

ENTREPRENEURSHIP DEVELOPMENT CENTER

Clarification on Tender Number- **EDC/NIT/2019/008**

Item Description – Procurement of High Resolution Mass Spectrometer

A press tender notice was issued on 8th November 2019 for the procurement of High Resolution Mass Spectrometer under two-bid system.

A pre-bid meeting was held on 19th November 2019 at 3:00 pm and the minutes of the meeting is as under:

- 1) Prebid meeting was attended by representatives from Bruker India, Thermo Fisher Scientific & Sciex, Agilent Technologies, Waters India.
- 2) Prior & during the meeting written queries were received from the representatives. Our replies to the same are as summarized below:

Specification Ref.	Query	Our reply:
Other Items	We need a clarification on the ETD Cell and want to know, whether the quoted instrument must and should have an option for a future upgradation to ETD Cell for fragmentation analysis of post translational modifications or else we can quote an instrument which doesn't have any option for a future upgradation to accommodate a ETD cell.	ETD is an optional item.
Sr. No. 1	ESI and APCI with positive and negative ionization capability Compatibility with LC flow from 1 μ l /min to 1 ml/min Provision of direct infusion Provision of injection of reference mass solution	Will be amended as follows; "1 nl/min to 1 ml/min will be amended to "1 μm/ml to 1 ml/min." But system should be compatible with nanoliter flow rates in the future, hence a nano ESI source and nano LC should be quoted as optional item. Please refer to point 5 in the Minutes below. Visit our website www.venturecenter.co.in

		to see the amendment document.
Sr. No. 3	Change – 50 - 30000 m/z or better	No amendments
Sr. No. 13	PDA: High sensitivity, Data rate up to 100Hz, wavelength range 190– 800nm, wavelength accuracy ± 1 nm Fluorescence detector: Programmable slit, Excitation minimum 200 nm, Excitation Maximum- 630 nm Compatible Flow cell with Control software, Drivers	Will be amended. PDA range 190 -1000 nm will be amended to 190 - 700 nm. Fluorescence range will 190 - 700 nm Please refer to point 5 in the Minutes below. Visit our website www.venturecenter.co.in to see the amendment document
Other Items	Other Items such as ETD should mention as Optional nomenclator	ETD is a optional item
Training	We request that you should amend the hardware training cause in your tender - “a period of one week Training at manufacturer’s assembly site for specific hardware training “ to instead of Manufacturing site (outside India) to India training Center.	Will be amended. Please refer to point 4 in the Minutes below. Visit our website www.venturecenter.co.in to see the amendment document.
Sr. No. 7	Can we have resolution of 42000 FWHM or better instead of 60000 FWHM as mentioned in tender. The mass accuracy & resolution are interdependent specification. Our system meets the mass accuracy specification of tender which is 1 PPM so by mentioning resolution 42000 FWHM or better with 1 PPM accuracy there will not be any compromise in the quality.	No amendments
Sr. No. 13	can we have PDA detector wavelength range as 190-700 nm instead of 190 – 1000 nm as most of the analysis for small molecule as well as biopharma will be carried out in 190 to 700 nm	Will be amended. PDA range 190 -1000 nm will be amended to 190 - 700 nm. Fluorescence range will 190 -

		700 nm Please refer to point 5 in the Minutes below. Visit our website www.venturecenter.co.in to see the amendment document
Additional Capabilities	Is it mandatory to have the additional capabilities or it is good to have but not mandatory for vendor to qualify? Mass Range m/z of 6000 or better Resolution Resolution better than 1,00,000 FWHM	These are additional capabilities and not the essential qualifications.

Sr. No. 1	1ul to 2ml/min	Will be amended as follows; "1 nl/ml to 1 ml/min" will be amended to "1 µl/min to 1 ml/min." But system should be compatible with nanoliter flow rates in the future, hence a nano ESI source and nano LC should be quoted as optional item. Please refer to point 5 in the Minutes below. Visit our website www.venturecenter.co.in to see the amendment document
Sr. No. 3	50-10,000	No amendments
Sr. No. 4	50 Hz in MS and 30 in MS/MS mode	No amendments
Sr. No. 5	Less than 0.8 ppm in MS and less than 2ppm in MS/MS	No amendments
Sr. No. 7	50,000 FWHM We have data of resolution beyond 100K.	No amendments

	<i>(The trap technology or equivalent are dependent on mass being analyzed, increase in mass may reduce the resolution)</i>	
Sr. No. 13	190 to 950 nm	Will be amended. PDA range 190 -1000 nm will be amended to 190 - 700 nm. Fluorescence range will 190 - 700 nm Please refer to point 5 in the Minutes below. Visit our website www.venturecenter.co.in to see the amendment document
	Requesting to consider lab submitted data for the below points. Kindly confirm for the same that technical disqualification won't pertain on lab submitted data.	Lab submitted data will not be accepted

3) Clause 3.11.2 is amended as follows;

Existing Nomenclature: One week advanced training for two users nominated by EDC on operation, method development, maintenance, software, data interpretation(qualitative and quantitative, unknown identification), etc. at the manufacturer's international application laboratory

Amended Nomenclature: One week advanced training for two users nominated by EDC on operation, method development, maintenance, software, data interpretation(qualitative and quantitative, unknown identification), etc. at the manufacturer's application laboratory in India.

Advanced training for two users nominated by EDC on operation, method development, maintenance, software, data interpretation(qualitative and quantitative, unknown identification), etc. at the manufacturer's international application laboratory should be quoted separately.

4) Sr. No. 1 of Chapter 4 is amended as follows;

Existing Nomenclature: ESI and APCI with positive and negative ionization capability
 Compatibility with LC flow from 1 nL/min to 1 ml/min
 Provision of direct infusion
 Provision of injection of reference mass solution

Amended Nomenclature: ESI and APCI with positive and negative ionization capability
 Compatibility with LC flow from 1 µL/min to 1 ml/min
 Provision of direct infusion
 Provision of injection of reference mass solution

5) Sr. No. 13 of Chapter 4 is amended as follows;

Existing Nomenclature: Quaternary UHPLC System with Flow rate: 1 µL/min to 5ml/min

Pressure upto: 1300 bar

Temperature controlled Column compartment Range: 10-90°C

PDA: High sensitivity, Data rate up to 100Hz,wavelength range 190 – 1000 nm, wavelength accuracy ± 1 nm

Fluorescence detector:

Programmable slit, range 190-1000 nm,

Compatible Flow cell with Control software, drivers

Amended Nomenclature: Quaternary UHPLC System with Flow rate: 1 µL/min to 5ml/min

Pressure upto: 1300 bar

Temperature controlled Column compartment Range: 10-90°C

PDA: High sensitivity, Data rate up to 100Hz,wavelength range 190 – 700 nm, wavelength accuracy ± 1 nm

Fluorescence detector:

Programmable slit, range 190-700 nm,

Compatible Flow cell with Control software, drivers

6) Optional Item: Nano ESI Spray & Nano LC

A fully integrated binary Nano LC system with high pressure up to 10000 psi, Flow rates from 50 nl/min - 2000 nl/min, Temperature controlled sample compartment from 4°C, programmable injection auto sampler from 0.5 µl to 15 µl, Nano ESI source with demonstrated efficiency compatible with flow rates from 50 nL to 1000 nL/min. Suitable PDA detector and fluorescence detector with compatible flow cell should be included. Columns suitable for peptide and protein separations with inner diameters between 50 µm and 1 mm should be quoted.

Kindly refer to the Amendment Document on our website: www.venturecenter.co.in for more details.

7) In general the bidders expressed their satisfaction about the details and Specifications given in the bid document.

The terms and conditions of the notice issued on our EDC website www.venturecenter.co.in will remain unchanged.

21.11.19

General Manager (EDC)