



**All-India Institute of Medical Sciences
Ansari Nagar, New Delhi-29.**

(STORES SECTION (DO))

Dated: 25.11.2016

Ref. No.33/Stores (DO)/E&MPAC/2016-17/FSC

Subject: Proposal for purchase of HPLC/MS/MS (Sciex QTRAP 6500 + System) on Proprietary basis (PAC) for department of E&M t AIIMS - Inviting comments thereon.

The Institute is in the process to purchase HPLC/MS/MS (Sciex QTRAP 6500 + System) on Proprietary basis (PAC) for department of E&M at AIIMS, New Delhi-110 029 from M/s.Sciex Pte. Ltd., Singapore (OEM) through their authorized Indian subsidiary Agent M/s.Sciex (A Division of DHR Holding India Pvt. Ltd., Haryana). The proposal submitted by M/s.Sciex (A Division of DHR Holding India Pvt. Ltd., Haryana), PAC certificate, quotation and other related documents are attached for ready reference.

The above documents are being uploaded for open information to submit objections, comments, if any, from any manufacturer regarding proprietary nature of the equipment/item within issue of 15 days giving reference **Ref. No.33/Stores (DO)/E&M/PAC/2016-17/FSC**. The comments should be received by office of Sr. Stores Officer, Stores Section (DO), Animal House Building, Near Biotechnology Building at AIIMS on or before **10.12.2016 upto 12.30 p.m.**, failing which it will be presumed that any other vendor is having no comment to offer and case will be decided on merits.

Yours faithfully,


25.11.16
SR. STORES OFFICER

Encl: Related documents enclosed.

DEPARTMENT OF ENDOCRINOLOGY & METABOLISM, AIIMS, NEW DELHI.

Technical specifications for purchase on proprietary basis of
Hybrid Triple Quadrupole Linear Ion Trap Mass Spectrometers With Axial Ion Ejection
for the patient care Hormone Immunoassay Service Laboratory in the
department of Endocrinology & Metabolism, AIIMS, New Delhi.

APPLICATION

- 1) Sensitive and specific, simultaneous quantification of multiple different steroid hormones namely 17-OH-Progesterone, Cortisol, Testosterone, Androstenedione, DHEAS, DHEA, Corticosterone, 11-Deoxycortisol, Progesterone, Estradiol and 25 (OH) vit D are essential, in a single run in patient's serum for routine patient care endocrine laboratory.
- 2) Sensitive and specific quantification of 1,25 di(OH) vitamin D and/or its precursors /metabolites in patient's serum for routine endocrine patient care.
- 3) Analysis & quantification of Peptide mixtures, Lipids, Small Molecules and Metabolites etc.

SPECIFICATIONS

- 1) Ability to carry out Multiple Reaction Monitoring scans (MRM3), MS3 scans, targeted analysis, for highly sensitive and specific quantitation of steroid hormones for patient care and to determine their structure to enable identification of molecules in order to eliminate potential false positive or negative results in patients samples – is essential without compromise.
- 2) Ion mobility as a part of the module is essential with control of the ion mobility device through software.
- 3) Pre-configured method ready available for sample preparation conditions, LC and MS conditions, analyte information, representative data, reagent order information, and specifications, for 17-OH-Progesterone, Cortisol, Testosterone, Androstenedione, DHEAS, DHEA, Corticosterone, 11-Deoxycortisol, Progesterone, Estradiol and 25 (OH) vit D, for application on the LC-MS/MS system quoted is essential without compromise.
- 4) It is essential that the Pre-configured method must be sensitive and specific, without requiring derivatization of analyte, use 500 uL or less of patients serum, and in a single run be able to perform simultaneous quantitation of 17-OH-Progesterone, Cortisol, Testosterone, Androstenedione, DHEAS, DHEA, Corticosterone, 11-Deoxycortisol, Progesterone, Estradiol and 25 (OH) vit D.
- 5) Essential to provide Pre-configured software for application on the machine model quoted for single run analysis of patient serum for 17-OH-Progesterone, Cortisol, Testosterone in males and females, Androstenedione, DHEAS, DHEA, Corticosterone, 11-Deoxycortisol, Progesterone, Estradiol,

Shankar Singh Janded Vignani Manshetti

25 OH Vitamin D. (All the software required for the qualitative and quantitative analysis of peptides, proteins and small molecules including lipids and steroids must be quoted. The software should be upgraded free within the warranty period)

6) Ionization Source - a) Nanospray Source for Nano LC applications with flow rate of 100-1000 nL/min or better without Splitting.

b) ESI and c) APCI (electrospray ionization sources should be able to handle flow rate from 5 µL/min to 3000 µL/min (or better) without flow splitting with desolvation temperature upto 750° Celsius.

7) Mass Stability - 0.1 Da over 24 hours

8) Mass Sensitivity - In ESI Positive MRM mode on the transition m/z 609 to195 for a 1 pg reserpine injection on column, at unit mass resolution (0.7 ± 0.1 amu at half height), the instrument must have a S/N > 500,000:1 or better

- In ESI Negative MRM mode on the transition m/z 321 to152 for a 1 pg chloramphenicol injection on column, at unit mass resolution (0.7 ± 0.1 amu at half height), the instrument must have a S/N >150,000:1 or better.

Sensitivity data MUST correlate with the original specification sheet of the vendor.
No supporting lab data will be entertained in this regard

9) Linear dynamic mass range - 6 orders of magnitude or more.

10) Mass range (quadrupole) - 5-2000 Da or better

11) Mass resolution - In Triple Quad mode - 0.5 ± 0.1 amu at half height.
In Linear Ion Trap Mode - 6146 at m/z >900

12) Polarity change - 5 msec or less

13) Scan Speed - 20,000 Da/sec or more

14) MS³ capability - In a linear ion trap mode

15) Targeted analysis - SRM and MRM

16) Linear ion trap MS³ sensitivity - S/N > 200 : 1 c 50 fg reserpine

17) Quantification - MS³, SRM and MRM

18) Ultra High Pressure Liquid Chromatography + UV detector

Binary Gradient solvent delivery system, degasser with 5 channels or more, auto-sampler (over 100 vials/96 well plates (4 - 40 °C), column oven (up to 80°C), flow-rate (0.1 - 2.0 ml/min, >18000 psi, $\pm 1\%$ accuracy),

Columns

a) Reverse Phase Column - ID: 3 mm, Length 100 mm, Particle size < 3 µm. Quantity - 6 pcs

b) Nano LC analytical column:

Reverse Phase C18 Column ID: 75 µm, Length: 15 cm, Particle size: 3 µm. Quantity 4 Pcs

c) Nano LC trap column:

Reverse Phase C18 trap - ID: 350 µm, Length: 0.5 mm, Particle size: 3 µm. Quantity 2 pcs.

Shantanu Singh
hmt
Yip
7/20/2017
for
sign
Signature
Mandate

19) **2D-Nano FPLC** - Gradient solvent delivery system without Splitting, degasser, auto-sampler (with cooling), flow-rate (100 – 2000 nl/min, =10,000psi or better, 0.05% carryover)

20) **Online UPS** – 10 Kva with 30 mts backup; APC make

21) Original and licensed universal software, branded computers and workstations and all interfacing hardware and software for instrument control, data acquisition and data processing must be supplied and which must be compatible with the LC-MS/MS system offered by the vendor.

22) The manufacturer supplied console should come with the necessary software loaded for operation, data collection and data Processing

23) **Branded computers as specified** – Computers (2 in number) for operation and software,

1) **Computer 1** - Dell OptiPlex XE2 Intel Core i5-4570S Processor; 32 Gb DDR3 1600Mhz SDRAM 2*2Tb HDD with RAID 1 Configuration, DVD RW (CD RW capable), , Built In DisplayPort Video (with DVI adapter) capable of a maximum digital resolution of 1920x1200. Computer imaging with Windows 7 Professional 64-bit with Dell wide screen monitor.

2) **Computer 2** - Dell Precision T7910 XL processor: E5-2667 v3 (8C HT, 20MB Cache, 3.2GHz Turbo); RAM: 32GB (4x8GB) 2133MHz DDR4 RDIMM ECC; 4x2TB SATA 7.2k RPM HDD; 512MB NVIDIA Quadro NVS 310 (2DP) (2DP-DVI adapter).

Colour laser printer with scanning and copying accessories (Colour laser printer with scanning and copying accessories(Canon/HP); Max Print Resolution (Colour) 4800 x 1200 dpi; Print, Scan, Copy, Fax.

24) Windows based software must be provided for 1) Machine control, 2) Data collection and data processing (two perpetual licenses) 3) Single and multiple reaction monitoring, 4) Automatic MS/MS data collection

25) Additional vacuum pumps, (0.4 – 1.1 X 10⁻⁵ torr) gas generators (Curtain Gas (Nitrogen) 18 L/min @ 80 psi ; Source Gas (Dry Air) 26 L/min @ 110psi ; Exhaust Gas (Dry Air) 25 L/min @ 60psi to be kept in utility room away from the machine environment), Calibration kits, tool kits.

All the accessories and kits should be provided for the successful demonstration of specifications.

NOTE: The vendors should specify the system performance parameters clearly and all the specification quoted should be available in their product data sheet – company brochure. Any claims of specifications that are not available in the company brochure will not be accepted.

26) Installation and on-site operational training courses free of cost.

27) Two trained persons should be provided for the first three years to operate the machine.

28) Five years warranty must be provided for the HPLC + mass spec system and all other accessories including third party items

Janded

Hand

h

h

Wignat

Shanta Gupta

Sh

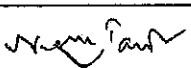

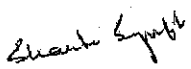
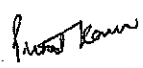
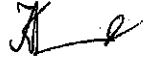
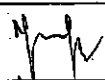


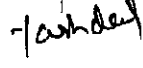
Navakite

29) Comprehensive post warranty CMC must be quoted for 5 years after the expiry of the warranty.

30) 95% uptime in a calendar year should be guaranteed. Default will invite a fine of 0.05% instrument cost per day. The reporting time is 24h. The time taken for Import after the Import order has been placed till the consignment is received will not be counted as default time

31) Service Centre Availability Delhi/NCT -

32) User-list of similar Instruments in India

	NAME & ADDRESS		SIGNATURE
1	Dr Nikhil Tandon Professor & Head Dept. of Endocrinology & Metabolism AIIMS, New Delhi	Chairperson & Representative of SPC	
2	Dr. Nandita Gupta Professor, Dept. of Endocrinology & Metabolism AIIMS, New Delhi	Concerned Faculty	
3	Dr Shantanu Sengupta Principal Scientist Rm # 201, CSIR Institute of Genomics and Integrative Biology; Mathura Road, Sukhdev Vihar, New Delhi 110020	Member & External Expert	
4	Dr Puneet Kaur Professor & Head Department of Biophysics AIIMS, New Delhi	Member & Head of Dept. of Related Discipline	
5	Dr Krishna Biswas Associate professor and HOD Dept. of Endocrinology & Metabolism Safdarjung hospital New Delhi	DGHS nominee	
6	Dr Nirupam Madaan Assistant professor AIIMS, New Delhi	For Medical Superintendent, AIIMS	
7	Dr R Khadgavat Professor Dept. of Endocrinology & Metabolism AIIMS, New Delhi	Member	
8	Dr VP Jyotsna Professor Dept. of Endocrinology & Metabolism AIIMS, New Delhi	Member	
9	Dr Yashdeep Assistant Professor Dept. of Endocrinology & Metabolism AIIMS, New Delhi	Member	

JUSTIFICATION

For purchase on proprietary basis of Hybrid Triple Quadrupole Linear Ion Trap Mass Spectrometer With Axial Ion Ejection - for patient care hormone assay service laboratory in the department of Endocrinology & Metabolism, AIIMS, New Delhi.

High-performance liquid chromatography tandem mass spectrometry (LC-MS/MS) is the current state of art and gold standard technique for quantitation of all steroid hormones including Adrenal hormones and sex steroids, 25 (OH) vitamin D & its metabolites as well as catecholamines and/or their metabolites and other small molecules like lipids, peptides etc.

The hybrid triple quadrupole linear ion trap mass spectrometers with axial ion ejection is the best type of mass spectrometer for measurement of steroid hormones in serum because: (i) Multiple Reaction Monitoring scans (MRM) can be done on this, which are established to be the most sensitive and specific mass-spectrometry experiment to **quantitate** multiple precursor ions and (ii) MS3 scans can also be done on this which determines the **structure** of unknown compounds. (*Wooding & Auchus 2013; Mass Spectrometry Theory and Application to Adrenal Diseases; Mol Cell Endocrinol vol 371 pg 201-207*)

Performing of MRM3 scan mode combined with MS3 scan modes is only possible on this AB SCIEX QTRAP 6500 plus Triple Quad LC/MS/MS system because this is a hybrid machine in which the triple quadrupole arrangement can also function as a Linear ion-trapping quadrupole. This hybrid QTRAP 6500 plus Triple Quad enables the MRM3 scan mode which provides **quantitative** data with the **highest sensitivity and speed**, & at the same time can also perform in the MS3 scan mode which provides **qualitative** structural data. Combined **quantitative** MRM3 scan with MS3 scan for **structure** results in greatly increased specificity while eliminating false positive and negative results in patients samples and also gives additional selectivity.

Combination of MRM3 and MS3 scans when used with ion mobility technology result in the most highly sensitive and highly specific results for steroid hormone measurement. Use of the Ion mobility technology Selexion, reduces chemical background, and chromatographic interferences for the analysis of steroids and other molecules in serum samples, resulting in a net gain in signal-to-noise.

The AB SCIEX QTRAP 6500 plus Triple Quad LC/MS/MS system as well as their Ion-mobility devise Selexion, are exclusive & proprietary technologies of AB SCIEX and are patented. **[The Patent Numbers for the these technologies on the original company letterhead are attached]**

Additionally, AB SCIEX has ready pre-configured & validated methods for sample preparation conditions and LC and MS conditions with required software, for simultaneous quantitation in a single patient's serum sample, of steroid hormones like 17-OH-Progesterone, Cortisol, Testosterone in males and females, Androstenedione, DHEAS, DHEA, Corticosterone, 11-Deoxycortisol, Progesterone, Estradiol, 25 OH Vitamin D, that are essential for clinical diagnosis in patients with endocrine diseases in our department.

Their method is without any derivatization step and measures all steroid hormones listed above **in a single run** using only 200 uL of patients serum.

ganded

Sarabjit Singh
Puri

9/12

9/12



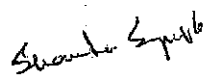
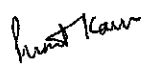

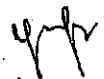


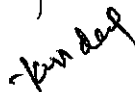
9/12

9/12

Handwritten signature

Continued on next page...

This pre-configured & validated method will save us many weeks/months of time otherwise required to standardize our LC method conditions and the MS conditions. Multiplexing of 10 steroid hormone measurements in a single run, using small sample volumes, will combine the sensitivity & specificity required with the throughput, and measure many steroids simultaneously & rapidly.

	NAME & ADDRESS		SIGNATURE
1	Dr Nikhil Tandon Professor & Head Dept. of Endocrinology & Metabolism AIIMS, New Delhi	Chairperson & Representative of SPC	
2	Dr. Nandita Gupta Professor, Dept. of Endocrinology & Metabolism AIIMS, New Delhi	Concerned Faculty	
3	Dr Shantanu Sengupta Principal Scientist Rm # 201 CSIR Institute of Genomics and Integrative Biology; Mathura Road, Sukhdev Vihar, New Delhi 110020	Member & External Expert	
4	Dr Puneet Kaur Professor & Head Department of Biophysics AIIMS, New Delhi	Member & Head of Dept. of Related Discipline	
5	Dr Krishna Biswas Associate professor and HOD Dept. of Endocrinology & Metabolism Safdarjung hospital New Delhi	DGHS nominee	
6	Dr Nirupam Madaan Assistant professor AIIMS, New Delhi	For Medical Superintendent, AIIMS	
7	Dr R Khadgavat Professor Dept. of Endocrinology & Metabolism AIIMS, New Delhi	Member	
8	Dr VP Jyotsna Professor Dept. of Endocrinology & Metabolism AIIMS, New Delhi	Member	
9	Dr Yashdeep Assistant Professor Dept. of Endocrinology & Metabolism AIIMS, New Delhi	Member	

**DEPARTMENT OF ENDOCRINOLOGY & METABOLISM
AIIMS, NEW DELHI**

MINUTES OF THE TECHNICAL SPECIFICATION COMMITTEE MEETING

A technical specification committee meeting was held on 18th October 2016 at 4.00 pm in the conference room of Department of Endocrinology & Metabolism to discuss the technical specifications for purchase of the following equipment on proprietary basis: **Hybrid triple quadrupole linear ion trap mass spectrometers with axial ion ejection** for patient care hormone assay service laboratory in the department of Endocrinology & Metabolism at AIIMS.

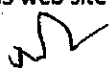
1) The members unanimously agreed on the technical specifications which are given as an attachment (Annexure 1).

The members also unanimously agreed that :

2) For the specific requirements of the Department of Endocrinology & Metabolism at AIIMS namely for very specific and sensitive quantitation of all required steroid hormones and their metabolites including Adrenal hormones, sex steroids, 25 (OH) vitamin D & its metabolites - (HPLC-MS/MS) or High-performance liquid chromatography combined with **Hybrid triple quadrupole linear ion trap mass spectrometers with axial ion ejection used in association with ion mobility technology (Selexion)** is the best technical combination, and the specifications agreed are the best and mandatory.

3) Some of the major technical specifications approved are mandatory for the application for which the machine is being purchased, and are unique to one company only and hence this equipment (HPLC-MS/MS) is best procured based on 'Proprietary basis' rather than tendering since tendering will not serve any useful purpose and will delay the procurement.

The technical specifications are forwarded to the stores for immediate upload on the AIIMS web site as per AIIMS guidelines for procurement under proprietary basis.


Dr Nikhil Tandon
Professor & Head
Department of Endocrinology & Metabolism
AIIMS, New Delhi

Chairperson & representative of SPC

Dr. Nandita Gupta
Professor,
Dept. of Endocrinology & Metabolism
AIIMS, New Delhi

Concerned faculty



Dr Shantanu Sengupta
Principal Scientist
Rm # 201
CSIR Institute of Genomics and Integrative Biology
Mathura Road,
Sukhdev Vihar, New Delhi 110020

Shantanu Sengupta
Member & External Expert

Dr Puneet Kaur
Professor & Head
Department of Biophysics
AIIMS, New Delhi

Puneet Kaur
Member
& Head of Dept. of related discipline

Dr Krishna Biswas
Associate professor and HOD
Department of Endocrinology & Metabolism
Safdarjung hospital
New Delhi

[Signature]
DGHS nominee

Dr Nirupam Madaan
Assistant professor
AIIMS, New Delhi

[Signature]
For Medical Superintendent, AIIMS

Dr R Khadgavat
Addl. Professor
Department of Endocrinology & Metabolism
AIIMS, New Delhi

[Signature]
Member

Dr VP Jyotsna
Professor
Department of Endocrinology & Metabolism
AIIMS, New Delhi

[Signature]
Member

Dr Yashdeep
Assistant Professor
Department of Endocrinology & Metabolism
AIIMS, New Delhi

Yashdeep Gulk
Member


**DEPARTMENT OF ENDOCRINOLOGY & METABOLISM
AIIMS, NEW DELHI**


ATTENDANCE SHEET


Technical specification committee meeting held on 18th October 2016

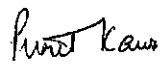
A technical specification committee meeting was held on 18th October 2016 at 4.00 pm in the conference room of Department of Endocrinology & Metabolism for purchase on proprietary basis of hybrid triple quadrupole linear ion trap mass spectrometers with axial ion ejection for patient care hormone assay service laboratory.

The following members attended the meeting :



Dr Nikhil Tandon
Professor & Head
Department of Endocrinology
& Metabolism, AIIMS, New Delhi,
Chairperson & representative of SPC



Dr Nandita Gupta
Professor
Department of Endocrinology
& Metabolism, AIIMS
Concerned faculty



Dr Shantanu Sengupta
Principal Scientist
CSIR Institute of Genomics
& Integrative Biology
Sukhdev Vihar, New Delhi
Member & External Expert

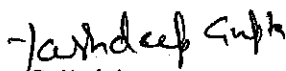

Dr Puneet Kaur
Professor & Head
Department of Biophysics
AIIMS, New Delhi
Head of Dept. of Related discipline


Dr Nirupam Madaan
Assistant professor
For Medical Superintendent, AIIMS


Dr Krishna Biswas
Associate professor and HOD
Department of Endocrinology &
Metabolism; Safdarjung hospital
DGHS nominee


Dr R Khadgavat
Addl. Professor
Member


Dr VP Jyotsna
Addl. Professor
Member


Dr Yashdeep
Addl. Professor
Member

Department of Endocrinology & Metabolism, AIIMS





71 Four Valley Dr.
Concord, Ontario, Canada
L4K 4V8

CERTIFICATE OF EXCLUSIVITY

CERTIFIES:

That AB Sciex Pte Ltd., a Singapore company with registered offices at 33 Marsiling Industrial Estate Road 3, #04-06, Singapore, 739266, with manufacturing facilities in Singapore ("SCIEX") is the exclusive manufacturer and supplier of the QTRAP 5500 LC/MS/MS System and the QTRAP 6500+ LC/MS/MS System, a hybrid triple quadrupole - linear ion trap system and the SelexION ion mobility device which has at least the following unique characteristics and related patents:

Patents Primarily Related to the Ion Source

7,462,828
7,258,396
7,098,452
6,759,660
6,534,765

Patents Primarily Related to the Ion Trap

7,227,137
7,227,130
7,199,381
7,080,972
7,049,680
7,041,987
7,019,280
6,809,089
6,720,654
6,703,807
6,627,876
6,504,148

Patents Primarily Related to Other Aspects of the Instrument


8,026,479
7,548,818
7,417,223
7,351,957
7,351,856
7,008,174
6,590,204

Patents Primarily Related to the SelexION® Ion Mobility Device

US 9171711 "Method and system for vacuum driven mass spectrometer interface with adjustable resolution and selectivity"
US 8513600 "Method and system for vacuum driven mass spectrometer interface with adjustable resolution and selectivity"
US 8084738 "Method and system for vacuum driven differential mobility spectrometer/mass spectrometer interface with adjustable resolution and selectivity"
US 9426031 "Method and system for providing a modifier to a curtain gas for a differential mobility spectrometer"
US 7838822 "Linear FAIMS power supply"
US 8360212 "Ion optics drain for ion mobility"

*NOTE: The above is not a complete list, but provides a general picture of the proprietary technologies in our systems.

Should additional clarification be required, please me at mauro.aiello@sciex.com


Mauro Aiello, Ph.D.
Sr Product Manager, Nominal Mass Portfolio









www.sciex.com

**ALL INDIA INSTITUTE OF MEDICAL SCIENCES
ANSARI NAGAR : NEW DELHI: 110029**

PROPRIETRY/SPECIFICATION BRAND GOODS CERTIFICATE

Dated - 18th Oct 2016

- | | |
|--|---|
| 1. Item/Type/Model No. required along with specification. | AB SCIEX QTRAP 6500 Plus Triple Quad LC/MS/MS system |
| 2. If the item a spare part attachment or accessory for an existing equipment. | No, it is a HPLC - MS/MS machine |
| 3. Name of the manufacturer/supplier of the item proposed by the Indenter. | M/s AB SCIEX Pte Ltd., Singapore is sole manufacturer |
| 4. Are they sole manufacturer/sold distributor of the item | Yes - sole manufacturer - |
| 5. If there any other item with similar /equivalent specification available in the market to meet the job requirement envisaged. If the answer is yes, why the same can't be procured. Demanding officer should bring out comparative functional advantages /cost effectiveness of the recommended item from these offered by other. | No |
| 6. What were the efforts made to located alternative source of supply or use other substitutes. | Internet-M/s AB SCIEX Pte Ltd., Singapore is the sole manufacturer of this Instrument, to the best of our knowledge |
| 7. Why open/limited tender can't be resorted to, for locating alternative source. | Because there is no other manufacture with the equivalent or required specifications, to the best of our knowledge. |
| 8. Are the proprietary items certifying that the rates are reasonable or not. | Yes proprietary items & the rates are reasonable. |
| 9. Any other justification for procuring item from the single source. | M/s AB SCIEX Pte Ltd., Singapore is the sole manufacturer of this Instrument as per our best knowledge |

Mandite
Signature of Indenter
(Demanding Office)

Mam
(Countersigned)
(Head of the Department)

I certify that the item at Sr. No. 1 above is required to be procured on single tender basics as the source of supply is definitely known / the specified brand proposed was advantages in meeting our functional requirement and limited tender system could be dispensed with as they would serve no useful purpose in this particular case.
(strike out whichever is not applicable)

Handed

As certified by the Dept.

Shanku Singh

YH

J

h

h

Mandite



Ref: ABS/SG/USD/AIIMS/006

Date: November 15, 2016

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

Kind Attn: Dr. Nandita Gupta

Ref : Quotation of 6500+ QTRAP with Accessories

Dear Sir,

This has reference to your above mentioned enquiry.

Please find enclosed herewith Offer for Sciex Model 6500+ QTRAP system, Exion AD LC system along with other accessories.

Installation & Training : The installation of the offered items will be done at your site by our engineers, application scientist and operational training will be given to your persons at your site free of cost

Warranty : The quoted Instrument carries a warranty for 60 months from the date of installation as per the tender specifications

SCIEX Support Centre in India: SCIEX has a state of the art "Centre of Excellence" at Gurgaon where we have installed all the LC MS/MS systems for demonstration, training & troubleshooting. We have 9 factory trained service engineers at Gurgaon to cater the service needs of our install base in North. Apart from the engineers, we have 10 application scientists working at our facility. All of them are well trained in the different application areas of mass spectrometry and has several years of experience to support & train the customer.

In case you require any further information/ clarification, please do contact us. You are assured of our best attention and services always.

Thanking you,

SCIEX
YOUNG & RUBICAM DHR HOLDING INDIA PVT. LTD.)
121, Udyog Vihar, Phase-IV
Gurgaon-122015
(A Division of DHR Holding India Pvt. Ltd)

Sarthak Gupta
Area Manager Sales
Mobile : 09650583820
Email : Sarthak.gupta@sciex.com

A Division of DHR Holding India Pvt. Ltd.
Head Office: 121, Udyog Vihar, Phase-4, Gurgaon-122015, Haryana, India. P +91124 6734000 F +911246734199

www.sciex.com



Customer Address

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

Validity: 3 months
Delivery: Within 6 weeks after receipt of L/C by our Principals
Payment: 100% Via LC
Country of Origin: USA and/or Singapore and/or EEC and/or Japan and/or Mexico and/or China.
Port of shipment: Netherland, Singapore

Ref: Quotation of 6500+ QTRAP with Accessories

Technical Bid

Order On:

AB Sciex Pte Ltd.
AB SCIEX (Distribution) Division
Blk 33, #04-06, Maralling Industrial Estate Road 3
Singapore 739256

Bank Details:

Our Banker Details: Acct. no.: 54674017
Bank of America NA
2 King Edward Street Account name: AB SCIEX PTE LTD
London, EC1A 1HQ
SWIFT: BOFAGB22
IBAN : GB92 BOFA 1650 5054 6740 17
Branch Code: 6008

Sl.No.	Part Number	Description	Qty.	Unit Price (USD)	Total Price (USD)
1.	5039926	<p>SCIEX QTRAP 6500+ System</p> <p>Enhanced high performance hybrid triple quadrupole/linear ion trap LC/MS/MS mass spectrometer.</p> <p>Standard parts and labour warranty for one year starting from the completion of instrument commissioning. Includes our StatusScope Remote Monitoring Service and one no-charge Preventative Maintenance (PM) during the one-year warranty period.</p> <p>IonDrive™ Turbo V Source that accepts either the TurboIonSpray Probe or APCI Probe</p> <p>TurboIonSpray Probe</p> <p>Heated IonSpray probe for use in the IonDrive™ Turbo V Source. Accepts flow rates from 5 to 3000 ul/min without splitting. Ideal for quantitation at high sensitivity and high flow rates.</p>	01		

SCIEX
(A Division of DHR HOLDING INDIA PVT. LTD.)
121, Gurgaon Vihar, Phase-IV
Gurgaon - 122015
Haryana

Manufacturer reserves the right to change the part numbers without prior notice

Page 2 of 12

www.sciex.com



SI.No.	Part Number	Description	Qty.	Unit Price (USD)	Total Price (USD)
		<p>APCI Probe</p> <p>Atmospheric Pressure Chemical Ionization probe for use in the Ion Drive™ Turbo V Source. Useful for ionization of small polar and neutral molecules. Accepts flow rates from 200 to 3000 ul/min.</p> <p>Analyst Software with 2 Licenses</p> <p>Analyst 1.6.3 Software kit with DVD, documentation and 2 licenses. Includes one Processing Workstation License and one Acquisition Workstation License.</p> <p>MultiQuant V.3.0.2 with SMRM Software License</p> <p>MultiQuant™ Software provides a comprehensive package for quantitation of small molecule compounds, large molecule biomarkers and biopharmaceuticals on all SCIEX LC-MS systems. It supports the analysis of large numbers of samples, peptides and MRM transitions in addition to the MIDAS™ Workflow, Scheduled MRM™ Algorithm assays, and labeled and unlabeled workflows for relative and absolute quantitation. The advanced SignalFinder™ integration algorithm is included. MultiQuant™ Software version 3.X is compatible with both Microsoft Windows XP and Windows 7 Operating systems. One perpetual license (no software DVD).</p> <p>One standard wet pump kit (roughing pump).</p> <p>OptiPlex XE2 Computer with WIN 7 for Embedded Systems with Image Software</p> <p>"Dell OptiPlex XE2 Intel Core i5-4570S Processor</p> <p>8 Gb DDR3 1600Mhz SDRAM</p>			

Handwritten signature

SCIEX
(A Division of DEHR HOLDING INDIA PVT. LTD.)
121, Udaya Vihar, Phase-IV
Gurgaon - 122015
Haryana

Handwritten signature

Manufacturer reserves the right to change the part numbers without prior notice

Page 3 of 12

www.sciex.com



Sl.No.	Part Number	Description	Qty.	Unit Price (USD)	Total Price (USD)
		<p>2*2Tb HDD with RAID 1 Configuration</p> <p>DVD RW (CD RW capable), 3 Ethernet ports, 2 single port Broadcom cards. Built in DisplayPort Video (with DVI adapter) capable of a maximum digital resolution of 1920x1200.</p> <p>Laser 6-button mouse and keyboard.</p> <p>The computer is imaged with Windows 7 Professional 64-bit (32-bit image is available).</p> <p>This PC is RoHS compliant and can be used as an acquisition workstation or stand-alone processing computer.</p> <p>Standard Monitor</p>			
2.	5036666	<p>ExionLC AD System</p> <p>Component based high performance UHPLC system. Includes the following ExionLC components: ExionLC Controller, ExionLC Degasser, ExionLC Tray, 2 x ExionLC AD Pumps, ExionLC AD Autosampler, ExionLC AD Column Oven. The package includes 5 solvent bottles, 5 vented caps and solvent lines, Auxilliary I/O synch cable and a 20µl binary micro mixer module.</p> <p>This package includes:</p> <ul style="list-style-type: none"> • 5036643 - ExionLC Controller module (qty 1) • 5036646 - ExionLC Degasser (qty 1) • 5036653 - ExionLC AD Pump (1300 bar pressure limit) (qty 2) • 5036654 - ExionLC AD Autosampler (qty 1) • 5036656 - ExionLC AD Oven (qty 1) • 5036645 - ExionLC Solvent Tray (qty 1) • 4465784 - Solvent bottles with vented caps 	01		

Handwritten signature

SCIEX
(A Division of DHR HOLDING INDIA PVT. LTD.)
Plot No. 12, Gurgaon Vihar, Phase-IV
Gurgaon - 122015
Haryana

Handwritten signature

Manufacturer reserves the right to change the part numbers without prior notice

Page 4 of 12

www.sciex.com



Sl.No.	Part Number	Description	Qty.	Unit Price (USD)	Total Price (USD)
		(qty 5) • 5032654 - Auxiliary I/O synch cable (qty 1) • 4463857 - 20 µL Micro Mixer (qty 1)			
3	5029863	Peak Scientific Infinity 1031 Gas Generator Wall mountable Gas Generator designed to provide the Curtain, Source and Exhaust pump gases for all SCIEX mass spectrometers (except medical devices). Technical Specifications: Curtain Gas (Nitrogen) 18L/min, Source Gas (Zero Air) 26L/min, Exhaust Gas (Air) 25L/min. Dimensions: (HxWxD) 76x25x20cm (30x10x8ins), Weight: 13kgs (29lbs).	01		
4.	5007762	iMethod™ Test for Steroid Panel Version 1.0 for Cliiquid® Software	01		
5.	TRN00164	Training	01		
6.	5039929	SelextION Device Kit for 5500 - AMCR SelextION+ Ion Mobility Technology kit for 6500+ systems. The SelextION+ Technology for 6500+ systems can be used for applications requiring the separation of isobaric species, isolation of challenging co-eluting contaminants and reduction of high background noise. Initial installation will be performed by an SCIEX Service engineer.	01		
7.	5020321	Expert nanoLC 425 2D Nano LC System Bundle Consists of nanoLC 425 pump with two gradient pumps with nano flow modules + one loading pump (1-50 µL), solvent organizer and nanoLC 400 autosampler with built-in additional 10 port switching valve and includes column oven	01		
8.	5028129	NANOSPRAY SOURCE MIS III Ultra low flow source and interface designed for minimal sample consumption	01		

Handed 9/12
SCIEX
(A Division of DHR HOLDING INDIA PVT. LTD.)
121 Indraprastha Vihar, Phase-IV
Gurgaon - 122015
Haryana

Manufacturer reserves the right to change the part numbers without prior notice

Page 5 of 12

www.sciex.com



Sl.No.	Part Number	Description	Qty.	Unit Price (USD)	Total Price (USD)
		and highest sensitivity at flow rates from 20 nl/min to 2 µl/min. Gas nebulized spray ensures stable spray in both positive and negative polarity data acquisition. The source allows tips of any length to be used in addition to packed tips. The included interface improves ion transmission in the instrument. New camera and lighting provide a magnified real time image of the spray. A flat screen monitor, monitor arm, consumable kit and detailed instruction manual are also included in the kit.			
9	5030043	Consumable Nano Source MIS III Consumables kit to support NanoSpray source.	01		
10	5034059	ProteinPilot™ 5.0 Software This kit contains one ProteinPilot 5.0 perpetual single user license No DVD is included. The software may be downloaded from the website (http://www.absclex.com/downloads/software-downloads). ProteinPilot allows unattended batch processing of data files for protein identification and expression analysis from LC/MSMS, LC/MALDI and gel based experiments. Easy-to-use ProteinPilot Software streamlines protein identification and quantitation, enabling you to identify hundreds of peptide modifications and non-tryptic cleavages simultaneously. Easily distinguish protein isoforms, protein subsets, and suppress false positives, as well as visualize peptide-protein associations and relationships. With generic input for non-SCIEX instruments via .mgf format, the software is compatible with all proteomics	01		

SCIEX
(A Division of DHR HOLDING INDIA PVT. LTD.)
121, Vidya Vihar, Phase-IV
Gurgaon - 122015
Haryana

Manufacturer reserves the right to change the part numbers without prior notice

Page 6 of 12

www.sciex.com



Sl.No.	Part Number	Description	Qty.	Unit Price (USD)	Total Price (USD)
		MS/MS systems			
11	5037167	T7910- DELL PRECISION COMPUTER Dell Precision T7910 XL processor: E5-2667 v3 (8C HT, 20MB Cache, 3.2GHz Turbo); RAM: 32GB (4x8GB) 2133MHz DDR4 RDIMM ECC; 4x2TB SATA 7.2k RPM HDD; 512MB NVIDIA Quadro NVS 310 (2DP) (2DP-DVI adapter).	01		
12	5046554	Dell 27" Monitor Dell U2715H 27 Inch monitor. Provides two HDMI (MHL) ports, a DisplayPort, a mini-DisplayPort and USB 3.0 ports. With an Optimal Resolution of 2560 x 1440 at 60Hz. Height-adjustable stand, tilt, pivot (clockwise and counter-clockwise), swivel and built-in cable management.	01		
13	5044846	MarkerView 1.3 License MarkerView Software, a powerful program designed for metabolomics and protein/peptide biomarker profiling applications, allows you to rapidly and easily review data acquired on all SCIEX mass spectrometers to determine up- and down-regulation of endogenous compounds in complex samples. This kit contains a License only. DVD must be ordered separately if needed.	01		
14	5020210	LipidView Software V1.2 LipidView Software is a data processing tool for the molecular characterization and quantification of lipid species from electrospray MS data. Includes software CD and 1 user license. For full description and requirements, see the LipidView Software product description.	01		
15	5038114	Clilquid® 3.3 Kit The Clilquid® 3.3 Software Kit is designed for users who want to easily adopt LC/MS/MS	01		

SCIEX
(A Division of LHR HOLDING INDIA PVT. LTD.)
12/1, Jyoti Vihar, Phase-IV
Gurgaon - 122015
Haryana

Handed
G.H.

Handwritten signature

Manufacturer reserves the right to change the part numbers without prior notice

Page 7 of 12

www.sciex.com



Sl.No.	Part Number	Description	Qty.	Unit Price (USD)	Total Price (USD)
		for routine use with the minimum of training and experience required. Cliquid® 3.3 is compatible with iMethod™ Applications which may be purchased or downloaded through the iMethod™ Application website. Cliquid® 3.3 is a direct replacement of Cliquid® 3.2.1 Included in this is kit is one DVD and one License for Cliquid 3.3. . Compatible with Office 2013. Win 7 Compatible.			
16	LCLITM02	Nano LC Columns 75um X 3 um X 15 cm	4		
17	LCITM05	Trap Column 0.5 cm X 300 um X 3 um (Pack of 2)	1		

Sub Total after discount:

Add: Estimated inland Freight, Packing and Forwarding, Airfreight and Insurance Charges:

CIP Value New Delhi:

SCIEX
(A Division of Shimadzu India Pvt. Ltd.)
121, Wazirpur Vihar, Phase-IV
Gurgaon, Haryana 122015
Authorized Signatory

Manufacturer reserves the right to change the part numbers without prior notice

Page 8 of 12

www.sciex.com



Terms and Conditions

- **Payment Terms:** 100% payment shall be released against presentation of shipping documents against Submission of performance Bank Guarantee of 10% order value valid for a period of 68 months from the date of supply order and the same should be essentially submitted within 15 days of issue of supply order.
- **Warranty:** 5 Year Comprehensive warranty for Mass Spec system and all other accessories including third party items as per tender specification.
- **Installation:** We undertake to install the ordered instruments/technologies by our factory trained service engineers at your site at no additional cost to you. During the installation, we will perform all the tests as per the standard "Installation Guide/Data Log" issued by AB SCIEX. The installation will be completed within 25 working days from the date of completion of site in accordance of the installation requirement.
 - **For the third party items:** We undertake to organize the installation of the ordered Instruments/technologies by the respective manufacturer or its authorized person at your site at no additional cost to you. During the installation, we will perform all the tests as per the standard "Installation Guide/Data Log" (if applicable) issued by manufacturer. The installation will be completed within 25 working days from the date of completion of site in accordance of the installation requirement.
- **Training- On Site training to Doctors/ Technicians/ staff will be provided for operation and maintenance of the equipment to the satisfaction of the user department**
- **Inspection on arrival of the shipment:** Upon arrival of the ordered material in the institute, you are requested to inform us immediately. We will organize to check the complete shipment against any damage, short shipment, minor defects etc. It is essential to report any such problem within 05 working days of arrival of shipment at the site in order to claim and honor the insurance and/or warranty.

SCIEX
(A Division of DMR HOLDING INDIA PVT. LTD.)
127, Udyog Vihar, Phase-IV
Gurgaon - 122015
Haryana

Manufacturer reserves the right to change the part numbers without prior notice

Page 9 of 12

www.sciex.com



Annexure A

Items to be arranged and supplied from local sources at the time of installation.

Sl. #	Part Number	Description	Qty.	Unit Price (INR)	Total Price (INR)
1	LCLITM01	Scroll Air Compressor	1		
2	LCITM03	Centrifuge 21000g	1		
3	LCITM04	10 KVA UPS with 30 min Backup-APC Make	1		
4	LCITM06	Analytical Column 2.6 μ C18, 100 x 3.00 mm	6		
5	LCITM07	2 Application Engineers for running the machine and to develop new methods to measure and do structural analysis of additional new hormones/ligands essential for endocrine patient care. and necessary accessories and consumables.	3 years		

SCIEX
(A Division of DHR Holding India Pvt. Ltd.)
121, Udyog Vihar, Phase-IV
Gurgaon-122015
Haryana

A Division of DHR Holding India Pvt. Ltd.
Head Office: 121, Udyog Vihar, Phase-4, Gurgaon-122015, Haryana, India. P +91124 6734000 F +911246734199

www.sciex.com



Terms and Conditions for Local Items

- The above mentioned prices are inclusive of Taxes.
- Validity of the offer: 3 months
- Road permit has to be provided by the Institute; if applicable in the state where the material has to be shipped.
- Delivery: Within 6 weeks after receiving technically confirmed order.
- Payment: As per the tender specifications
- Warranty: 5 Year Comprehensive warranty for Mass Spec system and all other accessories including third party items as per tender specification.
- Installation: We undertake to organize the installation of the ordered instruments/technologies by the respective manufacturer or its authorized person at your site at no additional cost to you. During the installation, we will perform all the tests as per the standard "Installation Guide/Data Log" (if applicable) issued by manufacturer. The installation will be completed within 25 working days from the date

For SCIEX
(A Division of DHR Holding India Pvt. Ltd.)

SCIEX
(A Division of DHR HOLDING INDIA PVT. LTD.)
121, Udyog Vihar, Phase-IV
Gurgaon - 122015
Haryana
Authorized Signatory

✓

Handed Sub

Manufacturer reserves the right to change the part numbers without prior notice

Page 11 of 12

www.sciex.com