

**CSIR-INDIAN INSTITUTE OF PETROLEUM, DEHRADUN
PROCUREMENT PLAN**

A	FOR THE FINANCIAL YEAR 2026-27
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A(a)	EQUIPMENT
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(i)	Equipment: Out of CSIR Funded Projects
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Sr. No	Name Category of Equipment/Vehicle Item	Quantity (Nos.)	App. Cost (Rs. in lakh)
1	Hydrogen Reactor - hydrogen charging and testing reactor	1	20.00
2	EV Motor, Controller and accessories	2	1.10
3	Sound level and vibration measurement system	1	20.70
4	ACE FCC Unit	1	220.00
5	Air Release Tester	1	20.00
6	Apparent Viscosity of Grease	1	50.00
7	Auger reactor	1	20.00
8	Bench scale continuous unit	1	200.00
9	Cryogenic gas mixture freezing point and solubility Experimental Setup	1	55.00
10	DHA	1	55.00
11	Dynamic Shear Rheometer (DSR)	1	70.00
12	ED-XRF	1	55.00
13	Experimental furnace for coal biomass pulverized combustion system with instrumentation and accessories	1	30.00
14	Facility for CEMS (continuous emissions monitoring system)	1	100.00
15	Gas reservoir	1	25.00
16	GC-VUV	1	250.00
17	HPLC RI ELSD UV-Vis	1	70.00
18	Low Temperature Torque Tester	1	50.00
19	Minor equipments (less than 20 lakhs)		115.70
20	Multiple gas analyzer for Pilot plant	1	50.00
21	NMR 400 MHz	1	650.00
22	Online gas chromatograph- Refinery gas analyser	1	65.00
23	Oxidation and thermal stability analyzer	1	25.00
24	Reactor for bio-jet plant	1	20.00
25	Synthesis gas compressor cum storage	1	100.00
26	UV-IR Flame Detection system	1	6.00
27	Feed Pump	1	2.50
28	High pressure pump	1	4.50
29	Hydrogen MFC	2	7.00
30	Spare parts of pilot plant, hydrogen generator and distillation columns falling under capital head	-	9.00
31	Skid mounting cooling system experimental setup	1	60.00
32	Polymerization Reactor 100 Lt.	1	40.00

33	Polymerization Reactor 5 Lt.	1	10.00
34	Triple Bed reactor System	1	50.00
35	Microprocessor based lab-scale fixed bed micro reactor unit	1	50.00
36	Hydrogen charging and testing reactor	1	20.00
37	Noise and vibration measurement system with software, EV motor and controller set	1	20.00
38	ICE 3-wheeler auto	1	5.00
39	Online gas analyser (Customized)	1	45.00
40	Micro Activity Unit	1	10.00
41	High-capacity feed pumps	2	10.00
42	Reactor furnace	2	12.00
43	Chiller	2	10.00
44	Two wheeler	1	2.00
45	Automatic hydraulic press	1	4.00
46	Potentiostat/Galvanostat module/channel for electrochemical work station	1	6.50
47	Automatic polishing machine	1	7.00
48	Omics Box	1	10.00
49	Refrigerated Thermostatic Circulating Bath (-30 to 120 Degree C)	1	8.00
50	Laptop for office work	4	4.50
51	Pressure regulators for Cylinder	1	1.80
52	Vacuum Pump	1	4.00
53	Air Conditioner – Cassatte type	1	1.50
54	Liquid Nitrogen storage Can	1	0.80
55	Oil Vacuum Pump	1	3.00
56	Repairing of fume hood with installation of spot extractor	1	4.00
57	Chiller	1	5.00
58	HPLC pump	1	5.00
59	Gas meter	1	6.00
60	H2 MFC	1	5.00
61	Back pressure regulator	1	4.00
62	Penetrometer	1	12.00
63	Fuming cupboard	1	10.00
64	Heat exchanger	1	15.00
65	Vapor - Liquid Equilibrium (VLE) experimental set-up	1	16.00
66	Magnetic Stirrer with Hot Plate	4	0.79
67	Rotary Evaporator (RE2BL)	1	1.50
68	Diaphragm Vacuum Pump (AD2C)	1	1.00
69	Self propelled weeder	1	0.80
70	High-pressure drilling fluid setup and HPHT Filter Press	1	20.00

(ii)	Equipment: Out of Externally Funded Projects (EFP)
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Sr. No	Name Category of Equipment/Vehicle Item	Quantity (Nos.)	App. Cost (Rs. In lakh)
1	Laptop/Desktop computer	4	5.25
2	Workstation	1	4.00
3	Hydrogen Canister with accessories and mass flowmeter	1	17.00
4	Laptop	1	1.00
5	Oxidation stability bath with a pressure vessel	1	3.20
6	Hydraulic Drum Lifter	1	2.00
7	Gear Pump for oil transfer	1	0.20
8	Work Bench (SS)	1	0.15
9	Stirrer Motor	1	0.22
10	Bench Grinder & Polisher (Polisher-Grinder-Drill)	1	0.10
11	Hot Plate	1	0.70
12	Heating Mantle	1	0.10
13	Ultrasonic Bath	1	0.40
14	High pressure batch reactor	1	15.0
15	Analytical weighing scale	1	1.26
16	Pensky Martens Flash Point Apparatus	1	0.65
17	Manual Drum Lifter, Shifter and Tilter 360°	1	0.99
18	Monoblock type oil pump	1	0.29
19	Bench Grinder 3 in 1 wheel and chuck 0.25 hp	1	0.28
20	Executive Table with Pedestal Unit, Revolving Chair	8	0.62
21	Steel Shelving Cabinets	2	0.33
22	Hot Plate with Magnetic Stirrer	1	0.70
23	Heating Mantle 1000 ml	1	0.10
24	Refrigerator	1	0.25
25	Computer Monitor	1	0.25
26	Hard Drive	1	0.10
27	Fabrication of the Reactor Assembly/ Autoclave	1	1.35

A (b)	*CONSUMABLE
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Sr. No.	Expected Procurement Value (Rs. In Lakhs)				
	Category	Out of CSIR Infra Grant	Out of CSIR Funded Projects	Out of Externally Funded Project (EFP)	Total (Rs. In Lakhs)
1	R&D Consumables for closed loop systems (by equipment name eg. Kits for Illumina sequencer)	5.00	10.00	5.00	20.00
2	Chemicals	35.00	10.00	5.00	50.00
3	Other Consumables (ex- Membranes, filters, magnetic beads, tough-tags, etc.)	43.00	5.00	5.00	53.00
4	Glass wares (ex- name the different glass wares)	8.30	5.00	0	13.30
5	Plastic wares (ex- Name the different plastic wares)	5.00	2.00	0	7.00
6	Toner Cartridges	2.00	0	0	2.00
7	Batteries, etc.	2.00	2.50	0	4.50
8	Gases (ex- tentative names)	0	23.00 Hydrogen: 3.00	0	23.00
9	Maintenance/AMC/repairing of existing equipment	0	12.00	0	12.00
10	Stationery items (ex- name a few)				1.50
11	IT / software-related Items (Name the items required during year)	16.00	0	0	16.00
12	Furniture (Name the items required during year)				
13	Electric Items (Name the items required during year)		FTT EV Kit Rs. 0.30		

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 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 indicated procurement value is an estimate only.