

Instrument Facilities (DBT-Pan IIT Center for Bioenergy, IITB Node)
Rate Chart for External Members

Contact: Either 1.) Prof. Pramod Wangikar (wangikar@iitb.ac.in) or 2.) Dr. Bratati Mukherjee (email: manager.bioenergy@iitb.ac.in) ; phone: 02225764215) for more information on the services provided

Payment information: Payment to be made in advance against a Proforma invoice. **For bank details visit the following website

(<http://drona.ircc.iitb.ac.in/home/sites/default/files/node/157/ECSBankDetails20150305.pdf>)

1. LC-MS/MS: Metabolite or small molecules analysis. Identification and relative quantification of metabolites.

| LC-MS/MS: Triple TOF 5600 (Sciex) and uHPLC (Shimadzu Nexera) | IIT Bombay | Other Academic Institutions | Industry |
|---|---------------------------------------|-----------------------------|----------------|
| Metabolomics | Cost Per Injection (in Rupees) | | |
| LCMS runtime < 30 minutes) * and data analysis of ≤ 5 metabolites | 6,000/- | 8,000/- + GST | 10,000/- + GST |
| Additional data analysis for ≤ 20 metabolites | 1,800/- | 2,400/- + GST | 3,000/- + GST |
| Proteomics | Please call | Please call | Please call |
| Minimum samples per submission = 3 HPLC Column to be supplied by the user Data file (when analysis is not requested) will be provided in the wiff. and wiff.scan format * Additional charges of 1500/- will be charged for every 10 minutes of extra runtime | | | |

2. Bioreactor Facility (including pH and DO sensors):

| Bioreactor (Applikon-EZ Control) with an Applikon control unit and the following accessories: a. 3 Peristaltic Pumps b. two vessels (3L and 7L) c. pH probe d. temperature probe e. Dissolved Oxygen probe f. Air compressor g. Cooling Unit | IIT Bombay | Other Academic Institutions | Industry |
|--|----------------------------------|-----------------------------|---------------|
| | Rate per day (in Rupees)* | | |
| | 9,000/- | 12,000/- +GST | 15,000/- +GST |
| *Usage of the bioreactor vessel and use of existing pH and DO sensors *Reduced charges for extra days of usage for a single run (to be discussed) Data will be provided in excel format Use of Laminar Airflow, Centrifuges and Spectrophotometer will be charged according to the usage. | | | |

3. Lyophilizer Facility:

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|---|---------------------------------|-----------------------------|-----------------|
| Lyophilizer (Labconco, FreeZone 2.5 Plus) | IIT Bombay | Other Academic Institutions | Industry |
| | Rate per day (in Rupees) | | |
| | 1,200/- | 1,600/- +GST | 2,000/- +GST |
| Use of water based solvents only Can use up to three flasks (volumes can be discussed), every extra flask will be charged Rupees 400 per day | | | |

4. Phyto-PAM (Phytoplankton analyzer):

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|----------------------------|----------------------------------|-----------------------------|-----------------|
| Phyto-PAM (Walz, Phyto-ML) | IIT Bombay | Other Academic Institutions | Industry |
| | Rate per hour (in Rupees) | | |
| | 600/- | 800/- +GST | 1,000/- +GST |

5. Multicultivator Facility (with Mass Flow Controller and CO₂ Cylinders)

| | | | |
|---|---------------------------------|-----------------------------|-----------------|
| Multicultivator: Photon Systems Instruments, (Photon Systems Instruments, PSI FMT/1000) | IIT Bombay | Other Academic Institutions | Industry |
| | Rate per day (in Rupees) | | |
| | 3,000/- | 4,000/- +GST | 5,000/- +GST |

6. Flat-panel Photobioreactor Facility (with Mass Flow Controller and CO₂ Cylinders)

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|---|---------------------------------|-----------------------------|-----------------|
| Photobioreactor Facility (Photon Systems Instruments, PSI FMT/1000) | IIT Bombay | Other Academic Institutions | Industry |
| | Rate per day (in Rupees) | | |
| | 3,000/- | 4,000/- +GST | 5,000/- +GST |

7. Multimode plate Reader

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|---|----------------------------------|-----------------------------|-----------------|
| Multimode plate Reader (Tecan)* | IIT Bombay | Other Academic Institutions | Industry |
| | Rate per hour (in Rupees) | | |
| | 600/- | 800/- +GST | 1,000/- +GST |
| *(Consumables and plasticware compatible with the machine to be provided by the user) | | | |

8. Real Time PCR system

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|--|---------------------------------|-----------------------------|-----------------|
| Real Time-qPCR (Agilent, AriaMx Realtime PCR system) * | IIT Bombay | Other Academic Institutions | Industry |
| | Rate per run (in Rupees) | | |
| | 2,400/- | 3,200/- +GST | 4,000/- +GST |
| *Consumables and compatible 96 well plates for the machine to be provided by the user *Analysis reports available as excel sheets | | | |

9. PreSens Dissolved Oxygen/pH sensors for non-invasive online monitoring of culture media

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|---|----------------------------------|-----------------------------|-----------------|
| PreSens Dissolved Oxygen/pH sensors and Kuhner shaker | IIT Bombay | Other Academic Institutions | Industry |
| | Rate per day (in Rupees)* | | |
| | 4,800/- | 6,400/- +GST | 8,000/- +GST |
| *additional cost for flasks | | | |