

Annual Procurement Plan 2023-24 (Amended)

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| 1 | 10 TPB MSW pilot plant machinery |
| 2 | 3-point bend test apparatus |
| 3 | 3-Roll Mill |
| 4 | -80° C storage unit |
| 5 | Air Compressor with Piping |
| 6 | Ambient Air Samplers PM1, PM2.5 PM10 & Gaseous |
| 7 | Analytical Microbalance |
| 8 | Analytical semi microbalance |
| 9 | Anti vibration table |
| 10 | ArcGIS pro mapping software along with ArcGIS online |
| 11 | ATLAS Qualitative Data Analysis software |
| 12 | ATR-FTIR |
| 13 | Automated fully Autoclaving Unit |
| 14 | Automatic colony counter |
| 15 | Bacteriological incubator |
| 16 | Bakery Processing line |
| 17 | Bench scale Ultra-pure, Milli-Q water purification Unit |
| 18 | Bioprocess model large volume centrifuge (continuous flow centrifuge) |
| 19 | Biosafety Cabinet |
| 20 | Blower |
| 21 | BOD Incubator |
| 22 | Bomb calorimeter |
| 23 | Centrifuge |
| 24 | Chemical storage cabinet |
| 25 | CO2 incubator for mushroom cultivation |
| 26 | Coating Machine |
| 27 | COD digester |
| 28 | COD reactor |
| 29 | Conductivity Meter (Bench Top) |
| 30 | Cooling centrifuge (floor standing, variable temperature from -4°C , 20000g) |
| 31 | Custom Design Extrusion Mould-1 |
| 32 | Custom Design Extrusion Mould-2 |
| 33 | Customized respirometer |
| 34 | Customized waste plastic pyrolysis unit |
| 35 | Deep freezer (-20°C) |
| 36 | Dehumidifier |
| 37 | Desktop computer |
| 38 | Device Exhibition Cabinet / Storage Cabinet |
| 39 | Differential Scanning Calorimeter |
| 40 | Dissolved Oxygen Meter |
| 41 | Dissolved Oxygen Meter (Bench Top) |
| 42 | Dry air compressor |
| 43 | Dual gas sensor |
| 44 | Femtosecond Transient Absorption Pump-Probe Infrared Spectrometer |
| 45 | Fermenter (In situ sterilizable) |
| 46 | Field data acquisition rugged laptop |
| 47 | Filtration Unit with Vacuum Pump |
| 48 | Finer resolution geospatial frames /Input features |

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| 49 | Firewall |
| 50 | Flexural Strength apparatus |
| 51 | Flow table |
| 52 | Foam Analyzer |
| 53 | FTIR analyzer for solids, liquids and hybrid materials |
| 54 | Fumehood |
| 55 | GC MS |
| 56 | General purpose laptops |
| 57 | Glass Cutter |
| 58 | Glove box integrated Thermal Evaporation Unit |
| 59 | H2 Gas adsorption and desorption analyzer |
| 60 | High end workstation/ computational machineries |
| 61 | High precision balance |
| 62 | High precision source meter |
| 63 | High Resolution Color Calibration Screen |
| 64 | High Resolution Spectrometers |
| 65 | Hot air and vacuum ovens |
| 66 | Hot Air Oven |
| 67 | Hotplate with magnetic stirrer |
| 68 | HPLC with RAD detector |
| 69 | HPLC with PDA, FL and RID detector |
| 70 | Humidity chamber (1000L) |
| 71 | Hydroponics |
| 72 | Ice machine |
| 73 | ID Card Printer |
| 74 | Immersion chiller (Partial payment) |
| 75 | Incubator shaker |
| 76 | Ink Mixer cum Homogenizer |
| 77 | Interactive display panel for Geospatial modelling and Analysis |
| 78 | IPCE |
| 79 | IR LED Source with accessories |
| 80 | Keithley |
| 81 | KJeldahl Nitrogen Analyzer |
| 82 | Laser Scriber |
| 83 | Laser/Inkjet printer |
| 84 | Light meter |
| 85 | Liquid chromatography coupled with Triple Quadruple Mass Spectrometer |
| 86 | LUX meter |
| 87 | Magnetic stirrer with hot plate |
| 88 | Marine Sampling Equipments (Plankton nets, Sediment Grab, Bottom water sampler, flowmeter etc. |
| 89 | Mass flow meter |
| 90 | Materials and Coating testing setup for AC and DC |
| 91 | Materials Printer |
| 92 | Measuring microscope |
| 93 | Microbalance |
| 94 | Microbalance with Antivibration Table |
| 95 | Microcentrifuge |
| 96 | Microplate Luminometer |
| 97 | Mid back chairs |

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| 98 | Mortar mixer |
| 99 | MPPT tracking/stability testing unit with EIS |
| 100 | Muffle Furnace |
| 101 | Multiparameter |
| 102 | Network core switch and compatible layer 2 access switches |
| 103 | NFT Kits (s) for Outdoors-5 Ch/40 Plants |
| 104 | Noldus face reader |
| 105 | Optical microscope |
| 106 | Optics mould |
| 107 | Orbital shaker |
| 108 | PAH air sampler |
| 109 | PC Workstation |
| 110 | Pen type TDS meter 2 nos. |
| 111 | pH Meter |
| 112 | Phase contrast microscope |
| 113 | Photoreactor |
| 114 | Pilot scale flaking unit |
| 115 | Pilot scale vegetable slicer and dicer |
| 116 | PM Kit for AAA LC including Lamp |
| 117 | PM Kit for GPC System Including Lamp |
| 118 | PM Kit for HPLC System Including Lam |
| 119 | Portable UV Vis spectrophotometer |
| 120 | Powder Feeding System into Alloy Melt |
| 121 | Power meter |
| 122 | Precision Balance |
| 123 | Probe sonicator |
| 124 | Probe Station |
| 125 | Probe ultrasonicator |
| 126 | Quantum sensor with data logger |
| 127 | Reactor set up for sorbent testing (includes Gas analyser/GC separately) |
| 128 | Recirculating chiller |
| 129 | Refrigerating Centrifuge |
| 130 | Refrigerator |
| 131 | Retort and canning |
| 132 | Rheometer |
| 133 | RID 20 A detector for HPLC (1) |
| 134 | Rolling Machine |
| 135 | Rotary evaporator |
| 136 | Rotary evaporator with chiller and vacuum pump |
| 137 | Sample Storage Equipment |
| 138 | Semi-automatic round can seaming machine |
| 139 | Server infrastructure/computational machineries |
| 140 | Shaker |
| 141 | Shaking water bath |
| 142 | Single Crystal X-ray Diffractometer |
| 143 | SLA 3D Printer |
| 144 | Solar drier |
| 145 | Solar Simulator |
| 146 | Solid waste grinder |

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| 147 | Sorption / Breakthrough analyser |
| 148 | Spectral Monochromator with Integrating sphere |
| 149 | Spectrophotometer |
| 150 | Spin Coater |
| 151 | Storage cabinet for keeping large area EC glasses |
| 152 | Table top FTIR with microscope |
| 153 | Table Top Spray coater system |
| 154 | TE module array QC testing: Precision AC/DC system with software and accessories |
| 155 | Thermocycler |
| 156 | Thermogravimetric Analyzer |
| 157 | Tray /vacuum drier |
| 158 | Ultrafil biofilter |
| 159 | Ultrasonic bath |
| 160 | Unmanned Aerial Vehicles (UAVs) with RGB, Multispectral scanner and thermal scanner along with software's required for processing of data |
| 161 | Upgradation of vacuum furnace |
| 162 | Upgradation of dye solar module facility |
| 163 | UV irradiation Set up |
| 164 | UV lamp with cabinet |
| 165 | Vacuum packaging machine |
| 166 | Vacuum Filters |
| 167 | Vacuum Pump |
| 168 | Walk in Cold Room |
| 169 | Wall mounted fans 4 nos. |
| 170 | Windows server operating system |
| 171 | Wireless controller and wifi Access points |
| 172 | Work station modules |
| 173 | Workstation Computer |
| 174 | Workstation for AAA HPLC with Lab Solution Software |
| 175 | Workstation for GPC-LC with Lab Solution and GPC Control Software |
| 176 | Workstation for HPLC with Lab Solution and GPC Control Software |

Disclaimer:

The procurement plan (2023-24) is not intimation of procurement by CSIR-NIIST, Trivandrum. In addition, this procurement plan does not cost any obligation on Director, CSIR-NIIST to issue bidding document. Prospective bidders may take note of this plan. The procurement is subject to fund availability during the current financial year. The Annual procurement plan is subject to updation on commencement of new programmes/projects and other emergency requirements/replacements subject to fund availability in the Financial Year 2023-2024.