

CSIR-Central Salt and Marine Chemicals Research Institute, Bhavnagar

Research & Planning Cell

Annual Procurement Plan 2026-27

Updated on: 03.07.2026

Project Code: MLP002616

List of P-50 (Capital) Apparatus & Equipment's

S.N.	Name of Equipment	Proposed Year of Procurement	Tentative Cost	Indigenous / Imported	Justification for the equipment – Please specify for which Work Package/ Work Element this equipment is needed
1	In-situ FT IR operando spectroscopy	2026-27	100	Imported	Allows real-time monitoring of chemical reactions and surface intermediates under actual operating conditions for mechanistic insights.
2	High performance liquid chromatography-gel permeation chromatography (HPLC-GPC)	2026-27	90	Imported	Enables determination of molecular weight distribution and polydispersity of polymers, biomacromolecules, and nanomaterials for advanced materials and pharmaceutical research.
3	Differential Scanning Calorimeter (DSC)	2026-27	80	Imported	Provide essential thermal characterization including phase transitions, stability, and decomposition behaviour of materials.
4	Thermogravimetric Analyzer (TGA)	2026-27	80	Imported	Provide essential thermal characterization including phase transitions, stability, and decomposition behaviour of materials.
5	TPD instrument	2026-27	70	Imported	Allows analysis of desorption behaviour to study surface properties and catalytic activity of materials.
6	Potentiostat/Galvanostat	2026-27	60	Indigenous / Imported	Supports electrochemical characterization of materials, including corrosion, energy storage, and catalysis studies.
7	ACTA Pure Chromatographic System	2026-27	53.1	Indigenous / Imported	Provides automated protein purification and biomolecule separation with high precision.
8	ACTA Flux Pilot Tangential Flow Filtration Unit	2026-27	53.1	Indigenous / Imported	Enables efficient concentration and purification of biomolecules using membrane-based filtration.
9	Microwave Plasma Atomic Emission Spectroscopy (MP-AES) instrument	2026-27	45	Indigenous / Imported	Enables cost-effective, multi-elemental analysis using microwave plasma with good sensitivity and precision.

10	60 KVA UPS system	2026-27	40	Imported	Provides uninterrupted and stable power supply to protect sensitive analytical instruments and ensure continuity of experiments.
11	Nitrogen generator	2026-27	40	Indigenous / Imported	Supplies continuous high-purity nitrogen required for reliable operation of LC-MS systems.
12	Microwave digester	2026-27	30	Indigenous / Imported	Ensures rapid and complete digestion of complex samples for accurate elemental analysis.
13	Fume hoods with exhaust	2026-27	30	Indigenous	Ensures safe handling of hazardous chemicals by effective removal of toxic fumes and vapours.
14	Ball milling stations	2026-27	30	Indigenous	Enable mechanical synthesis and size reduction of materials for nanomaterials and advanced material development.
15	Flash Column Chromatography	2026-27	30	Indigenous	Provides rapid and efficient purification of compounds for synthetic and analytical applications.
16	Universal testing machine	2026-27	25	Indigenous / Imported	Evaluates mechanical properties such as tensile, compressive, and flexural strength of materials.
17	LiDAR 3D Scanner	2026-27	25	Indigenous / Imported	Provides high-resolution three-dimensional mapping and spatial analysis for research and field applications.
18	Refrigerated Incubator Shaker	2026-27	23	Indigenous / Imported	Enables controlled temperature incubation with agitation for microbial and biochemical studies.
19	Glove boxes	2027-28	50	Indigenous / Imported	Enables handling of air- and moisture-sensitive materials under inert atmosphere conditions.
20	Jacketed reactor	2027-28	50	Indigenous / Imported	Facilitates temperature-controlled chemical reactions for synthesis and process development.
21	Fire Hydrant/Hose/Smoke detection System	2027-28	250	Indigenous / Imported	Ensures fire safety and early hazard detection to protect personnel, infrastructure, and high-value research equipment.
22	Rheometer	2027-28	180	Imported	Evaluates flow and deformation behaviour of materials to understand their viscoelastic and processing properties.

23	liquid nitrogen plant	2027-28	150	Imported	Ensures continuous supply of liquid nitrogen for cryogenic applications, sample preservation, and analytical instrumentation.
24	GC MS-MS with head space	2027-28	140	Imported	Enables highly sensitive and selective analysis of volatile and semi-volatile compounds in complex matrices with minimal sample preparation.
25	Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	2027-28	120	Imported	Enables ultra-trace level multi-elemental analysis with high sensitivity and precision for environmental, biological, and material samples.
26	GC-MS	2027-28	120	Imported	Facilitates identification and quantification of volatile and semi-volatile organic compounds in complex matrices.
27	Flame photometers	2027-28	105		Allows rapid and cost-effective determination of alkali and alkaline earth metals in various samples.
28	Ion chromatograph	2027-28	100	Imported	Enables rapid and sensitive multi-elemental analysis of diverse samples across environmental, biological, and material sciences.
29	Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)	2027-28	90	Imported	Enables rapid and sensitive multi-elemental analysis of diverse samples across environmental, biological, and material sciences.
30	Fuel Cell test station	2027-28	90	Imported	Enables performance evaluation and durability testing of fuel cells under controlled operating conditions for energy research.
31	CHNSO elemental analyzer	2027-28	80	Imported	Determines elemental composition to confirm purity and validate chemical structures of diverse materials.
32	Preparative HPLC with automatic sampler and high-throughput automatic fraction collector (Fully automatic preparative HPLC)	2027-28	80	Imported	Enables automated large-scale purification of compounds with high efficiency and reproducibility.
33	Membrane casting unit	2027-28	71	Imported	Facilitates controlled fabrication of polymeric and composite membranes for separation and filtration applications.

34	Portable photosynthesis system	2027-28	70	Imported	Enables real-time measurement of photosynthetic parameters in plants under field and laboratory conditions.
35	Fermenter	2027-28	53	Indigenous / Imported	Supports controlled cultivation of microorganisms for bioprocessing and biochemical production.
36	Gel permeation chromatography (GPC)	2027-28	50	Indigenous / Imported	Enables determination of molecular weight distribution of polymers and macromolecules.
37	Chiller circulator	2027-28	41.7	Indigenous / Imported	Provides precise temperature control for analytical instruments and reaction systems.
38	Hot Stage Microscopy HSM	2027-28	40	Indigenous / Imported	Allows real-time observation of material behaviour under controlled heating conditions for thermal analysis.
39	UV Vis spectrophotometer	2027-28	40	Indigenous / Imported	Enables quantitative and qualitative analysis of compounds based on UV-visible absorption for diverse chemical and biological applications.
40	Algae Growth Chamber	2027-28	35	Imported	Provides optimized and controlled conditions for cultivation and experimental studies of algal systems.
41	Lyophilizer	2027-28	33	Indigenous / Imported	Enables freeze-drying of samples for long-term preservation and stability of biological and chemical materials.
42	COMSOL Multiphysics software	2027-28	30	Indigenous / Imported	Enables advanced simulation and modelling of coupled physical processes for research and process design.
43	Deep Freezer	2027-28	25.9	Indigenous / Imported	Provides low-temperature storage for preservation of biological samples, reagents, and materials.
44	Domestic membrane rolling unit	2027-28	25	Indigenous / Imported	Facilitates fabrication of membrane modules for filtration and separation applications.
45	MD pilot plant	2027-28	25	Indigenous / Imported	Enables pilot-scale membrane distillation studies for water treatment and desalination research.
46	Supercritical CO₂ Extractor	2027-28	25	Indigenous / Imported	Enables efficient and solvent-free extraction of compounds using supercritical fluids.
47	GPR	2027-28	25	Indigenous / Imported	Enables subsurface imaging and characterization for geological and structural investigations.
48	Elipsometer	2028-29	200	Imported	Provides precise measurement of thin film thickness and optical properties for advanced materials and surface science research.

49	Optical profilometer	2028-29	70	Imported	Provides non-contact, high-resolution surface topography and roughness analysis of materials.
50	MPLC	2028-29	30	Indigenous / Imported	Provides efficient and scalable purification of compounds with better control compared to traditional column chromatography.
51	Atomic force microscope (AFM)	2028-29	350	Imported	Provides nanoscale surface imaging and measurement of material properties for advanced nanotechnology research.
52	Isotope Ratio Mass Spectrometer	2028-29	150	Imported	Enables precise isotopic analysis for tracing sources, pathways, and biochemical processes in environmental and biological systems.
53	GC TQMS with autosampler, head space	2028-29	120	Imported	Provides high-throughput, accurate, and reproducible quantitative analysis of trace-level volatile compounds in diverse samples.
54	Raman Spectrometer	2028-29	100	Imported	Enables non-destructive molecular and structural characterization of a wide range of materials.
55	Surface area analyzer	2028-29	100	Imported	Enables determination of specific surface area and pore characteristics critical for evaluating adsorption and catalytic performance of materials.
56	Dual Station Physisorption Analyser	2028-29	90	Imported	Allows simultaneous measurement of surface area and pore characteristics of materials, improving efficiency in adsorption and catalyst studies.
57	Dynamic mechanical analysis (DMA)	2028-29	80	Imported	Evaluates viscoelastic and mechanical properties of materials under varying temperature and frequency conditions.
58	Microgravity Instrument	2028-29	35	Imported	Supports simulation of microgravity conditions for advanced biological and material science research.
59	Gas Sorption instrument multicompartent	2028-29	32	Indigenous / Imported	Allows simultaneous analysis of gas adsorption properties for multiple samples, enhancing efficiency in material characterization.
60	Automatic proximate analyzer	2028-29	25	Indigenous / Imported	Enables rapid determination of moisture, ash, volatile matter, and fixed carbon in materials.

61	GPC MALS	2028-29	300	Imported	Enables absolute molecular weight, size, and conformation analysis of polymers and biomacromolecules without reliance on calibration standards, ensuring high-accuracy characterization.
62	rHF spinning kit with spinneret	2029-30	25	Indigenous / Imported	Enables fabrication of hollow fiber membranes for advanced separation technologies.
63	Flash chromatography	2029-30	85	Imported	Provides rapid and efficient purification of compounds, essential for synthetic chemistry and material preparation.
64	LCMS Q-TOF System	2029-30	400	Imported	Offers high-resolution mass analysis for precise identification and structural elucidation of complex chemical and biological compounds.
65	Scanning Electron Microscope (SEM)	2029-30	400	Imported	Provides high-resolution imaging and surface morphology analysis at the nanoscale for advanced material characterization.
66	LCMS TQ system	2029-30	250	Imported	Enables highly sensitive and selective quantitative analysis of trace-level compounds in complex chemical, biological, and environmental samples.
67	Non-IBR Boiler System / Thermic Fluid Heating System	2029-30	35	Indigenous	Supplies uniform and efficient heating for reactors and process systems in pilot-scale and laboratory operations.
68	X-ray powder diffractometer (XRD)	2030-31	400	Imported	Enables phase identification and crystallographic analysis of crystalline materials.
69	NMR solid state	2030-31	300	Imported	Facilitates detailed structural and molecular-level characterization of solid and non-crystalline materials.
70	Flow reactor	2030-31	58	Indigenous / Imported	Enables continuous and controlled chemical reactions for process optimization and scale-up studies.
71	Refrigerator chamber	2030-31	35	Imported	Enables controlled environmental conditions for studying plant growth, physiology, and stress responses.
72	Miscellaneous Instruments	2026-30	896.52	Indigenous / Imported	Support routine laboratory operations, sample preparation, and auxiliary analytical requirements, ensuring efficient functioning of research activities and complementing major instrumentation facilities.

List of Miscellaneous equipment (2026-31):

Equipment name (2026-2031)	
Elipsometer	Potentiostats
Rheometer	Flow reactors
Centrifuges	ACTA Pure Chromatographic System

Isotope Ratio Mass Spectrometer	Glove boxes
liquid nitrogen plant	Fermenters
GC MS-MS with head space	Parallel Reaction Systems
GC TQMS with autosampler, head space	Analytical HPLCs
Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	ACTA Flux Pilot Tangential Flow Filtration Unit
GC-MS instruments	Jacketed reactors
Flame photometer	Gel permeation chromatography (GPC)
Ion chromatograph	Computers
Raman Spectrometer	HPLC Systems
Surface area analyzer	Construction of 1,00,000 L aquaculture pond
Insitu FT-IR operando spectroscopy	Multi Thermo incubators
Pumps	Chiller circulators
Rotary evaporators	Furnaces
High performance liquid chromatography-gel permeation chromatography (HPLC-GPC)	Microwave Plasma Atomic Emission Spectroscopy (MP-AES) instrument
Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)	Trace gas analyzer
Fuel Cell test stations	Battery test station
Dual Station Physisorption Analyser	Hot Stage Microscopy HSM
CHNSO elemental analyzer	Network switches
GCMS with autosampler, head space	GC
Non-IBR Boiler System / Thermic Fluid Heating System	Ovens
Dynamic mechanical analysis (DMA)	Plant growth chamber
Preparative HPLC with automatic sampler and high-throughput automatic fraction collector (Fully automatic preparative HPLC)	Algae Growth Chamber
Deep Freezers	Microgravity Instrument
Membrane casting unit	Lyophilizer
Portable photosynthesis system	Gas Sorption instrument multicompartiment
Optical profilometer	CHN analyser
Preparative HPLCs	Refrigerated centrifugal evaporation system
TPD instrument	MPLC
HPLC with RI Detector	Microwave digester
Autoclaves	Rota evaporator instrument
HPLC with autosampler	Fume hood with exhaust
COMSOL Multiphysics software	Jacketed vessels
Automatic proximate analyzer	Flash Column Chromatography
Domestic membrane rolling unit	HF spinning unit
rHF spinning kit with spinneret	Bioreactors
BSL 2 compliance Biosafety cabinets	Digital autoclave
Conductivity meter with humidifier setup	Multi-evaporators
MD pilot plant	Multi-modal microplate reader
Membrane testing system (acid-stable)	Gas chromatography
Microscopes	Gaussian software
Supercritical CO ₂ Extractor	Polarizing Microscope
Universal testing machine	Fume Hoods

GPR	HPLC
10 KVA UPS parallel redundant system	Chlorinator
LiDAR 3D Scanner	Pulse Amplitude Modulated fluorometer
Refrigerated Incubator Shaker	Printers
UV-Visible Spectrophotometers	Tangential Flow Filtration Unit
Magnetic stirrer with heating	Freeze Dryers
Acid stable membrane testing kit	IOT module
Laboratory washer (140 L capacity)	RID detector for HPLC
parameter sensors, camera, network switch - lab safety monitoring system	Flow reactor (tubular reactor + HLPC pumps + circulator + Control Panel)
Handheld Porometer - Fluorometer	Electrochemical reaction station
Zero air generator	Digital Viscometer
Polarizer Microscope	MATLAB Software
Continuous Flow Reactor	Laser cutting machine
Water system	UPS
High pressure reactor	Pyrolyser for GC MS MS
Air conditioners	Boiler
Gaussian and Gauss view site license - multiple node	Dissolution apparatus Auto Sampler Unit With Syringe Pump
Mix extruder machine	Impedance Analyzer
Data loggers	CCTV system 360° rotation
Sonicator	CO ₂ Induced Mixing machine
Weighing balances	Inverted Microscope
-80 Refrigerator with 10 KVA UPS	Mixing Vessel
Cell fusion system	1 MLD SWRO membrane skid
Plant growth chamber with UPS	Distillation Systems
Texture analyser	Water treatment plants
Power supply	Advanced Photo reactors
Air compressors	Schlenk line setup
Gel Doc	TKN Instrument
Electromembrane casting setup	Solvent Cabinet
Mass flow controllers with softwares for electrolyzer	Electroporation system
Customized SeRAS reactor (1 m ³ capacity)	Self-pressurized liquid nitrogen container
Plant canopy analyzer	DG Set
Electrochemical Workstation	Photochemical Batch and Flow reactor
Cyclone type separator /heat exchanger system	Dehumidifiers
Microscopes with camera	Portable DO meter
Low temperature reaction system	Pyrometer
Plate and Frame Filter Press	Scheffler Dish
Load Cell Based Continuous Digital Weighing System with Data Acquisition and PC	Incubator with Shaker & Rack
Laminar air Flows	Box-type heater with blower
Desktop PCs	Hydraulic press
Bomb calorimeter	Conductivity meter
Portable weather station with logging system and PC	Multi probe for analysing DO, Nitrate, nitrite, Phospahte and Ammonium
Portable Multiparameter Water Quality Meter	HMI

Battery Cycler	Shaker Incubators
Ball Milling	Portable pH/ORP meters
Sensors	Portable leaf area meter
Homogenizers	Deep water sampler-Niskin
Rotameters	Underwater camera with housing case
Drilling machine	Pressure reactors
Gas regulators	Controllers
Gas purification panel system	Heating mantles
Plate Shaker/Mechanical Shaker	UV-vis viewing cabinet
PLC	Flowmeters
Single Punch Tablet Press	Prefabricated container
Ultrasonic processor	Shaking water baths
Franz Diffusion Cell Apparatus	Lathe machine
Roller crusher/wet mill	Fire Extinguishers
Lime Slaker	Fire & safety System Accessories
Open Pan Evaporators	Digital Burettes
Solid phase extraction unit	Centrifugal blower
Laboratory Tray Dryer	Hot plates
Mestrenova software	Breathing Apparatus
Fume Hoods	Melt flow index machine
Microwave reactors	Liquid nitrogen container
Epabx upgrade	Shakers
Photocatalytic reactors	Chlorophyll meter
pH Meters	Biomass grinder / pulverizer
Air sampler/Respirable Dust sampler	MilliQ Ultra Water Purification Units
Soxhlet Glass Distillation Column	Refrigerators
Multiparameter meters	Walkie Talkie
Ozonators	Melting point instrument
Stirrer with ceramic ball milling	Desicators
Aerators	Laptops
Dissolved CO ₂ probe	Torque Wrenches
Seawater vacuum filter unit	Switches
AC drive	Land Leveller
Digital storage oscilloscope (DSO)	Fluorescence lamp
Function generator	pH meter & TDS meters
Digital microscopes	Hygrometers
COD digester	Pressure cookers
Multimeters	Van Veen Bottom Grab sampler
Auto level machine with staff	UV Chambers
Binoculars	Juicer mixer grinders
Salinometers	Spinners
Electric bike (E-bike)	Exhaust for laboratory
Infrared gun thermometers	Hand Held Drill Machine
Fire Hose Boxes	Electric Kettle
Hour Meter	Grinders
Electric fans	External DVD writer
Water baths	Glass Cutter
Multipurpose Nozzles	Weedicide sprayer

Thermometers	Thermal Gun
Timers	Compound microscopes
Level sensors	Dissecting microscope
Air coolers	Orsat gas apparatus
Solder station	Gas stove
Desolder station	Digital Thermometers
AC to DC converters	Hydraulic Trolley
Solvent dispensers	Salinity meters
Refractor meter	Vortex
Life Cycle Assessment Software	Stabilizes for AC
ultrasonic baths	Turbidity meters
Machine Tool Box	Lux meter
DSLR Camera	etc.

(Consumable Budget Head)

Sr. No.	Name of Equipment/ Item	Approximate Cost (Rs. in Lakhs)
1	Chemicals	115
2	Glassware	40
3	Plastic ware	40
4	R & D Equipment's Maintenance	55.25
5	Works & Services	14.14
6	Repair & Job work	25
7	Cartridge	2
8	Gas Cylinders	10
9	Software	10
10	Electrical and Electronic items	5
11	Stationery	1
12	Annual maintenance contract	80
13	IT related consumables	20
14	UPS batteries	15
15	Miscellaneous items	95
Total		527.39

1) HCP0024 (Phase III)

Annual Procurement Plan-2026-27

Title of the project: Seaweed Mission Phase III: Identification of Potential Locations across India for Seaweed Cultivation (IPL-ISaC): HCP-0024

WP-1: Pre-feasibility of seaweed farming at Pan India at selected locations	WP-01 Leader: Dr. Vaibhav A. Mantri
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Recurring

Sr. No.	Name of Item	Approximate cost (Rs.)
1.	Chemicals	1,25,000
2.	Glasswares	75,000
3.	Plastic ware	50,000
4.	Other consumable items	2,10,000
	Subtotal (Chem./Cons.)	4,60,000
5.	Other research expenditure including R&D services, Publication charges, Contract Manpower Services etc.	31,74,000
6.	Contingencies: includes hired vehicle charges, miscellaneous contract jobs and other unforeseen expenditure such as but not limited to advertisements/ honorarium/ memento/ foods/ lunch/ dinner/ tea/ guest-house charges, etc.	7,25,000
	Total	43,59,000

Approved budget for WP-1

A. Recurring	
Contingencies	7,25,000
Chem./Cons.	4,60,000
ORE	31,74,000
Total	43,59,000

WP-2: Development of improved Kappaphycus and Gracilaria variants for better growth & stress tolerance through a non-GMO approach

WP-02 Leader: Dr. Mangal Singh Rathore

Recurring

Sr. No.	Name of Item	Approximate cost (Rs.)
1.	Chemicals	15,55,000
2.	Glasswares	1,00,000
3.	Other consumable items	1,95,000
	Subtotal (Chem./Cons.)	18,50,000
4	Other research expenditure including R&D services, Publication charges, Contract Manpower Services etc.	19,00,000
5	Contingencies: includes hired vehicle charges, miscellaneous contract jobs and other unforeseen expenditure such as but not limited to advertisements/ honorarium/ memento/ foods/ lunch/ dinner/ tea/ guest-house charges, etc.	3,00,000
	Total	40,50,000

Non-Recurring

6	Works & Services	25,000
7	Apparatus & Equipment: [Freezer (-20 degree), DO meter and miscellaneous like portable balance/ pH/salinometer etc below 1 L]	5,00,000
	Total	5,25,000

Approved budget for WP-2

A. Recurring	
Contingencies	3,00,000
Chem./Cons.	18,50,000
ORE	19,00,000
Total	40,50,000

B. Non-Recurring	
Works & Services	25,000
Apparatus & Equipment	5,00,000
Total	5,25,000

WP-3: Edible seaweed-based product(s) characterization and consumer acceptance

WP- 03 Leader: **Dr Avinash Mishra**

Recurring

Sr. No.	Name of Item	Approximate cost (in Rs.)		
		BHAVNAGAR Avinash Mishra	MANDAPAM S. Dinesh Kumar	Total
1.	Chemicals	8,00,000	3,00,000	11,00,000
2.	Glasswares	3,00,000	1,00,000	4,00,000
3.	Other consumable	6,00,000	4,00,000	10,00,000
	Subtotal (Chem./Cons.)	17,00,000	8,00,000	25,00,000
4.	Other Research Expenditure (ORE) includes R&D Services, Publication Charges, Contract Manpower Services, miscellaneous services, miscellaneous repairing works, honorarium, advertisement, etcetera	1,25,000	75,000	2,00,000
5.	Contingencies	1,00,000	50,000	1,50,000
	Total	19,25,000	9,25,000	28,50,000

Non-Recurring

6.	Apparatus and Equipments	Cost (in Rs)
	Minor instruments Direct Purchase or through LPC	10,00,000
	Total	10,00,000

Approved budget for WP-03

B. Recurring	
Contingencies	1,50,000
Chem./Cons.	25,00,000
ORE	2,00,000
Total	28,50,000

C. Non-Recurring	
Apparatus and Equipment	10,00,000
Total	10,00,000

WP-4: BIO-STACT – Biostimulants with Stable Active Components and Targeted Mechanistic insights

WP-04 Leader: Dr. Khanjan Trivedi

Recurring

Sr. No	Name of Item	Approximate cost (Rs.)
1.	Chemicals	10,00,000
2.	Glasswares	3,00,000
3.	Plastic ware	2,00,000
4.	Other consumable items	4,00,000
5.	Cartridges	1,00,000
	Subtotal (Chem. /Cons.)	20,00,000
6	Other research expenditure including R&D services, Publication charges, Contract Manpower Services etc.	15, 00,000
7	Contingencies: includes hired vehicle charges, miscellaneous contract jobs and other unforeseen expenditure such as but not limited to advertisements/ honorarium/ memento/ foods/ lunch/ dinner/ tea/ guest-house charges, etc.	80,000
	Total	35,80,000

Non-Recurring

	NIL	
	Total	00.00

Approved budget for WP-4

A. Recurring	
Contingencies	80,000
Chem./Cons.	20,00,000
ORE	15, 00,000
Total	35,80,000

B. Non-Recurring	
Works & Services	0
Apparatus & Equipment	0
Total	0

WP-5: Scale-up and validation of the seaweed processing for the production of carrageenan, agar and alginate at CSIR-CSMCRI – MARS Mandapam

WP-05 Leader: Dr. R. Dineshkumar

Recurring

S No	Name of Item	Approx. cost (Rs.)
1	Chemicals	2,50,000
2	Glasswares	25,000
3	Other consumable items	1,25,000
4	Maintenance of equipment	50,000
5	Replacement of Spare Parts of equipments	50,000
	Subtotal (Chem./Cons.)	5,00,000
6	Other research expenditure including R&D services, Publication charges, Contract Manpower Services, miscellaneous repairing works, honorarium etc.	2,00,000
7	Contingencies: includes hired vehicle charges, miscellaneous contract jobs and other unforeseen expenditure such as but not limited to advertisements/ honorarium/ memento/ foods/ lunch/ dinner/ tea/ guest-house charges, etc.	1,00,000
	Total	8,00,000

Non-Recurring

8	Works & Services (related to pilot plant civil and electrical items/ flooring for equipments placement/ shed, floor facility for seaweed processing, drying, etc).	1,50,000
9	Apparatus and Equipments [Jacketed High Pressure Vessel; Jacketed Open Pan Evaporator; Perforated Vessel; M.S. Platform for Work Handling; Hoist and Pulley Structure for entire room; Spent KOH storage Vessel; Mixing vessels (HDPE for aqueous solution and IPA /HALAR coated SS/ HALAR coated MS for acidic); Thermic Fluid Heating System with thermic fluid Pipelines with insulations; Distillation Unit with Chiller Plant; Cold Room / chiller plant; Freeze dryer/lyophilizer; Centrifugal Pumps or transfer pump; Heavy duty centrifugal acid transfer pump /peristaltic pump; Vacuum Nutch Filter (Thermic fluid based jacketed) with Water Ring Vacuum Pump; Tubular bowl centrifuge (Thermic Fluid jacketed / non jacketed); Tray dryer; Vacuum dryer; Pulveriser/ Crusher; Multi-mill; Triple/single/dual-effect evaporator; Solid-state/ submerged fermenters; UV-Vis Spectrophotometer; Miscellaneous and minor equipments like safety equipments like fire extinguisher & eye/body shower, trolleys, tanks, effluent treatment plant, bioreactors, voltage regulators/ stabilizers, valves, drain pipes, process modelling softwares; Cell Counter; Gel electrophoresis/ SDS-PAGE; Microplate reader; Hot plate with magnetic stirrer, etc.]	145,00,000

Approved budget for WP-5:

A. Recurring (Rs.)	
Contingencies	1,00,000
Chem./Cons.	5,00,000
ORE	2,00,000
Total	8,00,000
B. Non-Recurring (Rs.)	
Works & Services	1,50,000
Apparatus and Equipments	145,00,000

WP-6: Seaweed based formulations/sap for reduced disease susceptibility in important oil yielding crops, peanut and sesame.

WP-06 Leader: Dr. Pradeep Kumar Agarwal

Sr. No.	Name of Item	Approximate cost (in Rs.)
1.	Chemicals	13,00,000
2.	Glassware	80,000
3.	Plastic ware	1,00,000
4.	Other consumable items	3,00,000
5.	Cartridges	0.00
	Subtotal (Chem./Cons.)	17,80,000
6	Other research expenditure including R&D services, Publication charges, Contract Manpower Services, miscellaneous repairing works, honorarium etc.	28,64,516
7	Contingencies: including hired vehicle charges, and other unforeseen expenditure	1,50,000
	Total	47,94,516

Non-Recurring

8	Works & Services	00
9	Apparatus & Equipment: Microscope, Ultrasonicator, small equipments like vortex, mini spinwin, vaccum pump, pH meter	10,00,000
	Total	10,00,000

Approved budget for WP-6

A. Recurring	
Contingencies	1,50,000
Chem./Cons.	17,80,000
ORE	28,64,516
Total	47,94,516

WP-7: Bioprospecting of Seaweeds and Employing Forward Genetic Approaches to Target Identification of Bio-actives Derived from Seaweeds

WP-07 Leader: Dr. Pramod B. Shinde (from CSMCRI)

Recurring

Sr. No.	Name of Item	Approximate cost (in Rs)
1.	Chemicals	3, 00,000
2.	Glasswares	50,000
3.	Other consumable items	1,00,000
4.	Replacement of spare parts of equipments	35,000
5.	Computer consumables	15,000
	Subtotal (Chem./Cons.)	5,00,000
6	Other research expenditure including R&D services, Publication charges, Contract Manpower Services etc.	NIL
7	Contingencies: includes hired vehicle charges, miscellaneous contract jobs and other unforeseen expenditure such as but not limited to advertisements/ honorarium/ memento/ foods/ lunch/ dinner/ tea/ guest-house charges, etc.	1,00,000
	Total	6,00,000

Approved budget for WP-7

A. Recurring	
Contingencies	1,00,000
Chem./Cons.	5,00,000
ORE	NIL
Total	6,00,000

WP-8: Contribution of coral reef seaweed to blue economy and coral reef health	WP-08 Leader: Dr. Veeragurunathan
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Recurring

Sr. No.	Name of Item	Approximate cost (Rs.)
1.	Chemicals	1,00,000
2.	Glasswares	50,000
3.	Plastic ware	50,000
4.	Other consumable items	2,50,000
5.	Cartridges	--
	Subtotal (Chem./Cons.)	4,50,000
6	Other research expenditure including R&D services, Publication charges, Contract Manpower Services, genome analysis, sequencing services etc.,	2,00,000
7	Contingencies: includes hired vehicle charges, boat engagements, miscellaneous contract jobs and other unforeseen expenditure such as but not limited to advertisements/ honorarium/ memento/ foods/ lunch/ dinner/ tea/ guest-house charges, etc.	3,50,000
8	Maintenance	--
	Total (A)	10,00,000

Non-Recurring

9	Works & Services includes repairing of existing running seawater facilities and its pipeline connections and	1,00,000
10	Apparatus & Equipment	
	ELISA Microplate Reader	2,00,000
	Scuba diving kit	5,00,000
	Total (B)	8,00,000
	Grand Total (A+B)	18,00,000

Approved budget for WP-8

A. Recurring	
Contingencies	3,50,000
Chem./Cons.	4,50,000
ORE	2,00,000
Maintenance	--
Total	10,00,000

2) HCP002502:

Annual Procurement Plan-2026-27

Project type: ~~Inhouse~~ / Centrally funded / STS / RDSF

Project Number: HCP002502

Name of the Project Leader: Dr. S.C. Upadhyay

Name of the Discipline/Section: Salt & Marine Chemicals

Name of Divisional Chair/Section head: Dr. Arvind Kumar

(Capital Budget Head)

Non- Consumable Items (Above 5 lakhs)					
Sr. No.	Name of Equipment/ Item	Quantity (Nos.)	Imported/ Indigenous	Approximate Cost (Rs. in Lakhs)	Tentative period of Procurement
1	Refrigerated Incubator Shaker(s)	1	Indigenous	7.00	April – Sep.2026
2	Rotary Evaporator(s)	1	Indigenous	10.00	April – Sep.2026

(Add Row if needed)

Non- Consumable Items (Below 5 lakhs)					
Sr. No.	Name of Equipment/ Item	Quantity (Nos.)	Imported/ Indigenous	Approximate Cost (Rs. in Lakhs)	Tentative period of Procurement
1	Printer	1	Indigenous	1.00	April – Sep.2026
2	Field pH meter(s)	1	Indigenous	0.50	April – Sep.2026
3	EC meter(s)	2	Indigenous	0.50	April – Sep.2026
4	Desktop with i7 Intel Core	3	Indigenous	2.25	April – Sep.2026
5	UPS	1	Indigenous	0.65	April – Sep.2026
6	TDS	1	Indigenous	0.35	April – Sep.2026
7	Refrigerated Centrifuge	1	Indigenous	3.00	April – Sep.2026
8	Display Tables	2	Indigenous	1.00	April – Sep.2026
9	Chiller	1	Indigenous	1.75	April – Sep.2026
10	Laminar air flow chamber	1	Indigenous	1.75	April – Sep.2026
11	Sap Expeller	1	Indigenous	3.50	April – Sep.2026
12	Trinocular Microscope	1	Indigenous	2.00	April – Sep.2026
13	Plant Canopy Analyzer	1	Indigenous	2.65	April – Sep.2026
14	Workshop tools	1	Indigenous	1.00	April – Sep.2026

(Add Row if needed)

(Consumable Budget Head)

Sr. No.	Name of Equipment/ Item	Approximate Cost (Rs. in Lakhs)
1	Chemicals	6.75
2	Glassware	
3	Plastic ware	
4	R & D Equipment's	
5	Works & Services	
6	Repair & Job work	
7	Cartridge	
8	Gas Cylinders	
9	Software	
10	Electrical and Electronic items	
11	Stationery	
12	Annual Maintenance Contract	
13	IT related consumables	
14	UPS batteries	
15	Miscellaneous items	

3) MMP025302

Annual Procurement Plan-2026-27

Project type: Inhouse / Centrally funded / STS/RDSF

Project Number: MMP025302

Name of the Project Leader: Dr. Asish Kumar Parida

Name of the Discipline/Section: Halophyte Biology & Biotechnology Division

Name of Divisional Chair/Section head: Dr. Pradeep K. Agarwal

(Capital Budget Head)

Non- Consumable Items (Above 5 lakhs)					
Sr. No.	Name of Equipment/ Item	Quantity (Nos.)	Imported/ Indigenous	Approximate Cost (Rs. in Lakhs)	Tentative period of Procurement
1	Minor Equipment up to 1 lakh each	5	Indigenous	5.00	October 2026

Non- Consumable Items (Below 5 lakhs)					
Sr. No.	Name of Equipment/ Item	Quantity (Nos.)	Imported/ Indigenous	Approximate Cost (Rs. in Lakhs)	Tentative period of Procurement
1					
2					
3					

(Add Row if needed)

(Consumable Budget Head)

Sr. No.	Name of Equipment/ Item	Approximate Cost (Rs. in Lakhs)
1	Chemicals	17.50
2	Glassware	0.74
3	Plastic ware	1.70
4	Other Consumables	3.40
7	Cartridge	0.20
13	IT related consumables	0.10
15	Miscellaneous items	0.10

Asish Parida
02.07.2026

Signature of Divisional Chair/ Project Leader/Sectional Head

4) MMP035201 (Dr. Govind Sethia):

Dr. Govind Sethia

Annual Procurement Plan-2026-27

Project type: Inhouse / Centrally funded / STS/RDSF

Project Number: MMP-035201

Name of the Project Leader: Dr. Govind Sethia

Name of the Discipline/Section: IMCD

Name of Divisional Chair/Section head: Dr. P.S. Subramanian

(Capital Budget Head)

Non- Consumable Items (Above 5 lakhs)					
Sr. No.	Name of Equipment/ Item	Quantity (Nos.)	Imported/ Indigenous	Approximate Cost (Rs. in Lakhs)	Tentative period of Procurement
1					
2					
3					

(Add Row if needed)

Non- Consumable Items (Below 5 lakhs)					
Sr. No.	Name of Equipment/ Item	Quantity (Nos.)	Imported/ Indigenous	Approximate Cost (Rs. in Lakhs)	Tentative period of Procurement
1					
2					
3					

(Add Row if needed)

(Consumable Budget Head)

Sr. No.	Name of Equipment/ Item	Approximate Cost (Rs. in Lakhs)
1	Chemicals	2.73
2	Glassware	0.3
3	Plastic ware	
4	R & D Equipment's	0
5	Works & Services	0.5
6	Repair & Job work	0.3
7	Cartridge	1
8	Gas Cylinders	0
9	Software	0
10	Electrical and Electronic items	0
11	Stationery	1.5
12	Annual Maintenance Contract	0.3
13	IT related consumables	0
14	UPS batteries	0
15	Miscellaneous items	0


7/12/2025

Signature of Divisional Chair/ Project Leader/Sectional Head

5) MMP035203:

Annual Procurement Plan-2026-27

Project type: Inhouse / Centrally funded / STS/RDSF

Project Number: MMP035203

Name of the Project Leader: Dr. S. Adimurthy

Name of the Discipline/Section: Marine Natural Products & Biopolymers

Name of Divisional Chair/Section head: Dr. Kamalesh Prasad

(Consumable Budget Head)

Sr. No.	Name of Equipment/ Item	Approximate Cost (Rs. in Lakhs)
1	Chemicals	10.50
2	Glassware	0.70
3	Plastic ware	0.20
4	R & D Equipment's	
5	Works & Services	
6	Repair & Job work	
7	Cartridge	
8	Gas Cylinders	0.10
9	Software	
10	Electrical and Electronic items	
11	Stationery	
12	Annual maintenance contract	
13	IT related consumables	
14	UPS batteries	
15	Miscellaneous items	

S. Adimurthy
22/12/2025
(S. Adimurthy)

Signature of Project Leader

6) RDS000020

Annual Procurement Plan-2026-27

Project type: RDSF

Project Number: RDS000020

Name of the Project Leader: Dr. Uma Chatterjee & Mr. Pankaj D. Indurkar

Name of the Discipline/Section: EMP Group

Name of Divisional Chair/Section head: Dr. Vaibhav Kulshrestha

(Consumable Budget Head)

Sr. No.	Name of Equipment/ Item	Approximate Cost (Rs. in Lakhs)
1.	Chemicals	2.0
2.	Glassware	0.2
3.	Plastic ware	0.2
4.	R & D Consumables	1.5
5.	Repair, Job work & maintenance	0.2
6.	Cartridge	0.2
7.	Gas Cylinders	0.2
8.	Miscellaneous items	0.5

Uma Chatterjee
Signature of Project Leader

7) RDS000018

Name of the Project Leader: Dr. Khanjan Trivedi

(Consumable Budget Head)

Sr. No.	Name of Equipment/ Item	Approximate Cost (Rs. in Lakhs)
1	Chemicals	2.9
2	Glassware	0.1
3	Plastic ware	0.3
4	R & D Equipment's	
5	Works & Services	
6	Repair & Job work	
7	Cartridge	
8	Gas Cylinders	
9	Software	
10	Electrical and Electronic items	
11	Stationery	
12	Annual maintenance contract	
13	IT related consumables	
14	UPS batteries	
15	Miscellaneous items such as HPLC columns (H+ sugar, C18) etc.	1.9
16	ORE (including sequencing services)	0.4

8) RDS000017:

(Consumable Budget Head)

Sr. No.	Name of Equipment/ Item	Approximate Cost (Rs. in Lakhs)
1	Chemicals	6.5 L
2	Glassware	1 L
3	Plastic ware	1 L
4	R & D Equipment's	
5	Works & Services	
6	Repair & Job work	
7	Cartridge	0.20
8	Gas Cylinders	0.10
9	Software	0.10
10	Electrical and Electronic items	
11	Stationery	
12	Annual maintenance contract	
13	IT related consumables	
14	UPS batteries	0.20
15	Miscellaneous items	0.20

[Signature] 14/05/26

Signature of Divisional Chair/ Project Leader/Sectional Head

9) RDS000016:

(Consumable Budget Head)

Sr. No.	Name of Equipment/ Item	Approximate Cost (Rs. in Lakhs)
1	Chemicals	4.8 L
2	Glassware	0.50 L
3	Plastic ware	0.25 L
4	R & D Equipment's	
5	Works & Services	
6	Repair & Job work	
7	Cartridge	
8	Gas Cylinders	0.25 L
9	Software	
10	Electrical and Electronic items	
11	Stationery	
12	Annual maintenance contract	
13	IT related consumables	
14	UPS batteries	
15	Miscellaneous items	

[Signature] 14.05.2026

Signature of Divisional Chair/ Project Leader/Sectional Head

10) RDS000019:

Name of the Project Leader: Dr. Sumit B. Kamble and Dr. Bipin G. Vyas

Name of the Discipline/Section: Salt and Marine Chemicals

Name of Divisional Chair/Section head: Dr. Arvind Kumar

(Capital Budget Head): NA

(Consumable Budget Head)

Sr. No.	Name of Equipment/ Item	Approximate Cost (Rs. in Lakhs)
1	Chemicals	2.15
2	Glassware	1.0
3	Plastic ware	0.9
4	R & D Equipment's	0.3
5	Works & Services	0.0
6	Repair & Job work	4.75
7	Cartridge	0.3
8	Gas Cylinders	0.1
9	Software	0.0
10	Electrical and Electronic items	0.45
11	Stationery	0.0
12	Annual maintenance contract	0.0
13	IT related consumables	0.2
14	UPS batteries	0.35
15	Miscellaneous items	0.57

11) MMP035201 (Dr. Arvind Kumar)

Annual Procurement Plan-2026-27

Project type: ~~Inhouse~~ / Centrally funded / STS/RDSF

Project Number: MMP 035201

Name of the Project Leader: Dr. Arvind Kumar

Name of the Discipline/Section: Salt & Marine Chemicals

Name of Divisional Chair/Section head: Dr. Arvind Kumar

(Capital Budget Head)

Non- Consumable Items (Above 5 lakhs)					
Sr. No.	Name of Equipment/ Item	Quantity (Nos.)	Imported/ Indigenous	Approximate Cost (Rs. in Lakhs)	Tentative period of Procurement

(Consumable Budget Head)

Sr. No.	Name of Equipment/ Item	Approximate Cost (Rs. in Lakhs)
1	Chemicals	6.50
2	Glassware	
3	Plastic ware	
4	R & D Equipment's	
5	Works & Services	
6	Repair & Job work	
7	Cartridge	
8	Gas Cylinders	
9	Software	
10	Electrical and Electronic items	
11	Stationery	
12	Annual Maintenance Contract	
13	IT related consumables	
14	UPS batteries	
15	Miscellaneous items	
16	Diesel	
17	Filter aids	
18	Items required day to day for ESF activities	
19	Cartridges	
20		

Signature of Divisional Chair/ Project Leader/Sectional Head

12) FTT050601

FTT050601:

(Capital Budget head)

Name of the Project Investigator: Dr. Bhaumik Sutariya	Project number: FTC050601 Division: MSST
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Non-consumable items above 5 Lakh					
Sr. no.	Name of the equipment	Quantity (nos.)	Imported/Indigenous	Approx. cost (Rs.)	Period of procurement
1	Membrane testing kit	01	Indigenous	15,00,000	2026-27

Consumable items		
Sr. no.	Name of item	Approximate cost (Rs.)
1.	Chemicals/R&D consumable/polymers/fabric, etc.	3
2.	Glassware	0.5
3.	Plasticware	0.5
4.	R&D Equipments	0
5.	Work and Services	0
6.	Cartridge	0
7.	Gas cylinder	0
8.	Software	0
9.	Electrical and Electronic items	0
10.	Stationary	0
11.	Annual maintenance contract for instruments	1
12.	IT related consumables	0
13.	UPS batteries	0
14.	Spare parts (for replacement), Hardware including pipes, fittings, hoses, nipples, valves, gauges, filters, membrane, pressure vessel, and miscellaneous items	5


डॉ. भौमिक सुतरिया
Dr. Bhaumik Sutariya
 वरिष्ठ वैज्ञानिक / Senior Scientist
 झिल्ली विज्ञान और अलगाव प्रौद्योगिकी
 Membrane Science and Separation Technology
 सीएसआईआर-सीएसएमसीआरआई, भावनगर-364002
 CSIR-CSMCRI, Bhavnagar-364002
 गुजरात (भारत)/Gujarat (India)

13) FTT030604

Annual Procurement Plan-2026-27

Project type: ~~Inhouse~~ / Centrally funded / STS/RDSF

Project Number: FTT030604

Name of the Project Leader: Dr. Arvind Kumar

Name of the Discipline/Section: SMC & PDED

Name of Divisional Chair/Section head: Dr. Arvind Kumar & Dr. J. R. Chunawala
(Capital Budget Head)

Non- Consumable Items (Above 5 lakhs)					
Sr. No.	Name of Equipment/ Item	Quantity (Nos.)	Imported/ Indigenous	Approximate Cost (Rs. in Lakhs)	Tentative period of Procurement
1.	Pilot Plant - Soda Ash Production (PDED) (design, fabrication, installation, commissioning, utilities and instrumentation)	01	Indigenous	48.0	

(Consumable Budget Head)

Sr. No.	Name of Equipment/ Item	Approximate Cost (Rs. in Lakhs)
1	Chemicals	8.00
2	Glassware	
3	Plastic ware	
4	R & D Equipment's	
5	Works & Services	
6	Repair & Job work	
7	Cartridge	
8	Gas Cylinders	
9	Software	
10	Electrical and Electronic items	
11	Stationery	
12	Annual Maintenance Contract	
13	IT related consumables	
14	UPS batteries	
15	Miscellaneous items	
16	Diesel	
17	Filter aids	
18	Items required day to day for ESF activities	
19	Cartridges	

Signature of Divisional Chair/ Project Leader/Sectional Head

14) FBR080404 A

Annual Procurement Plan-2026-27

Project type: ~~Inhouse~~ / Centrally funded / STS/RDSF

Project Number: FBR080404A

Name of the Project Leader: Dr. B Nisar Ahamed

Name of the Discipline/Section: MEME

Name of Divisional Chair/Section head: Dr. Divesh Srivastava

Name of the Discipline: MEME	Name of Divisional Chair: Dr. Divesh N Srivastava
Project Number: FBR080404A	PI: Dr. B. Nisar Ahamed

(Capital Budget Head)

Sr. No.	Name of Equipment/ Item	Approximate Cost (Rs. in Lakhs)
1	Potentiostat	5
2	Peristaltic pump	0.5
3	Mechanical shaker	0.5

(Consumable Budget Head)

Sr. No.	Name of Equipment/ Item	Approximate Cost (Rs. in Lakhs)
1	Chemicals and consumable	2.0
2	Plasticware	0.5
3	Glassware	0.5



Signature of PI

Note:

- **The above procurement plan is dynamic and could be revised as often as may be necessary with the approval of 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-CSMCRI**
- **The procurement is subject to the funds availability/release of sufficient grant from CSIR / or funding agency.**
- **The indicated procurement value is an estimate only.**

This is issued with the approval of the competent authority.