



## Swami Ramanand Teerth Marathwada University Nanded

### Central Instrumentation Center for Multidisciplinary Research and Innovation (CICMRI)

#### Sophisticated Analytical Instruments and Other Research Facilities Rates per Unit Samples/Measurement

| Sr. No | Name of the Instrument                                                                                    | Rate/Sample<br>(In INR) |          |                     |        |
|--------|-----------------------------------------------------------------------------------------------------------|-------------------------|----------|---------------------|--------|
|        |                                                                                                           | Out of SRTM University  |          | SRTM University     |        |
|        |                                                                                                           | Industry                | Academic | Affiliated Colleges | Campus |
| 01     | Orbitrap High Resolution Liquid Chromatograph Mass Spectrometer (OHRLCMS) (Per measurement lump sum rate) | 5500                    | 3700     | 2700                | 1600   |
|        | I. HRMS Small Molecules                                                                                   | 1000                    | 750      | 500                 | 300    |
|        | II. UHPLC Plus HRMS (Small Molecules)                                                                     | 2400                    | 1700     | 1200                | 700    |
|        | III. HRMS/MS Small molecule                                                                               | 1400                    | 980      | 700                 | 400    |
|        | IV. UHPLC Plus HRMS/MS Small molecule                                                                     | 3000                    | 1900     | 1600                | 600    |
|        | V. HRMS (Biomolecules)                                                                                    | 2400                    | 1600     | 1200                | 400    |
|        | VI. HRMS/MS (Biomolecules)                                                                                | 2000                    | 1400     | 1000                | 600    |
|        | VII. UHPLC Plus HRMS (Biomolecules)                                                                       | 4000                    | 2800     | 2000                | 1200   |
|        | VIII. UHPLC Plus HRMS/MS (Biomolecules)                                                                   | 5000                    | 3500     | 2500                | 1500   |
|        | IX. Smart Formula Tagging for an additional peak (For HRMS/LC-HRMS-MS)                                    | 100                     | 70       | 50                  | 30     |
|        | X. Probable Smart formula auto-report for a single mass spectrum(For HRMS/LC-HRMS-MS)                     | 150                     | 105      | 75                  | 45     |
|        | XI. Protein Profiling for complex mixture using 2D Nano-LC(LC/MS/MS)                                      | 150                     | 105      | 75                  | 45     |
|        | XII. Library search for Pesticide identification                                                          | 2000                    | 1400     | 1000                | 600    |
| 02     | Field Emission Scanning Electron Microscope (Per measurement lump sum rate)                               | 6000                    | 3000     | 4200                | 1800   |
|        | I. SEM Image                                                                                              | 6200                    | 4340     | 3100                | 1860   |
|        | II. WDS                                                                                                   | 3500                    | 240      | 1750                | 1050   |
|        | III. WDS Mapping ( For 3 element maps)                                                                    | 7100                    | 4970     | 3550                | 2130   |

|    |                                                                                        |                                                                         |               |               |               |               |
|----|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------|---------------|---------------|---------------|---------------|
|    | IV. WDS Mapping ( Above 3 element maps)                                                |                                                                         | 9500          | 6650          | 4750          | 2850          |
| 03 | Raman Spectrometer (Per measurement lump sum rate)                                     |                                                                         | 2500          | 1750          | 1250          | 750           |
| 04 | Fluorescence Microscope (Per Hour)                                                     |                                                                         | 2500          | 1750          | 1250          | 750           |
| 05 | Gas Chromatography Mass Spectrometry(GCMS) (Per measurement lump sum rate)             |                                                                         | 4500          | 3150          | 2250          | 1350          |
|    | I. GC-MS-MS                                                                            |                                                                         | 3500          | 2450          | 1750          | 1050          |
|    | II. Head - Space                                                                       |                                                                         | 5000          | 3500          | 2500          | 1500          |
|    | III. Third Impurity                                                                    |                                                                         | 500           | 350           | 250           | 150           |
|    | IV. Library                                                                            |                                                                         | 600           | 420           | 300           | 180           |
| 06 | Density & Sound Velocity Meter (Sample Series)                                         |                                                                         | 300           | 100           | 50            | 20            |
| 07 | Viscometer (Sample Series)                                                             |                                                                         | 300           | 200           | 100           | 50            |
| 08 | Refractometer (Refractive index and all other parameters)                              |                                                                         | 500           | 350           | 250           | 150           |
|    | Only Refractive Index of Sample Series                                                 |                                                                         | 200           | 150           | 100           | 50            |
| 09 | Atomic Absorption Spectrophotometer (Per measurement lump sum rate)                    |                                                                         | 3000          | 2100          | 1500          | 900           |
| 10 | Zetasizer Nano Zs (Per measurement lump sum rate)                                      |                                                                         | 1400          | 910           | 700           | 420           |
| 11 | Illumina Miniseq Platform Of Nsg For Genome Sequencing (Per measurement lump sum rate) |                                                                         | 22000 - 40000 | 20000 - 35000 | 20000 - 35000 | 15000 - 30000 |
|    | I. Nucleic acid isolation                                                              | DNA extraction from Blood                                               | 1097          | 775           | 550           | 350           |
|    |                                                                                        | DNA extraction from Tissue                                              | 1107          | 775           | 550           | 350           |
|    |                                                                                        | Tissue total RNA isolation Using Qiagen RNAEasy minikit                 | 1508          | 1060          | 760           | 450           |
|    |                                                                                        | Cellular total RNA isolation using PureLink Trizol Plus RNAEasy minikit | 1945          | 1375          | 975           | 600           |
|    |                                                                                        | DNA and RNA extraction from Same Tissue                                 | 2269          | 1600          | 1150          | 700           |
|    |                                                                                        | Tissue total RNA isolation Using PureLink Trizol Plus RNAEasy minikit   | 1955          | 1375          | 1000          | 600           |
|    | II. RNA QA/QC                                                                          |                                                                         | 764           | 550           | 375           | 250           |
|    | III. Human Whole Exome Sequencing                                                      | Human Core Exome Sequencing[Roche based] (30X) using NovaSeqS4          | 9174          | 6450          | 4600          | 2775          |
|    |                                                                                        | Human Core Exome Sequencing[Roche based] (100X) usingNovaSeq S4         | 15145         | 10600         | 7575          | 4550          |
|    |                                                                                        | Human Core Exome Sequencing[Agilent based] (30X) using NovaSeqS4        | 16109         | 11300         | 8050          | 4850          |
|    |                                                                                        | Human Core Exome Sequencing[Illumina                                    | 21901         | 15350         | 11000         | 6575          |

|  |                                                            |                                                                                                                                    |       |       |       |       |
|--|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|
|  |                                                            | based] (60X)<br>usingNovaSeq S4                                                                                                    |       |       |       |       |
|  |                                                            | Human Core Exome<br>Sequencing[Agilent based]<br>(100X) usingNovaSeq S4                                                            | 22080 | 15450 | 11050 | 6625  |
|  |                                                            | Human Core Exome<br>Sequencing[Illumina<br>based] (100X)<br>usingNovaSeq S4                                                        | 25884 | 18125 | 12950 | 7775  |
|  | IV. mRNA Sequencing                                        | mRNA Sequencing [Roche<br>based](25 million PE)<br>using Novaseq S4                                                                | 8531  | 5975  | 4275  | 2550  |
|  |                                                            | mRNA Sequencing [Roche<br>based](50 million PE)<br>using Novaseq S4                                                                | 12113 | 8500  | 6050  | 3650  |
|  | V. Human/Mouse/Rat<br>Whole<br>Transcriptome<br>Sequencing | Transcriptome<br>Sequencing-<br>WithoutRibodepletion<br>[Roche based] (50million<br>PE) using Novaseq S4                           | 11614 | 8125  | 5800  | 3500  |
|  |                                                            | Ribo-depleted Total<br>TranscriptomeSequencing-<br>Human/Mouse/Rat(HMR)<br>[Roche based] (50 million<br>PE)using Novaseq S4        | 14209 | 9950  | 7100  | 4275  |
|  |                                                            | Transcriptome<br>Sequencing-<br>WithoutRibodepletion<br>[Roche based] (100million<br>PE) using Novaseq S4                          | 18780 | 13150 | 9400  | 5650  |
|  |                                                            | Ribo-depleted Total<br>TranscriptomeSequencing-<br>Human/Mouse/Rat(HMR)<br>[Roche based] (100<br>millionPE) using Novaseq<br>S4    | 21375 | 14950 | 10700 | 6400  |
|  |                                                            | Ribo-depleted Total<br>TranscriptomeSequencing-<br>Human/Mouse/Rat(HMR)<br>[Illumina based] (50<br>millionPE) using Novaseq<br>S4  | 31155 | 21800 | 15575 | 9350  |
|  |                                                            | Ribo-depleted Total<br>TranscriptomeSequencing-<br>Human/Mouse/Rat(HMR)<br>[Illumina based] (100<br>millionPE) using Novaseq<br>S4 | 38320 | 26825 | 19175 | 11500 |
|  | VI. Metatranscriptomic<br>Sequencing                       | Metatranscriptomic<br>Sequencing[Illumina<br>based] (25 million<br>PE)using Novaseq S4                                             | 23952 | 16775 | 11975 | 7200  |
|  |                                                            | Metatranscriptomic<br>Sequencing[Illumina<br>based] (50 million<br>PE)using Novaseq S4                                             | 27534 | 22028 | 19275 | 8275  |
|  | VII. Small RNA<br>Sequencing                               | Small RNA Sequencing<br>[Illuminabased] (25<br>million SE) usingNovaseq<br>SP                                                      | 43881 | 30700 | 21950 | 13175 |
|  |                                                            | Small RNA Sequencing<br>[Qiagenbased] (25 million<br>SE) usingNovaseq SP                                                           | 37176 | 26025 | 18600 | 11150 |
|  |                                                            | Bacterial Whole<br>GenomeSequencing                                                                                                | 5658  | 3975  | 2825  | 1700  |

|    |                                                           |                                                                              |        |        |        |       |
|----|-----------------------------------------------------------|------------------------------------------------------------------------------|--------|--------|--------|-------|
|    | VIII. Whole Genome Sequencing                             | [Roche based] (1gbdata) using NovaSeq SP                                     |        |        |        |       |
|    |                                                           | Bacterial Whole GenomeSequencing [Illumina based] (1gbdata) using NovaSeq SP | 14610  | 10225  | 7300   | 4400  |
|    |                                                           | Human Whole Genome Sequencing(30X) using NovaSeq S4                          | 112438 | 78700  | 56225  | 33750 |
|    |                                                           | Human Whole Genome Sequencing(60X) using NovaSeq S4                          | 213230 | 149275 | 106625 | 63975 |
|    | IX. Metagenomic Sequencing                                | 16s rRNA (v3-v4) MicrobiomeSequencing using NovaSeq SP                       | 3691   | 2600   | 1850   | 1100  |
|    |                                                           | 16s rRNA (v3-v4) MicrobiomeSequencing using MiSeq                            | 10727  | 7500   | 5375   | 3225  |
|    |                                                           | Shotgun Microbiome Sequencing[Illumina] (10M reads) usingNovaSeq SP          | 17500  | 12250  | 8750   | 5250  |
|    |                                                           | Shotgun Microbiome Sequencing[Roche] (10M reads) using NovaSeqSP             | 8467   | 5925   | 4250   | 2550  |
|    | X. Epigenomic Sequencing                                  | ChIP Sequencing (50M reads)                                                  | 37,265 | 26100  | 18650  | 11175 |
|    | XI. Genotyping Array                                      | Infinium GSA                                                                 | 5,514  | 3850   | 2750   | 1650  |
|    |                                                           | Omni 2.5                                                                     | 31,633 | 22150  | 15825  | 9500  |
|    |                                                           | EPIC Methylation                                                             | 43,371 | 30350  | 21700  | 13000 |
|    |                                                           | Omni 5.0                                                                     | 50,920 | 35650  | 25475  | 15275 |
|    | XII. Target Sequencing                                    | Targeted Sequencing (customPanel)                                            | ---    | ----   |        |       |
|    | XIII. Sequencing only                                     | Illumina NovaSeq Sequencing                                                  | ---    | ----   |        |       |
|    |                                                           | Illumina MiSeq Sequencing                                                    | ---    | -----  |        |       |
|    | XIV. Custom Sequencing                                    | Custom Library and Sequencing                                                | ---    | ----   |        |       |
| 12 | Fungal Identification                                     |                                                                              | 1500   | 1050   | 750    | 450   |
|    | Fluorescent Spectroscope (Per measurement lump sum rate)  |                                                                              | 800    | 575    | 400    | 250   |
|    | I. Excitation/Emission Spectrum                           |                                                                              | 2200   | 1550   | 1100   | 675   |
|    | II. Synchronous Scanning                                  |                                                                              | 4400   | 3100   | 2200   | 1325  |
|    | III. Excitation-Emission matrix                           |                                                                              | 5500   | 3850   | 2750   | 1650  |
|    | IV. Quantum yield measurement (For Liquid sample only)    |                                                                              | 11000  | 7700   | 5500   | 3300  |
|    | V. Quenching Studies                                      |                                                                              | 11000  | 7700   | 5500   | 3300  |
|    | VI. Solvatochormism studies                               |                                                                              | 11000  | 7700   | 5500   | 3300  |
| 13 | VII. FRET Study                                           |                                                                              | 8250   | 5775   | 4125   | 2475  |
|    | X-Ray Powder Diffraction (Per measurement lump sum rate)  |                                                                              | 4500   | 3150   | 2250   | 1350  |
|    | I. Cell parameters                                        |                                                                              | 3330   | 2325   | 1675   | 1000  |
|    | II. Cell parameters and Crystal Structure Data Base check |                                                                              | 4130   | 2900   | 2075   | 1250  |
|    | III. Data collection                                      |                                                                              | 15570  | 1100   | 7800   | 4675  |

|    |                                           |                             |       |       |      |
|----|-------------------------------------------|-----------------------------|-------|-------|------|
|    | IV. Data structure                        | 25300                       | 17725 | 12650 | 7600 |
|    | V. Data at low temperature                | 20130                       | 14100 | 10075 | 6050 |
|    | VI. Data and structure at low temperature | 29700                       | 20800 | 14850 | 8925 |
|    | VII. Structure solution only              | 9630                        | 6750  | 4825  | 2900 |
| 14 | Western Blot                              | 3000                        | 2100  | 1500  | 900  |
|    | Primer                                    | Rs. 60<br>per<br>nucleotide | 60    | 60    | 60   |
| 15 | Work Station & CADD Software              | 1000                        | 700   | 500   | 300  |
| 16 | Reactors                                  | 600                         | 420   | 300   | 180  |
| 17 | CADD Softwares/ Biovia Discovery Studio   | 500                         | 350   | 250   | 150  |

**Note:** These rates may vary as per user's specific requirement and the detail quotation as per specific requirement of user may be provided. The user needs to fill the form and clearly mention the services required along with the details of the sample sent.