

## Minutes of meeting

A meeting was held in presence technical committee members to evaluate the technical aspects of Mass spectrometer systems (MALDI-TOF and HRMS) with Tender reference: **NIT-29/2018 (NC-000296-CHE-18-19)** on **26<sup>th</sup> April, 2019 at 2:30PM** (SCS, Conference room). The following members were present in scheduled meeting- Dr. Chandra S. Purohit (Indenter), Dr. Nagendra K. Sharma, Dr. Pankaj Alone, Dr. Pratap K. Sahoo, Dr. Abdur Rahaman along with external members- Dr. Amol Suryawanshi (Technical Expert, ILS-Bhubaneswar), Dr. Mahesh Kulkarni (NCL-Pune, via Email & phone) and Dr. Dinesh Topwal (IOP-Bhubaneswar). While other two members Dr. Himansu S. Biswal and Dr. Kishore C. S. Panigrahi were absent.

The following vendors have participated in tender procedure: Bruker (MALDI-TOF & HRMS), Thermo Fisher Scientific (HRMS), Sciex (HRMS) and Waters (HRMS)

The committee members have gone through the tender documents and evaluated thoroughly. The same documents were also circulated to all committee members via email.

The Decision of committee members are tabulated in below-

### 1. MALDI TOF/TOF

Company and Model	Tender spec	Quoted item / Remark
a. <b>Bruker:</b> "The New Ultraflex extreme Speed MALDI TOF/TOF"	Qualified	Compliance to all specification as per tender documents.


### 2. HRMS for Discovery with Nano LC and UPLC/UHPLC plus for Targeted mode Applications

Company and Model	Tender spec	Quoted item / other points/ Remarks
<b>1. Bruker:</b> <ul style="list-style-type: none"> <li>• TIMS QTOF PRO HRMS system - A high resolution mass spectrometer with proprietary trapped ion mobility spectrometry (TIMS)</li> <li>• Nano Elute</li> <li>• Elute UHPLC</li> </ul>	<b>Disqualified*</b>	<b>*Committee has following concerns:</b> <ol style="list-style-type: none"> <li>1. Although most of specification matches with tender specification, it is observed that TIMS QTOF PRO HRMS system is new instrument with new PASEF mode which has only six installation/ users worldwide and no installation/user in India as per user list provided by Bruker. Hence, committee could not verify the claim about specification of instrument and applications performed on it.</li> <li>2. Committee also has concern about Service support and application support provided by Bruker in India as there is no installation of this new technology/ instrument in India and this is most important to keep this kind of high end instrument running and functional.</li> </ol>

		<p>3. The same does not comply to Point 1A in tender document (PART – 1, terms &amp; conditions, Page 70) where in Instrument have satisfactorily completed 03 similar supplies in India in last 05 years.</p> <p>Hence, committee does not recommend this.</p>
<p><b>4. Thermo Fisher Scientific</b></p> <ul style="list-style-type: none"> <li>• Q Exactive Plus orbitrap HRMS</li> <li>• Ultimate 3000 RSLC Nano</li> <li>• Ultimate 3000 UHPLC with requisite software</li> </ul>	<b>Qualified</b>	Compliance to all specification as per tender documents.
<p><b>5. Sciex</b></p> <ul style="list-style-type: none"> <li>• Triple TOF 6600 system</li> <li>• Eksigent 425 nLC</li> <li>• Exion LC AD system</li> </ul>	<b>Qualified</b>	Compliance to all specification as per tender documents.
<p><b>6. Waters</b></p> <ul style="list-style-type: none"> <li>• XEVO G2-XS QTOF ' /</li> <li>• UPLC M-CLASS 2D NANO UPLC ' /</li> <li>• UPLC H-CLASS PLUS FAST CHROMATOGRAPHY UPLC ' /</li> </ul>	<b>Disqualified</b>	<p>Following specifications does not match with tender spec</p> <ul style="list-style-type: none"> <li>• Scan speed for MS/MS acquisitions for quoted instrument is 30 spectra/sec against the tender specifications asked of 50 spectra/sec or better. This is very crucial for identification of metabolites such as proteins/lipid.</li> <li>• External calibration support is not described.</li> <li>• Nano Flow rate is not as per tender</li> <li>• Should have quoted SYNAPT-G2-HDMS</li> </ul>

  
SCS-NISER: Dr. C. S. Purohit, (Indenter)


  
Dr. N. K. Sharma


  
Dr. H. S. Biswal

  
SBS-NISER: Dr. Pankaj Alone

Dr. K. C. S. Panigrahi,

  
Dr. A. Rahaman

  
SPS-NISER: Dr. Pratap K. Sahoo

  
External Member: Dr. Amol Suryawanshi (ILS-Bhubaneswar)

Dr. Dinesh Topwal (IOP-Bhubaneswar)

Dr. Mahesh Kulkarni (NCL, Pune)