

Annual Procurement Plan-2023-2024

List of Instruments/Equipment's 2023-2024

1. HPLC
2. Light microscope
3. Rotary evaporator
4. Soxhlet extractor
5. Shaking water bath
6. Homogenizer
7. Salinometer
8. Sonicator bath
9. Hot plate with magnetic stirrer
10. Schlenk Line Setup
11. Carousel 6 Plus Reaction Station
12. Autoclave
13. Photo reactor with LED lights
14. Refrigerator
15. Laminar air flow
16. Deep freezer
17. Mixer grinder
18. Cooker 10L
19. Chiller circulator(-10° C)
20. Digital Balance
21. Vacuum Pump
22. Freeze dryer (Lyophilizer)
23. Biosafety cabinet:
24. Fume hood
25. Flow reactor
26. Vacuum oven dryer
27. Hydraulic press
28. Multi mill
29. Inverted Microscope with Fluorescence
30. Potentiostat along with software
31. High Pressure pump
32. Air conditioner (2 or 3 TR)
33. Freeze (500 – 600 L capacity and -20 degree)
34. Weighing balance
35. Culture shaker for PTC work
36. Culture racks
37. Hollow fibre module-making potting unit
38. Peristaltic pumps
39. Weighing balance
40. Boiler (steam @ 200 Kg per hour)
41. Steam Pipe line with thermal insulation
42. High Pressure Reactor (total volume 900 L)
43. Open Vessel
44. Cold Room /Deep Freezer
45. water ring vacuum pump
46. Steam Jacketed Vacuum Nutsch Filter
47. Basket Centrifuge (24 inch)

48. SS Self Priming Centrifugal Pump (1 HP)
49. Dryer (tray type or other suitable)
50. Safety Equipment
51. Crusher machine
52. Rotary vacuumed filter drum (RVDF)
53. Peristaltic pump
54. Centrifugal pump
55. Reciprocating Pump
56. Mono Block Pump
57. Filter Press 12 plates
58. Vacuumed pump with moisture filter (Lab)
59. Cold room Mini
60. Digital weight balance
61. Solar dryer C
62. Laboratory tray dryer
63. Tube furnace (pilot scale)
64. Solar flat plate water heater
65. ETC water heater
66. Laboratory heat pump
67. Dehumidifier
68. ANSYS Server upgradation 24 core
69. Smoke Detector Panel
70. Multipurpose Fire Fighting Nozzles
71. Breathing Apparatus
72. Fire Extinguishers CO₂ 6.5 Kg.
73. Fire Extinguishers DCP (ABC) 09 Kg.
74. BET Surface Area Analyzer
75. Adsorption Breakthrough Reactor
76. 25 L Reactor (Zeolite/Silica)
77. Digital Syringe pump
78. Potentiostat
79. FTIR
80. UV-VIS spectrophotometer
81. Pressurized Liquid nitrogen Dewar
82. Potentiostat with impedance measurement
83. Apparatus for Vapour-Liquid Equilibria
84. Bromine recovery experimental unit
85. Flame Photometer
86. Weigh bridge (50-60 ton)
87. Automatic weather station with Data logger
88. Vessel with agitator
89. Centrifuge (large size)
90. Pilot scale screw type salt washing unit
91. Pilot scale cyclone type salt washing unit
92. Tray dryer
93. Drilling machine
94. Lathe machine

Five Year Procurement Plan-2023-2024

List of Instruments/Equipment's for 2023-2028

1. Cold cabinate (10 to 20 °C)
2. Multi-thermo incubator
3. Vacuum evaporator
4. Basket centrifuge
5. Crusher
6. Portable multiparameter analyser
7. Auto analyser for nutrient analysis
8. UV Vis Spectrophotometer (multi reader)
9. Gel documentation system
10. PCR machine
11. Electrophoresis setup
12. Weighing balance
13. Culture racks with lights for seedling production
14. Gas stove with regulator
15. Rotary evaporator complete system with pump and chiller
16. Digital Magnetic stirrers
17. Flash Chromatography Systems
18. Vacuum pumps
19. Deep Freezer
20. Autoclave
21. Centrifuge machine
22. Computers
23. Printers
24. Tube furnace
25. Rotatory evaporator
26. Thin Film making machine
27. MS-based purification system
28. HPLC
29. Freeze dryer (Lyophilizer)
30. Multimode microplate reader
31. Rotary evaporator
32. Biosafety cabinet:
33. Fume hood
34. Refrigerated centrifuge:
35. Solvent cabinet
36. Solid phase extraction unit
37. Sample concentrator
38. Bunsen burner
39. Freezer (-20 C):
40. Refrigerator
41. Photo reactor with LED lights

42. Rotary evaporator complete system with pump and chiller
43. Chiller circulator(-10 C)
44. Digital Balance
45. Vacuum Pump
46. High-pressure reactor (50 mL)
47. Algae growth chamber
48. Growth chamber
49. Greenhouse
50. Reinforced hollow fiber spinning unit
51. Filter press 24 plates
52. Fluidized bed dryer (FBD)
53. Tubular centrifuge
54. Chiller plant (big)
55. Chiller Plant (lab Scale)
56. Jaw crusher
57. Open pan evaporator
58. Autoclave 25 lit capacity with pump, HMI panel , Pumps , and Structure
59. 16+20 data logging system
60. Stirling Engine
61. Solar membrane distillation testing system
62. Total UV meter
63. Fire Hydrant System (Internal & External)
64. CHNSO
65. Fluorimeter steady state
66. GCMS
67. HPLC
68. MilliQ
69. FE-TEM
70. LC-QToF
71. FT-NMR
72. Hot-stage microscope