Updated on 16/10/2026

CSIR-North East Institute of Science and Technology

Procurement Plan (Equipments)

Financial Year 2026-27

[A] Equipment:

Table-1: Equipment for procurement during the FY 2026-27 and subsequent 3 – 5 years (under Non-project mode; out of CSIR Grant / Lab Grant): P50

Financial Year 2026-2031

Sl. No.	**Name of the Equipment /Item**	Quantity	Rs. (Lakhs)
1.	Server Rack	2	6.00
2.	DigitalModifiedMarshallApparatus,100kNfor4"& 6" dia sample	1	2.82
3.	AutomaticCompactorforBituminousMixesfor4"& 6" moulds	1	2.09
4.	Laboratory Electric Oven, Digital Indicator Cum ControllerwithSafetyAlarm,Range 50°Cto300°C.+/- 1°CwithAirCirculatingFan,S.S.Inside,Size600 X 600 X 600mm	1	0.67
5.	Laboratory Electric Oven, Digital Indicator Cum ControllerwithSafetyAlarm,Range 50°Cto300°C.	1	0.67
6.	PavementCoreDrillingMachine	1	1.85
7.	Ductility Testing Machine with Digital Temp & displacement Indicator	1	1.26
8.	Asphalt Mixer, 5Lt	1	0.98
9.	Skid ResistanceTester	1	0.88
10.	Mastic Asphalt Tester	1	0.99
11.	Thin Film Oven	1	0.75
12.	RollingThinFilm Oven	1	5.34
13.	Desktop Computers	8	8.80
14.	Sanitary Pad vending Machine with incinerators	22	6.50
15.	High Speed Flatbed A3 Scanner having performancewith2400 dpi or more resolution and high optical resolution of 2,400 x 4,800 dpi or more for Herbarium specimen scanning(1 no)	1	3.00
16.	One Gradient Thermocycler (PCR)	3	18.00

17.	(-20) ˚C Upright Freezer	1	0.85
18.	4˚C Freeze with of 363 litre with twin cooler	4	4.8
19.	Shaker incubator	1	4.50
20.	Lyophilizer	1	6.00
21.	Ice flaking machine	1	4.00
22.	Weighing Balance	3	9.00
23.	Centrifuge (swing bucket)	1	4.00
24.	Milli q water purification system	1	8.00
25.	Laminar Air Flow	4	8.00
26.	BOD incubator	1	2.00
27.	Plant growth Gravitropism system	9	0.45
28.	Distillation unit	1	0.25
29.	Autoclave	1	1.50
30.	Air conditionar	2	2.00
31.	Soxhlet	1	1.00
32.	DSLR Camera (1 nos)	1	1.00
33.	GC (Gas Chromatogram)	1	18.00
34.	Essential Oil Distillation unit	1	2.00
35.	Kjeldahl system 6.60	1	6.60
36.	Multimode ELISA plate reader 20.00	1	20.00
37.	Freeze (-20^{o}C) 1.3	1	1.30
38.	Freeze (-4^{o}C) 1000 litre 1.5	1	1.50
39.	Laminar air flow chamber (4 lakhs)	1	4.00
40.	Autoclave machine (3.5 lakhs)	1	3.50
41.	Magnetic stirrer with hot plate (0.7 lakhs)	1	0.70
42.	Micropipette (1.5 lakhs)	1	1.50
43.	Vortex (0.1 lakhs)	1	0.10
44.	Desktop computer Set with printer and UPS	1	1.2
45.	Muffle Furnace	1	2.00
46.	Xerox Machine	1	1.50
47.	Colour Printer	1	0.20
48.	PH meter	1	0.80
49.	Low Volume UV-Vis Spectrophotometer with Power Backup	1	13.00
50.	Gel Documtation System with stabilizer	1	12.80
51.	Electrophoresis system	1	3.00

52.	Transgene-free biosafety net house	1	12.00
53.	Refrigerated Centrifuge	1	13.00
54.	Autoclave (2 mini and 2 large)	4	4.80
55.	Water Bath	1	0.20
56.	Ultrasonic probe sonicator	1	10.00
57.	Ultra-Low Temperature Freezer	1	15.00
58.	Temperature-controlled Humidity Chamber	1	8.00
59.	Handheld GPS	1	1.50
60.	pH Meter	1	1.50
61.	Water bath	1	3.20
62.	Small Tea Processing Unit	1	15.00
63.	Hot air oven/ Air drier	1	2.50
64.	Desktop	3 Nos	3.00
65.	Microwave oven	1 No	1.00
66.	pH/conductivity meter	1 No	0.50
67.	Vacuum Oven	1 No	4.00
68.	Muffle furnace	1 No	5.00
69.	Optical Microscope	1 No	3.00
70.	Autoclave (for Muffle Furnace, 100 ml)	1 No	1.00
71.	Potentiostat	1 No.	12.00
72.	Multimode Microplate Reader	1	25.00
73.	CO_2 incubator	2	18.00
74.	Incubator shaker	1	4.00
75.	Recirculating chiller	1	2.50
76.	Non-refrigerated centrifuge	1	1.00
77.	Laminar air flow	1	2.70
78.	Fume hood	7	42.00
79.	Upgradation of BioLogic VSP-3 Electrohemical Workstation with Rotating Ring Disk Electrode (RRDE) System	1	20.00
80.	pH and conductivity meter	6	15.00
81.	Potentiostat	1	12.50
82.	Vacuum pump	2	6.00
83.	Gas chromatography	1	80.00
84.	Powder-XRD	1	300.00
85.	High Temperature Controlled Atmosphere Chamber Furnace	1	45.00
86.	Film making machine	1	20.00
87.	Viscometer	1	30.00

88.	Matertials Studio	1	40.00
89.	UV visible cabinet	1	0.50
90.	GC	1	30.00
91.	Vacuum pump	4	6.00
92.	Hydrothermal reactor/autoclave	4	35.00
93.	Microwave furnace	1	40.00
94.	Refrigerator	5	15.00
95.	EIS workstation	1	30.00
96.	Dekstop Computer/ Laptop	10	15.00
97.	Oxygen Transmission Rate (OTR) Analyzer:	1	40.00
98.	Multipurpose Stirrer	4	10.00
99.	Flotation column	1	5.00
100.	NIR Laser System with variable wavelength	1	40.00
101.	High temperature furnace	3	12.00
102.	Fire alarm system	1	10.00
103.	Electrolyzer	1	25.00
104.	Mechanical shaker (reciprocating)	1	2.00
105.	Turbidity meter	1	2.50

106.	Laboratory refrigerator	1	1.50
107.	Laboratory Hot Air Oven	2	3.00
108.	Desktop computer	5	5.50
109.	Laboratory Fume Hood	1	8.00
110.	Recirculating Chiller	1	14.00
111.	500 ml Supercritical fluid extractor reactor	1	30.00
112.	Shelf Life Measurement System	1	40.00
113.	Thermochemical Analysis Platform with Pyro-probe and GC-MS	1	180.00
114.	Thermochemical Reactor Rig	1	90.00
115.	Temperature program desorption, reduction and oxidation (TPDRO)- for powder and pellet samples	1	70.00
116.	Peristaltic pump	2	5.00
117.	Magnetic stirrer with heating control	2	4.00
118.	PC	1	1.50
119.	Hot and cold circulating bath	1	3.00
120.	pH meter	1	2.00
121.	Heating Mantle	5	0.20
122.	Magnetic stirrer	2	1.80
123.	Desktop	1	1.00
124.	ICP-OES	1	65.00

125.	Membrane distillation unit	1	30.00
126.	HFM module testing unit	2	3.00
127.	pH/conductivity meter	1	1.50
128.	Permeablity/porosity meter	1	4.00
129.	Hotplate stirrer	2	1.50
130.	Desktop	1	1.00
131.	Bench-top weighing balance 6 kg, readability 0.5 g	2 nos	3.00
132.	Analytical weighing balance (220 g/1 mg)	1 No	1.50
133.	Fume Hood	2	18.00
134.	Fume Hoods	23	207.00
135.	Chiral HPLC system	1 No.	100.00
136.	Ultrapure (Type 1) lab water purification systems	1 No.	35.00
137.	Combiflash	4 Nos.	100.00
138.	Rotary evaporator	10 Nos.	80.00
139.	High Capacity Water Purification System	2	10.00
140.	Fume Hood	2	18.00
141.	Potentiostat	1	17.00
142.	Abaqus Multiphysics Software	1	8.00
143.	CATIA Software	1	6.16
144.	Workstation for Abaqus Multiphysics Software	2	5.84
145.	Magnetic stirrer with hot plate	1	0.40
146.	Hot air oven	1	1.00
147.	Abrasion Tester (ABT-3)	1	9.00
148.	Vibration tester	1	0.30
149.	Acetylene Gas cylinder	1	0.30
150.	Digital microbalance	1	1.00

151.	Bomb Calorimeter with Accessories	1	6.00
152.	Water bath Sonicator with Temperature Control	1	1.50
153.	Portable Multi-Gas Analyser	2	34.00
154.	Multi-channel Analysis of Surface Wave Equipment (MASW	1	90.00
155.	Electrical Vector Resistivity Imaging (EVRI) equipment	1	120.00
156.	Broadband seismograph	5	11.00
157.	Computer server for high-end computing /high end desktop computers	12	15.00
158.	Licenced ARCGIS software	1	15.00
159.	Water quality analyser	1	2.00
160.	L2 Featured Managed Network Switch and Restructuring of Institutional LAN	1	130.00
161.	Laptop	2	1.90
162.	Desktop	67	73.70
163.	86″K UHD Display With mounting kits	3	16.00
164.	1:4 HDMI DA	1	
165.	HDMI Transmitter	2	
166.	HDMI Receiver	2	
167.	4K Tracking Camera with 12X Zoom	1	
168.	Capture Card for Camera Integration	1	
169.	Standard Throw Multimedia LED Projector	2	3.50
170.	VoIP Telephone Network	1	50.00
171.	Audio Visual Equipment for Dr J N Auditorium	1	150.00
172.	High-End Storage Server	1	30.00
173.	Network Switch	1	3.00
174.	Multifunction Colour Printer (Laser)	1	3.71
175.	Desktop Computer	1	0.44
176.	Laser Printer	1	0.10
177.	Colour Xerox machine	1	0.93
178.	UPS	1	0.025
179.	DSLR Camera with External Wide Angle Lens and External	1	3.14

	Flashgun		
180.	Full Frame DSLR with accessories	1	2.60
Sl. No	**Name of the Equipment /Item**	Quantity	Rs. (Lakhs)
1.	AI Compute Cluster / GPU Expansion Nodes	1	34.50
2.	Web Server Infrastructure (Dedicated Server + Backup server)	1	4.80
3.	CannonManningcumCannonFenskeViscometer bath with Vaccum Pump (without Tubes)	1	4.05
4.	CannonManningVacuumViscometerTube,Size13, withManufacturer Certificate (Cannon Make)	1	0.37
5.	MarshConeViscometerSSwithStand	1	0.11
6.	PlasticMeasuringCup,1000mLorGlassMeasuring Cup, 1000mL	1	0.03
7.	Gyratory Compactor to perform ASTMD6925,SHRP M-002,AASHTOT312EN12697-31andEN 12697- 10. To produce asphalt mix samples 100 and 150 mm diameter,upto300mmheight.220V 50/60Hz1ph Includes: +Specimen Extruder +Shear force display +Specimentemperature monitoring +Desk PC &Software +UKASTraceablecalibrationcertificate 100mm internal diam mould & platens 150mm internal diam mould & platens 100mminternaldiam.mould&platens-slotted emulsion 150mminternaldiam.mould&platens-slotted emulsion 100mmcirclefilterpapers(packof100) (actually90mm) 150mmcirclefilterpapers(packof100) Calibration kit for internal angle lead	1	48.60
8.	Nanodrop spectrophotometer for DNA quantification	1	10.20
9.	Laminar Air Flow	2	4.00
10.	SS make Almirah	6	3.60

11.	BOD	1	2.00
12.	GPS	1	0.60
13.	-20C refrigerator	1	2.60
14.	pH Meter	1	0.70
15.	Rotary Evaporator	2	12.00
16.	Hot air oven	2	1.5
17.	Hot plate	4	1.4
18.	Culture rack	5	5.5
19.	Chemi-doc system	1	22.00
20.	Autoclave	2	3.4
21.	Water bath	2	1.4
22.	CLC Genomic Work Bench software as consumable for 2 years)	1	4.50
23.	4˚C Freeze with of 363 litre with twin cooler (4 no)	4	4.8
24.	Bath sonicator (2 nos)	2	1.4
25.	PCR	1	18.00
26.	Type I and Type II water purification system 14.0	1	14.00
27.	Biosafety cabinet 8.0	1	8.00
28.	Fermented Tank 10.52	1	10.52
29.	BOD Incubator (4 lakhs)	1	4.00
30.	Distilled water unit -20°C freezer (4 lakhs)	1	4.00
31.	Weigh balance (2 lakhs)	1	2.00
32.	pH meter (0.84 lakhs	1	0.84
33.	Ulta-pure water system	1	12.00
34.	Insect rearing shed	1	5.00
35.	Steriozoom microscope	1	6.00
36.	CO2 Analyszer	1	9.00
37.	Minor equipment (like water bath/pH meter/Hot plate/Heating mentle etc.)	-	5.00
38.	Voltage Stabilizer and UPS	2	4.00
39.	TabletopMicrocentrifuge	1	2.00
40.	Refrigerator (4^{o} C)	2	4.00
41.	Deep Frizeer (-80 ^{o} C) with accessories with powerbackup	1	9.00
42.	Laminar Air Flow	2	5.00
43.	Rotary Evaporator	1	18.00
44.	Digital Analytical Weighing Balance	1	1.80
45.	Pharmacological Freezer (-20)	1	6.00
46.	Cooling Incubator Shaker	1	15.00

47.	CO_2 incubator	1	9.00
48.	Lyophilizer	1	15.00
49.	Autoclave	1	3.00
50.	4°C Refrigerator	2	1.00
51.	Rotarod apparatus	1	3.00
52.	Rotary evaporator	1	12.00
53.	Optical Tensiometer and contact angle analyzer	1	20.00
54.	CHNS	1	110.00
55.	PCR workstation	1	1.50
56.	Analytical balance	1	1.50
57.	Photocopier	1	1.00
58.	Glass Reflux Reaction Cum Fractional Distillation Unit	1	22.00
59.	Lyophilizer	1 No.	25.00
60.	Magnetic stirrer	20 Nos.	20.00
61.	Hot air oven	10 Nos.	20.00
62.	Chemical refrigerator	10 Nos.	20.00
63.	Ice machine	2 Nos.	20.00
64.	Chiller	10 Nos.	30.00
65.	Computer set with UPS, Printer & Scanner	10 Nos.	200.00
66.	Automatic Outdoor Environment weather station with accessories for data analysis	1	13.00
67.	Thermal imager (maximum temperature range 1200°C)	1	10.00
68.	Flue gas analyser for O2, CO2, CO, NO, NO2, SO2, H2, H2S, CH4, HC	1	10.00
69.	Heat Deflection Temperature Tester	1	15.00
70.	Blackbody furnace with accessories	1	3.00
71.	Strong Motion Acceleragraph	8	18.00
72.	High-end desktop computers	1	12.00
73.	Ground penetrating radar (GPR)	1	60.00
74.	Petrological Microscope	1	50.00
75.	Big Grinding Aparatus	1	3.00
76.	Hydrothermal Reactor	1	0.40
77.	Storage Device SSD 2 TB and flashdrive	1	0.40

78.	Ultra-High vacuum pump	1	4.00
79.	weighing Balance (200 kg)	1	1.50
80.	Sonicator	1	0.30
81.	Hot Plate with Stirrer 2	1	0.60
82.	Hydrothermal Reactor	1	0.40
83.	Deep Freezer 200 Lt (-30 degree)	1	2.50
84.	Computer set (2) with scanner (2) and printer	1	3.00
85.	UPS with battery system (5 KV)	1	3.00
Sl. No	**Name of the Equipment /Item**	Quantity	Rs. (Lakhs)
1.	High Capacity Data Storage System (NAS / SAN 200-500 TB)	1	21.50
2.	Field Data Collection Instruments (GPS, environmental sensors, cameras)	1	2.04
3.	High Performance GPU Workstation (AI/Deep Learning Server with multi-GPU)	1	20.60
4.	Concrete Permeability Apparatus	1	5.00
5.	Pull Out Test	1	3.00
6.	Pull Off Test	1	3.00
7.	Rapid Chloride Test	1	6.00
8.	Flexure testing machine for concrete beams	1	5.00
9.	Impact Echo Test	1	15.00
10.	Flat Jack Test	1	2.00
11.	Datalogger with Strain Gauge Elements	1	7.00
12.	Air permeability apparatus	1	2.00
13.	Self-compacting concrete testing apparatus	1	10.00
14.	Laminar air flow	2	4.00
15.	NIR Spectrophotometer	1	18.00
16.	Cow dung pot machine maker	1	4.00
17.	Flow filtration system	1	6.50
18.	1.5 ton split AC	12	9.6
19.	Nitrogen drier	1	3.50
20.	Vaccum manifold pump	1	4.00
21.	Autoclave	1	2.00
22.	Shaker incubator	1	12.00
23.	Electrophoresis system	1	5.00
24.	Swing bucket centrifuge	1	6.00
25.	Herbarium cabinet	3	3.00
26.	Distillation unit	2	1.40

27.	Soxhlet	1	1.50
28.	Water purification system	1	1.20
29.	Plant growth Gravitropism system	4	0.40
30.	Printer	2	0.60
31.	Ice flaking machine	1	4.00
32.	Kjeldahl Protein Analyzer System	1	10.00
33.	High Speed Refrigerated Centrifuge	1	8.00
34.	Type I and Type II water purification system 14.0	1	14.00
35.	Biosafety cabinet 8.0	1	8.00
36.	Fermented Tank 10.52	1	10.52
37.	BOD Incubator (4 lakhs)	1	4.00
38.	Distilled water unit -20°C freezer (4 lakhs)	1	4.00
39.	Weigh balance (2 lakhs)	1	2.00
40.	pH meter (0.84 lakhs	1	0.84
41.	Spectrophotometer	1	10.00
42.	Weighing balance	1	2.00
43.	Rotary Evaporator	1	18.00
44.	Biosafety Cabinet (level-II)	1	7.00
45.	Deep Frizeer (-80 ° C) with accessories with powerbackup	1	9.00
46.	Cell Culture Microscope	1	5.00
47.	BOD incubator	2	14.00
48.	Gradient Thermal Cycler (PCR System)	1	10.50
49.	Ultra Deep Freezer	1	12.80
50.	SHIME	1	20.00
51.	Inverted fluorescence microscope	1	30.00
52.	Haematology analyzer	1	10.50
53.	Vacuum pump	1	3.00
54.	Rota Vapor	2	15.00
55.	Lab reaction bench with safety cabinet (for 03 rooms)	3	30.00
56.	Innert gas distribution system (for MSG group)	1	80.00
57.	Magentic stirrers with hotplates	18	16.00
58.	Ultra Microtome (UTM)	1	45.00
59.	Chiller	4	6.00
60.	Workstation	5	20.00
61.	RI detector HPLC	1	25.00
62.	Solid state Uv-Vis DRS lamp and Accessories	2	10.00

63.	Water Vapour Transmission Rate (WVTR) Analyzer:	1	40.00
64.	Gravity separation set-up	1	5.00
65.	Sieve Shaker set-up	1	5.00
66.	Vacuum Pump	1	1.50
67.	Multimode Plate Reader	1	25.00
68.	Photoreactor	2 Nos.	10.00
69.	Electrochemical reactor	1 No.	10.00
70.	Microwave reactor	1 No.	35.00
71.	Flow reaction apparatus	1 No.	10.00
72.	Polarimeter	1 No.	10.00
73.	Analytical balance	8 Nos.	16.00
74.	Floatable water wheel system with electrical accessories like batteries, voltage regulator, PMG alternator, inverter, rectifier, MCBs etc.	1	32.00
75.	Torque tester	1	0.20
76.	Hardness tester with all accessories	1	9.00
77.	Multiple channel multiple input data logger (input: voltage, current, thermocouple, Resistance Temperature Detector, Humidity, Resistance, Strain, Pulse/Logic) with sampling speed of 1 ms	1	4.00
78.	Multispectral camera	1	5.00
79.	Gas manifold (for 6 cylinders)	1	3.00
80.	CMOS trichromatic camera with accessories for high- speed imaging	1	1.00
81.	Heating mantle small 250	1	0.20
82.	Heating mantle 500	1	0.20
83.	Heating mantle 1000	1	0.30
84.	Heating mantle 5000 (2)	1	1.00
85.	Water Bath	1	1.00
86.	Variable DC power supply	1	1.00
87.	Sonicator (2)	1	0.80
88.	Hot Plate with Stirrer 2	1	0.60
89.	Overhead Stirrer	1	0.30
90.	Weighing Balance	1	1.00

91.	Heating mantle small 250	1	0.20
92.	Overhead Stirrer	1	0.35
93.	Probe Sonicator	1	2.50
Sl. No	**Name of the Equipment /Item**	Quantity	Rs. (Lakhs)
1.	Pile Integrity Tester	1	10.00
2.	5 LVDTs and datalogger	1	10.00
3.	Gandry Overhead Crane	1	25.00
4.	pH meter	1	1.50
5.	Portable Potentiostat	1	10.00
6.	Lyophilizer	1	8.22
7.	Herbarium cabinet	1	1.00
8.	Cold room	1	6.00
9.	Paltier Spectrophotomer	1	15.00
10.	Multimode microplate reader	1	33.00
11.	Water bath	1	1.25
12.	Hot air oven	1	1.25
13.	Rocker	2	1.20
14.	Hot plate	2	1.00
15.	Rotor, high speed 6x50 ml	1	1.50
16.	Vortex	4	0.80
17.	CLC Genomic Work Bench software as consumable for 2 years)	1	4.50
18.	Shaker incubator	1	15.00
19.	Deep freezer (-20°C)	1	4.00
20.	Food Packaging Machine	1	3.50
21.	Pouch sealing Machine	1	2.00
22.	Automatic sticker labelling machine	1	4.50
23.	pH Meter and Refractometer	1	1.00
24.	Muffle Furnace	1	2.00
25.	Fraction collector for existing HPLC 20.0	1	20.00
26.	Filtration and clarification unit 13.66	1	13.66
27.	Ice-maker (1.22 lakhs)	1	1.22
28.	SDS protein gel electrophoresis unit (4 lakhs)	1	4.00
29.	Table-top orbital shaker incubator (6 lakhs)	1	6.00
30.	Refrigerator (4^{o} C)	1	2.00
31.	TabletopMicrocentrifuge	1	2.00

32.	Electrophoresis system with accessories	1	4.00
33.	Shaker incubator	1	10.00
34.	Hot air oven	2	2.00
35.	Weighing balance	1	2.30
36.	Light Compund Microscope with powerbackup	1	20.00
37.	TPH analyzer	1	18.00
38.	Biosafety Cabinet (level-II)	1	7.00
39.	Fire safety system	1	10.00
40.	Oven	4	4.00
41.	High pressure reactor	1	30.00
42.	TGA	1	200.00
43.	UV-Vis-NIR Spectrophotometer	1 No.	5.00
44.	Centrifuge (15000 rpm, 4 ^{o}C)	1 No.	15.00
45.	Cyclic voltametry	1 No.	20.00
46.	Photoluminescence spectrometer	1 No.	15.00
47.	Nitrogen analyser	1	7.00
48.	Portable chlorophyll analyser	1	1.50
49.	Pharmacological refrigerator	2	6.00
50.	Mini Refrigerated Microcentrifuge	1	2.20
51.	Digital Analytical Weighing Balance	1	1.80
52.	Freeze Dryer/Lyophilizer	1	26.30
53.	Automated flash chromatography system	1	22.00
54.	Maze system	1	13.00
55.	50 KN UTM Facility	1	40.00
56.	25.4mm/1-inch Sapphire Lens Collimator for Direct attachment of fiber coupling with accessories	1	3.00
57.	Particle Size Analyzers	1	12.00
58.	Biomass pellet making machine	1	1.10
59.	Hot air oven	1	1.20
60.	Semi microbalance	1	5.00
61.	TLC UV Chamber	1	0.60
62.	Melting Point Apparatus	1	4.00
63.	Stirrer multi	1	1.50
Sl. No	**Name of the Equipment /Item**	**Quantity**	**Rs. (Lakhs)**

1.	Photogrammetry Imaging System (Drone + Multi-camera system)	1	10.50
2.	Scientific Computing Workstations (Data Analysis Nodes)	1	6.20
3.	High Performance Network Infrastructure (10–40 Gb Switches, routers)	1	2.04
4.	Training Infrastructure (Workstation PCs, display panels, training systems)	1	4.90
5.	Loading frame for performing lateral test	1	50.00
6.	Mobile Compactor with rails for movable herbarium	1	11.82
7.	Probe sonicator	1	4.50
8.	Real time PCR	1	8.00
9.	High speed centrifuge	1	10.00
10.	Hot air oven	1	1.00
11.	Weighing Balance	1	3.00
12.	pH meter	1	1.00
13.	BOD	1	2.70
14.	Laminar air flow	1	2.50
15.	Alcohol Meters	1	50.00
16.	UV–Vis Spectrophotometer	1	6.00
17.	Soxhlet Fat Extraction System	1	3.00
18.	Laminar Air Flow Cabinet	1	2.00
19.	Freeze Dryer (Lyophilizer)	1	6.00
20.	Chemidoc 10.0	1	10.00
21.	Microwave extraction unit 20.0	1	20.00
22.	Hot plate with magnetic stirrer (4 nos)5.46	1	5.46
23.	Table-top centrifuge 5.0	1	5.00
24.	Compound light microscope 6.82	1	6.82
25.	Refrigerator (4^{o} C)	1	2.90
26.	Electrophoresis system with accessories	1	4.00
27.	Shaker incubator	1	12.00
28.	Minor equipment (like water bath/pH meter/Hot plate/Heating mentle etc.)	-	7.00
29.	Thermal Cycler with powerbackup	2	12.00
30.	Laminar Air Flow	2	5.00
31.	Deep Frizeer (-20 ^{o} C) with accessories with powerbackup	4	6.00

32.	Fluoroscent Microscope with powerbackup	1	20.00
33.	Cooling system for maintaining R&D equipments	3	2.00
34.	Qubit Fluorometer for DNA/RNA Quantification	1	3.50
35.	Dry Bath Incubator	1	2.00
36.	Mini Centrifuge	1	2.00
37.	Portable Isothermal Amplification Device for Field Diagnostics	1	4.00
38.	pH Meter	1	1.50
39.	Biosafety Cabinet	1	9.50
40.	Gel Imaging and Documentation System	1	25.00
41.	Stability chamber	1	3.00
42.	Lab ultra-pure water purification system	1	25.00
43.	Mini spray dryer	1	10.00
44.	High Temperature Gel Permeation Chromatography	1	80.00
45.	Aerosol monitoring station	1	40.00
46.	DMA	1	180.00
47.	Gas Adsorption analyser with accessories	1	150.00
48.	UltraSonicator	1	0.50
49.	Plasma Cleaner	1	15.00
50.	Multimode ELISA plate reader	1 No.	18.00
51.	Safety cabinet for chemicals	10 Nos.	20.00
52.	Office table	5 Nos.	5.00
53.	Office storage	5 Nos.	5.00
54.	Thermal Conductivity Meter	1	45.00
55.	Centrifuge	1	0.10
56.	FDM 3D Printer	1	9.00
57.	Multichannel Spectrometer with CMOS detectors and additional channels as well as accessories	1	5.00

Sl. No.	**Name of the Equipment/Item**	**Quantity**	**Approximate Cost (Rs. In Lakhs)**

1.	Rotary evaporator	2	16.00
2.	Extraction Unit & Accessories (Customized-PC-Data entry system facility) for up-scaling (for extraction peocess of Vanilin)	1	18.60
3.	Stirring with heating	1	3.00
4.	Sonicator	1	3.00
5.	High vacuum pump	1	2.00
6.	Desiccators	1	0.20
7.	Hot Air Oven	1	2.00
8.	Polarimeter	1	5.00
9.	UV Lamp	1	0.20
10.	Plant Growth and Hardening Facility for Genome-Edited Plants	1	30.00
11.	Plant Tissue Lysis System	1	9.00
12.	Fluorescence Imaging System	1	15.00
13.	SS essential oil distillation units	3	27.00
14.	Walking controlled seed storage chamber	1	13.00
15.	Hand-held portable multi gas analysers	2	10.00
16.	Electrochemical work station for H2 evolution reaction	1	30.00
17.	Membrane Reactor	1	3.00
18.	Deep freezer (Minus 80 degrees)	1	8.50
19.	Thermal Block/ Heat Block	1	0.50
20.	Rotary Evaporator	1	7.00
21.	Portable Presentation & Projection System	1	2.00
22.	Portable Rebar Locator and Cover Meter	1	2.00
23.	Half-Cell Potential Meter (Cu/CuSO4 Electrode)	1	3.00
24.	Concrete Resistivity Meter	1	1.00
25.	Analytic Balance	2	2.00
26.	Computer	2	2.50
27.	Dryer	1	2.00
28.	Ultrasonic Sonicator Bath	1	1.50
29.	Air Conditioning	3	2.00
30.	Membrane Gas separation portable system	1	3.00
31.	Centrifuge	1	2.50
32.	Membrane bioreactor system	1	3.00
33.	Ultrasonic bath	1	0.50
34.	Hollow fiber casting machine (small scale)	1	3.00
35.	Portable Gas Analyser	3	36.00

36.	Multi-channel electrical resistivity meter	5	125.00
37.	High-end desktop computers	10	15.00
38.	Overhauser magnetometer (for MPGO)	1	80.00
39.	Vacuum pump with filtration unit	1	3.00
40.	Centrifuge	1	6.00
41.	Autoclave	1	1.00
42.	Heating mantle	5	4.00
43.	Muffle Furnace	1	2.00
44.	Hot Air Oven	1	2.00
45.	Portable Multi-Gas Analysers	2	34.00
46.	CNC Machine facility with CNC simulator	1	70.00
47.	Welding simulator with battery operated welding demonstration	1	26.00
48.	Upgradation of solid works software	1	16.00
49.	Advanced Mixed Reality Headset with High-Speed Link Cable, Associated Connectivity Accessories	1	0.87
50.	Enclosed High-Perfrmance Table Top 3D printing System with AMS Multi-Colour Printing, Tenda AC10 AC1200 Smart Dual Band Wi-fi Router, Associated Printer Accessories	1	0.78
51.	4-Bay Network Attached Storage (NAS) System with NAS-Grade Hard Disk Drive, Ethernet Network Switch, Multiple RJ45 LAN Cables, UPS, Associated Networking Accessories	1	2.02
52.	Comprehensive STEM Education and Innovation Kits	1	0.85
53.	High Tension Power Supply(5kV/3mA)	1	0.17
54.	Portable Storage Solutions	1	0.28

Sl. No.	**Name of the Equipment/Item**	**Quantity**	**Approximate Cost (Rs. In Lakhs)**
1	Broadband seismograph	10	250.00
2	Long-period seismograph	10	250.00
3	Strong motion accelerograph	5	75.00

Sl. No.	**Name of the Equipment/Item**	**Quantity**	**Approximate Cost (Rs. In Lakhs)**
1.	Network Attached Storage Cluster (Equipped with server and network switch)	1	30.00

2.	Shaking Plant Growth Refrigerated Incubator	1	15.00
3.	Ultra freezer	1	9.50
4.	Workstation (20 core, 128 GB RAM)	1	5.00
5.	BSL-2	1	8.00
6.	Gas analyser (CAAQMS)	1	50.00
7.	Coal biomass gasifier with gas engine	1	25.00
8.	High temperature Furnace	1	3.05
9.	High end Desktop System	1	3.00
10.	Gasification Reactor	1	1.5
11.	Magnetic stirrer	2	1.50
12.	UV visible cabinet	1	0.50
13.	Vacuum pump	1	1.50
14.	Oven	1	1.00
15.	Chiller	1	1.50
16.	Gas Meter	1	2.08
17.	Desktop/ Laptop	1	1.00
18.	Self-Standing single bore porous tube manufacturing unit	1	22.50
19.	Broad-band seismograph	45	1125.00
20.	Weather monitoring system	45	225.00
21.	High-end computer/server system	10	100.00
22.	Photo electro chemical system	1	15.00
23.	Biodiesel Production Unit	1	10.00
24.	Viscosity Meter	1	5.00
25.	Density Meter	1	0.05
26.	Oil Extractor	1	3.00
27.	Cloud Point Apparatus	1	1.50
28.	Flash Point Apparatus	1	0.30
29.	Fire Point	1	0.25
30.	Injet 3D Printer	1	16.00
31.	Stirrers	6	5.00
32.	Self standing single bore porous tube manufacturing unit	1	22.50
33.	Plant growth chamber	1	7.50
34.	Fabricated system: Floatable water wheel system with flow enhancement device along with mooring arrangement. System will consist of generator, power conditioner, power converetr, MCBs etc. as tailor made.	1	35.00
35.	Shaker Incubator	1	8.00

36.	CO2 analyzer	1	9.00
37.	BOD Incubator	1	2.00
38.	COD analyzer	1	4.00
39.	Weighing Machine	1	1.00
40.	PH meter	1	0.80
41.	UV Vis	1	3.20
42.	Freezers (-20)	1	1.45
43.	Ultra deep freezer	1	4.00
44.	Freeze dryer	1	7.00
45.	Bead Beater Homogenizer	1	3.50
46.	Electrophoresis set up	2	1.60
47.	Gel documentation system	1	5.00
48.	Thermal cycler	1	3.00
49.	UV-Vis spectrophotometer	1	7.00
50.	High Throughput Multiplexing Immunoassay System	1	60.00
51.	Infrared and thermal DSLR	1	2.10
52.	Miscellaneous (Multichannel pipet, Laminar air flow, shaker incubator, multi-plate reader)	1	5.00
53.	Spin Coater	1	3.00
54.	Shaker incubator	1	3.00
55.	Thermocycler PCR & Bench top Centrifuge	1	2.50
56.	Biosafety Cabinet	1	3.00
57.	Binocular microscope	1	0.70
58.	Laminar Airflow	1	1.30
59.	Fabrication of seed bioreactor	1	7.00
60.	Fabrication of cooling system	1	2.50
61.	Herbarium Cabinet	1	0.56
62.	Desktop Computers	8	12.00
63.	Vacuum Refrigerated Concentrator	1	9.00
64.	Horizontal Gel Electrophoresis	1	3.00
65.	Pipettes, Multi Channel, variable volume	1	4.00
66.	Digital Vortex Shaker	1	0.20
67.	Membranes fabrication unit by temperature induced phase separation (TIPS)	1	200.00
68.	Membrane modulation unit	1	60.00
69.	Membrane distillation unit	1	20.00
70.	Vacuum pump	1	20.00
71.	Gas permeability measurement system	1	50.00

72.	Gas separation unit with gas distribution	1	30.00
73.	Electro reactor	1	25.00
74.	Solar Simulator	1	15.00
75.	Environment control high temperature furnace	1	40.00
76.	High power ultra sonicator	1	20.00
77.	Bioreactor	1	120.00
78.	Lubricity Tester	1	20.00
79.	Fuel analyser	1	70.00
80.	Cleveland Flash Point Apparatus	1	20.00
81.	Bio diesel analyser	1	21.00
82.	Grease wax testing analyser	1	20.00
83.	Oil content from water tester	1	20.00
84.	Automatic smoke point apparatus	1	19.00
85.	Cloud and Pour Point Apparatus	1	28.00
86.	Acid no tester	1	20.00
87.	Ash content tester	1	15.00
88.	Closed cup flash point apparatus	1	30.00
89.	Automatic softening point apparatus	1	35.00
90.	Density tester	1	10.00
91.	Bitumen and ashphaltene tester	1	30.00
92.	Automatic freezing point tester	1	30.00
93.	Total sediment tester	1	18.00
94.	Liquid hydrocarbon tester	1	20.00
95.	Octane no tester	1	25.00
96.	HRTEM	1	800.00
97.	High energy XRD system	1	240.00
98.	Centrifuge	1	30.00
99.	Contact angle analyser	1	30.00
100.	Atomic Force Microscope (AFM)	1	250.00
101.	Gas analyser	1	200.00
102.	Fluorescence microscope	1	32.00
103.	Dynamic light scattering instrument	1	45.00
104.	Cyclic voltameter	1	28.00
105.	Electrometer	1	10.00
106.	Minor equipment and accessories (Laptop, MAC book, water bath, sonicator, desktop etc)	2	10.00
107.	Colour measurement instrument	1	30.00
108.	Thermo gravimetric anlyzer (TGA)	1	62.00

109.	Differential Scanning Calorimetry (DSC)	1	60.00
110.	Fuel Cell apparatus	1	20.00
111.	Lab furniture		46.00
112.	FT-IR	1	28.00
113.	Microscope with imaging system	1	7.00
114.	Surgical Platform	1	1.00
115.	Inhalation anaesthesia chamber	1	3.00
116.	Air sampling probes/ sampler/ sensors for CO NDIR, H2 TCD, CH4 NDIR	1	7.50
117.	Hammer Mill	1	0.70
118.	Mass Flow Controller	1	1.50
119.	Water Flow Controller	1	1.00
120.	1.2 KVA LPG & Propane powered portable Generator	1	0.80
121.	Deep Freezer (-80C)	1	9.50
122.	Workstation with UPS and Printer	1	5.00
123.	Small Tea processing Unit	1	15.00
124.	Hot air Oven or air drier	1	2.50
125.	Desktop Computer (DELL)	1	0.916
126.	Rotary Evaporator (IKA)	1	9.976
127.	Drying Oven (IKA)	1	3.577
128.	Magnetic stirrer hot plate (IKA)	3	2.598
129.	Vacuum Concentrator	1	10.00
130.	Air Conditioning System	3	2.10
131.	Double Door Refrigerator	1	0.99
132.	Deep Freezer	1	0.35
133.	Vacuum oven with vacuum pump	1	1.86
134.	Pellet hydraulic press with dye set	1	0.20

Note:

➢ The above procurement plan is dynamic and could be revised as often as may be necessary with the approval of the Competent Authority.

➢ The procurement of the equipments would be based on the need and ongoing requirement of R&D activities of Lab/Instt.

➢ The procurement is subject to the fund's availability/release of sufficient grant from CSIR / funding agency.

➢ The costs indicated as above are approximate/estimate cost only.

List of equipments which are already processed in 2025-2026 and are at different stages of procurement							
Sl. No.	**Name of the Equipment /Item**	**Quantity**	**Rs. (Lakhs)**	**Division**	**Group**	**Present Status**	**Budget Head**
1	Opto-digital Microscope	1	73.868	ESTD & SEDD	Gen Engg	Sanction Proposal prepared	P-05
2	CNC Machining facility with CNC Simulator	1	70	ESTD & SEDD	Gen Engg	Tendered, Bit opened, CS prepared, To open price bit, Presently with T&PC	HCP-2502 (Under Equip ment head of 25-26)
3	Welding simulator with battery operated welding demonstration facility	1	26	ESTD & SEDD	Gen Engg	Tendered, Bit opened, CS prepared, To open price bit, Presently with T&PC	HCP-2502 (Under Equip ment head of 25-26)
4	Workstsation	2	10	ESTD & SEDD	Gen Engg	All approval in Access; Presently in PC for tendering	HCP-0101 (Under Equip ment head of 25-26)
5	Pin on disc wear and tear testing machine	1	7.5	ESTD & SEDD	Gen Engg	PC suggested for retendering	P-05
6	1.2 kVA LPG and Propane powered Portable Generator	1	0.8	ESTD & SEDD	Gen Engg	Quotations submitted alongwith necessary documents for purchase through LPC. Purchase order is pending to be received by indentor.	GPP-0425

7	Hammer mill for biomass (3 HP 1 Phase motor, Production: 200-250 kg/hr)	1	0.7	ESTD & SEDD	Gen Engg	Quotations submitted alongwith necessary documents for purchase through LPC. Purchase order is pending to be received by indentor.	GPP-0425
8	Water flow controller (0.5-4 L/min, 12-24 V DC, Maximum operating temperature: 50°C)	1	1	ESTD & SEDD	Gen Engg	Quotations submitted alongwith necessary documents for purchase through LPC. Purchase order is pending to be received by indentor.	GPP-0425
9	Plant Growth and Hardening Facility for Genome-Edited Crops	1	Plant Growth and Hardening Facility for Genome-Edited Crops	CBT	BSTD	Indent under process	P-50

Updated on 20/03/2026

CSIR-North East Institute of Science and Technology
Procurement Plan (Consumables)
[B] Consumables:
The following categories of consumables are likely to be procured during the FY 2026-27.

Table 3: Consumables likely to be procured during Financial Year 2026-27 (Annual):

Sl. No.	Category	Expected Procurement Value (Rs. In Lakhs)
1	Chemicals (ex.- Name the different chemicals like Solvents, Biochemical/s, Biochemical kits & enzymes, Diagnostic kits, Sequencing, Oligonucleotides, etc.)	409.00
2	Other Consumables (ex- Insecticide, Raw Materials, Packing Material, Column, Syringes, Transcriptome and Metagenome Analysis, Metabolites analyses, Farm Consumables, TLC Plates, Filter papers, Planting materials, seeds, Chemical standards, Essential oils, Standard aroma molecules, Animal feed, Cell Lines, Agriculture accessories, etc.)	166.00
3	Glass wares (ex- name the different glass wares)	58.40
4	Plastic wares (ex- Name the different plastic wares)	70.50
5	Cartridges, Batteries, etc.	61.00
6	Gases (ex- tentative names)	74.50
7	Maintenance/AMC/repairing of existing equipment	287.50
8	Stationary items (ex- name a few)	29.50
9	IT / software-related Items : Material Studio, MATLAB, ARCGIS, BioRender, CLC Genomic Workbench Software and Network License, Sigma Plot Software, Qiagen CLC genomic workbench, Commander Software with GTGPU high performance compute system with data storage for the above Long Read Real Time Nanopore Sequencing System, etc.	142.70
10	IT / software-related Items : GAMMA IPTA Software Package	13.50
11	Furniture: chair, Lab stool, lab bench	178.25
12	Electric Items (Air conditioner/Fan)	50.50
13	Raw materials, tools, chemicals and consumables etc. to be used during skill development training	15.00
14	Consumables tools for students experimentation	10.00

Note:

➢ The above procurement plan is dynamic and could be revised as often as may be necessary with the approval of the Competent Authority.

➢The procurement of the chemicals & consumables would be based on the need and time to time requirement of the R&D activities of CSIR-NEIST.

➢ The procurement is subject to the funds availability/release of sufficient grant from CSIR / funding agency.

➢ The indicated procurement value is an estimate only.

The procurement Plan is updated with the approval of the competent authority.