

## Procurement Plan for the Financial Year 2024-25 and 2025-2029

**Name of the Laboratory:** CSIR-National Environmental Engineering Research Institute, Nagpur

<b>A</b>	<b>FOR THE FINANCIAL YEAR 2024-25</b>
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<b>A(a)</b>	<b>EQUIPMENT</b>
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<b>(i)</b>	<b>Equipment : Out of CSIR Infra Grant</b>
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Sr. No.	Name Category of Equipment Item	Quantity (Nos.)	Approximate Cost (Rs. In lakhs)
1.	ICP-MS (SEAF Sub-vertical)	01 No.	100.0
2.	Water Purification System (SEAF Sub-vertical)	02 No.	16.0
3.	Ion Chromatograph (SEAF Sub-vertical)	01 No.	75.0
4.	GC-MS TD (SEAF Sub-vertical)	01 No.	130.0
5.	GC-MS TQ (SEAF Sub-vertical)	02 No.	260.0
6.	ICP OES (SEAF Sub-vertical)	01 No.	85.0
7.	LCMS-MS (SEAF Sub-vertical)	01 No.	400.0
8.	Bench Scale Gas Separation System (ESGE Sub-vertical)	01 No.	25.0
9.	Water Purification System (WCTA Sub- vertical)	01 No.	5.0
10.	UV-VIS spectrophotometer (CZC and HZC)	02 No.	14.0
11.	TKN Digestion and Distillation System (HZC)	01 No	12.0
12.	Gel Doc System (EP Sub-vertical)	01 No.	9.0
13.	Multi-parameter Discrete analyser (ESGE & SEAF Sub-vertical)	02 No.	160.0
<b>Total</b>			<b>1291.0</b>

Sr. No.	Name Category of Vehicle Item	Quantity (Nos.)	Approximate Cost (Rs. In lakhs)
1.	Four Wheeler Car with smart hybrid technology, Minimum ALPHA (MT) and Petrol variant OR Electric vehicle with smart technology	4 Nos.	80.0

<b>(ii)</b>	<b>Equipment : Out of CSIR Funded Projects</b>
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Sr. No.	Name Category of Equipment	Quantity (Nos.)	Project Number/Code	Approximate Cost (Rs. In lakhs)
1.	Laser based TDLAS methane sensor GAS TRAC LZ-30	01 No.	CSIR FTT project	18.0

Sr. No.	Name Category of Vehicle Item	Quantity (Nos.)	Project Number/Code	Approximate Cost (Rs. In lakhs)
NIL				

(iii)	Equipment : Out of Externally Funded Project (EFP)
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Sr. No.	Name Category of Equipment	Quantity (Nos.)	Project Number/Code	Approximate Cost (Rs. In lakhs)
1.	The Sootscan Model OT 21- Optical Transmissometer along with 'Optical validation ND Filter Model No.: M7475	01 No.	GAP-2761	15.5 + GST
2.	ARA N-FRM Sampler	02 No.	GAP-2761	15 +GST
3.	Software Envi-Met Science with BioMet	02 No.	GAP-2835	9.7
4.	Portable Sampling System for PM2.5 emissions from combustion devices including Cook stoves	01 No.	CNP	7.0

Sr. No.	Name Category of Vehicle Item	Quantity (Nos.)	Project Number/Code	Approximate Cost (Rs. In lakhs)
NIL				

B	FOR NEXT 2-4 FINANCIAL YEARS (2025-29) (From 01/04/2025 to 31/03/2029)
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B(a)	EQUIPMENT (TENTATIVE)
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Sr. No.	Name Category of Equipment Item	Quantity (Nos.)	Approximate Cost (Rs. In lakhs)
<b>SEAF Sub-vertical</b>			
1.	CHNS	1 No.	50.0
2.	ED XRF	1 No.	250.0
3.	EC-OC Analyser	1 No.	200.0
4.	Lab Refrigerator	4 No.	6.0
5.	Inflammable Storage Cabinet	4 No.	10.0
6.			
<b>ESGE Sub-vertical</b>			
1.	LCA Tool Up-gradation	1 No.	10.0
2.	Ecoinvent database for LCA	1 No.	5.0
3.	Workstations	2 No.	8.0
4.	Computers	7 Nos.	5.0

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<b>ERPM Sub-vertical</b>			
1.	Wearable 5 wavelength Aethalometer MicroAeth MA200	1 No.	20.0
2.	Statistical Software (SPSS/Minitab/STATA etc.)	1 No.	6.0
3.	Isokinetic Flue Gas Analyzer	2 No.	20.0
4.	Up-gradation of PHAST and SAFETI (Risk Assessment Tool)	1 No.	90.0
<b>WCTA Sub-vertical</b>			
1.	Deep Freezer (– 80°C) and Deep Freezer (– 20°C)	1 No.	14.0
2.	MilliQ Water Purification System	1 No.	5.0
3.	Refrigerated Tissue homogenizer	1 No.	7.0
4.	Sonicator	1 No.	3.0
5.	Autoclave	1 No.	2.0
6.	Biosafety Cabinet	1 No.	12.0
7.	Cascade Impactor air sampler	1 No.	7.0
8.	Weighing Balance with 6 decimals along with anti-vibration table	1 No.	12.0
9.	Personal Air Monitors	6 Nos.	10.0
<b>EE&amp;PM Sub-vertical</b>			
1.	PromethION Nanopore Sequencer	1 No.	400.0
2.	BSL II Cabinet	1 No.	3.0
3.	BSL III Cabinet (Glove Box)	1 No.	10.0
4.	QuantStudio 5 qPCR	1 No.	20.0
5.	Vitek MALDI-ToF	1 No.	100.0
<b>WR Sub-vertical</b>			
1.	RES2DINV and RES3DINV professional with perpetual License Software	1 No.	12.0
<b>Hyderabad Sub-vertical</b>			
1.	Lab Fridge 40C	1 No.	3.0
2.	Hot Air Oven	1 No.	2.5
3.	TKN Digestion and Distillation System	1 No.	7.5
4.	Double Distillation Water System	1 No.	2.5
5.	BOD Incubator	1 No.	3.5
6.	Multi parameter Analyser	2 No.	5.0
7.	Table Top Turbidity meter	1 No.	1.5

Sr. No.	Name Category of Vehicle Item	Quantity (Nos.)	Approximate Cost (Rs. In lakhs)
1.	20 Seater AC Temp Traveller Bus	1 No.	20.0

<b>B (b)</b>	<b>CONSUMABLES</b>
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Sr. No.	Category	Expected Procurement value (Rs. In Lakhs)
1	R&D Consumables for closed loop systems (sensors, electrodes, software upgradation, etc)	125.0
2	Chemicals (Solvents, CRMs, SRMs and other reagents, etc)	125.0
3	Other Consumables (Column, Syringes, Farm Consumables, Filter papers, Planting materials, seeds, Agriculture accessories, etc.)	125.0
4	Glass wares (Beakers, Conical Flask, Volumetric Flask, Burette, Pipette, Digital Burette and Pipette etc.)	100.0
5	Plastic wares (Beakers, Conical Flask, Volumetric Flask, Bottles etc.)	100.0
6	Toner Cartridges.	30.0
7	Batteries, etc.	50.0
8	Gases (Argon, Helium, Oxygen, Nitrogen etc.)	50.0
9	Maintenance/AMC/repairing of existing equipment	75.0
10	Stationery items (Towels, napkins, duster, pen, pencil, eraser, sharpener, marker, etc.)	50.0
11	IT/software-related Items (Computer, Printer, Scanner, Laptop, Switches, Server etc.)	250.0
12	Furniture (Laboratory Table, Computer Table, Executive Table, Chairs, Lab Stool, Storage Cabinet etc. )	100.0
13	Electric Items (Generator, Transformer, Cables, Fan, Tube lights, Halogens, Protective Switches etc.	120.00