

CSIR-INDIAN INSTITUTE OF PETROLEUM, DEHRADUN
PROCUREMENT PLAN

Updated as on 20 July 2026

A	FOR THE FINANCIAL YEAR 2026-27
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A(a)	EQUIPMENT
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(i)	Equipment: Out of CSIR Infra Funds
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Sr. No	Name Category of Equipment/Vehicle Item	Quantity (Nos.)	Approximate Cost (Rs. in lakh)
1	20 HP, 3 Phase, Submersible Pump Set/15 KW/20 HP	2	1.70
2	50 Hp, 3 Phase, Submersible Pump Set/37 KW/50 HP	1	2.30
3	15 Hp, 3 Phase, Mono block Pump set / 11 KW/15 HP	2	1.70
4	50 KVA, 3 Phase, Servo Voltage Stabilizer	1	1.50
5	Multi-channel data acquisition system	1	7.00
6	Wind tunnel with air heater and accessories	1	4.00
7	Hot plate	1	1.00
8	Digital multimeter	1	0.50
9	Pitot tube	1	0.50
10	Thermal Imaging Camera	1	10.00
11	Thermoelectric generator	60	1.00
12	Heat flux sensors	5	2.00
13	Programmable DC electronic load	1	1.00
14	DC power analyzer	1	2.00
15	Catridge heater with PID control	1	0.40
16	Water chiller/cooling unit	1	1.00
17	LCD Display Module	1	0.30
18	12V 100AH Batteries (34 No.s) with Stand and MCCB	1 Set	4.00

(ii)	Equipment: Out of CSIR Funded Projects
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Sr. No	Name Category of Equipment/Vehicle Item	Quantity (Nos.)	Project Number/ Code	Approximate Cost (Rs. in lakh)
1	Hydrogen Reactor - hydrogen charging and testing reactor	1	FIRST	20.00
2	EV Motor, Controller and accessories	2	FTT (EV Kit)	1.10
3	Sound level and vibration measurement system	1	FTT (EV Kit)	20.70
4	ACE FCC Unit	1	MLP-002623	220.00
5	Air Release Tester	1	MLP-002623	20.00
6	Apparent Viscosity of Grease	1	MLP-002623	50.00
7	Auger reactor	1	MLP-002623	20.00
8	Bench scale continuous unit	1	MLP-002623	200.00

9	Cryogenic gas mixture freezing point and solubility Experimental Setup	1	MLP-002623	55.00
10	DHA	1	MLP-002623	55.00
11	Dynamic Shear Rheometer (DSR)	1	MLP-002623	70.00
12	ED-XRF	1	MLP-002623	55.00
13	Experimental furnace for coal biomass pulverized combustion system with instrumentation and accessories	1	MLP-002623	30.00
14	Facility for CEMS (continuous emissions monitoring system)	1	MLP-002623	100.00
15	Gas reservoir	1	MLP-002623	25.00
16	GC-VUV	1	MLP-002623	250.00
17	HPLC RI ELSD UV-Vis	1	MLP-002623	70.00
18	Low Temperature Torque Tester	1	MLP-002623	50.00
19	Minor equipments (less than 20 lakhs)		MLP-002623	115.70
20	Multiple gas analyzer for Pilot plant	1	MLP-002623	50.00
21	NMR 400 MHz	1	MLP-002623	650.00
22	Online gas chromatograph- Refinery gas analyser	1	MLP-002623	65.00
23	Oxidation and thermal stability analyzer	1	MLP-002623	25.00
24	Reactor for bio-jet plant	1	MLP-002623	20.00
25	Synthesis gas compressor cum storage	1	MLP-002623	100.00
26	UV-IR Flame Detection system	1	MLP-002623	6.00
27	Feed Pump	1	FTT	2.50
28	High pressure pump	1	FBR/FTT	4.50
29	Hydrogen MFC	2	FBR/FTT	7.00
30	Spare parts of pilot plant, hydrogen generator and distillation columns falling under capital head	-	FBR/FTT	9.00
31	Skid mounting cooling system experimental setup	1	FTT	60.00
32	Polymerization Reactor 100 Lt.	1	FTT	40.00
33	Polymerization Reactor 5 Lt.	1	FTT	10.00
34	Triple Bed reactor System	1	FTT	50.00
35	Microprocessor based lab-scale fixed bed micro reactor unit	1	FTT	50.00
36	Hydrogen charging and testing reactor	1	FIRST	20.00
37	Noise and vibration measurement system with software, EV motor and controller set	1	FTT	20.00
38	ICE 3-wheeler auto	1	FTT	5.00
39	Online gas analyser (Customized)	1	FTT	45.00
40	Micro Activity Unit	1	FTT	10.00
41	High-capacity feed pumps	2	FTT	10.00
42	Reactor furnace	2	FTT	12.00
43	Chiller	2	FTT	10.00
44	Two wheeler	1	MLP-002623	2.00
45	Automatic hydraulic press	1	MLP-002623	4.00

46	Potentiostat/Galvanostat module/channel for electrochemical work station	1	MLP-002623	6.50
47	Automatic polishing machine	1	MLP-002623	7.00
48	Omics Box	1	MLP-002623	10.00
49	Refrigerated Thermostatic Circulating Bath (-30 to 120 Degree C)	1	MLP-002623	8.00
50	Laptop for office work	5	MLP-002623	5.70
51	Pressure regulators for Cylinder	1	MLP-002623	1.80
52	Vacuum Pump	1	MLP-002623	4.00
53	Air Conditioner – Cassatte type	1	MLP-002623	1.50
54	Liquid Nitrogen storage Can	1	MLP-002623	0.80
55	Oil Vacuum Pump	1	MLP-002623	3.00
56	Repairing of fume hood with installation of spot extractor	1	MLP-002623	4.00
57	Chiller	1	MLP-002623	5.00
58	HPLC pump	1	MLP-002623	5.00
59	Gas meter	1	MLP-002623	6.00
60	H2 MFC	1	MLP-002623	5.00
61	Back pressure regulator	1	MLP-002623	4.00
62	Penetrometer	1	MLP-002623	12.00
63	Fuming cupboard	1	MLP-002623	10.00
64	Heat exchanger	1	MLP-002623	15.00
65	Vapor - Liquid Equilibrium (VLE) experimental set-up	1	FIRST	16.00
66	Magnetic Stirrer with Hot Plate	4	MLP-002623	0.79
67	Rotary Evaporator (RE2BL)	1	MLP-002623	1.50
68	Diaphragm Vacuum Pump (AD2C)	1	MLP-002623	1.00
69	Self propelled weeder	1	MLP-002623	0.80
70	High-pressure drilling fluid setup and HPHT Filter Press	1	MLP-002623	20.00
71	Power Analyser	1	MLP-002623	2.50
72	X-ray Photoelectron Spectroscopy (XPS)	1	MLP-002623	650.00
73	MWD XRF	1	MLP-002623	100.00
74	Double Beam UV Vis DIR Spectrometer.	1	MLP-002623	50.00
75	GC-Simulated distalation	1	MLP-002623	50.00
76	Micro Distillation Unit	1	MLP-002623	60.00
77	Sievert type apparatus	1	MLP-002623	80.00
78	Cooling System Experimental Setup	1	MLP-002623	65.00
79	Experimental Setup: Multipurpose Reactive distillation based system setup	1	MLP-002623	100.00
80	Vapour Liquid Equilibrium Reactor System	1	MLP-002623	50.00
81	Erosion wear tester	1	MLP-002623	60.00
82	Life performance of greases	1	MLP-002623	120.00
83	High pressure and high temperature TG analyzer	1	MLP-002623	200.00

84	Extractive pyrolysis pilot plant reactor with solvent recovery	1	MLP-002623	250.00
85	Optical microscope (plane polarized)	1	MLP-002623	50.00
86	Flow loop for crude oil	1	MLP-002623	75.00
87	High speed wobble index/BTU/calorific value/combustion air requiremenmt index measurement facility	1	MLP-002623	100.00
88	High-temprature calcination unit	1	MLP-002623	20.00
89	Static line mixture for the continuous preparation of Diesel methanol blend	1	MLP-002623	40.00
90	Arc GIS	1	MLP-002623	25.00
91	Superflow designer software	1	MLP-002623	20.00
92	Jaw Crusher	1	MLP-002623	22.00
93	VLE Experimental setup	1	MLP-002623	20.00
94	High temprature RI	1	MLP-002623	20.00
95	Modulating Duty Type Pneumatic Actuated 2 Way Globe Control Valve	1	MLP-002623	0.61
96	Rotary Slasher	1	MLP-002623	0.60
97	Thermal Imager	1	MLP-002623	2.00
98	Portable process calibrator	1	MLP-002623	3.00
99	Multi Effect Evaporator	1	MMP-035204	19.00
100	Non-refrigerated Centrifuge	1	MMP-035204	3.00
101	Tubular Furnace	1	MMP-035204	3.00
102	Ultra purified water generation unit/High quality Water purification system	1	MMP-035204	4.75
103	Spheronizer-extruder set up	1	MMP-035204	5.00
104	MFC	2	MMP-035204	3.00
105	Upgradation of existing old equipment computer/laptop with latest software and CPU	2	MMP-035204	2.25
106	Magnetic Stirrer with Ceramic Coated Aluminium Alloy Top Plate,	2	MMP-035204	1.00
107	Overhead Stirrers	2	MMP-035204	3.00
108	Ultrasonic Bath (Sonicator)	1	MMP-035204	0.50
109	Cryocans	1	MMP-035204	1.00
110	Refrigerated centrifuge	1	MMP-035204	6.50
111	Laminar Air bench	1	MMP-035204	1.50
112	Muffle Furnace	1	MMP-035204	5.00
113	Hot air oven	2	MMP-035204	1.00
114	Gas purification panel	1	MMP-035204	2.00
115	Hot air Blower	2	MMP-035204	0.30
116	Fume hood	1	MMP-035204	3.00
117	Chiller	1	MMP-035204	3.00
118	Hot plate/ heating mantle with stirring	2	MMP-035204	0.70
119	Furnace	1	MMP-035204	4.75
120	Rotary oven	1	MMP-035204	4.75
121	Measuring balance	1	MMP-035204	4.00

122	Mass flow controllers	2	MMP-035204/MLP 002623	4.00
123	Gas regulators	1	MMP-035204	1.00
124	Magnetic stirrers with hot plate	2	MMP-035204/MLP 002623	2.00
125	Spray coater	1	MMP-035204	0.50
126	Gas detector	1	MMP-035204	1.00
127	Ultrasonic bath	1	MMP-035204	0.50
128	Dip coater	1	MMP-035204	0.50
129	Vacuum pump controller	1	MMP-035204	1.00
130	Rejuvenation and upgradation of methanol Rig	1	MMP-035204	48.60
131	Cryocans	1	MMP-035204	1.00
132	Pressure regulators	4	MMP-035204/MLP0 02623	1.20
133	Micro-batch reactor	1	MMP-035204	12.00
134	High Pressure benchtop reactor	1	MMP-035204	19.00
135	MFCs with controller	2	MMP-035204	2.00
136	Gas flow meter	1	MMP-035204	0.50
137	Potentiostat/Galvanostat module/channel for electrochemical workstation (With 1 unit of electrochemical cell and electrodes)	1	MMP-035204	6.50
138	Tap Density Tester	1	MMP-035204	2.50
139	Vacuum Pump	1	MMP-035204	0.40
140	HPLC	1	MMP-035204	67.25
141	Bench scale reactor	1	MMP-035204	26.00
142	GC-DHA	1	MMP-035204	30.00
143	Workstation with software/database	1	MMP-035204	6.94
144	Transfer Pump	1	MLP-002623	1.50
145	Pump (Chiller)	1	MLP-002623	0.50
146	Gas Meter	3	MLP-002623	10.00
147	Air Compressor	1	MLP-002623	7.00
148	Computer System	4	MLP-002623	4.00
149	High pressure batch reactor	1	MLP-002623	40.00
150	Furnace	1	MLP-002623	4.50
151	KF titrator	1	MLP-002623	2.00
152	Rotavapour with assembly	1	MLP-002623	4.50
153	Vacuum pump with spare parts	1	MLP-002623	2.50
154	Surface tension analyser	1	MLP-002623	5.00
155	Surface tension analyser	1	MLP-002623	5.00
156	Barrel heater	1	MLP-002623	1.00
157	Chain pulley	1	MLP-002623	0.50
158	Weed remover	1	MLP-002623	0.50
159	Biomass harvester	1	MLP-002623	0.60

160	EV Motor Test Bench	1	MLP-002623	150.00
161	Two wheeler engine test bed	1	MLP-002623	50.00
162	Hardware-In-Loop (HIL) system for EV testing and energy studies with complex driving scenarios.	1	MLP-002623	95.00
163	GC-NCD	1	MLP-002623	75.00
164	Grazing Incidence FTIR integrated with High-temperature	1	MLP-002623	60.00
165	GC -MS	1	MLP-002623	70.00
166	ASPEN One Engineering Desktop (one license for 5year period)	1	MLP-002623	110.00
167	High Pressure, Low-High temperature adsorption isotherm and kinetics measurement unit	1	MLP-002623	350.00
168	Tribo-tester	1	MLP-002623	100.00
169	High pressure fixed bed reactor	1	MLP-002623	150.00
170	Fully automated water cooled experimental furnace with complete instrumentation and data acquisition ssytem	1	MLP-002623	100.00
171	Flame holding test rig at elevated pressure with material exposure test rig	1	MLP-002623	200.00
172	PLIF (Pressure laser induced flourescence	1	MLP-002623	300.00
173	Biomass gasifier	1	MLP-002623	30.00
174	Catalyst tableting machine	1	MLP-002623	25.00
175	Automatied corrosion bath instrument with corrosion analyzer as per ASTM D665	1	MLP-002623	30.00
176	Experimental Setup for Falling Film Hydrodynamic Study	1	MLP-002623	25.00
177	Skid mounted Lab-scale Pervaporation system	1	MLP-002623	30.00
178	GC-FID system	1	MLP-002623	40.00
179	Electrical Conductivity Tester	1	MLP-002623	30.00
180	High-Pressure Bench scale Biomass Pyrolysis unit with liquid pumping facility	1	MLP-002623	35.00
181	UV-Vis spectrophotometer with Peltier and solid probe	1	MLP-002623	40.00
182	Bench scale catalytic membrane set-up	1	MLP-002623	40.00
183	Bench top distillation unit (200 ml)	1	MLP-002623	30.00
184	High pressure batch reactor	1	MLP-002623	40.00
185	Island Bench	2	MLP-002623	6.00
186	Oven	1	MLP-002623	3.50
187	Deep Freezer	2	MLP-002623	4.00
188	Controller Omron E5DC-RX2ASM-800	1	MLP-002623	0.15
189	Incubator shaker	1	FBR020406	4.00
190	Smoke meter	1	MLP-002623	0.50
191	Standard - Flat Force-draft Multi-Fuel Chulla	20	MLP-002623	1.50
192	Modulating Duty Type Pneumatic Actuated 2 Way Globe Control Valve	1	MLP-002623	0.80
193	Vortex Flow Meter (Steam Flow Meter)	1	MLP-002623	1.20

194	FO/LDO burner with heating system	1	MLP-002623	2.00
195	Furnace oil flow meter	1	MLP-002623	2.00
196	Air flow meter	1	MLP-002623	2.00
197	Furnace oil pump	1	MLP-002623	0.50
198	Water Pump	1	MLP-002623	0.50
199	VFD controller for blower and pump	4	MLP-002623	0.80
200	Water flow meter	1	MLP-002623	0.50
201	Pressure gauges	4	MLP-002623	0.60
202	Steam throttling calorimeter	1	MLP-002623	1.20
203	Opacity meter	1	MLP-002623	1.50
204	Mass flow controller-Multi-gas	2	MLP-002623	5.00
205	Hydrogen Cylinder gas Bank	1	MLP-002623	3.00
206	Exhaust blowers/fans	3	MMP065202	1.00
207	After treatment system components	1	MMP065202	5.00
208	Channel gas flow system	1	MMP-035204	4.00
209	Thermo hygrometer	1	MLP-002623	0.96

(iii)	Equipment: Out of Externally Funded Projects (EFP)
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Sr. No	Name Category of Equipment/Vehicle Item	Quantity (Nos.)	Project Number/Code	Approximate Cost (Rs. In lakh)
1	Laptop/Desktop computer	3	GAP-0168	3.00
2	Laptop and Desktop	1	SSP0250	2.25
3	Workstation	1	GAP -0226	4.00
4	Hydrogen Canister with accessories and mass flowmeter	1	GAP -0226	17.00
5	Laptop	1	GAP -0226	1.00
6	Oxidation stability bath with a pressure vessel	1	SSP-247	3.20
7	Hydraulic Drum Lifter	1	SSP-247	2.00
8	Gear Pump for oil transfer	1	SSP-249	0.20
9	Work Bench (SS)	1	SSP-249	0.15
10	Stirrer Motor	1	SSP-249	0.22
11	Bench Grinder & Polisher (Polisher-Grinder-Drill)	1	SSP-249	0.10
12	Hot Plate	1	SSP-257	0.70
13	Heating Mantle	1	SSP-257	0.10
14	Ultrasonic Bath	1	SSP-253	0.40
15	High pressure batch reactor	1	CLP0207	15.0
16	Analytical weighing scale	1	SSP-258	1.26
17	Pensky Martens Flash Point Apparatus	1	SSP-259	0.65
18	Manual Drum Lifter, Shifter and Tilter 360°	1	SSP-247	0.99
19	Monoblock type oil pump	1	SSP-247	0.29
20	Bench Grinder 3 in 1	1	SSP-247	0.28

	wheel and chuck 0.25 hp			
21	Executive Table with Pedestal Unit, Revolving Chair	8	SSP-258	0.62
22	Steel Shelving Cabinets	2	SSP-258	0.33
23	Hot Plate with Magnetic Stirrer	1	SSP-257	0.70
24	Heating Mantle 1000 ml	1	SSP-257	0.10
25	Refrigerator	1	SSP-239	0.25
26	Computer Monitor	1	SSP-239	0.25
27	HARD DRIVE	1	SSP-254	0.10
28	FABRICATION OF THE REACTOR ASSEMBLY/ AUTOCLAVE	1	SSP-254	1.35
29	Web Camera	1	SSP-239	0.20
30	Pine Needle Briquetting unit	2	GAP-0177; GAP - 0261	20.00
31	Flue Gas analyzer	1	GAP - 0252	10.00
32	Power analyser	1	SSP0274	2.50
33	Air filling station	1	SSP0274	0.50
34	Weather station	1	SSP0274	0.50
35	Tachometer	1	SSP0274	0.50

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 (items for spectroscopic, microscopic, and chromatographic instruments)	5	4	5	14
2	Chemicals (Solvents (hexane, ethanol, acetone, methanol, isopropyl alcohol, heptanes, benzene, DMSO, diethylether, ethylene glycol, etc.), Inorganic Salts, Acids (Sulfuric acid, nitric acid, acetic acid, etc) and Base (KOH, NaOH, etc), Chemical and material standards for calibration, Specialty chemicals and materials, Advanced materials, catalysts, enzymes, biomolecules, etc, Filter	35	97	5	137

	papers, syringe filter, membranes, etc., Deuterated solvents, HPLC-grade water				
3	Other Consumables (ex-Membranes, filters, magnetic beads, tough-tags, etc.) Epoxy Dynamometer/Controller servicing Emission Analyser Servicing Diesel for test samples, Fabrication components for test setup, Transportation charges Servicing of battery chargers, Servicing of relays. Emission analyser Calibration gas bottle (Qty:3) Pressure Valves Calibration of equipment Electrical spare parts, items for spectroscopic, microscopic, and chromatographic instruments, 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.	43	16	5	64
4	Glass wares (beakers, round-bottom flasks, filtration units, joints and cones, condensers, vials, sample bottles, etc)	8.3	30		38.30
5	Labware (gloves, crucibles, quartz tubes and boats, alumina tubes and boats, etc)	0	12		12.00
6	Plastic wares (Reagent tubes, micropipette-tips, centrifuge tubes, reagent bottles, utility tray, etc)	5	7		12.00
7	Safetyware (gloves, lab-coats, goggles, face-shields, masks, etc)	0	4		4.00
	Housekeeping (Oils, greases,	1	5		6.00

	lubricants, detergents, glassware cleaners, Handwash, Acid, Broom, Wiper, Tyre, Cordless phone, etc)				
8	Toner Cartridges	2	4		6.00
9	Batteries, etc.	2	3.5		5.50
10	Gases (air, oxygen, nitrogen, argon, helium, hydrogen, gaseous mixtures, etc)		20		20.00
11	Maintenance/AMC/repairing of existing equipment		12	2	14.00
12	Stationery items (Photocopy Paper)	1.04		1.5	2.54
13	IT / software-related Items (LAN cable, Networking accessories, cables etc)	16			16.00
14	Furniture (Granite tables, two island tables, Chairs, Drawers, door stopper double ended, tower bolt, plywood (6mm, 12mm, 19mm), door handle 150mm, door handle 100mm, steel butt hinge 75mm, steel butt hinge 50mm, wooden beading patti, hydraulically regulated door closer etc.)	3		10	13.00
15	Electric Items (Name the items required during year)		FTT EV Kit Rs.30,000/-		

* Rs. 180 Lakh under C&C head of Institute-wide MLP

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.