

ANNUAL PROCUREMENT PLAN
FOR THE FINANCIAL YEAR 2026-2027

Sl No	Name of the equipment
1	10 TPB MSW pilot plant machinery
2	10G ready Network Module
3	17 kW on-grid inverter
4	18 kW off-grid inverters
5	5-25 KVA Online UPS
6	3D Printer
7	3D Profilometer
8	3D Rocker
9	3-point bend test apparatus
10	3-Roll Mill
11	5 Parameter Tablet Tester
12	5.5 TR Ductable AC units
13	500 MHz NMR
14	500 MHz NMR Spectrometer
15	500L fermenter with seed fermenter and downstream equipment
16	Abrasion Tester
17	Accelerated testing chamber
18	Advanced 3D Food Printer
19	AEM alkaline electrolyser
20	Air Compressor with Piping
21	Air conditioning unit based on cold storage
22	Alcohol determination apparatus
23	All-in-one Electrical & Optical Characterization of LEDs and Solar Cells (Paicos Tool)
24	All-in-one solar cell characterization unit
25	Aluminum slide trays
26	Ambient Air Samplers PM1, PM2.5 PM10 & Gaseous
27	Amino acid analyzer
28	Analytical Microbalance
29	Analytical Semi microbalance
30	Anti-vibration table
31	ArcGIS pro mapping software along with ArcGIS online
32	ARKA /EYE DROPS – Separate filling unit
33	ARKA Machine (Distillation machine)
34	ATLAS Qualitative Data Analysis software
35	Atmospheric Pressure- Gas Chromatography Tandem Mass Spectrometer (APGCMSMS)
36	Atomic absorption spectrophotometer
37	Autoclave
38	Automated Autoclaving Unit
39	Automated high temperature autoclave
40	Automatic colony counter
41	Automatic filling machine, packing and labeling machine with conveyor belt
42	Automatic film applicator with accessories
43	Automation of epifluorescence microscope

44	Bacteriological incubator
45	Bakery Processing line
46	Bath Sonicator
47	Bench scale Ultra-pure, Milli-Q water purification Unit
48	Bioaerosol monitoring unit with accesories
49	Bio-electrochemical unit
50	Biodegrdable rotary model for live demonstartion
51	Biodrying reactor with process ventilation
52	Bio-physical unit
53	Biopolymer Production Line
54	Bioprocess model large volume centrifuge (continuous flow centrifuge)
55	Bioreactor
56	Biosafety cabinet
57	Blistering machine (semi automatic)
58	Blower
59	BOD incubator
60	Boiling point determination apparatus
61	Bomb calorimeter
62	Bulk density tester
63	Camera lucida Prism type and mirror type.
64	Capsule Machine
65	CCTV Surveillance system security
66	Cell analyser
67	Centrifuge machine
68	Chemical storage cabinet
69	Chiller
70	CHNS analyser
71	Circular Dichroism Spectrometer
72	Cizer mill (7.5 HP)
73	Class 100 Laminar Flow
74	Closed geo-spatial seating place aluminum and PVC sheet
75	CNC Laser machine
76	CO ₂ incubator for mushroom cultivation
77	CO ₂ /H ₂ O trace gas analyzer with data visualization and processing interface
78	CO ₂ sorbent evaluation facility (upgrade — multicomponent gas capability)
79	Coating Machine
80	COD digester
81	COD incubator
82	COD reactor
83	Coffee Dispensing Machine
84	Commercial PEM electrolyser and BoS components
85	Compression molding press (Mini hot press)
86	Computers and workstation for AI work
87	COMSOL Multiphysics Simulation Software
88	Continuous leather processing Unit
89	Conductivity Meter (Bench Top)
90	Conference room chair
91	Confocal Raman Microscope coupled with AFM
92	Cooling centrifuge (floor standing, variable temperature from -4°C , 20000g)

93	Cooling system for Computational Facility
94	Cream /Ointment Filling Machine
95	Cream maker
96	Custom Design Extrusion Mould-1
97	Custom Design Extrusion Mould-2
98	Customized respirometer
99	Customized waste plastic pyrolysis unit
100	Custom-made Electrolyte Filling Unit
101	Data Acquisition System with USB, LAN and GPIB
102	DC Motor vortex mixer
103	Decanter Centrifuge for Pilot Plant
104	Deep freezer (-20°C)
105	Deep Learning Workstations
106	Dehumidifier
107	Deionized water equipment
108	Desktop computer
109	Device Exhibition Cabinet / Storage Cabinet
110	Differential Scanning Calorimeter (DSC)
111	Digital PCR machine with accessories
112	Digital Storage Oscilloscope with High Impedance Probe
113	Disintegration Test apparatus
114	Disintegrator and pulverizer (contact part stainless steel)
115	Displaying technology videos
116	Dissecting microscope
117	Dissolution testing apparatus
118	Dissolved Oxygen Meter
119	Drug boiler = 1500 Ltr * 2
120	Dry air compressor
121	Dual gas sensor
122	Dye coating unit with multiple chambers with temperature and flow control.
123	Dynamic Mechanical Analyzer
124	ED-XRF
125	Electric Bunsen burner
126	Electrical BoS for pilot plant
127	Electro spinning unit
128	Electrochemical in-situ FTIR spectroscopy
129	Electrochemical single fuel cell test station
130	Electrochemical Workstation / Impedance Spectroscopy
131	Electrolyser Test Station
132	Electronic balances
133	Electronic nose system
134	Emissometer
135	Environmental growth chamber
136	Examination table with mattress and pillow
137	Fast-ramp Furnace

138	Femtosecond laser micro machining system
139	Femtosecond laser system (Oscillator)
140	Femtosecond Micromachining for Optical Data Storage
141	Femtosecond Seed Laser System
142	Femtosecond Transient Absorption Pump-Probe Infrared Spectrometer
143	Fermenter (In situ sterilizable)
144	Fermenter 5 L coupled with Raman Spectroscopy
145	Fermentation vessel (Stainless steel with 3mm thickness) 1000 L * 3
146	Field data acquisition rugged laptop
147	Field pilot units for waste treatment and remediation
148	Filed spectrometer with with data visulization and processing interface
149	Film applicator
150	Filtering unit
151	Filtration Unit with Vacuum Pump
152	Finer resolution geospatial frames /Input features
153	Firewall
154	Flash Chromatography System
155	Flexural Strength apparatus
156	Flow Chemistry System (continuous flow reactor)
157	Flow Cytometer
158	Flow table
159	Flow Through Dissolution Tester
160	Fluorescence spectrometer
161	Foam Analyzer
162	Forced air convention drying
163	Franz diffusion cell
164	Freeze-dry lyophilizer
165	FRK Line
166	FT- Infra Red Spectrometer (with ATR and Variable Temperature Accessories)
167	Fully automated preparative liquid chromatography
168	Fumehood
169	Furnaces
170	Gas Chromatograph- single Quad Mass Spectrometer with Purge and Trap system
171	Gas flowmeter
172	GC MS
173	GC with TCD/FID detector and columes
174	GC-ORBITRAP-HRMS
175	GEL Capsule Filing Machine
176	Gel Doc gel documentation system
177	Gel documentation system
178	General purpose laptops
179	Glass Cutter
180	Glass distillation apparatus
181	Glass Frit based sealing system
182	Glove box
183	Glove box integrated Thermal Evaporation Unit
184	Granulator (3 HP)
185	Green liquid UAN fertilizer manufacturing unit
186	H ₂ Gas adsorption and desorption analyzer
187	Haber-Bosch process unit
188	Hall Measurement System

189	Heating oven
190	High resolution fluorescence microscope spares
191	High end workstation/ computational machineries
192	High performance anion exchange chromatography (HPAEC)
193	High Performance Liquid Chromatograph (HPLC)
194	High Performance Portable Workstation
195	High precision balance
196	High Precision Source Meter
197	High pressure batch reactor
198	High pressure high temperature reactor
199	High Pressure leach reactor
200	High Pressure Processing Unit
201	High pressure vessel
202	High Resolution Color Calibration Screen
203	High Resolution Spectrometers
204	High Speed Centrifuge
205	High Temperature Furnace
206	High Vacuum Pump
207	High-precision Current/voltage source measure units
208	Hot air and vacuum ovens
209	Hot air gun
210	Hot Air Oven
211	Hot plates
212	Hot press system
213	Hotplate with magnetic stirrer
214	HPLC (Preparative)
215	HPLC coupled atomic fluorescence spectrometer
216	HPLC with PDA, FL and RID detector
217	HPLC with RAD detector
218	HPLC:Analytical cum semi-preparative chromatography
219	HPTLC
220	Humidity chamber (1000L)
221	Hydroponics
222	Ice machine
223	ICP OES
224	ID Card Printer
225	Image Analytic System with H100 94GB Platform
226	Immersion chiller (Partial payment)
227	Incubator shaker
228	Inductively coupled Plasma Optical Emission Spectrometer
229	Infrared Camera
230	Injection moulding unit
231	Ink Mixer cum Homogenizer
232	Inket Printer for Customised Inks
233	Inkjet materials printer
234	Installation of outdoor led Display system

235	Integrated optoelectronic measurement unit
236	Integrating Sphere Spectrophotometer
237	Interactive display panel for Geospatial modelling and Analysis
238	Inverted Phase contrast microscope
239	Inverter system with Battery/UPS
240	Inverter with other accessories
241	In-vitro gastrointestinal system
242	IPCE Measuring system
243	IPCE and Solar Simulator System
244	IR LED Source with accessories
245	Jet Valve Dispensing System
246	Juice extracting machine (10 HP)
247	Karl Fisher titrator
248	Kelvin-Probe Force Microscope
249	KJeldahl Nitrogen Analyzer
250	Kneader machine
251	Laboratory Centrifuge machine with accessories
252	Laboratory Incubator Shaker
253	Laminar air flow bench
254	Large volume high speed centrifuge
255	Laser Scriber
256	Laser/Inkjet printer
257	LC-MS/MS for proteomics including libraries
258	Leaf State Analyzer
259	LED Display Panel
260	LED Solar Simulator
261	LED TV
262	Light meter
263	Line quantum sensor, PAR sensor, display meters and accessories
264	Linux Server for DL with A100, 80 GB GPU
265	Liquid chromatography coupled with Triple Quadruple Mass Spectrometer
266	Lovibond Color Meter
267	Low Temperature Printer
268	LPG cylinder with burners.
269	LUX meter
270	Lyophilizer (Freeze-dryer) with accessories
271	Lyophilizer for DNA purification
272	Magnetic stirrer with hot plate
273	Marine Sampling Equipment
274	Mars Analogous Weather Chamber
275	Mask aligner
276	Mass flow meter
277	Mass mixer
278	Materials and Coating testing setup for AC and DC
279	Materials Printer
280	Measuring microscope
281	Mechanical durability testing system for flexible devices

282	Melting point apparatus
283	Membrane bioreactor
284	Micro pulveriser
285	Micro slide cabinet
286	Micro wave assisted extractor/synthesize
287	Microalgae live model sensor
288	Microbalance
289	Microcentrifuge
290	Microfluidics
291	Microplate Luminometer
292	Microplate spectro photo meter
293	Microscope binocular
294	Microtome
295	Microwave assisted extractor/synthesize
296	Microwave furnace
297	Microwave oven
298	Microwave Reactor
299	Mid back chairs
300	Miscellaneous items ranging from 2.5 to 5 lakhs
301	Module Assembling Unit
302	Moisture determination apparatus
303	Molecular Profiling and Omics Facility
304	Mortar mixer
305	Mould
306	MPPT tracking/stability testing unit with EIS
307	Muffle furnace
308	Multi channel Electrochemical workstation
309	Multichannel Potentiostat
310	Multimeter with datalogger
311	Multimode Microplate Reader
312	Multiparameter
313	Nano UAV Drone camera
314	Nanodrop microvolume spectrophotometer
315	Nanoindenter
316	Nanoparticle tracking analysis (NTA)
317	Nanosecond laser system
318	Nanosecond Transient Absorption Spectrometer
319	NAS 200TB upgradable to 1PB
320	Network core switch and compatible layer 2 access switches
321	NFT Kits (s) for Outdoors-5 Ch/40 Plants
322	Nitrogen cylinder
323	Nitrogen Evaporator
324	Nitrogen Generator
325	NMR 400 MHz
326	Noldus face reader
327	Ocular micrometer
328	Oil Expeller
329	Open weighing balance

330	Optical Emission Spectrometer
331	Optical microscope
332	Optical Power meter
333	Optics mould
334	Orbital shaker
335	Oscilloscope
336	Outdoor Led Display System
337	Overhead Stirrer
338	Packaging Laminate Machine
339	PAH air sampler
340	Pan = 500 L * 2
341	Pan with stirrer = 500 L * 1
342	Paper shredding Machine
343	Partice image velocimetry
344	Particle size analyzer with zeta potential
345	PC Workstation
346	Pen type TDS meter 2 nos.
347	Peristaltic Pump
348	Personal computers for analysis
349	PH and Conductivity meter
350	pH meter
351	Phase contrast microscope
352	Phosphate analyser
353	Photoelectron Yield Spectrometer (PYS)
354	Photoreactor
355	Pilot plant for critical Minerals Extraction
356	Pilot Scale Equipment for Sustainable food packaging and testing
357	Pilot scale flaking unit
358	Pilot scale grains flaker machine
359	Pilot-scale printing facility
360	Pilot scale vegetable slicer and dicer
361	Plain incubator
362	Plant growth chamber
363	PM Kit for AAA LC including Lamp
364	PM Kit for GPC System Including Lamp
365	PM Kit for HPLC System Including Lam
366	Polarimeter
367	Polymer compounding twin-screw sheet extruder unit and mold
368	Portable biogas analyzer with data logget
369	Portable FTIR Multigas Ambient gas analyzer
370	Portable O ₂ analyzer
371	Portable power analyzer
372	Portable Raman Spectrometer
373	Portable Reaction Monitoring Equipment
374	Portable Stack Gas Analyzer
375	Portable UV Vis spectrophotometer
376	Potentiometer autotitrator
377	Potentiostat with accessories for electrical and optical perturbation

378	Powder Feeding System into Alloy Melt
379	Powder filling and packing machine
380	Power meter
381	Precision Impedance Analyser with Temperature Controller Set-up for Dielectric Spectroscopy
382	Precision Impedance Analyzer with Temp. Controller set up
383	Precision Impedance Spectroscopy
384	Precision Spray Coating System
385	Precision Water bath
386	Pressure Swing Adsorption (PSA) process unit
387	Probe Sonicator
388	Probe station
389	Probe ultrasonicator
390	Protein purification system
391	Proton Transfer Reaction Time of Flight Mass Spectrometer
392	PTT Laser with Camera
393	Pulsed Electrodeposition
394	Pulverizer (10 HP)
395	Pyranometer
396	Pyrolysis-LC/MS
397	Quantum sensor with data Logger
398	Quantum sensors & Microenvironment Data Acquisition System
399	R & D use Induction cooker
400	R&D level turnkey module manufacturing and characterization unit
401	Rapid Prototyping Machine
402	Rapid Visco Analyzer
403	Reactor Cleaning System
404	Reactor set up for sorbent testing (includes Gas analyzer/GC separately)
405	Real Time PCR
406	Recirculating Chiller
407	R&D solar module and precisionoptics manufacturing facility
408	Refractometer
409	Refrigerating Centrifuge
410	Refrigerator
411	Retort and canning
412	Rheometer
413	RID 20 A detector for HPLC (1)
414	Roll-to-roll printing system for flexible electronics
415	Rolling Machine
416	Rotary evaporator
417	Rotatory Evaporator with accessories
418	Sample Storage Equipment
419	Sanitary Napkin incinerator machine
420	Semi-automatic 5L lab fermenter with all accessories and PID control and software with cascade control
421	Scanning electrochemical work station
422	Scanning kelvin probe
423	Screen Printers
424	SDS Gel Electrophoresis with power pack
425	Semi-automatic round can seaming machine

426	Serological water bath.
427	Server infrastructure/computational machineries
428	Shaker
429	Shaker incubator
430	Shaking water bath
431	Shore hardness tester
432	Shredding Machine
433	Si based Solar power plant (Capacity= 700kWp)
434	Sieve Capacity Tester
435	Silica crucible
436	SLA 3D Printer
437	Slot die coating system
438	Soft gelatin capsule filling machine
439	Soft lithography chip fabrication workstation
440	Solar cell laser cutter
441	Solar drier
442	Solar module encapsulation unit
443	Solar Simulator
444	Solar Simulator and IV measurement system with KeithleySMU
445	Solid waste grinder
446	Sorption / Breakthrough analyser
447	Source Measuring Unit
448	Spectral Monochromator with Integrating sphere
449	Spectro electrochemical FT-IR
450	Spectrophotometer
451	Spectroradiometer
452	Spin Coater
453	Spin Coater from Laurel
454	Spray freeze dryer setup
455	Spray dryer with granulator
456	Stability Chamber
457	Stage micrometer
458	Standard photo diode power sensor
459	Steam boiler
460	Storage unit (-80° C)
461	Storage vessel (stainless steel 16 gauge thickness) 1000 L * 2
462	Stylus profilometer
463	Synopsys High Specular Bench
464	Synopsys TIS Pro
465	Table top FTIR with microscope
466	Table Top Spray coater system
467	Tablet disintegration apparatus
468	Tablet dissolution tester
469	Tablet friability tester
470	Tablet machine
471	TE module array QC testing, with software and accessories

472	Temperature control system or process system
473	Temperature controlled press
474	Texture analyzer
475	Texture profile Analyzer
476	Thermal conductivity measurement unit
477	Thermal plant
478	Thermocycler
479	Thermogravimetric Analyzer
480	Tissue Homogenizer
481	TKN analyzer (digestion with ammonia distillation)
482	TLC apparatus
483	Transfer vessels 200L*4
484	Tray /vacuum drier
485	Triple walled glass reactor of 1L, 2L, 3L, 5L with an overhead stirrer
486	Turbo Molecular Pump
487	Two roll mill for Rubber formulation
488	UAV based Hyperspectral Imaging system
489	UHPLC with PDA and RID detector
490	Ultra low temperature freezer
491	Ultra violet /Visible spectrometer
492	Ultrafil biofilter
493	Ultrapure water purification system
494	Ultrasonic spray system
495	Ultrasonicator Bath
496	Universal grinder/pulveriser (lab model)
497	Universal Hardness Tester
498	Unmanned Aerial Vehicles (UAVs) with RGB, Multispectral scanner
499	Upgradation of existing epifluorescent microscope
500	Upgradation of the existing CFA
501	Upgradation of vacuum furnace
502	Upgradation of dye solar module facility
503	UV chamber
504	UV irradiation Set up
505	UV Lamp Housing for TLC
506	UV-Vis Spectrophotometer
507	UV-Visible NIR Spectrometer (with temperature and solid state accessories)
508	Vacuum packaging machine
509	Vacuum cleaner
510	Vacuum extractor
511	Vacuum Filters
512	Voltex Mixer
513	Vortex machine
514	Walk in Cold Room
515	Walk-in Dry box unit for solar cell fabrication (clean room)
516	Wall mounted fans 4 nos.
517	Water bath Shaker

518	Water Dispenser
519	Water distillation Unit
520	Water Purification System
521	Water Quality Analyzer
522	Water vapour permeability tester
523	Weathering Chamber
524	Wet magnetic separator
525	Wireless controller and wifi Access points
526	Workstation for AAA HPLC with Lab Solution Software
527	Workstation for GPC-LC with Lab Solution and GPC Control Software
528	Workstation for HPLC with Lab Solution and GPC Control Software

Disclaimer:

The procurement plan (2026-27) 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 2026-2027