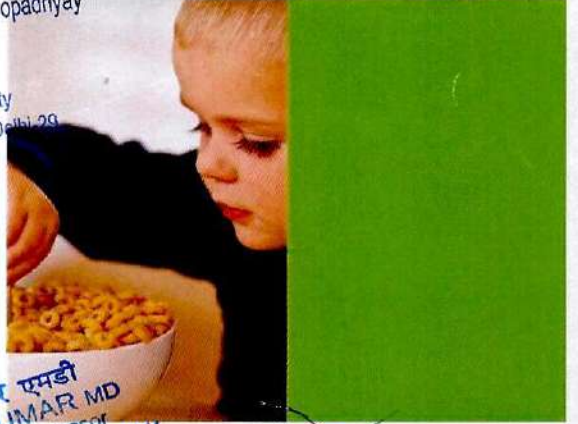
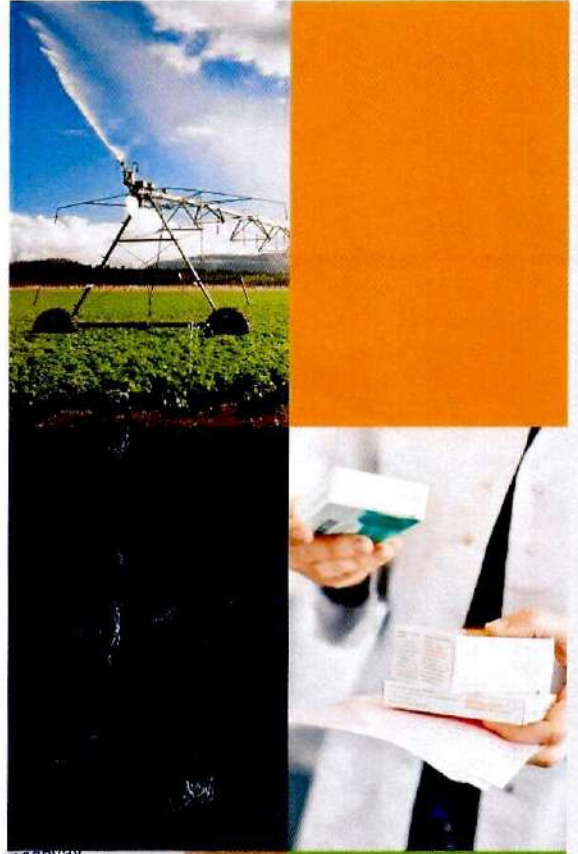
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Dr. PARASAD CHAKRABORTY, MD PhD
Professor
Department of Biochemistry
All India Institute of Medical Sciences, Ansari Nagar, New Delhi-110029

Dr. Sabyasachi Bandyopadhyay
वैज्ञानिक-II / Scientist-II
केंद्रीकृत एंजि अणुरोधन सुविधा
Centralized Core Research Facility
अ.भा.आ.सं. नई दिल्ली-29/AIIMS, New Delhi-29

Dr. SUNIL HANDE
Professor, Consultant & Head
Department of Pathology
All India Institute of Medical Sciences, Ansari Nagar, New Delhi-110029

Dr. JAYANTH KUMAR MD
अपर आचार्य/Additional Professor
अपर आचार्य/Deptt. of Biochemistry
जैव रसायन विभाग/Department of Biochemistry
All India Institute of Medical Sciences, Ansari Nagar, New Delhi-29



Registered office: 3rd floor, Unit # 9215, B-Wing, Art Guild House, Phoenix Market City, LBS Road, Vimeersia Media technologies Pvt. Limited, Karla West, Mumbai, Maharashtra 400070. Phone: 022 3026 7000

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Dr. Pragnya Acharya
Additional Professor of Biochemistry
Department of Biochemistry
All India Institute of Medical Sciences
New Delhi-110029

Dr. HARIPRASAD G (MD PhD)
Professor
Department of Biophysics
All India Institute of Medical Sciences
New Delhi-110029

Dr. PUNIT KAUR
अपर आचार्य एवं अध्यक्ष / Dr. Punit Kaur
अपर आचार्य एवं अध्यक्ष / Deptt. of Biophysics
अ.भा.आ.सं. / A.I.I.M.S.
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Sr.#	Product Part #	Description	Qty	Unit Price USD	Total Price USD
1	5300885	<p>ZenoTOF 7600 System-Zeno SWATH</p> <p>This is a non biologics ZenoTOF 7600 LC-MS/MS System enabled with Zeno SWATH</p> <p>Includes: Zeno SWATH acquisition e-license</p> <p>Includes: Turbo V Source for ZenoTOF 7600 that accepts either the ESI Probe or APCI Probe</p> <p>A source combining ESI and APCI (Atmospheric Pressure Chemical Ionization) modes for automated calibration. Offers the same high flow characteristics as the regular Turbo V source (flow rates from 5 to 3000 ml/min.) and APCI source (flow rates from 200 to 3000 ml/min.).</p> <p>Includes: ESI Twinsprayer Probe</p> <p>Includes: Data Acquisition Sciex Workstation + (Plus) Win10 64-bit OS</p> <p>Includes: 24in Standard Monitor</p> <p>Includes: One standard roughing pump.</p>	01	Included	Included
2	5307946	<p>SCIEX OS Acq QT Starter Kit - OS-Q E-License</p> <p>New SCIEX OS starter kit for QTRAP systems. This bundle contains: 1) SCIEX OS for Acquisition, Qual, and Quant Proc e-license on a single workstation 2) Sciex OS-Q e-license for quantitation and qualification of small molecule compounds, large molecule biomarkers and biopharmaceuticals.</p>	01	Included	Included
3	5032735	<p>PTO* ESI POSITIVE CALIBRATION SOLUTION X500B 5 PACK</p> <p>Calibration solution 5 pack for the SCIEX X500B system. This solution is intended for use in ESI positive ion mode.</p>	01	Included	Included
		<p>PTO* ESI NEGATIVE CALIBRATION SOLUTION X500 5 PACK</p> <p>Calibration solution 5 pack for the SCIEX X500 system. This solution is intended for use in ESI negative ion mode.</p>	01	Included	Included
		<p>PTO* APCI POSITIVE CALIBRATION SOLUTION X500 5 PACK</p> <p>Calibration solution 5 pack for the SCIEX X500 system. This solution is intended for use in APCI positive ion mode.</p>	01	Included	Included

Dr. Arthya Prasad Chattopadhyay, MD PhD
 Acting Professor
 Department of Biochemistry
 All India Institute of Medical Sciences, Ansari Nagar, New Delhi-29

Dr. Sudip Sen / Dr. Sudip Sen
 Professor
 Department of Biochemistry
 All India Institute of Medical Sciences, Ansari Nagar

Dr. Jayanth Kumar MD
 Additional Professor
 Department of Biochemistry
 All India Institute of Medical Sciences, Ansari Nagar, New Delhi-29

Dr. Sabyasachi Bandyopadhyay
 Scientist-II / Scientist-III
 Centralized Core Research Facility
 All India Institute of Medical Sciences, New Delhi-29



Dr. Purva Mathur
 Professor (Laboratory Medicine)
 Trauma Centre
 All India Institute of Medical Sciences, New Delhi-29

Registered office: 3rd floor, Unit # 9215, B-Wing, Art Guild House, Phoenix Market city, LBS Road, Vimercia Media technologies Pvt Limited Kurla West, Mumbai, Maharashtra 400070. Phone: 022 3026 7000

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Dr. Pragyan Acharya
 Additional Professor
 Department of Biochemistry
 All India Institute of Medical Sciences
 New Delhi-110029

Dr. Hari Prasad G (MD, PhD)
 Professor
 Department of Biophysics
 All India Institute of Medical Sciences
 New Delhi-110029

Dr. Punit Kaur
 Professor & Head
 Deptt. of Biophysics
 A.I.I.M.S.
 Ansari Nagar, New Delhi-29

Sr.#	Product Part #	Description	Qty	Unit Price USD	Total Price USD
6	5042919	PTO* APCI NEGATIVE CALIBRATION SOLUTION X500 5 PACK Calibration solution 5 pack for the SCIEX X500 system. This solution is intended for use in APCI negative ion mode.	01	Included	Included
7	5044093	CABLE* POWER INDIA 10A/250V	15	Included	Included
8	5311309	CORE EXIONLC AE SYSTEM Configured ExionLC AE system bundle. Main components include ExionLC AE autosampler, 2 ExionLC AE pumps, ExionLC AE controller, ExionLC AE column oven, 20 uL micro mixer, and 5 channel ExionLC AE Degassing Unit. Capable of injection volumes of 0.1 to 50 uL and pressures up to 15,200 psi. This system bundle contains all of the components required for basic LC operation.	01	Included	Included
9	5053490	MS Office 2016 Professional Plus ISV Global Kit	02	Included	Included
10	5303450	SCIEX Gas Generator N26A26 standalone compressor gas generator for all RUO SCIEX LC-MS system with or without SelexION. Max specifications: Curtain Gas (Nitrogen) 26 L/min @ 60 psi, Source Gas (Dry Air) 32 L/min@ 105 psi and Exhaust Gas (Dry Air) 25L/min @ 70 psi. Dimensions (HxWxD) 70 x 57 x 90 cm (27.6 x 22.4 x 35.5 ins) and Weight 337 lb (153kg). Requirements: Electric 220V ± 10%, 50/60 Hz, 7A, Power consumption 1640 VA.	01	Included	Included
11	4376887	FG,TRIAZINE STANDARD MIXTURE	01	Included	Included
12	4465708	SIL Installation Kit 1.5 mL autosampler vials, package of 100. Vials are clear borosilicate glass with 9 mm screw cap and non-bonded PTFE/Silicone septum with no slit.	02	Included	Included

Dr. Parthaprasad Chattopadhyay, MD PhD
Dr. PARTHAPRASAD CHATTOPADHYAY, MD PhD
 आचार्य/Professor
 जैव रसायन विभाग
 Department of Biochemistry
 भारतीय अणुवैज्ञानिक संस्थान, अंसारी नगर, नई दिल्ली-29
 All India Institute of Medical Sciences, Ansari Nagar, New Delhi-29

Dr. Jayanth Kumar MD
Dr. JAYANTH KUMAR MD
 डॉ० जयन्त कुमार एमडी
 आचार्य/Additional Professor
 अणु रसायन विभाग/Dept. of Biochemistry
 भारतीय अणुवैज्ञानिक संस्थान, नई दिल्ली-29
 All India Institute of Medical Sciences, Ansari Nagar, New Delhi-29

Dr. Sabyasachi Bandyopadhyay
Dr. Sabyasachi Bandyopadhyay
 डॉ० सव्यसाची बंदोपाध्याय/Dr. Sabyasachi Bandyopadhyay
 वैज्ञानिक-II / Scientist-II
 केंद्रीकृत कोर अनुसंधान सुविधा
 Centralized Core Research Facility
 अ.भा.आ.सं., नई दिल्ली-29/AIIMS, New Delhi-29

Dr. Purva Mathur
Dr. Purva Mathur
 डॉ० पुरवा मथुरा/Dr. Purva Mathur
 आचार्य (अणुवैज्ञानिक चिकित्सा)
 Professor (Laboratory Medicine)
 जैव प्रयोगशाला केंद्र/JPNA Trauma Centre
 भारतीय अणुवैज्ञानिक संस्थान, नई दिल्ली-110029
 All I.M.S., Raj Nagar, New Delhi-29

Dr. Sunil Ranga
Dr. Sunil Ranga
 डॉ० सुनील रांगा/Dr. Sunil Ranga
 आचार्य / Professor
 जैव रसायन विभाग/Department of Biochemistry
 अ.भा.आ.सं., अंसारी नगर/AIIMS, Ansari Nagar
 नई दिल्ली-110029/New Delhi-110029

Dr. Sunil Ranga
Dr. SUNIL RANGA
 एम.डी. (पैथोलॉजी) / M.D. (Pathology)
 आचार्य, परामर्शदाता एवं विभागाध्यक्ष
 Professor, Consultant & Head of Department
 पैथोलॉजी विभाग/Department of Pathology
 बीएमएससी एवं सफदरजंग अस्पताल, नई दिल्ली-110029
 All India Institute of Medical Sciences, Ansari Nagar, New Delhi-29

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Dr. Pragyan Acharya
Dr. Pragyan Acharya
 Additional Professor
 Department of Biochemistry
 All India Institute of Medical Sciences
 New Delhi-110029

Dr. Hari Prasad G
Dr. HARI PRASAD G (MD PhD)
 Professor
 Department of Biophysics
 All India Institute of Medical Sciences
 New Delhi-110029

Dr. Punit Kaur
Dr. Punit Kaur
 डॉ० पुनीत कौर / Dr. Punit Kaur
 आचार्य एवं अध्यक्ष / Professor & Head
 जैवभौतिक विभाग / Dept. of Biophysics
 अ.भा.आ.सं. / A.I.I.M.S.
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 Department of Biochemistry
 All India Institute of Medical Sciences, Ansari Nagar, New Delhi-29

डॉ. सबासची बंद्योपाध्याय
Dr. Sahyasachi Bandyopadhyay
 वैज्ञानिक-II / Scientist-II
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डॉ. सुदीप सेन / **Dr. Sudip Sen**
 Additional Professor
 Department of Biochemistry
 All India Institute of Medical Sciences, Ansari Nagar
 नई दिल्ली-29/AIIMS, New Delhi-29

डॉ. जयन्त कुमार एमडी
Dr. JAYANTH KUMAR MD
 Additional Professor
 अखिल भारतीय आयुर्विज्ञान संस्थान, नई दिल्ली-
 All India Institute of Medical Sciences, Ansari Nagar, New Delhi

डॉ. सुनील रंगा
Dr. SUNIL RANGA
 एम.डी. (पथोलॉजी) / M.D. (Pathology)
 आचार्य, परामर्शदाता एवं विभागाध्यक्ष
 Professor, Consultant & Head of Department
 Department of Pathology
 All India Institute of Medical Sciences, Ansari Nagar, New Delhi-110029

डॉ. प्रद्युम्न अचार्य
Dr. Pradyumn Acharya
 Additional Professor
 Department of Biochemistry
 All India Institute of Medical Sciences
 New Delhi-110029

डॉ. हारिप्रसाद जी (एम.पीएचडी)
Dr. HARIPRASAD G (MD, PhD)
 Professor
 Department of Biophysics
 All India Institute of Medical Sciences
 New Delhi-110029

डॉ. पुनीत कौर / **Dr. Punit Kaur**
 आचार्य एवं अध्यक्ष / Professor & Head
 जैवभौतिक विभाग / Deptt. of Biophysics
 अ.भा.आ.स. / A.I.I.M.S.
 अ.भा.आ.स., नई दिल्ली-29 / Ansari Nagar, New Delhi-29



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 Additional Professor
 Department of Biochemistry
 All India Institute of Medical Sciences, Ansari Nagar, New Delhi-110029

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Dr. PARTHASARATHY CHATTOPADHYAY, MD PhD
Professor
Department of Biochemistry
All India Institute of Medical Sciences, Ansari Nagar, New Delhi-29

Dr. Sabyasachi Bandyopadhyay
वैज्ञानिक-II / Scientist-II
केंद्रीय कोर अनुसंधान सुविधा
Centralized Core Research Facility
अ.भा.आ.स., नई दिल्ली-29/AIIMS, New Delhi-29

Dr. JAYANTH KUMAR MD
अपर आचार्य/Additional Professor
रसायन विभाग/Dept. of Biochemistry
अखिल भारतीय आयुर्विज्ञान संस्थान, नई दिल्ली-29
All India Institute of Medical Sciences, Ansari Nagar, New Delhi-29

Dr. Sudip Sen / Dr. Sudip Sen
आचार्य / Professor
Registered office: 3rd floor, Unit # 9215, 8 Wing, Art Guild House, Phoenix Market City, LBS Road, Vimsaria Media technologies Pvt Limited Kurla West, Mumbai, Maharashtra 400070. Phone: 022 3026 7000
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Dr. SUNIL RANGA
एम.डी. (पैथोलॉजी) / M.D. (Pathology)
आचार्य, परामर्शदाता एवं विभागाध्यक्ष
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All India Institute of Medical Sciences Hospital, New Delhi-110029

Dr. HARIPRASAD. G (MBBS)
Professor
Department of Biophysics
All India Institute of Medical Sciences
New Delhi-110029

Dr. PURVA MATUR
आचार्य (प्रत्येकाल विज्ञान) / Professor (Laboratory Medicine)
अपर आचार्य/Additional Professor
एवं सफदरजंग अस्पताल, नई दिल्ली-110029 एवं सफदरजंग अस्पताल, नई दिल्ली-110029
A.I.J.M.S., Raj Nagar, New Delhi-29

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आचार्य एवं अध्यक्ष / Professor & Head
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 Department of Biochemistry
 All India Institute of Medical Sciences, Ansari Nagar, New Delhi-29

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 वैज्ञानिक-II / Scientist-II
 केंद्रीय कोर रिसर्च फ़ैसिलिटी
 Centralized Core Research Facility
 अ.भा.आ.सं. नई दिल्ली-29/AIIMS, New Delhi-29

Pooja
Dr. Jayanti Kumar MD
 Additional Professor
 Deptt. of Biochemistry
 All India Institute of Medical Sciences, Ansari Nagar, New Delhi-29

Sudip
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 Professor
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Vijay
DR. SUNIL RANGA
 एम.डी. (पैथोलॉजी) / M.D. (Pathology)
 सहायक, प्रमुख सहायक एवं विभागाध्यक्ष
 Professor, Consultant & Head
 Department of Pathology, Esplanade Hospital, New Delhi-110029

Purva
Dr. Purva Mathur
 Associate Professor
 Department of Biochemistry
 All India Institute of Medical Sciences, Ansari Nagar, New Delhi-29

Raghu Acharya
Dr. Pragyan Acharya
 Additional Professor
 Department of Biochemistry
 All India Institute of Medical Sciences
 New Delhi-110029

Hariprasad
Dr. HARIPRASAD. G (MD, PhD)
 Professor
 Department of Biophysics
 All India Institute of Medical Sciences
 New Delhi-110029

Punit
Dr. Punit Kaur
 Associate एवं अध्यक्ष / Professor & Head
 वैज्ञानिक विभाग / Deptt. of Biophysics
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 डॉ. सबासची बंद्योपाध्याय/Dr. Sabyasachi Bandyopadhyay
 वैज्ञानिक-II / Scientist-II
 केंद्रीय शोध अनुसंधान सुविधा
 Centralized Core Research Facility
 अ.भा.आ.सं., नई दिल्ली-29/AIIMS, New Delhi-29

Parthaprasad Chattopadhyay
 Acting Head
 डॉ. पार्थप्रसाद चट्टोपाध्याय, एम पी सीएचडी
 Dr. PARTHAPRASAD CHATTOPADHYAY, MD PhD
 आचार्य/Professor
 जैव रसायन विभाग
 Department of Biochemistry
 अखिल भारतीय आयुर्विज्ञान संस्थान, अंसारी नगर, नई दिल्ली-29
 All India Institute of Medical Sciences, Ansari Nagar, New Delhi-29

Name: Durgesh Dhir
Designation: Regional specialist

Sudip Sen
 डॉ. सुदीप सेन / Dr. Sudip Sen
 आचार्य / Professor
 जैव रसायन विभाग / Department of Biochemistry
 अ. भा. आ. सं., अंसारी नगर/AIIMS, Ansari Nagar
 नई दिल्ली-110029 / New Delhi-110029

Sunil Ranga
 डॉ. सुनील रंगा / DR. SUNIL RANGA
 एम.डी. (पैथोलॉजी) / M.D. (Pathology)
 आचार्य, परामर्शदाता एवं विभागाध्यक्ष
 Professor, Consultant & Head of Department
 रिकृति विज्ञान विभाग / Department of Pathology
 एम.एम.सी. एवं साइदरजुंग अस्पताल, नई दिल्ली-110029
 MMC & Sairdarjung Hospital, New Delhi-110029

Jayanth Kumar
 डॉ. जयन्त कुमार एमडी
 Dr. JAYANTH KUMAR MD
 अपर आचार्य/Additional Professor
 जैव रसायन विभाग/Deptt. of Biochemistry
 अखिल भारतीय आयुर्विज्ञान संस्थान, नई दिल्ली-29
 All India Institute of Medical Sciences, Ansari Nagar, New Delhi-29

Pragyan Acharya
 Dr. Pragyan Acharya
 Additional Professor
 Department of Biochemistry
 All India Institute of Medical Sciences
 New Delhi-110029

Hariprasad G
 Dr. HARIPRASAD. G (MD, PhD)
 Professor
 Department of Biophysics
 All India Institute of Medical Sciences
 New Delhi-110029

Punit Kaur
 डॉ. पुनीत कौर / Dr. Punit Kaur
 आचार्य एवं अध्यक्ष / Professor & Head
 जैवभौतिक विभाग / Deptt. of Biophysics
 अ.भा.आ.सं. / A.I.I.M.S.
 अंसारी नगर, नई दिल्ली-29 / Ansari Nagar, New Delhi-29

Purva Mathur
 डॉ. पूर्वा माथुर/Dr. PURVA MATHUR
 आचार्य (प्रयोगशाला चिकित्सा)
 Professor (Laboratory Medicine)
 शोध प्रकल्प केंद्र अखिल भारतीय आयुर्विज्ञान संस्थान/JPNA Training Centre
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नई दिल्ली-110029 / New Delhi-110029

S. Bandyopadhyay
डॉ. सव्यसाची बंद्योपाध्याय / Dr. Sabyasachi Bandyopadhyay
वैज्ञानिक-II / Scientist-II
केंद्रीकृत कोर अनुसंधान सुविधा
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अ. पा. आ. सं., नई दिल्ली-29 / AIIMS, New Delhi-29

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Dr. Pragyan Acharya
Additional Professor
Department of Biochemistry
All India Institute of Medical Sciences
New Delhi-110029

Hari Prasad
Dr. HARI PRASAD, G (MD, PhD)
Professor
Department of Biophysics
All India Institute of Medical Sciences
New Delhi-110029

Jayanth Kumar
Dr. JAYANTH KUMAR MD
अपर आचार्य / Additional Professor
जीव रसायन विज्ञान विभाग / Dept. of Biochemistry
अखिल भारतीय आयुर्विज्ञान संस्थान, नई दिल्ली
All India Institute of Medical Sciences, Ansari Nagar, New Delhi

Punit
डॉ. पुनीत कौर / Dr. Punit Kaur
आचार्य एवं अध्यक्ष / Professor & Head
जैवभौतिक विभाग / Dept. of Biophysics
अ. पा. आ. सं. / A.I.I.M.S.
अंसारी नगर, नई दिल्ली-29 / Ansari Nagar, New Delhi-29

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आचार्य / Professor
जीव रसायन विभाग
Department of Biochemistry
अखिल भारतीय आयुर्विज्ञान संस्थान, अंसारी नगर, नई दिल्ली-29
All India Institute of Medical Sciences, Ansari Nagar, New Delhi-29

Sunil Ranga
डॉ. सुनील रंगा / DR. SUNIL RANGA
एम.डी. (पथोलॉजी) / M.D. (Pathology)
आचार्य, प्रोफेसरिता एवं विभागाध्यक्ष
Professor, Consultant & Head of Department
विकृति विज्ञान विभाग / Department of Pathology
वीएमसी & सफदरजंग अस्पताल, नई दिल्ली-110029
VMMC & Safdarjung Hospital, New Delhi-110029

Purva Mathur
डॉ. पुरवा मथुर / Dr. PURVA MATHUR
अध्यक्ष (लैबोरेटरी मेडिसिन)
Professor (Laboratory Medicine)
जीव रसायन विभाग / JPHN Trauma Centre
अ. पा. आ. सं., राज नगर नई दिल्ली-110029
A.I.I.M.S., Raj Nagar, New Delhi-29

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Acting Head
 डॉ. पार्थप्रसाद चट्टोपाध्याय, एम डी पीएच
 Dr. PARTHAPRASAD CHATTOPADHYAY, MD PhD
 आचार्य/Professor
 जैव रसायन विभाग
 Department of Biochemistry
 अखिल भारतीय आयुर्विज्ञान संस्थान, अंसारी नगर, नई दिल्ली-29
 All India Institute of Medical Sciences, Ansari Nagar, New Delhi-29

Sabyasachi Bandyopadhyay
 डॉ. सत्यसाची बंद्योपाध्याय/Dr. Sabyasachi Bandyopadhyay
 वैज्ञानिक-II / Colonias-II
 केंद्रीकृत कोर अनुसंधान सुविधा
 Centralized Core Research Facility
 अ.भा.आ.सं., नई दिल्ली-29/AIIMS, New Delhi-29



Pragyan Acharya
 Dr. Pragyan Acharya
 Additional Professor
 Department of Biochemistry
 All India Institute of Medical Sciences
 New Delhi-110029

Hariprasad G
 Dr. HARIPRASAD. G (MD, PhD)
 Professor
 Department of Biophysics
 All India Institute of Medical Sciences
 New Delhi-110029

Jayanth Kumar MD
 डॉ. जयन्त कुमार एमडी
 Dr. JAYANTH KUMAR MD
 अपर आचार्य/Additional Professor
 जैव रसायन विभाग/Dept of Biochemistry
 अखिल भारतीय आयुर्विज्ञान संस्थान, नई दिल्ली-29
 All India Institute of Medical Sciences, Ansari Nagar, New Delhi-29

Punit
 डॉ. पुनीत कौर /Dr. Punit Kaur
 आचार्य एवं अध्यक्ष / Professor & Head
 जैवभौतिक विभाग / Deptt. of Biophysics
 अ.भा.आ.सं. / A.I.I.M.S.
 अंसारी नगर, नई दिल्ली-29 / Ansari Nagar, New Delhi-29

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Sudip
 डॉ. सुदीप सेन / Dr. Sudip Sen
 आचार्य / Professor
 जैव रसायन विभाग / Department of Biochemistry
 अ.भा.आ.सं., अंसारी नगर/AIIMS, Ansari Nagar
 नई दिल्ली-110029 / New Delhi-110029

Sunil Ranga
 डॉ. सुनील रांगा / DR. SUNIL RANGA
 एम.डी. (पैथोलोजी) / M.D. (Pathology)
 आचार्य, परामर्शदाता एवं विभागाध्यक्ष
 Professor, Consultant & Head of Department
 चिकित्सा विज्ञान विभाग / Department of Pathology
 वीएमएमसी एवं सफदरजंग अस्पताल, नई दिल्ली-110029
 VMMC & Safdarjung Hospital, New Delhi-110029

Purva Mathur
 डॉ. पुरवा मथुर / Dr. PURVA MATHUR
 अवर (अतिरिक्त) प्रोफेसर
 Professor (Laboratory Medicine)
 जैव रसायन विभाग / Dept of Biochemistry
 अ.भा.आ.सं., राज नगर नई दिल्ली-110029
 A.I.I.M.S., Raj Nagar, New Delhi-29

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12 Dec 2023

To,
The Director
All India Institute of Medical Sciences
ANSARI NAGAR
NEW DELHI-110 029

SUBJECT: Proprietary statement

Dear Sir

This is to certify that SCIEX make ZenoTOF 7600 LCMSMS with SCIEX OS software is solely manufactured by AB SCIEX Pte Ltd only.

We have attached our CERTIFICATE OF EXCLUSIVITY for this instrument along with this letter.

Thanking you,
Yours truly,



Durgesh Dhir
SCIEX India Private Limited

For SCIEX India Pvt Ltd
Durgesh Dhir
Mobile : +91-9871709203
Email : durgesh.dhir@sciex.com

Pooja
Dr. JAYANTH KUMAR MD
अपर आचार्य/Additional Professor
जैव रसायन विज्ञान विभाग/Dept of Biochemistry
अखिल भारतीय आयुर्विज्ञान संस्थान, नई दिल्ली-29
All India Institute of Medical Sciences, Ansari Nagar, New Delhi-29

Parthaprasad Chattopadhyay
Dr. PARTHAPRASAD CHATTOPADHYAY, MD PhD
अचार्य/Professor
जैव रसायन विभाग
Department of Biochemistry
अखिल भारतीय आयुर्विज्ञान संस्थान, नई दिल्ली-29
All India Institute of Medical Sciences, Ansari Nagar, New Delhi-29

Sabyasachi Bandyopadhyay
डॉ० सव्यसाची बंद्योपाध्याय/Dr. Sabyasachi Bandyopadhyay
वैज्ञानिक-II / Scientist-II
केंद्रीकृत कोर अनुसंधान सुविधा
Centralized Core Research Facility
अ.भा.आ.सं., नई दिल्ली-29/AIIMS, New Delhi-29

Pragyan Acharya
Dr. Pragyan Acharya
Additional Professor
Department of Biochemistry
All India Institute of Medical Sciences
New Delhi-110029

Hariprasad G
Dr. HARIPRASAD. G (MD, PhD)
Professor
Department of Biophysics
All India Institute of Medical Sciences
New Delhi-110029

Punit Kaur
डॉ० पुनीत कौर / Dr. Punit Kaur
आचार्य एवं अध्यक्ष / Professor & Head
जैवभौतिक विभाग / Dept. of Biophysics
अ.भा.आ.सं. / A.I.I.M.S.
नई दिल्ली-29 / Ansari Nagar, New Delhi-29

SCIEX India Private Limited
GST: 27ABKCS3386H1ZV | Regd. Office: Unit No. 9215, B wing, 3rd Floor, Art Guild House, Phoenix Market City,
LBS road, Mumbai, Maharashtra, 400070, India | Tel. No.: +91 22 3026 7000 | India.cs@sciex.com

Sudip
डॉ० सुदीप सेन / Dr. Sudip Sen
आचार्य / Professor
जैव रसायन विभाग / Department of Biochemistry
अ.भा.आ.सं., नई दिल्ली-110029 / New Delhi-110029

Sunil Ranga
डॉ० सुनील रांगा / DR. SUNIL RANGA
एन.डी. (पैथोलोजी) / M.D. (Pathology)
आचार्य, परामर्शदाता एवं विभागाध्यक्ष
Professor, Consultant & Head of Department!
विकृति विज्ञान विभाग / Department of Pathology
वीएमएनएच एवं सफदरजंग अस्पताल, नई दिल्ली-110029
V.M.A.N.C. & Safdarjung Hospital, New Delhi-110029

Purva Mathur
डॉ० पुरवा मथुर / Dr. PURVA MATHUR
अपर (जैवरासायन विज्ञान)
अध्यापिका (Laboratory Medicine)
एन.भा.आ.सं., राज नगर नई दिल्ली-110029
A.I.I.M.S., Raj Nagar, New Delhi-29

12 Dec 2023



To Whomsoever It may concern

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For SCIEX India Pvt Ltd
Durgesh Dhir
Mobile : +91-9871709203
Email : durgesh.dhir@sciex.com

Munawar
Acting Head
डॉ. पार्थप्रसाद चट्टोपाध्याय, एम पी पी
Dr. PARTHAPRASAD CHATTOPADHYAY, MD PhD
आचार्य/Professor
जैव रसायन विभाग
Department of Biochemistry
अखिल भारतीय आयुर्विज्ञान संस्थान, अंसारी नगर, नई दिल्ली-29
All India Institute of Medical Sciences, Ansari Nagar, New Delhi-29

Jayant
डॉ. जयन्त कुमार एमडी
Dr. JAYANTH KUMAR MD
अपर आचार्य/Additional Professor
जैव रसायन विज्ञान विभाग/Dept. of Biochemistry
अखिल भारतीय आयुर्विज्ञान संस्थान, नई दिल्ली-29
All India Institute of Medical Sciences, Ansari Nagar, New Delhi-29

Sabyasachi
डॉ० सव्यसची बंद्योपाध्याय/Dr. Sabyasachi Bandyopadhyay
वैज्ञानिक-II / Scientist-II
केंद्रीकृत कोर अनुसंधान सुविधा
Centralized Core Research Facility
अ.भा.आ.सं., नई दिल्ली-29/AIIMS, New Delhi-29

Pragyan Acharya
Dr. Pragyan Acharya
Additional Professor
Department of Biochemistry
All India Institute of Medical Sciences
New Delhi-110029

Hariprasad G
Dr. HARIPRASAD. G (MD,PHD)
Professor
Department of Biophysics
All India Institute of Medical Sciences
New Delhi-110029

Punit
डॉ. पुनीत कौर /Dr. Punit Kaur
आचार्य एवं अध्यक्ष / Professor & Head
जैवभौतिक विभाग / Deptt. of Biophysics
अ.भा.आ.सं. / A.I.I.M.S.
अंसारी नगर, नई दिल्ली-29/Ansari Nagar, New Delhi-29

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Sudip
डॉ. सुदीप सेन / Dr. Sudip Sen
आचार्य / Professor
जैव रसायन विभाग / Department of Biochemistry
अ. भा. आ. सं., अंसारी नगर/AIIMS, Ansari Nagar
नई दिल्ली-110029 / New Delhi-110029

Sunil Ranga
डॉ० सुनील रांगा / DR. SUNIL RANGA
एच.डी. (पैथोलोजी) / M.D. (Pathology)
आचार्य, परामर्शदाता एवं विभागाध्यक्ष
Professor, Consultant & Head of Department
विकृति विज्ञान विभाग / Department of Pathology
वीएमएमसी एवं सफदरजंग अस्पताल, नई दिल्ली-110029
VMMC & Safdarjung Hospital, New Delhi-110029

Purva
डॉ. पुरवा नथूर / Dr. PURVATHATHUR
अभिज्ञ (प्रयोगशास्त्र)
Professor (Laboratory Medicine)
अ.भा.आ.सं., राज नगर नई दिल्ली-110029
A.I.I.M.S., Raj Nagar, New Delhi-29

October 27, 2023

CERTIFICATE OF EXCLUSIVITY- India

AB Sciex Pte Ltd. ("SCIEX"), a Singapore company with registered offices at 33 Marsiling Industrial Estate Road 3, #04-06, Singapore, 739256, certifies that it is the exclusive manufacturer of the new SCIEX ZenoTOF 7600 mass spectrometer ("system") announced on June 17, 2021.

At launch in 2021, the ZenoTOF 7600 system included for the first time in a commercial instrument a Zeno trap and electron activated dissociation (EAD) fragmentation cell. Zeno trap pulsing overcomes the traditional duty cycle challenges of orthogonal TOF technology, delivering up to 20x the sensitivity and enabling the routine detection of important low-abundant molecules. In combination, tunable EAD fragmentation ensures novel structural information can be extracted and quantified from diverse compound types – a capability that is not currently possible by using high resolution alone. As of the date of this letter SCIEX believes that the Zeno trap and EAD cell are only available in combination in the ZenoTOF 7600 system.

The Zeno trap is described in more detail in US 7,456,388 and the EAD fragmentation cell is described in US 10,014,166, along with additional patents and patent families that cover these components.


The ZenoTOF 7600 system currently includes additional features and components and there are additional patents, patent applications and copyright that relate to the SCIEX mass spectrometry architecture in certain jurisdictions and SCIEX reserves all rights in this regard.

Should additional clarification be required, please do not hesitate to contact me.


Sincerely yours,


Naomi Diaz
Sr. Product Manager, Accurate Mass Portfolio


डॉ. जयन्त कुमार एमडी
Dr. JAYANTH KUMAR MD
अपर आचार्य/Additional Professor
जैव रसायन विभाग/Dept. of Biochemistry
अखिल भारतीय आनुवंशिक संस्थान, नई दिल्ली-29
All India Institute of Medical Sciences, Ansari Nagar, New Delhi-29


डॉ. सव्यसाची बन्धोपाध्याय/Dr. Sabyasachi Bandyopadhyay
वैज्ञानिक-II / Scientist-II
केंद्रीकृत कोर अनुसंधान सुविधा
Centralized Core Research Facility
अ.भा.आ.सं. नई दिल्ली-29/AIIMS, New Delhi-29


डॉ. पार्थाप्रसाद चट्टोपाध्याय, एम डी पीएच
Dr. PARTHAPRASAD CHATTOPADHYAY, MD PhD
आचार्य/Professor
जैव रसायन विभाग
Department of Biochemistry
अखिल भारतीय आनुवंशिक संस्थान, अंसारी नगर, नई दिल्ली-29
All India Institute of Medical Sciences, Ansari Nagar, New Delhi-29


Dr. HARIPRASAD. G (MD, PhD)
Professor
Department of Biophysics
All India Institute of Medical Sciences
New Delhi-110029




Dr. Pragyani Acharya
Additional Professor
Department of Biochemistry
All India Institute of Medical Sciences
New Delhi-110029

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डॉ. सुदीप सेन / Dr. Sudip Sen
आचार्य / Professor
जैव रसायन विभाग / Department of Biochemistry
अ. भा. आ. सं., अंसारी नगर / AIIMS, Ansari Nagar
नई दिल्ली-110029 / New Delhi-110029


डॉ. सुनील रांग / DR. SUNIL RANGA
एम.डी. (पैथोलॉजी) / M.D. (Pathology)
आचार्य, परामर्शदाता एवं विभागाध्यक्ष
Professor, Consultant & Head of Department
पेथोलॉजी विभाग / Department of Pathology
सैफदरजंग अस्पताल, नई दिल्ली-110029
Safdarjung Hospital, New Delhi-110029


डॉ. पुनीत कौर / Dr. Punit Kaur
आचार्य एवं अध्यक्ष / Professor & Head
जैवभौतिक विभाग / Deptt. of Biophysics
अ.भा.आ.सं. / A.I.I.M.S.
अंसारी नगर, नई दिल्ली-29 / Ansari Nagar, New Delhi-29