



## **FACT SHEET/ TERMS AND CONDITIONS: High Resolution Mass Spectrometry (HRMS) Services**

(Version: 1 Aug, 2017)

### **FEATURES**

- HRMS will be performed on an Agilent QTOF (model number: 6540 UHD). UHPLC, nanoLC and GC are available as the front end. [Modes of ionization available: ESI, API, APPI, ASAP]
- High Resolution Mass Analysis for
  - Synthetic organic samples (MS and tandem MS)
  - Peptide and intact protein analysis
  - Peptide mass fingerprinting using tandem MS
  - Natural Product extracts (Only MS)
- GC MS and LC MS with established protocols and methods can also be undertaken on a case to case basis. Contact CAMS for further details.
- CAMS & Venture Center will be willing to work with researchers on new method development and other analytical requirements using MS. These exercises need to be discussed separately with the Venture Center management.
- Venture Center only supports researchers with scientific data. Venture Center is not an accredited testing lab. Venture Center does not provide certificates. This data cannot be used for any certifications/ approvals. Venture Center does not offer to certify or confirm data in front of any agency or any court of law.

### **ELIGIBILITY**

- The MS service is open to all technology developers, entrepreneurs, academic institutes, researchers and industries. However, priority shall be given to:
  - Proof-of-concept studies aiming to create start-ups
  - Requests from incubatee companies (resident and AIP)
- Venture Center retains the right to refuse applications without providing a reason.

### **TERMS & PRICING**

- **GENERAL CONDITIONS:**
- This service sheet only offers standardized experimental protocols on Mass Spectrometry available with Venture Center. The terms and conditions are specifically for these standardized studies. All publications, posters and presentations by researchers using MS data from Venture Center are expected to acknowledge use of Venture Center facilities as follows in the acknowledgement section: "Mass Spectrometry analysis were performed by \_\_\_\_\_ at the DBT-BIRAC supported Center for Applications of Mass Spectrometry (CAMS) at Venture Center BioIncubator at CSIR-NCL, Pune, India"
  - Any analysis involving intellectual inputs relating to design of experiments or new method development etc are treated different from the above mentioned standardized studies. Such collaborative efforts involving Venture Center staff have to be approved by the Venture Center management on a case-to-case basis. The terms of engagement shall be different in these cases. Typically, in these cases, Venture Center requires that all publications, posters and presentations by researchers using Mass Spectrometry data generated with intellectual contributions from Venture Center staff be acknowledged through co-authorship.
  - Experiments can fail for various reasons. Venture Center shall not be liable for the loss of samples and time in this case.
- **HOW TO APPLY?**
  - Request a discussion meeting with the Manager of the Center for Applications of Mass Spectrometry (CAMS). Understand what can and cannot be done at CAMS.
  - Fill and submit application form. Venture Center raises an invoice against this application form. Payments are expected in full in advance prior to start of MS analysis.

### •PAYMENT TERMS

- All services are offered against advance payment in full. Service tax and other taxes applicable at the prevailing rate shall be in addition to the above.
- Payment via a) Demand Draft, b) Cheque payable in Pune or at par or c) bank transfer are possible. All payments have to be made in the name of “**Entrepreneurship Development Center**”

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ooking once made shall not be transferrable or payment made thereof shall be non-refundable. On the occasional case where Venture Center is unable to carry out the experiment due to equipment failure or contamination or absence of staff, Venture Center shall inform the applicant immediately and refund the payments made to it.

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### •USAGE TERMS

- Service users shall not (intentionally or otherwise) do or say anything to suggest that Venture Center or CSIR-NCL has any connection to the samples being studied.
- Venture Center shall maintain records of MS data for each applicant. These will be made available to the applicant prior to billing. User agrees that in case of any dispute, Venture Center’s assessment of the number of samples / number of hours and fees applicable will be considered final and the same shall be used for billing purposes.
- Venture Center reserves the right to deny use of its services at its sole discretion, without providing any reason whatsoever. In case of scheduling conflicts, Venture Center will be the sole and final authority on the schedule and availability of the MS analysis

| Pricing for Qualitative Analysis |   |             |   |
|----------------------------------|---|-------------|---|
| S. No                            | Service   | Price (Rs.) | Description   |
| A01                              | Mass determination of Synthetic organic compound  | Rs. 1,500/- | Per Sample. Max run time of 30 min includes all attempts, for extra run time Rs. 500/30 min   |
| A02                              | Characterization of Synthetic organic compound  | Rs. 2,000/- | Per Sample. Max run time of 30 min, MS/MS of maximum 5 peaks, For extra peak Rs. 200/peak, extra run time Rs. 500/30 min  |
| A03                              | Peptide mass fingerprinting, Identification with Spectrum Mill software   | Rs. 5,000/- | Per Sample. Max run time 1 Hr, after that Rs. 2000/Hr, Replicate or fraction @ Rs. 2000/hr (upto 2 replicates max)  |
| A04                              | Peptide Sequencing using data dependent LC-MS/MS  | Rs. 7,000/- | Per Sample. Max run time 1 Hr, after that Rs. 2000/Hr, Replicate or fraction @ Rs. 2500/hr (upto 2 replicates max)  |
| A05                              | Intact protein mass determination   | Rs. 6,000/- | Per Sample. Max run time 1 Hr, after that Rs. 2000/Hr, Replicate or fraction @ Rs. 2000/hr (upto 2 replicate max)   |
| A06                              | Metabolite screening with exact mass (method available for flavonoids, vitamin, carotenoids, triglycerides, Fatty acids, plasma metabolites, plant metabolites, milk metabolites, pesticides) | Rs. 5,000/- | Per Sample. Total run time, 60 min(Includes two run of 30 min for positive and negative ion mode). for extra run time Rs. 1000/30 min, For replicates from sample: Rs. 2000/-+ extra hour charges |

| Pricing for Quantitative Analysis |  | Price (Rs.)   |   |
|-----------------------------------|--|---|---|
| S. No                             | Service  | Calibration curve   | Samples   |
| <b>B01</b>                        | Quantitative LC-MS for small molecules ( 1-10 analytes)<br><i>(Client shall provide the standards for generation of calibration curve)</i>         | Rs. 1,000/- per calibration point, replicate Rs. 500/- point, Max 30 min run, after 30 min Rs. 500/ 30 min. | Rs. 1,200/- per sample, replicate Rs. 500/- sample, after 30 min Rs. 500/ 30 min.                                 |
| <b>B02</b>                        | Quantitative LC-MS for small molecules ( more than 10 analytes)<br><i>(Client shall provide the standards for generation of calibration curve)</i> | Rs. 1,500/- per calibration point, replicate Rs. 700/- point, after 30 min Rs. 500/ 30 min                  | Rs. 1,500/- per sample, replicate Rs. 700/- sample, after 30 min Rs. 500/ 30 min                                  |
| <b>B03</b>                        | Small molecules quantitation (relative)  |   | Rs. 3,000/- per sample, includes each run of Reference and samples, run time 30 min, after 30 min Rs. 500/ 30 min |

### DISCOUNT

Venture Center's standard discounts shall apply. See latest discounts at: <http://www.venturecenter.co.in/discounts.php> ; Only one discount may be availed at a time.

It is hereby declared that the undersigned has read and understood the terms and conditions of Venture Center's HRMS services and accepts the same.

For and on Behalf of  
(Name of the Company)

(Name of the authorized signatory)