



# ARYABHATA CENTRAL INSTRUMENTATION LABORATORY

## LIST OF INSTRUMENTS AT ACIL

| NAME                                        | COST           | DATE OF<br>PURCHASE &<br>INSTALLATION | MAKE/<br>MODEL                        | SUPPLIER              |
|---------------------------------------------|----------------|---------------------------------------|---------------------------------------|-----------------------|
| AUTOMATED FLASH<br>CHROMATOGRAPHY<br>SYSTEM | RS.<br>2250000 | 08/01/2016                            | YAMAZEN<br>( AI 580 S )               | Inkarp<br>Instruments |
| UV<br>SPECTROPHOTOMET<br>ER (UV-VIS-NIR)    | RS.<br>3467500 | 19/01/2016                            | SHIMADZU<br>(UV 3600<br>PLUS)         | Linco (Ambala)        |
| FTIR                                        | RS.<br>2833600 | 16/02/2016                            | THERMO<br>SCIENTIFIC<br>( IS 50 FTIR) | Linco (Ambala)        |



# ARYABHATA CENTRAL INSTRUMENTATION LABORATORY



**FTIR**



# ARYABHATA CENTRAL INSTRUMENTATION LABORATORY

## Flash Chromatography







# ARYABHATA CENTRAL INSTRUMENTATION LABORATORY



**UV Spectrophotometer**



# ARYABHATA CENTRAL INSTRUMENTATION LABORATORY

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| NAME                                                 | COST           | DATE OF<br>PURCHASE &<br>INSTALLATION | MAKE/<br>MODEL                    | SUPPLIER                           |
|------------------------------------------------------|----------------|---------------------------------------|-----------------------------------|------------------------------------|
| GAS CHROMATOGRAPHY<br>WITH MASS<br>SPECTROPHOTOMETER | RS.<br>5180000 | 18/02/2016                            | THERMO<br>SCIENTIFIC<br>( ISQ-QD) | Linco (Ambala)                     |
| IMPEDANCE ANALYSER                                   | RS.<br>3500000 | 02/03/2016                            | KEY SIGHT<br>( E4990 A)           | Agmatel india ltd.<br>( New Delhi) |
| QIAXCEL ADVANCE<br>SYSTEM/BIOANALYSER                | RS.<br>1330160 | 15/03/2016                            | QIAGEN<br>MODEL-<br>( 9001941)    | Rajat Enterprises<br>( Hisar)      |
| RHEOMETER                                            | RS 3401151     | 19/03/2016                            | ANTON PAAR<br>( MCR 102)          | Anton Paar<br>( Gurgaon)           |



# ARYABHATA CENTRAL INSTRUMENTATION LABORATORY

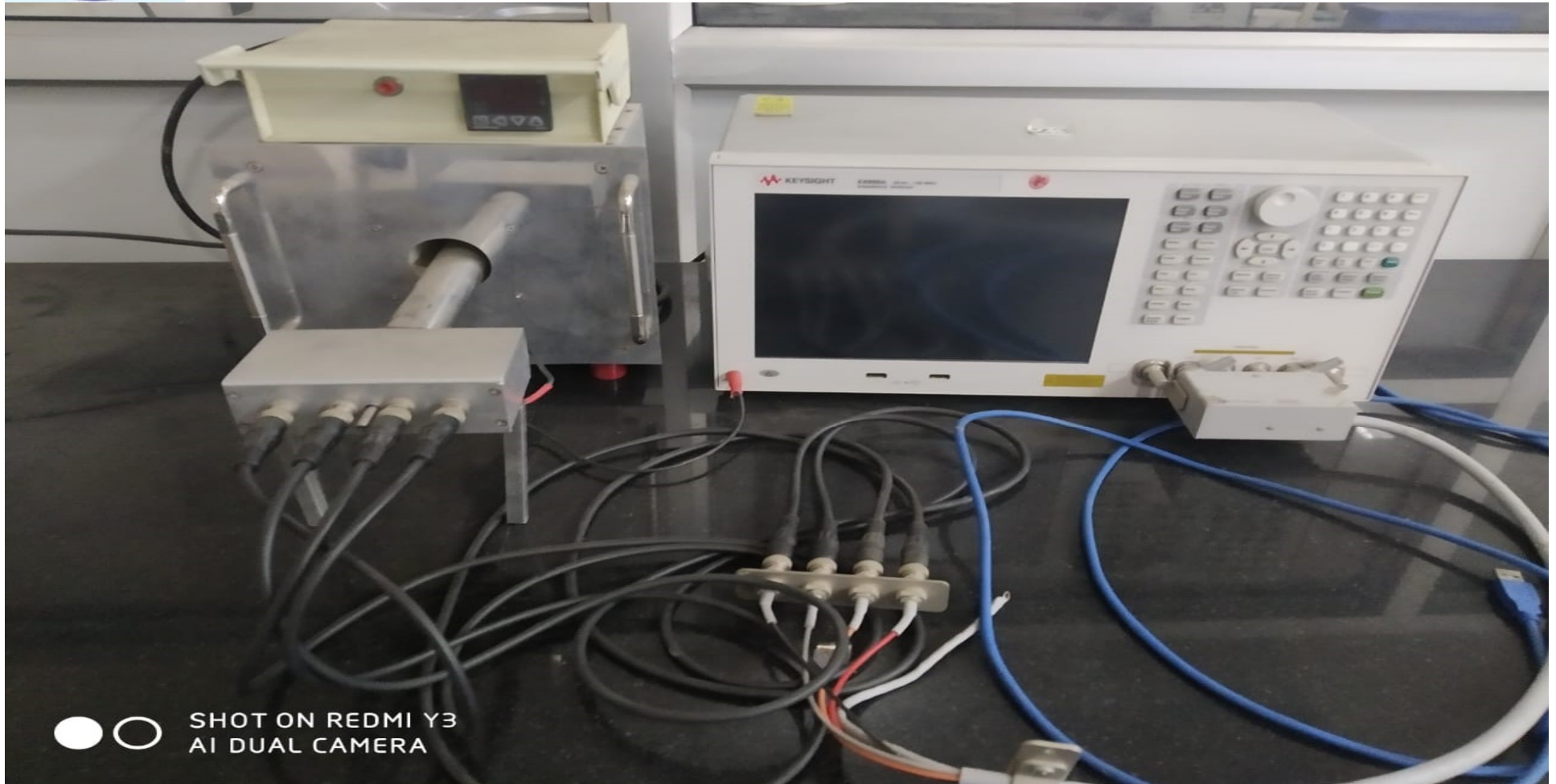


**GCMS**





# ARYABHATA CENTRAL INSTRUMENTATION LABORATORY

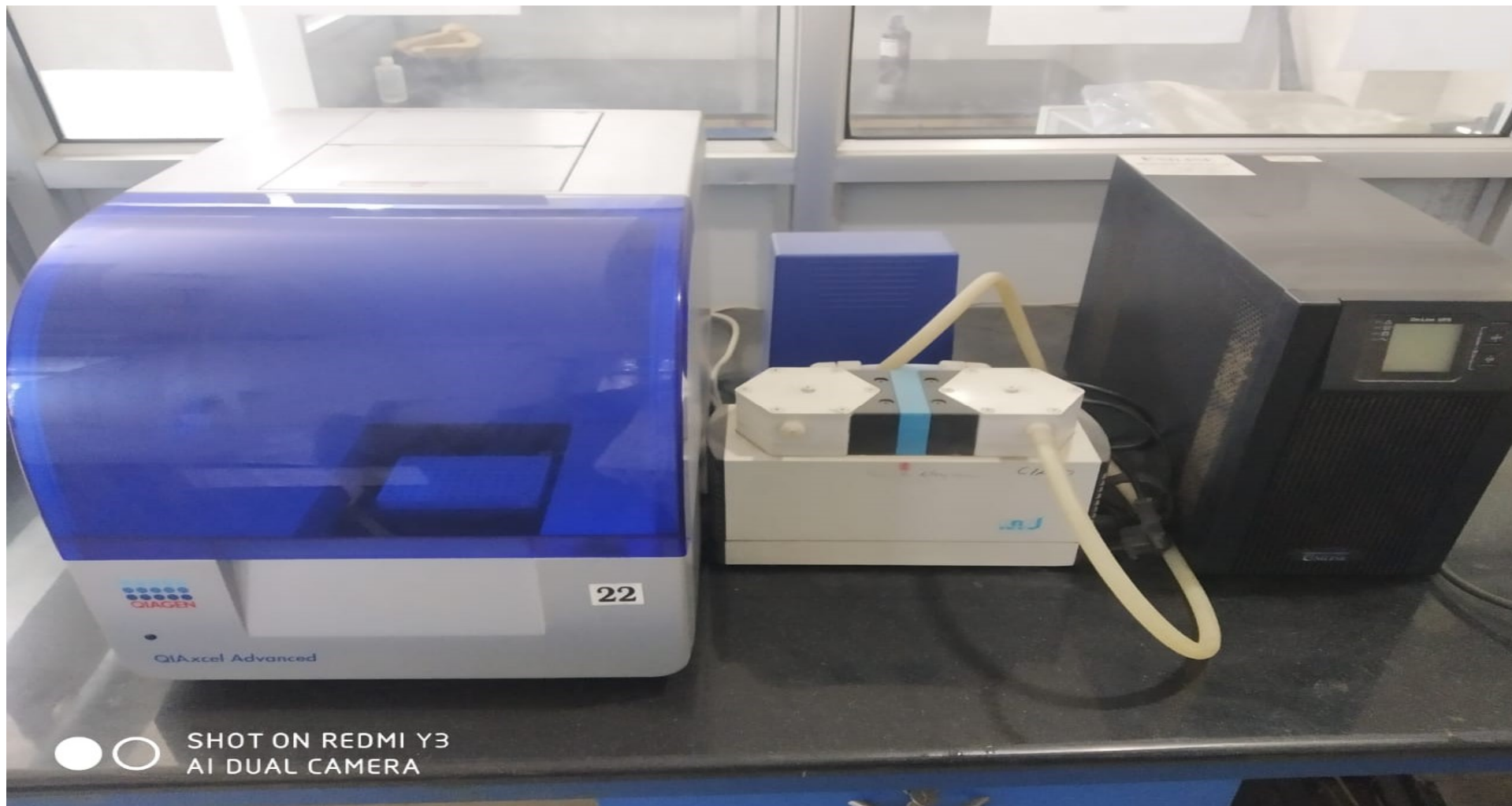


SHOT ON REDMI Y3  
AI DUAL CAMERA

## Impedance Analyzer



# ARYABHATA CENTRAL INSTRUMENTATION LABORATORY



**Qiaxcel Bioanalyzer**





# ARYABHATA CENTRAL INSTRUMENTATION LABORATORY

## Rheometer





# ARYABHATA CENTRAL INSTRUMENTATION LABORATORY

## LIST OF INSTRUMENTS AT ACIL

| NAME                                          | COST           | DATE OF<br>PURCHASE &<br>INSTALLATION | MAKE/<br>MODEL                                     | SUPPLIER              |
|-----------------------------------------------|----------------|---------------------------------------|----------------------------------------------------|-----------------------|
| DIGITAL FORENSIC KIT                          | RS.<br>3125925 | 25/11/2016                            | CYINT<br>TECHNOLOGY<br>(FRED<br>STANDARD)          | Linco (Ambala)        |
| POTENTIOSTAT/<br>GALVANOSTAT/<br>EIS ANALYSER | RS.<br>3141713 | 30/12/2016                            | PRINCTON<br>APPLIED<br>RESEARCH<br>( PARSTAT-4000) | Linco (Ambala)        |
| FLUOROSENCE<br>SPECTROPHOTOMETER              | RS.<br>4942922 | 14/02/2017                            | HORIBA<br>INSTRUMENT<br>( FL3C- 21 )               | Horiba<br>instruments |
| MILLI Q( WATER<br>PURIFICATION SYSTEM)        | RS.<br>1227450 | 22/02/2018                            | MERCK                                              | Linco (Ambala)        |



# ARYABHATA CENTRAL INSTRUMENTATION LABORATORY

**Digital Forensic Kit**







# ARYABHATA CENTRAL INSTRUMENTATION LABORATORY



**Potentiostat / EIS Analyzer**



# ARYABHATA CENTRAL INSTRUMENTATION LABORATORY



**Fluorescence Spectrophotometer**





# ARYABHATA CENTRAL INSTRUMENTATION LABORATORY



## Milli Q Water Purification System





# **ARYABHATA CENTRAL INSTRUMENTATION LABORATORY**

## **LIST OF INSTRUMENTS AT ACIL**

| <b>NAME</b>                                                                           | <b>COST</b>            | <b>DATE OF<br/>PURCHASE &amp;<br/>INSTALLATION</b> | <b>MAKE/<br/>MODEL</b>            | <b>SUPPLIER</b>           |
|---------------------------------------------------------------------------------------|------------------------|----------------------------------------------------|-----------------------------------|---------------------------|
| <b>HIGH SHEAR<br/>HOMOGENISER</b>                                                     | <b>RS.<br/>5251000</b> | <b>15/03/2018</b>                                  | <b>Microfluidics<br/>(M110-P)</b> | <b>Linco<br/>(Ambala)</b> |
| <b>FLEXIWAVE<br/>(ADVANCED<br/>FLEXIBLE<br/>MICROWAVE<br/>SYNTHESIS<br/>PLATFORM)</b> | <b>RS.<br/>4074186</b> | <b>15/03/2018</b>                                  | <b>CEM</b>                        | <b>Linco<br/>(Ambala)</b> |
| <b>HOT STAGE<br/>MICROSCOPE</b>                                                       | <b>Rs.<br/>3608360</b> | <b>30/7/2018</b>                                   | <b>LINCAM,<br/>DSE 600</b>        | <b>Linco<br/>(Ambala)</b> |



# ARYABHATA CENTRAL INSTRUMENTATION LABORATORY



**High Shear Homogenizer**



# ARYABHATA CENTRAL INSTRUMENTATION LABORATORY

## Flexiwave Microwave Synthesizer







# ARYABHATA CENTRAL INSTRUMENTATION LABORATORY



**Hot Stage Microscope**



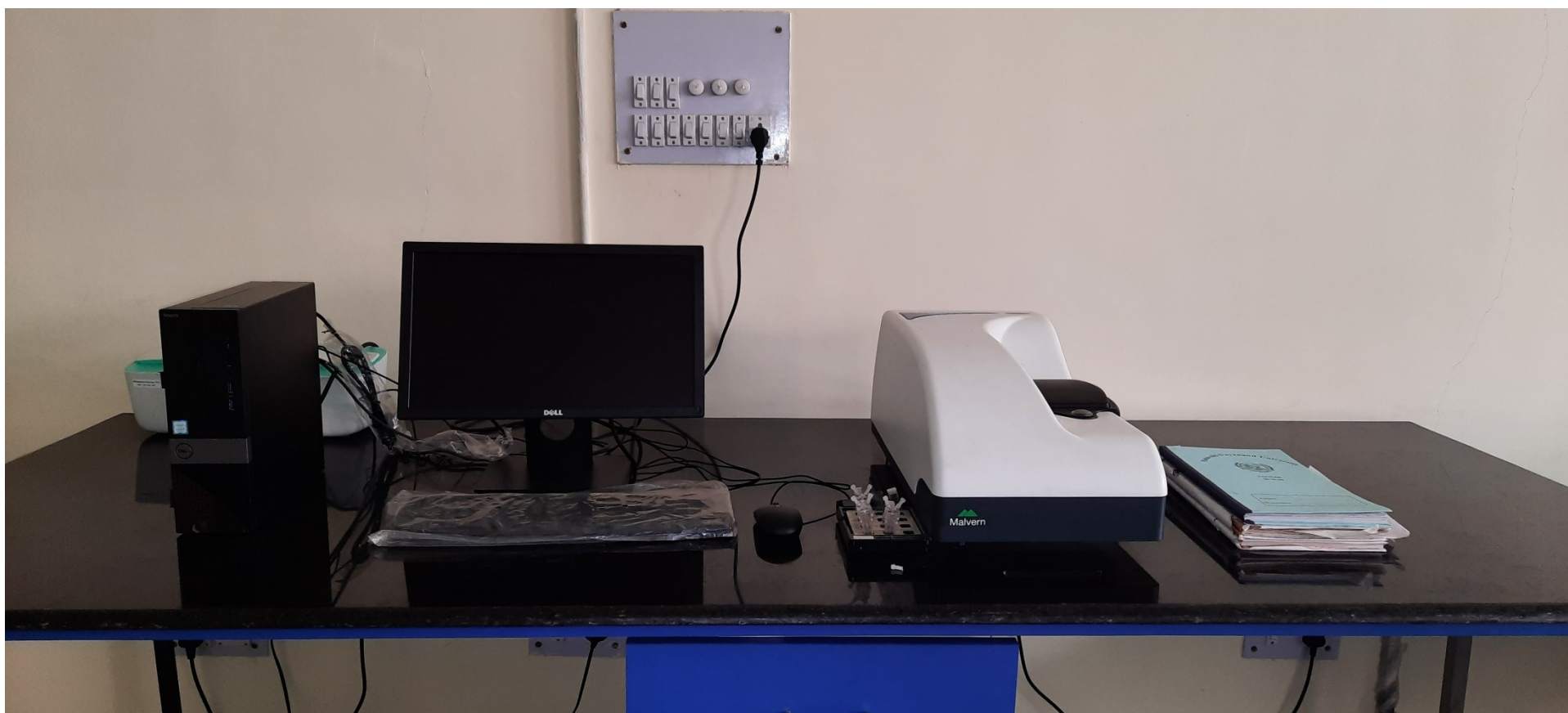
# **ARYABHATA CENTRAL INSTRUMENTATION LABORATORY**

## **LIST OF INSTRUMENTS AT ACIL**

| <b>NAME</b>                                   | <b>COST</b>            | <b>DATE OF<br/>PURCHASE &amp;<br/>INSTALLATION</b> | <b>MAKE/<br/>MODEL</b>                         | <b>SUPPLIER</b>                             |
|-----------------------------------------------|------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------------|
| <b>ZETA SIZER</b>                             | <b>Rs.<br/>4700000</b> | <b>20/03/2019</b>                                  | <b>Malvern (Nano<br/>zs)</b>                   | <b>Aimil<br/>Ltd(New<br/>Delhi)</b>         |
| <b>SURFACE AREA<br/>AND PORE<br/>ANALYZER</b> | <b>Rs.<br/>4998000</b> | <b>25/03/2019</b>                                  | <b>Quantochrome<br/>(Autosorb1Q-<br/>C-MP)</b> | <b>Linco<br/>(Ambala)</b>                   |
| <b>CHNS ANALYSER</b>                          | <b>Rs.<br/>2772000</b> | <b>27/03/2019</b>                                  | <b>Euro Vector<br/>(EA 3000)</b>               | <b>Shiva<br/>Gobal<br/>(Ghaziaba<br/>d)</b> |



# ARYABHATA CENTRAL INSTRUMENTATION LABORATORY

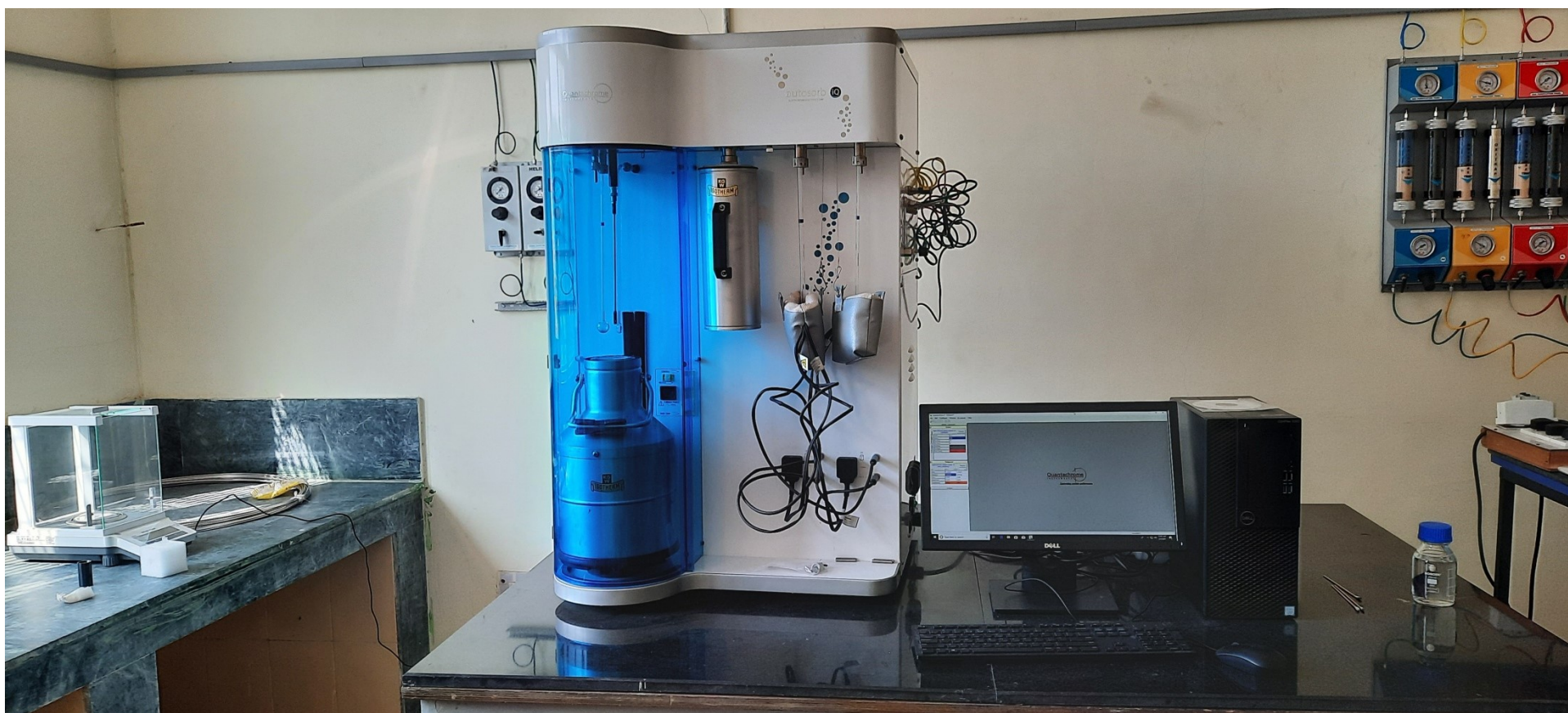


**Malvern Zetasizer**





# ARYABHATA CENTRAL INSTRUMENTATION LABORATORY



**Surface Area and Pore Size Analyzer**



# ARYABHATA CENTRAL INSTRUMENTATION LABORATORY



**CHNS Analyzer**



# **ARYABHATA CENTRAL INSTRUMENTATION LABORATORY**

## **USAGE REPORT OF EQUIPMENTS IN ARYABHATA CIL**

| <b>S.<br/>NO.</b> | <b>NAME</b>                                                            | <b>Department name</b>                                                                     | <b>Period of usage</b>                                           |
|-------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| <b>1</b>          | <b>GAS<br/>CHROMATOGRAPHY<br/>WITH MASS<br/>SPECTROPHOTOMET<br/>ER</b> | <b>Pharmacy, Botany,<br/>Biotechnology, Genetics,<br/>UIET, Microbiology,<br/>Zoology,</b> | <b>Period 2017-2020<br/>110 times ( approx.<br/>330 samples)</b> |
| <b>2</b>          | <b>DIGITAL FORENSIC<br/>KIT</b>                                        | <b>Deptt of Forensic<br/>Science</b>                                                       | <b>DNA</b>                                                       |
| <b>3</b>          | <b>FTIR</b>                                                            | <b>Chemistry,<br/>Biotechnology</b>                                                        | <b>Period 2017-2018<br/>35 times</b>                             |





# **ARYABHATA CENTRAL INSTRUMENTATION LABORATORY**

## **USAGE REPORT OF EQUIPMENTS IN ARYABHATA CIL**

| <b>S.<br/>NO.</b> | <b>NAME</b>                                           | <b>Department name</b>                                                                                                          | <b>Period of usage</b>                                            |
|-------------------|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| <b>4</b>          | <b>POTENTIOSTAT/GALV<br/>ANOSTAT/EIS<br/>ANALYSER</b> | <b>Chemistry,<br/>Biotechnology</b>                                                                                             | <b>Period 2017-2020<br/>70 times</b>                              |
| <b>5</b>          | <b>UV<br/>SPECTROPHOTOMET<br/>ER (UV-VIS-NIR)</b>     | <b>Pharmacy, Chemistry,<br/>Biochemistry, Botany,<br/>Biotechnology, Genetics,<br/>UIET, Microbiology,<br/>Zoology, Physics</b> | <b>Period 2017-2020<br/>520 times ( approx.<br/>5500 samples)</b> |



# **ARYABHATA CENTRAL INSTRUMENTATION LABORATORY**

## **USAGE REPORT OF EQUIPMENTS IN ARYABHATA CIL**

| <b>S.<br/>NO.</b> | <b>NAME</b>                                          | <b>Department<br/>name</b>         | <b>Period of usage</b>                  |
|-------------------|------------------------------------------------------|------------------------------------|-----------------------------------------|
| <b>6</b>          | <b>RHEOMETER</b>                                     | <b>Food<br/>Technology</b>         | <b>Period 2017-2020 ; 110<br/>times</b> |
| <b>7</b>          | <b>QIAXCEL ADVANCE<br/>SYSTEM/BIOANALYSE<br/>R</b>   | <b>Genetics</b>                    | <b>Not used</b>                         |
| <b>8</b>          | <b>AUTOMATED FLASH<br/>CHROMATOGRAPHY<br/>SYSTEM</b> | <b>Biotechnology,<br/>Pharmacy</b> | <b>Period 2017-2020 ; 10<br/>times</b>  |
| <b>9</b>          | <b>IMPEDANCE<br/>ANALYSER</b>                        | <b>Physics</b>                     | <b>Period 2018-2020 ; 90<br/>times</b>  |



# **ARYABHATA CENTRAL INSTRUMENTATION LABORATORY**

## **USAGE REPORT OF EQUIPMENTS IN ARYABHATA CIL**

| <b>S.<br/>NO.</b> | <b>NAME</b>                               | <b>Department<br/>name</b>         | <b>Period of usage</b>                                               |
|-------------------|-------------------------------------------|------------------------------------|----------------------------------------------------------------------|
| 10                | FLUOROSENCE<br>SPECTROPHOTOMETER          | Chemistry                          | DNA                                                                  |
| 11                | MILLI Q( WATER<br>PURIFICATION<br>SYSTEM) | All Science<br>Deptts and<br>UIET  | Period 2018-2020<br>35-45 litres in a<br>week(approx.)               |
| 12                | HIGH SHEAR<br>HOMOGENISER                 | Pharmacy,<br>Biochemistry,<br>UIET | Period 2018-2020; 30 times<br>( approx. 10-15 samples<br>every time) |





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## **USAGE REPORT OF EQUIPMENTS IN ARYABHATA CIL**

| <b>S.<br/>NO.</b> | <b>NAME</b>             | <b>Department name</b>                                                                                      | <b>Period of usage</b>                                  |
|-------------------|-------------------------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| 13                | MICROWAVE<br>SYNTHESIS  | Pharmacy, Chemistry                                                                                         | Period 2018-2020<br>50 times                            |
| 14                | HOT STAGE<br>MICROSCOPE | Pharmacy                                                                                                    | Period 2018-2020<br>20 times (approx. 100<br>samples)   |
| 15                | ZETA SIZER              | Pharmacy, Chemistry,<br>Biochemistry, Botany,<br>Biotechnology, Genetics,<br>UIET, Microbiology,<br>Zoology | Period 2019-2020<br>200 times (approx.<br>1000 samples) |



# **ARYABHATA CENTRAL INSTRUMENTATION LABORATORY**

## **USAGE REPORT OF EQUIPMENTS IN ARYABHATA CIL**

| <b>S.<br/>NO.</b> | <b>NAME</b>                                       | <b>Department name</b> | <b>Period of usage</b>                         |
|-------------------|---------------------------------------------------|------------------------|------------------------------------------------|
| 16                | <b>SURFACE<br/>AREA AND<br/>PORE<br/>ANALYZER</b> | <b>Chemistry</b>       | <b>Period 2019-2020<br/>Approx. 15 samples</b> |
| 17                | <b>CHNS<br/>ANALYSER</b>                          | <b>Chemistry</b>       | <b>Period 2019-2020<br/>Approx. 15 samples</b> |