

## NPL Project Procurement List 2024-25 as on Dec 04 , 2024

S.No	Item Name	Recurring / Non-Recurring	Project No.	Qty.
1	Exhaust system with hood (For RFB test station)	Recurring	HCP 53	1
2	Sieve for vaccum filtration	Recurring	HCP 53	1
3	Nitrogen gas	Recurring	HCP 53	5
4	Helium gas	Recurring	HCP 53	2
5	platinum sheet electrodes	Recurring	HCP 53	2
6	Ag/AgCl reference electrode	Recurring	HCP 53	2
7	ASE 60 thickner	Recurring	HCP 53	25 kgs
8	Zinc Bromide	Recurring	HCP 53	500g
9	Vanadyl sulphate	Recurring	HCP 53	1 kg
10	Sulphuric acid	Recurring	HCP 53	5 lit
11	Anhydrous KBr	Recurring	HCP 53	500 mg
12	Ammonia solution (NH4OH)	Recurring	HCP 53	5 lit
13	Perchloric acid	Recurring	HCP 53	500 ml
14	Potassium dichromate	Recurring	HCP 53	500 mg
15	Ethyl-methylpyrrolidinium bromide	Recurring	HCP 53	10 gm
16	Ethyl-methylmorpholinium bromide	Recurring	HCP 53	10 gm
17	Waxpole	Recurring	HCP 53	10
18	Release paper	Recurring	HCP 53	100
19	Double stage helium regulator	Recurring	HCP 53	1
20	Repair of electrochemical workstation with spares	Recurring	HCP 53	1
21	5 cell stack for RFB system	Recurring	HCP 53	1
22	Hydrothermal bomb	Recurring	HCP 53	2
23	Miscellaneous glasswares	Recurring	HCP 53	1
24	NA	Recurring	HCP 53	
25	NA	Recurring	HCP 53	
26	NA	Recurring	HCP 53	
27	NA	Recurring	HCP 53	
28	NA	Recurring	HCP 53	
29	Connectors, Cables, electrical component and other relevant accessories	Recurring	FTT 070507	10
30	Incubator Analyzer	Non-Recurring	FTT 070507	1
31	Neonatal Incubator	Non-Recurring	FTT 070507	1
32	Temperature sensor	Non-Recurring	FTT 070507	1
33	Hygrometer	Non-Recurring	FTT 070507	1
34	anemometer	Non-Recurring	FTT 070507	1
35	Dry well	Non-Recurring	FTT 070507	1
36	Humidity Chamber	Non-Recurring	FTT 070507	1
37	Sound Calibrator	Non-Recurring	FTT 070507	1
38	Wind tunnel	Non-Recurring	FTT 070507	1
39	Anti-Vibration Table	Non-Recurring	FTT 070507	2
40	Humidifier with dry air controller	Non-Recurring	MLP 201232	1 no.
41	Sheffield Head with sensors	Non-Recurring	MLP 201232	1 set

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42	IR Thermal Imager	Non-Recurring	MLP 201232	01 nos
43	Nitrogen Gas regulator	Recurring	MLP 201232	2 nos.
44	Pushfit connectors, penumatic tubes etc of different sizes	Recurring	MLP 201232	1 set
45	Mask Sample Holders	Recurring	MLP 201232	8 nos.
46	Pneumatic pipes, fittings, pushfits etc. of different sizes	Recurring	MLP 201232	1 set
47	Integrating Nephelometer	Non-Recurring	FTT 050502	1
48	Optical Particle Counter	Non-Recurring	FTT 050502	1
49	Tethered Balloon Kit (Electrical Winch with three phase motor)	Non-Recurring	FTT 050502	0
50	Light Weight PM Sampler	Non-Recurring	FTT 050502	2
51	Denuder	Non-Recurring	FTT 050502	1
52	Connectors, Cables and other relevant accessories	Recurring	OLP 236132	10
53	Chemicals, metals, reagents, solvents and other comsumables	Recurring	GAP 200332	As per requirment
54	Glass apparatus, Distallation sets	Recurring	GAP 200332	As per requirment
55	Gas, Laboratory Items	Recurring	GAP 200332	As per requirment
56	Chem draw, Scitific sofoware, etc	Recurring	GAP 200332	As per requirment
57	Repair of isturement/ computer/ printer, UPS, etc	Recurring	GAP 200332	As per requirment
58	Temperature input module with AI graphics module	Recurring	HCP 52	1
59	High purity Chemicals like, acids, salts, glucose, hydrocarbons, reagents, engymes, glucose, carbohydrates etc.	Recurring	HCP 52	As per requirment
60	MATLAB software, pdf writer, office 360, heat wave simulation software, anti virus etc	Recurring	HCP 52	As per requirment
61	Normal purity Chemicals like, acids, salts, glucose, hydrocarbons, reagents, engymes, glucose, carbohydrates etc.	Recurring	HCP 52	As per requirment
62	Data acquisition system	Non-Recurring	HCP 52	1
63	Dry Vacuum Pump	Non-Recurring	GAP 230932	1
64	Dry Scroll Vacuum Pump	Non-Recurring	GAP 230932	1
65	Continuous optical source with wavelength control 200nm-1100nm	Recurring	GAP 230932	1
66	High Precision Probe with temperature control stage	Recurring	GAP 230932	1
67	Neutral Density Filter	Recurring	GAP 230932	1
68	Substrates (Si)	Recurring	GAP 230932	1
69	Temperature Controller with software	Recurring	GAP 230932	1
70	Vernier caliper	Recurring	GAP 230332	1
71	Rotameter	Recurring	GAP 230332	2
72	Melt pump heater	Recurring	GAP 230332	10

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73	Graphite ring	Recurring	GAP 230332	10
74	Nickel nitrate hexahydrate, 100 g	Recurring	GAP 230332	1
75	Cobalt acetate tetra hydrate, 100 g	Recurring	GAP 230332	1
76	Cobalt nitrate nonahydrate, 100 g	Recurring	GAP 230332	1
77	Thiophene, 1 L	Recurring	GAP 230332	1
78	Tetrahydronaphthalene, 4 L	Recurring	GAP 230332	5
79	Decalin, 4 L	Recurring	GAP 230332	1
80	Toluene	Recurring	GAP 230332	1
81	N-Hexane, 2.5 L	Recurring	GAP 230332	5
82	Petroleum ether, 2.5 L	Recurring	GAP 230332	5
83	Molybdeum sulfide, 100 g	Recurring	GAP 230332	1
84	Nitric acid	Recurring	GAP 230332	4
85	Sodium sulfate	Recurring	GAP 230332	1
86	Acetone, 2.5 L	Recurring	GAP 230332	10
87	Triethylenetetramine (TETA)	Recurring	GAP 230332	2 kg
88	Epoxy resin	Recurring	GAP 230332	20 kg
89	N-Methyl-2-pyrrolidone	Recurring	GAP 230332	1
90	Impregnating coal tar pitch	Recurring	GAP 230332	400 Kg
91	Polypropylene (PP)	Recurring	GAP 230332	50 kg
92	Hand grinder	Recurring	GAP 230332	1
93	MALDI-TOF mass spectrometer characterization	Recurring	GAP 230332	20
94	NMR testing	Recurring	GAP 230332	10
95	Elemental analysis (CHNS)	Recurring	GAP 230332	20
96	Wrench set	Recurring	GAP 230332	2
97	Pestle mortar	Recurring	GAP 230332	2
98	Screw driver set	Recurring	GAP 230332	1
99	Allen key set	Recurring	GAP 230332	2
100	Lab coat	Recurring	GAP 230332	10
101	HR-TEM grid	Recurring	GAP 230332	1 pack
102	Nickel foam	Recurring	GAP 230332	1
103	Reference electrode (SCE)	Recurring	GAP 230332	1
104	Emery paper of different grades	Recurring	GAP 230332	100 each
105	Cross-spin magnetic stirrer bar	Recurring	GAP 230332	1 set
106	Nitrile Gloves (Purple superior quality)	Recurring	GAP 230332	10
107	Glass assembly	Recurring	GAP 230332	1
108	Filtering flask assembly	Recurring	GAP 230332	1
109	Carboy HDPE, 50 L	Recurring	GAP 230332	1
110	Silicon pipe	Recurring	GAP 230332	10 m
111	Vacuum tubing	Recurring	GAP 230332	3 m
112	Pneumatic air tubing pipe	Recurring	GAP 230332	20 m
113	Water pipe	Recurring	GAP 230332	20 m
114	Plastic boxes (Large)	Recurring	GAP 230332	50
115	Nitrogen gas (Refilling)	Recurring	GAP 230332	20
116	Air gas (Refilling)	Recurring	GAP 230332	10
117	Repairing of UPS	Recurring	GAP 230332	1

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118	Fabrication of die mould	Recurring	GAP 230332	1
119	PVDF	Recurring	GAP 230332	1 kg
120	Waxpol	Recurring	GAP 230332	10
121	Softening point apparatus	Non-Recurring	GAP 230332	1
122	Optical microscope	Non-Recurring	GAP 230332	1
123	Polishing machine	Non-Recurring	GAP 230332	1
124	Oxidation oven	Non-Recurring	GAP 230332	1
125	Carbonization furnace	Non-Recurring	GAP 230332	1
126	Upgradation in existing melt-spinning assembly	Non-Recurring	GAP 230332	1
127	Minor equipments, its accessories and installation	Non-Recurring	GAP 230332	As per Req.
128	Sound Level Analyzer	Non-Recurring	NWP 100	1
129	Multifucntion Sound Calibrator	Non-Recurring	NWP 100	1
130	Hydraulic Pressure Gauge	Non-Recurring	NWP 100	1
131	Printer (Multi Function),	Non-Recurring	NWP 100	2
132	Check Master	Non-Recurring	NWP 100	1
133	Muffle Furnance	Non-Recurring	NWP 100	1
134	Charges for repair/upgradation of SRP43/SRI, SRP/SRI transportation charges, custom duty, and GST charges	Recurring	OLP 235932	As per requiremnt
135	Accessories and spare parts for Zero air generator	Recurring	OLP 235932	As per requiremnt
136	Miscellaneous items for Primary Oozne Standard facility	Recurring	OLP 235932	As per requiremnt
137	Digital Barometer	Non-Recurring	OLP 235932	1
138	Digital temperature and humidity meter	Non-Recurring	OLP 235932	1
139	Dehumidifier	Non-Recurring	OLP 235932	1
140	Digital Multimeter	Non-Recurring	OLP 235932	1
141	Oxygen gas cylinder	Recurring	GAP 230832	5
142	Nitrogen gas cylinder	Recurring	GAP 230832	2
143	Copper powder	Recurring	GAP 230832	3
144	Selenium powder	Recurring	GAP 230832	1
145	Magnesium powder	Recurring	GAP 230832	2
146	Antimony powder	Recurring	GAP 230832	4
147	Silver powder	Recurring	GAP 230832	4
148	Repair of furnace	Recurring	GAP 230832	1
149	Printer cartridge 88A, 30A and others	Recurring	GAP 230832	12
150	External CD writer	Recurring	GAP 230832	1
151	Anti-virus	Recurring	GAP 230832	1
152	Hard disk	Recurring	GAP 230832	3
153	Pen Drive 64 GB	Recurring	GAP 230832	5
154	Stationary items	Recurring	GAP 230832	As Per Req.
155	Tissue Paper	Recurring	GAP 230832	As Per Req.
156	Office furniture	Recurring	GAP 230832	As Per Req.

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157	Office miscellaneous items	Recurring	GAP 230832	1
158	Rewritable CD/DVD	Recurring	GAP 230832	200
159	Repair-miscellaneous	Recurring	GAP 230832	As Per Req.
160	Miscellaneous items	Recurring	GAP 230832	As Per Req.
161	Glassware	Recurring	GAP 230832	As Per Req.
162	Office softwares	Recurring	GAP 230832	As Per Req.
163	Tin shot	Recurring	GAP 230832	100gm
164	Selenium shot	Recurring	GAP 230832	50gm
165	Carbon activated	Recurring	GAP 230832	500gm
166	Sodium	Recurring	GAP 230832	450gm
167	Copper shot	Recurring	GAP 230832	50gm
168	Sulfur	Recurring	GAP 230832	10gm
169	Tellurium	Recurring	GAP 230832	500gm
170	Lead shot	Recurring	GAP 230832	100gm
171	Antimony shot	Recurring	GAP 230832	50gm
172	Quartz tube	Recurring	GAP 230832	As Per Req.
173	TEM Grid	Recurring	GAP 230832	As Per Req.
174	Graphite	Recurring	GAP 230832	As Per Req.
175	Alumina paste	Recurring	GAP 230832	100gm
176	Crucible	Recurring	GAP 230832	As Per Req.
177	Vernier Calliper	Recurring	GAP 230832	2
178	Mortar Pestle	Recurring	GAP 230832	2
179	Power supply	Non-Recurring	GAP 231232	1
180	Chamber	Non-Recurring	GAP 231232	1
181	Sputter guns	Non-Recurring	GAP 231232	2
182	Vacuum pumps	Non-Recurring	GAP 231232	1
183	Refrigerator/thermal staeg (80-730K)	Recurring	GAP 231232	1
184	modification of humity chamber	Recurring	GAP 231232	1
185	fabrication of customized electrical cabinet	Recurring	GAP 231232	as per requierment
186	gases	Recurring	GAP 231232	as per requierment
187	Insulating sheets	Recurring	GAP 231232	as per requierment
188	Repair of Power supplies	Recurring	GAP 231232	2
189	Refilling of precursor bottles/cylinders	Recurring	GAP 231232	2
190	gas line cabinet	Recurring	GAP 231232	1
191	UPS repairs	Recurring	GAP 231232	2
192	Repair of refrigerator/thermal staeg (80-730K)	Recurring	GAP 231232	2
193	IR lamps	Recurring	GAP 231232	25
194	Fabrication of 6" Magnetron	Recurring	GAP 231232	2
195	Fabriation of 4" to 6" adapter with ISO flanges	Recurring	GAP 231232	1
196	Sun attenuator	Recurring	GAP 231232	1
197	Fabrication of RF compatible heater	Recurring	GAP 231232	1
198	repair of compressors/dry air generators	Recurring	GAP 231232	2
199	Computer accessories (mother boards, mouse, keyboards, etc)	Recurring	GAP 231232	as per requierment
200	fabrication of gas cabinet	Recurring	GAP 231232	as per requierment

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201	bus-bar assembly for solar simulator	Recurring	GAP 231232	1
202	Fabrication of housing for degradation of cell (water cooled)	Recurring	GAP 231232	1
203	Upgradation of Chamber for water cooling with collar	Recurring	GAP 231232	1
204	sputtering targets (Oxides)	Recurring	GAP 231232	as per requirement
205	Repair of lifetime system,mPCD	Recurring	GAP 231232	1
206	Repair of EL system (MBJ)	Recurring	GAP 231232	1
207	Custom design and fabrication of 6" adapter for ISO to CF	Recurring	GAP 231232	1
208	Miscellaneous (vacuum components, electrical, valves and vacuum gauges, valves, needles silicon wafers etc.)	Recurring	GAP 231232	as per requirement
209	Replacement of Batteries	Recurring	GAP 231232	50
210	fabrication of frame	Recurring	GAP 231232	1
211	PU tubing accessories	Recurring	GAP 231232	as per requirement
212	hoses and fittings	Recurring	GAP 231232	as per requirement
213	water manifolds	Recurring	GAP 231232	as per requirement
214	Silicon wafers of different doping, sizes	Recurring	GAP 230632	as per requirement
215	Various chemicals: Such as acetone, IPA, HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , AgNO <sub>3</sub> , H <sub>2</sub> O <sub>2</sub> , KOH, Ag wires, any other required other chemicals, etc.	Recurring	GAP 230632	as per requirement
216	Various glasswares and polypropylene based items such as Borosil beakers of different volumes, petri dishes, etc.	Recurring	GAP 230632	as per requirement
217	Nitrile gloves of (medium, small and large sizes), filter papers, Kimwipes lint free papers, Teflon made wares, etc.	Recurring	GAP 230632	as per requirement
218	DI water plant spares/consumables such cartridges, any other accessories, etc.	Recurring	GAP 230632	as per requirement
219	Repair/maintenance of existing spin coating unit, thermal evaporation system, any other unforeseen items/repair such as chiller, etc.	Recurring	GAP 230632	as per requirement
220	Spares of SR –IV system such as lamp, battery of UPS, any other electronic components, repair, etc.	Recurring	GAP 230632	as per requirement
221	Making of metal masks for metal electrode deposition	Recurring	GAP 230632	as per requirement
222	Printer Cartridges, pen drives, CDs, Stationary items, SSDs, files, folders, etc.	Recurring	GAP 230632	as per requirement
223	Cables, Connectors, RF distribution boards, Electronic boards and accessories	Recurring	GAP 150132	As per Requirement
224	GNSS receiver with accessories	Non-Recurring	GAP 150132	2
225	Tool Kit and Ratchet set	Recurring	TSP 180932	6

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226	Crimping Tool for RG316, RG223/U	Recurring	TSP 180932	6
227	Crimping Tool for LMR400.	Recurring	TSP 180932	6
228	Crimping Tool for RJ45	Recurring	TSP 180932	6
229	Hot Blower	Recurring	TSP 180932	6
230	Power Extension Board (min. 5 socket)	Recurring	TSP 180932	15
231	RG223/U RF cable (m)	Recurring	TSP 180932	2800
232	RG316 RF Cable (m)	Recurring	TSP 180932	1600
233	LMR400 Cable (m)	Recurring	TSP 180932	1650
234	BNC Connectors for RG223	Recurring	TSP 180932	820
235	BNC Connectors for RG316	Recurring	TSP 180932	575
236	N type Connectors for RG223	Recurring	TSP 180932	125
237	N type Connectors for LMR400	Recurring	TSP 180932	90
238	BNC Female to BNC Female Adapters	Recurring	TSP 180932	85
239	N-female to N –female adapter	Recurring	TSP 180932	85
240	SMA female to SMA female adapter	Recurring	TSP 180932	85
241	N-male to BNC Female adapter	Recurring	TSP 180932	85
242	N-male to BNC male adapter	Recurring	TSP 180932	85
243	BNC male to N –female adapter	Recurring	TSP 180932	85
244	SMA male to BNC female adapter	Recurring	TSP 180932	85
245	3-dB splitters (BNC)	Recurring	TSP 180932	75
246	3-dB Attenuators	Recurring	TSP 180932	40
247	Terminator (50 Ohm BNC)	Recurring	TSP 180932	160
248	LAN Cables (2 m)	Recurring	TSP 180932	145
249	LAN Cables (3 m)	Recurring	TSP 180932	350
250	LAN Cables (5 m)	Recurring	TSP 180932	350
251	LAN Cables (10 m)	Recurring	TSP 180932	115
252	Cat6 UTP Cable Roll (m)	Recurring	TSP 180932	430
253	RJ45 connectors	Recurring	TSP 180932	340
254	RS232 3 core shielded Cable Roll (m)	Recurring	TSP 180932	1025
255	Serial Connectors (DB9 Male)	Recurring	TSP 180932	420
256	Serial Connectors (DB9 Female)	Recurring	TSP 180932	420
257	Dust cap (Hood) DB9	Recurring	TSP 180932	840
258	H/S sleeve (8mm) (m)	Recurring	TSP 180932	115
259	H/S sleeve (3 or 4mm) (m)	Recurring	TSP 180932	115
260	H/S sleeve (1.5 or 2mm) (m)	Recurring	TSP 180932	115
261	Grounding Wire (Yellow or Green) 4sq m	Recurring	TSP 180932	75
262	Round lug for grounding wire (M6)Nos	Recurring	TSP 180932	850
263	AT-1 carrier strip (Packets)	Recurring	TSP 180932	75
264	H/S sleeve (Transparent) 7mm/8mm (m)	Recurring	TSP 180932	115
265	Cable tie (100mm) (packets)	Recurring	TSP 180932	75
266	Cable tie (200mm) (packets)	Recurring	TSP 180932	75
267	Cable tie (300mm) (packets)	Recurring	TSP 180932	45

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268	SMA Connectors for RG223	Recurring	TSP 180932	390
269	SMA Connectors for RG316	Recurring	TSP 180932	555
270	TNC type connector for RG223	Recurring	TSP 180932	55
271	TNC type connector for LMR400	Recurring	TSP 180932	90
272	TNC type connector for RG316	Recurring	TSP 180932	45
273	BNC-female to TNC-male	Recurring	TSP 180932	80
274	SMA-female to TNC-male	Recurring	TSP 180932	80
275	Power cords(Nos)	Recurring	TSP 180932	70
276	Operating system (Win-10 Professional, 64 bit)	Recurring	TSP 180932	6
277	Antivirus 3yrs Lic	Recurring	TSP 180932	30
278	MS Office 2019	Recurring	TSP 180932	30
279	Mouse USB	Recurring	TSP 180932	60
280	Keyboard USB	Recurring	TSP 180932	30
281	Pen drives (3.0) 32 GB	Recurring	TSP 180932	60
282	USB HARD DISK Drive (3.0) 2TB	Recurring	TSP 180932	12
283	Wireless USB Dongle	Recurring	TSP 180932	30
284	LAN Tester	Recurring	TSP 180932	12
285	Screw Driver Set (PC, Workstn)	Recurring	TSP 180932	12
286	USB to HDMI Cables	Recurring	TSP 180932	30
287	HDMI to HDMI Cables	Recurring	TSP 180932	12
288	Mouse PADs Anti Static	Recurring	TSP 180932	60
289	Laboratory Job work: 1. Building Management	Recurring	TSP 180932	As per Req
290	Maintenance of Equipment: AMC for UPS /AC / Generator/ Data logger/ CCD camera / other accessories	Recurring	TSP 180932	10
291	Audio-visual and Meeting expenses	Recurring	TSP 180932	10
292	Computer Software: 1. Antivirus 2. PTP, NTP and NMS 3. Word processing 4. Any other software	Recurring	TSP 180932	10
293	Computer and Printer Consumables	Recurring	TSP 180932	20
294	RF cables, connectors and consumables	Recurring	TSP 180932	20
295	Optical Fiber, connectors, and accessories	Recurring	TSP 180932	10
296	Stationary, Staplers, label printer, and other minor components & items	Recurring	TSP 180932	20
297	Video Conferencing accessories	Recurring	TSP 180932	10
298	Battery and Electrical & Electronic accessories	Recurring	TSP 180932	20
299	Replacement of Spare part of equipment	Recurring	TSP 180932	2
300	Other consumable items	Recurring	TSP 180932	10
301	Charges relating to organization of Meetings/ Seminars/ Workshops/ Conference / Training	Recurring	TSP 180932	As per Req
302	Training at ISRO for Project Team and temporary staff	Recurring	TSP 180932	As per Req

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303	Registration and Training fee of Project Team and temporary staff	Recurring	TSP 180932	As per Req
304	Job work	Recurring	TSP 180932	As per Req
305	License (including satellite license) and fees (IP / internet address charges)	Recurring	TSP 180932	As per Req
306	Honorarium to consultants, experts and TSC members	Recurring	TSP 180932	As per Req
307	Job work of Printing of Reports, Tenders, Advertisements, etc	Recurring	TSP 180932	As per Req
308	Transportation of equipment from ISRO to RRSLs	Recurring	TSP 180932	As per Req
309	Poster Printing charges/ exhibition arrangements	Recurring	TSP 180932	As per Req
310	Internet / Telephone / Transponder charges	Recurring	TSP 180932	As per Req
311	Web charges and Software development fee	Recurring	TSP 180932	As per Req
312	Books and Standards	Recurring	TSP 180932	As per Req
313	Stationary	Recurring	TSP 180932	As per Req
314	Printing charges	Recurring	TSP 180932	As per Req
315	Administrative charges for Meetings/ Seminars/ Workshops/ Conference	Recurring	TSP 180932	As per Req
316	Training of Project Staff	Recurring	TSP 180932	As per Req
317	Contract Staff (Five Skilled/ Semi Skilled and Two retired employees)	Recurring	TSP 180932	As per Req
318	Payment to Daily/Monthly wager	Recurring	TSP 180932	As per Req
319	Postage and Courier charges	Recurring	TSP 180932	As per Req
320	Canteen and food expenses	Recurring	TSP 180932	As per Req
321	Hot and Cold charges	Recurring	TSP 180932	As per Req
322	Legal expenses/ fee to consultants, auditor and	Recurring	TSP 180932	As per Req
323	Periodicals and books	Recurring	TSP 180932	As per Req
324	Office furnishings, curtains and related repairs	Recurring	TSP 180932	As per Req
325	Furniture repairs and maintenance	Recurring	TSP 180932	As per Req
326	Guest house charges including food charges	Recurring	TSP 180932	As per Req
327	Maintenance of office equipment	Recurring	TSP 180932	As per Req
328	Miscellaneous and unforeseen	Recurring	TSP 180932	As per Req
329	Furniture for traceability Lab	Non-Recurring	TSP 180932	As per Req
330	Antenna control unit	Non-Recurring	TSP 180932	1
331	Works and services for IT	Non-Recurring	TSP 180932	As per Req
332	Furniture for RRSLs and DRC	Non-Recurring	TSP 180932	As per Req
333	TWSTFT equipment	Non-Recurring	TSP 180932	1
334	AC systems	Non-Recurring	TSP 180932	As per Req
335	TV /Big Displays	Non-Recurring	TSP 180932	As per Req
336	Multifunctional Printers	Non-Recurring	TSP 180932	10
337	Office Computers	Non-Recurring	TSP 180932	20

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338	Electronic consumables (components, boards, etc)	Recurring	GAP 230732	As per Req
339	RF cables: RG223, RG174	Recurring	GAP 230732	50 m each
340	Connectors: SMA for RG 223, BNC for RG174,	Recurring	GAP 230732	20 nos each
341	Adaptors: SMA F to BNC M, N F to BNC M, N F to SMA M, TNC M to N F	Recurring	GAP 230732	10 nos each
342	Optical fiber & consumables	Recurring	GAP 230732	As per Req
343	Consumables for optical fiber link (electronic components, Optical components, fiber connectors, SFP etc.,)	Recurring	GAP 230732	As per Req
344	GNSS signal splitter 1:4	Recurring	GAP 230732	1
345	SMPS 12V	Recurring	GAP 230732	2
346	Network Switch	Recurring	GAP 230732	2
347	IP address pool	Recurring	GAP 230732	1
348	Other consumables	Recurring	GAP 230732	As per Req
349	Other Research Expenditure (ORE)	Recurring	GAP 230732	As per Req
350	Service charges / Job work for development of software	Recurring	GAP 230732	As per Req
351	Service charges / Job work for development of remote file system (RFS) for exchange of data between multiple clients and NPL.	Recurring	GAP 230732	As per Req
352	Contingency	Recurring	GAP 230732	As per Req
353	API publication charges at NIC API Exchange Platform (NAPIX).	Recurring	GAP 230732	As per Req
354	Broadband charges	Recurring	GAP 230732	As per Req
355	Printer Cartridges and Stationery	Recurring	GAP 230732	As per Req
356	Miscellaneous and Unforeseen	Recurring	GAP 230732	As per Req
357	Rubidium frequency Standard	Non-Recurring	GAP 230732	2
358	Time Interval Counter	Non-Recurring	GAP 230732	3
359	GNSS receiver with Antenna & cable	Non-Recurring	GAP 230732	2
360	Work station	Non-Recurring	GAP 230732	2
361	Kernel Virtual Machine	Non-Recurring	GAP 230732	2
362	White Rabbit Len Standalone kit	Non-Recurring	GAP 230732	2
363	Refilling of argon gas cylinders	Recurring	MLP 231832	30
364	Refilling of Hydrogen gas cylinders	Recurring	MLP 231832	10
365	Repairing of Oven	Recurring	MLP 231832	2
366	Testing of samples	Recurring	MLP 231832	As per requirement
367	Glass fiber cloth	Recurring	MLP 231832	20 square meter
368	Fabrication of CNT film collection assembly	Recurring	MLP 231832	One
369	Furance heating rods	Recurring	MLP 231832	6 Nos
370	Alumina reactor	Recurring	MLP 231832	1 No
371	ASE Surfactant	Recurring	MLP 231832	10 liter
372	N,N- Di methyl formamide	Recurring	MLP 231832	20 liter

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## NPL Project Procurement List 2024-25 as on Dec 04 , 2024

373	Toluene	Recurring	MLP 231832	15 liter
374	Syringes	Recurring	MLP 231832	100
375	Ethylene diamine	Recurring	MLP 231832	2.5 liter
376	Ethane 1,2-dithiol	Recurring	MLP 231832	500 ml
377	Multimeter	Recurring	MLP 231832	2Nos
378	Glass woolen	Recurring	MLP 231832	As per requirement
379	Repairing of furnace	Recurring	MLP 231832	One Nos
380	Buffing Wheel, Cutter	Recurring	MLP 231832	As per requirement
381	Fabrication of vacuum filtration unit	Recurring	MLP 231832	One
382	Thermocouples	Recurring	MLP 231832	4 Nos
383	Poly(dimethylsiloxane)	Recurring	MLP 231832	1 unit
384	Epoxy and Hardener	Recurring	MLP 231832	As per requirement
385	Cutting of samples	Recurring	MLP 231832	As per requirement
386	Control and safety valves for CVD system	Recurring	MLP 231832	
387	Silicon O-rings	Recurring	MLP 231832	As per requirement
388	Temperature indicator	Recurring	MLP 231832	3 Nos
389	Thiophene	Recurring	MLP 231832	1 liter
390	Ammonia	Recurring	MLP 231832	2 liter
391	Membrane filter	Recurring	MLP 231832	One packet
392	Mica Sheet	Recurring	MLP 231832	As per requirement
393	Twizers	Recurring	MLP 231832	One set
394	Waxpol	Recurring	MLP 231832	20 Nos
395	Hand grinder	Recurring	MLP 231832	1
396	CD	Recurring	MLP 231832	100 Nos
397	Decaline	Recurring	MLP 231832	4 liter
398	Stainless steel fin mesh	Recurring	MLP 231832	As per requirement
399	Hydrofluoric acid	Recurring	MLP 231832	2 liter
400	Release paper	Recurring	MLP 231832	100 unit
401	Silicon cork	Recurring	MLP 231832	50 Nos
402	Polyurethane	Recurring	MLP 231832	1 bag
403	Nylon, PTFE cloth	Recurring	MLP 231832	As per requirement
404	CNT cleaning brush	Recurring	MLP 231832	10 Nos
405	Miscellaneous - Emergent chemical, urgent repairing, batteries, minor fabrication or job work, stationary, etc	Recurring	MLP 231832	As per requirement
406	Customized Optics including cross correlator	Recurring	MMP 015201	1
407	Dual Frequency Comb Based THz Comb. Consisting of : optical Frequency Comb (02) with THz emitter and detectors: ORS-Mini Ultrastable Laser System Beat Detection unit-02 Customized electronics module including THz emitters, Detectors,	Non-Recurring	MMP 015201	2,1,2,1
408	2.4mm (Female) to Type N (Male)	Recurring	OLP 236432	1
409	2.4mm (Male) to Type N (Female) connector	Recurring	OLP 236432	1

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## NPL Project Procurement List 2024-25 as on Dec 04 , 2024

410	Type N (Female) to Type N (Male) connector	Recurring	OLP 236432	1
411	Type N (Male) to BNC (Female) connector	Recurring	OLP 236432	1
412	Standard Attenuators (N-Type)	Recurring	OLP 236432	1
413	Power Sensor cable	Recurring	OLP 236432	1
414	Pens, Notebooks, Measuring Tapes, Adhesives, Folders, Ink, Envelopes, Stickers, Markers, Chalk, A4 Sheets (200-300 gsm). A4 sheets (70- 100 gsm), Chalk Board etc	Recurring	HCP 0101	As Req.
415	Color Ink & Cartridge for Printer	Recurring	HCP 0101	As Req.
416	Repair of computers, smart boards, chair, tables etc	Recurring	HCP 0101	As Req.
417	Software for quiz creation, mentimeter etc	Recurring	HCP 0101	As Req.
418	Refreshments, Honorarium, Prize: Books, Educational Kits for students, Guest House Accommodation etc	Recurring	HCP 0101	As Req.
419	Gas line fittings for experiment demonstration purpose	Recurring	HCP 0101	As Req.
420	Optics, Electronics etc components, Chemicals	Recurring	HCP 0101	As Req.
421	Civil and Electrical work for maintaining class rooms & Jigyasa Lab	Non-Recurring	HCP 0101	As Req.
422	Laser interferometer, Mechanical Bed* , Microscopic High Resolution Camera and related accessories	Non-Recurring	TSP 231232	5,6,5
423	NA			
424	NA			
425	Laptop / Desktop / laser printer with Dual Monitor	Non-Recurring	TSP 231232	5
426	Optics, Mirrors, Mounts, base, base plate, Beam splitters, Lenses, Wires, connecting cables, Electronic components, PZT, Soldering Iron, Multimeter, various connectors, Cartridges etc.	Recurring	TSP 231232	1
427	Lab consumables, muslin cloth, WD 40, extension boards, Teflon tape, scotch tape, lab slippers etc.)	Recurring	TSP 231232	As Req.
428	Chemicals: cleaning reagents, (isopropyl alcohol, ethanol, methyl alcohol, Acetone etc. Cleaning Tisstue papers	Recurring	TSP 231232	As Req.
429	Stationary items: Box files, ring folder, A4 size papers etc.	Recurring	TSP 231232	As Req.
430	Repairing of softening point equipment	Recurring	GAP 230332	1
431	Repairing of fume hood	Recurring	GAP 230332	1

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## NPL Project Procurement List 2024-25 as on Dec 04 , 2024

432	Repairing of furnace	Recurring	GAP 230332	3
433	UPS system and batteries	Non-Recurring	TSP 180932	As per Req.
434	Ultra precision capacitance bridge	Non-Recurring	OLP 236632	1
435	Conductivity Meter	Non-Recurring	GAP 240332	1
436	DC Power Supply (10 A)	Non-Recurring	GAP 240332	1
437	Digital overhead stirrer	Non-Recurring	GAP 240332	1
438	Digital hot plate stirrer	Non-Recurring	GAP 240332	1
439	Waterbath with circulator	Non-Recurring	GAP 240332	1
440	Syringe filter, zip lock etc.	Recurring	GAP 240332	1
441	Sulphuric Acid, Hexamethylenetetramine (HMTA), n-heptane, tri-iso-amyl phosphate (TiAP), tri-n-butyl phosphate (TBP), n-Dodecane (n-DD)	Recurring	GAP 240332	1
442	Mass comparator, 200 g, 1 micro gram	Non-Recurring	GAP 240232	1
443	Rheometer Testing Facility for viscosity measurements	Non-Recurring	GAP 240232	1
444	Absolute Gravity Meter	Non-Recurring	GAP 240232	1
445	Refractive Index Testing Facility	Non-Recurring	GAP 240232	1
446	Guarded Hot plate Testing Facility	Non-Recurring	GAP 240232	1
447	Moisture Testing Facility (Moisture Analyzer & Forced convection oven)	Non-Recurring	GAP 240232	1
448	Clinical thermometer Testing Apparatus	Non-Recurring	GAP 240232	1
449	Power Supply (AC)	Non-Recurring	GAP 240232	2
450	Photo current meter	Non-Recurring	GAP 240232	1
451	Luminance Meter	Non-Recurring	GAP 240232	1
452	Brinell Hardness Testing Machine	Non-Recurring	GAP 240232	1
453	Optical based Low Force sensor as a new facility; Fiber Bragg Grating Force Sensor with Interrogator	Non-Recurring	GAP 240232	1
454	Ultrasonic Pulse Velocity Tester with suitable transducers	Non-Recurring	GAP 240232	1
455	Phased array Ultrasonic Flaw Detector Testing Facility	Non-Recurring	GAP 240232	1
456	Up-gradation of Microphone Calibration Facility using Insert Voltage method in range 20 Hz to 25 kHz	Non-Recurring	GAP 240232	1
457	Up-gradation of Acoustic Free-Field Calibration and Testing facility in frequency range of 125 Hz to 20 kHz	Non-Recurring	GAP 240232	1
458	PVTt standard (primary gas flow standard)	Non-Recurring	GAP 240232	1
459	Electrometer	Non-Recurring	MLP 231932	1
460	Aethalometer	Non-Recurring	GAP 161632	1
461	Nephelometer	Non-Recurring	GAP 161632	1
462	PVDF SYRINGE FILTER, 0.45 UM, 25 MM	Recurring	GAP 161632	2 pkt
463	NYLON SYRINGE FILTER, 0.22 UM, 13 MM	Recurring	GAP 161632	5 pkt

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## NPL Project Procurement List 2024-25 as on Dec 04 , 2024

464	Gas Chromatograph	Non-Recurring	GAP 114732	1
465	Water bath with shaker	Non-Recurring	GAP 114732	1
466	PM2.5 Sampler	Non-Recurring	GAP 114732	1
467	PM1.0 Sampler	Non-Recurring	GAP 114732	1
468	H2 Gas (GC)	Recurring	GAP 114732	15
469	H2 Gas (NMHC)	Recurring	GAP 114732	10
470	Zero Gas (GC)	Recurring	GAP 114732	25
471	Zero Gas (TOC)	Recurring	GAP 114732	5
472	N2 Gas (High purity)	Recurring	GAP 114732	3
473	N2 Gas (GC) Rinsing	Recurring	GAP 114732	10
474	N2 Gas (IC)	Recurring	GAP 114732	15
475	Gas Regulator (For N2 gas)	Recurring	GAP 114732	1
476	GLASS CUVETTE FOR UV-VIS SPECTROPHOTOMETER (SIZE- 2ML)	Recurring	GAP 114732	4
477	POTASSIUM PHOSPHATE DIBASIC	Recurring	GAP 114732	4
478	POTASSIUM PHOSPHATE MONOBASIC	Recurring	GAP 114732	4
479	DL-DITHIOTHREITOL(DTT) SOLUTION	Recurring	GAP 114732	40
480	5-5 DITHIOBASIC (2-NITROBENZOIC ACID)	Recurring	GAP 114732	40
481	9,10-PHENANTHREQUINONE	Recurring	GAP 114732	20
482	SODIUM HYDROXIDE- EXTRA PURE 50% WEIGHT SOLUTION IN WATER	Recurring	GAP 114732	5
483	METHANE SULPHONIC ACID (MSA), M.W. 96.10	Recurring	GAP 114732	5
484	Petri dish- 90*14 mm- 450 per pack	Recurring	GAP 114732	4
485	Petri dish- 140*16 mm- 136 per pack	Recurring	GAP 114732	3
486	VOC standard (25 species)	Recurring	GAP 114732	1
487	CHASSIS ASSY-NETLINK BOX	Recurring	GAP 114732	1
488	Detector for MIR9000	Recurring	GAP 114732	1
489	TISSUE QUARTZ 25 MM	Recurring	GAP 114732	10
490	N2 Gas	Recurring	GAP 210232	50
491	Gas Flow meter	Recurring	GAP 210232	10
492	6V DC pump	Recurring	GAP 210232	5

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## NPL Project Procurement List 2024-25 as on Dec 04 , 2024

493	Consumables of Ion Chromatograph ( KIT, PCB, MTR CNTRL/AUX for IC Auto Sampler SP PROD, MEM, ASRS 300,4MM SP PROD, MEM, CSRS 300,4MM PROD, COL, IP, CS17,4X250MM PROD, COL, IP, CG17,4X50MM Dionex Combined Six Cation Std-II, 50mL Dionex Combined Seven Anion Std I, 50mL ASSY, BTL,2L, ELUENT ASSY, BTL,4L,2PORT, HDPE IonPac AS11-HC Analyt. Column, 4x250mm IonPac AG11-HC Guard Column, 4x50mm MANIF, 3-WY 1.5 MM,1/4-28 PORTS FTG, ADPTR,1/4-28,F,LUER,NAT PP, RoHS FTG, CPLR,10-32FX10-32F,.02" FTG, NUT, FLNGLS,1/4-28X1/8 PK, RoHS FTG, FER, FLNGLS,1/8 TFZL, RoHS FTG, BOLT, 10-32,1/4 HEX, PEEK, NAT, RoHS FTG, FER, DBL CONE, P-1)	Recurring	GAP 210232	1
494	Consumables of Water purification system (CDRC00201 RO CARTRIDGE 2" 84219900 ZF3000003 2" RO HOUSING ASSEMBLY 84212900 MX10X1X01 MX CARTRIDGE 1UM 10" 84219900 MX50X1X01 MX CARTRIDGE 5 UM 10" 84219900 PROG0T0S2 PROGARD TS2 84219900 TANKMPK01 PE TANK MILLIPAK FILTER 84212190 IPAKMETA1 IPAK Meta® polishing cartridge 84219900 IPAKQUAA1 IPAK Quanta® polishing cartridge 84219900 MPGP002A1 Millipak® 0.22µm filter 84219900 ZIQUVLPA1 ech2o oxidation lamp 85394900 ZFA10UVA1 ech2o A10 TOC lamp 85394900	Recurring	GAP 210232	1
495	NYLON SYRINGE FILTER, 0.22 UM, 13 MM	Recurring	GAP 210232	30 pkt
496	NYLON SYRINGE FILTER, 47MM 0.45uM 100/PK	Recurring	GAP 210232	2 pkt
497	PTFE, 25 MM, 1.0 UM	Recurring	GAP 210232	2 pkt
498	Power supply, incubator, waterbath, RO	Non-Recurring	HCP 52	1 each

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## NPL Project Procurement List 2024-25 as on Dec 04 , 2024

499	workstation, Printer	Non-Recurring	HCP 52	1 each
500	Lab bench, Chair	Non-Recurring	HCP 52	3,6
501	WR-06 extension source	Recurring	MMP 015201	1
502	Mixer D band with WR06-probe,sections	Recurring	MMP 015201	1,1,4
503	Detector D band	Recurring	MMP 015201	2
504	Standard Horn (WR 06) 25dB gain	Recurring	MMP 015201	2
505	Adapters, bias Tee, Joints	Recurring	MMP 015201	As Per Req.
506	Cables	Recurring	MMP 015201	As Per Req.
507	Controlling modules for RIS with chip scale RF source, antenna printing materials and others consumables	Recurring	MMP 015201	As Per Req.
508	Chemicals, Glassware, Plastic ware	Recurring	MMP 015201	As Per Req.
509	Computer & laptop repair	Recurring	MMP 015201	As Per Req.
510	Repair of printer and ups	Recurring	MMP 015201	As Per Req.
511	Moveable wheel,sleeper,Plug Top,Extension board,Head phone, Anti Virus	Recurring	MMP 015201	As Per Req.
512	Vector Network Analyzer (110GHz - 170GHz) two port along with base unit, calibration kit, adapter, enabled TDR option and appropriate Cables. (Output power upto +5dBm or higher)	Non-Recurring	MMP 015201	1
513	Signal Generator with power (built in or additional) amplifier (D band, 110GHz-170GHz) with vector software	Non-Recurring	MMP 015201	1
514	Spectrum Analyzer (D band, 110GHz-170GHz)	Non-Recurring	MMP 015201	1
515	Furniture repairs	Recurring	MMP 015201	As Per Req.
516	Office furnishings- hard carry cases for equipment , office carry cases, Radiation Lab coat/jacket, electric cattle, Telephone set	Recurring	MMP 015201	As Per Req.
517	Repair of ups	Recurring	MMP 015201	As Per Req.
518	Repair of printer	Recurring	MMP 015201	As Per Req.
519	To RIS reconfigurable surface with power supply to control beamforming associated with D-Band (Proposed 6G).	Recurring	MMP 015201	As Per Req.
520	Seminar/workshop/symposia/conference	Recurring	MMP 015201	As Per Req.
521	Expenditure for outsourcing activities such as specialized design, lab work, workshop assignments and many others work related to projects.	Recurring	MMP 015201	As Per Req.
522	Flashcard for NTP server	Recurring	FBR 010307	as per requirement
523	Electronic boards, modules, minicomputers etc	Recurring	FBR 010307	as per requirement
524	RF cables, connectors, electrical/electronic accessories, optical fiber connectors, cables, fiber spools, SFPs, etc	Recurring	FBR 010307	as per requirement

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## NPL Project Procurement List 2024-25 as on Dec 04 , 2024

525	Commercial software such as microsoft office	Recurring	FBR 010307	as per requirement
526	Computer consumables	Recurring	FBR 010307	as per requirement
527	Customized software development and other job works	Recurring	FBR 010307	as per requirement
528	Data Server	Non-Recurring	FBR 010307	1
529	Rubidium Frequency Standard	Non-Recurring	GAP 231032	4
530	Data Server	Non-Recurring	GAP 231032	1
531	Ansys Academic Research Optics	Recurring	FBR 010302	One
532	Packing and transportation (including insurance) of Raman lidar and Portable equipment room from CSIR-IHBT, Palampur to CSIR-NPL, New Delhi and installation of Portable equipment room at CSIR-NPL, New Delhi campus	Recurring	FBR 010302	One
533	Photomultiplier tube with high volatege power supply	Recurring	FBR 010302	Two
534	'Low noise voltage amplifier	Recurring	FBR 010302	1
535	Polarization beam cube splitter with mount	Recurring	FBR 010302	One
536	355 nm narrow band interference filter	Recurring	FBR 010302	One
537	Beam expander	Recurring	FBR 010302	One
538	Stepper motorized highly reflective mirror	Recurring	FBR 010302	One
539	Highly Reflecting mirrors, lenses, iris/orifice	Recurring	FBR 010302	2, 3, 1
540	Optomechanical components	Recurring	FBR 010302	1 Set
541	Controller & software for motorized rotation stage model No: MRS-150	Recurring	FBR 010302	One
542	Fabrication of optical box for 3D scanning lidar	Recurring	FBR 010302	One
543	Microsoft visual studio professional 2022	Recurring	FBR 010302	One
544	Electronic components	Recurring	FBR 010302	As per requirement
545	Optical components	Recurring	FBR 010302	As per requirement
546	Accessories for 3D scanning lidar	Recurring	FBR 010302	As per requirement
547	Printer cartridges for hp laser jet 1020	Recurring	FBR 010302	Two
548	355 nm pulsed laser source	Non-Recurring	FBR 010302	1 Set
549	Miscellneous glasswares	Recurring	HCP 53	2
550	Hydrothermal bomb	Recurring	HCP 53	2
551	Repair of electrochemical workstation along with spares	Recurring	HCP 53	1
552	Ag/AgCl reference electrode	Recurring	GAP 230432	2
553	Platinum wire electrode	Recurring	GAP 230432	1
554	Repalcement platinum wire	Recurring	GAP 230432	1
555	Pressure Ragulator	Non-Recurring	TSP 231132	5
556	UPS Battery	Recurring	GAP 161632	30
557	AMC-Ion Chromatograph	Recurring	GAP 114732	1
558	Spare parts of OC/EC analyser	Recurring	GAP 114732	1

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## NPL Project Procurement List 2024-25 as on Dec 04 , 2024

559	UV- Filter for UV-VIS Spectrometer	Recurring	GAP 114732	1
560	Storage Box	Recurring	GAP 210232	17
561	Table with Sink	Recurring	GAP 210232	1
562	Force comparator with coil*	Non-Recurring	HCP 55	1
563	Permanent Magnet system*	Non-Recurring	HCP 55	1
564	Optics, Laser (primary realization option) + Laser Interferometer measurement system	Non-Recurring	HCP 55	4 sets
565	Vacuum system, Translation Stages, Mechanics*	Non-Recurring	HCP 55	1
566	Sensors and control electronics	Non-Recurring	HCP 55	1 SET
567	Precision voltmeters	Non-Recurring	HCP 55	4
568	Programmable current sources	Non-Recurring	HCP 55	4
569	FG5 (absolute gravimeter), CG5 (relative gravimeter)	Non-Recurring	HCP 55	1
570	15 t crane and other accessories.	Non-Recurring	HCP 55	1
571	PJVS, QHR systems (PJVS Device + Cryostat, QHR cryostat + superconducting magnet) existing measuring electronics can be used	Non-Recurring	HCP 55	1
572	High precision resistors with air bath	Non-Recurring	HCP 55	1
573	Branded work station (one)	Non-Recurring	HCP 55	1
574	Creation of laboratory with precision mounting and environment control system	Non-Recurring	HCP 55	1
575	Coil Winding Machine	Non-Recurring	HCP 55	1
576	Low noise current source	Non-Recurring	HCP 55	1
577	Nano-voltmeter	Non-Recurring	HCP 55	1
578	SPRTs (Capsule and Long-Stem)	Non-Recurring	HCP 55	2, 2
579	¼ inch Microphones (08 nos) and Loudspeakers (04 nos) 1-100 kHz	Non-Recurring	HCP 55	4
580	Pre-amplifiers (05 nos)	Non-Recurring	HCP 55	5
581	Actuator Supply (05 nos)	Non-Recurring	HCP 55	5
582	Acoustic Analyzer (two channel), 1-100 kHz	Non-Recurring	HCP 55	1
583	Waveform generator (100 kHz) and DAQ	Non-Recurring	HCP 55	1
584	Microwave Probes (08 nos) – Specially developed	Non-Recurring	HCP 55	8
585	Vector Network Analyzer (up to 40 GHz)	Non-Recurring	HCP 55	1
586	Fabrication of copper cylindrical resonator, pressure vessel and assembly	Non-Recurring	HCP 55	1
587	Two stage oil sealed Rotary vacuum pump	Non-Recurring	HCP 55	2
588	Digital pressure indicator -	Non-Recurring	HCP 55	2
589	Racks and Mounting systems for measurement units- 04 nos	Non-Recurring	HCP 55	2
590	Cartridge Heaters at resonator- pressure vessel and RTDs	Non-Recurring	HCP 55	2, 2

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591	High precision digital thermometer	Non-Recurring	HCP 55	1
592	10 MHz frequency counter	Non-Recurring	HCP 55	1
593	Data acquisition IEEE GPIB cables and Labview software and DAQs	Non-Recurring	HCP 55	1 set
594	Lock-in-amplifier	Non-Recurring	HCP 55	1
595	LN2 circulator bath	Non-Recurring	HCP 55	1
596	Low temperature circulating bath (-80 °C)	Non-Recurring	HCP 55	1
597	T.P. of Argon with realization apparatus	Non-Recurring	HCP 55	1
598	Furnace for Cylindrical cavity resonator (1000 oC)	Non-Recurring	HCP 55	1
599	High temperature blackbody fixed points with furnace up to 3000 Oc	Non-Recurring	HCP 55	1
600	Linear Spectral Pyrometer/Filter radiometer	Non-Recurring	HCP 55	1
601	Vibration free optical table and mounting accessories	Non-Recurring	HCP 55	2
602	81/2 DMM/ Potentiostat/ Source meter	Non-Recurring	HCP 55	1
603	(2P-2T Humidity Generator and Dew Point Hygrometer)	Non-Recurring	HCP 55	1
604	Equipment for Digital SI	Non-Recurring	HCP 55	4
605	UHV Deposition Chamber	Non-Recurring	HCP 55	1
606	Cryogen-free ultra-low noise cryostat in the temperature range 2-300K equipped with superconducting magnet, dual voltage and current biasing module, capabilities to rf coupling	Non-Recurring	HCP 55	1
607	Quantum Transport measurement system: Ultra-low noise electronics setup for quantum transport measurements ( Lock-in amplifiers, current preamplifiers, SMUs, DC voltage source, spectrum analyzer, low current measurement unit, nanovoltmeter, temperature controller, ultra-low noise current amplifiers (ULCA) etc.)	Non-Recurring	HCP 55	1
608	Electro Optic Modulators	Non-Recurring	HCP 55	3
609	RF Drives and Amplifiers	Non-Recurring	HCP 55	3
610	Acousto-optic modulators	Non-Recurring	HCP 55	4
611	Vacuum Pumps, gauges & accessories	Non-Recurring	HCP 55	2
612	Frequency synthesizer/Function generator	Non-Recurring	HCP 55	4
613	Clock Laser with ULE cavity with accessories	Non-Recurring	HCP 55	1
614	PMT detector	Non-Recurring	HCP 55	1
615	CCD/CMOS camera	Non-Recurring	HCP 55	1
616	Fast Photodiode	Non-Recurring	HCP 55	1
617	Nominal and small/minor equipment electrical, optical & fiber	Non-Recurring	HCP 55	1

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618	Gaussmeter/Teslameter	Non-Recurring	HCP 55	1
619	Power/Energy meter	Non-Recurring	HCP 55	3
620	Optical isolator	Non-Recurring	HCP 55	4
621	Fabry Perot interferometer & controller, accessories	Non-Recurring	HCP 55	1
622	Photodetectors	Non-Recurring	HCP 55	4
623	Oscilloscopes	Non-Recurring	HCP 55	3
624	DC power supplies	Non-Recurring	HCP 55	2
625	Beam profiler	Non-Recurring	HCP 55	1
626	Laser and Wavemeter	Non-Recurring	HCP 55	1
627	Time Tagger	Non-Recurring	HCP 55	1
628	ECDL Laser Systems (one laser diode and one laser diode with amplifier) with frequency stabilization control electronics and associated accessories for Primary Frequency Standard	Non-Recurring	HCP 55	1
629	Wavelength meter with switch	Non-Recurring	HCP 55	1
630	RF spectrum analyzer upto 13.7 GHz	Non-Recurring	HCP 55	1
631	Turbo molecular pump	Non-Recurring	HCP 55	1
632	Microwave Cavities	Non-Recurring	HCP 55	2
633	IR Viewer	Non-Recurring	HCP 55	1
634	CCD Camera	Non-Recurring	HCP 55	1
635	Power meter for upto 4 W power	Non-Recurring	HCP 55	1
636	Mixed domain oscilloscope	Non-Recurring	HCP 55	1
637	Tunable microwave synthesizer	Non-Recurring	HCP 55	1
638	Fabry-Perot Interferometer	Non-Recurring	HCP 55	1
639	Regulated DC Power Supplies	Non-Recurring	HCP 55	4
640	Workstations	Non-Recurring	HCP 55	1
641	Function generator	Non-Recurring	HCP 55	2
642	Environment monitors	Non-Recurring	HCP 55	2
643	Data logger	Non-Recurring	HCP 55	1
644	Data Acquisition Cards with labview software	Non-Recurring	HCP 55	2
645	Shutters	Non-Recurring	HCP 55	6
646	Vacuum-air transfer system (Vacuum chamber/container, pumps, gauges, etc.)	Non-Recurring	HCP 55	1
647	Weighing balances	Non-Recurring	HCP 55	1
648	Volume/density measurement system	Non-Recurring	HCP 55	1
649	Standards weights – 1 kg, E0/E1 class	Non-Recurring	HCP 55	4
650	Standards weights – 1 mg to 50 kg, E0/E1 class (1sets)	Non-Recurring	HCP 55	1
651	Roundness machine - non-contact	Non-Recurring	HCP 55	1
652	Length Measuring Machine	Non-Recurring	HCP 55	1
653	Laser Interferometer (Pico Meter Distance Measurement)	Non-Recurring	HCP 55	1

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654	CCD/CMoS camera	Non-Recurring	HCP 55	5
655	Powder X-ray diffractometer	Non-Recurring	HCP 55	1
656	Environmental monitoring system (data logger)	Non-Recurring	HCP 55	6
657	Work stations	Non-Recurring	HCP 55	1
658	Minor equipments (DC Power Supply, Jigs and Fixtures for holding the Si sphere, etc)	Non-Recurring	HCP 55	1
659	QHRS System comprising of; (i)12T Superconducting Magnet (solenoid based) with bipolar programmable magnet power supply (ii)Variable temperature insert having 12 pin TO8 holder with compatible temperature sensors and complete wiring for doing magneto transport measurement (iii)Provision for VTI (i.e. sample) to be align parallel as well perpendicular to magnetic field. (iv)Compatible cryogenic temperature controller , LHe level sensor, (v)DCC resistance bridge with 4 channel matrix scanner Dry scroll pump to achieve 1.2 K at sample	Non-Recurring	HCP 55	1
660	QHR Devices (i) GaAs/AlGaAs based and (II) Graphene based	Non-Recurring	HCP 55	1 each
661	Integrated Confocal Raman spectroscopy/micro-Raman Mapping - Multimode AFM system with accessories	Non-Recurring	HCP 55	1
662	Cryogenic Current Comparator (CCC) bridge/electronics for the highest precision measurement of resistance ratios at different levels from 1 Ohm to 1 MOhm (type A uc lower than 10 ppb).	Non-Recurring	HCP 55	1
663	Source measuring Units, Current sources and Nanovoltmeter	Non-Recurring	HCP 55	1 each
664	Closed Cycle Refrigerator (CCR, 4.2 K-350 K)	Non-Recurring	HCP 55	1
665	Turbo molecular pump with backing pump	Non-Recurring	HCP 55	2
666	Two wavelength/Dual colour infrared optical pyrometer capable of measuring temperatures $\geq 2000^{\circ}\text{C}$ with interfacing kit	Non-Recurring	HCP 55	1
667	Throttle valve with controller	Non-Recurring	HCP 55	1
668	Digital Oscilloscope (for initiating SQUID measurements in the CCC)	Non-Recurring	HCP 55	1

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669	Thermally Stabilized Travelling Resistance Standards (1 - 1 MOhm)	Non-Recurring	HCP 55	1 each (total 6)
670	PRT thermometer with digital readout	Non-Recurring	HCP 55	2
671	High Precision Dual Channel Thermo-Hygrometer/ logger	Non-Recurring	HCP 55	2
672	JAWS chip Standalone 2V	Non-Recurring	HCP 55	1
673	Compatible Probe	Non-Recurring	HCP 55	1
674	Liquid Helium Dewar	Non-Recurring	HCP 55	1
675	Waveform Generator 30 MHz	Non-Recurring	HCP 55	1
676	High Speed Arbitrary Waveform Generators	Non-Recurring	HCP 55	1
677	2 Channel Broadband 50 GHz Modulator Driver/RF Amplifier	Non-Recurring	HCP 55	1
678	High Speed Counter Control AWG 4-channel isolated, prog. Amplifier	Non-Recurring	HCP 55	1
679	Broadband Digitiser with high sampling rate	Non-Recurring	HCP 55	1
680	Thermal Transfer Standard	Non-Recurring	HCP 55	1
681	AC voltmeter	Non-Recurring	HCP 55	1
682	Cryocooler	Non-Recurring	HCP 55	1
683	Cryofree magnet (12/14 T) with adequate inserts and connections and the integrated measuring electronics suitable for AC/DC QHR standard	Non-Recurring	HCP 55	1
684	AC/DC QHE devices and the electronics associated with them	Non-Recurring	HCP 55	6
685	UPS with Isolation Transformer, 30 kVA	Non-Recurring	HCP 55	1
686	Data Acquisition/PXI Cards	Non-Recurring	HCP 55	4
687	High Precision Impedance (R /L/C) standards	Non-Recurring	HCP 55	4
688	Electron beam lithography (EBL) equipment	Non-Recurring	HCP 55	1
689	Inductively coupled plasma reactive ion etching (ICP-RIE) equipment	Non-Recurring	HCP 55	1
690	Differential Pressure Gauge	Non-Recurring	NWP 100	1
691	Ultrasonic Transducer	Non-Recurring	NWP 100	2
692	Licensing of real time simulation software	Recurring	IHP 240132	1
693	Tethered ballon kit	Non-Recurring	FTT 050502	1
694	Tissue Quartz Filters	Recurring	FTT 050502	As per requirement
695	Teflon Membrane/PTFE Filter paper	Recurring	FTT 050502	As per requirement
696	Hydrogen Cylinder	Recurring	FTT 050502	As per requirement
697	Electronic items	Recurring	FTT 050502	As per requirement
698	Optical components	Recurring	FTT 050502	As per requirement
699	Light Carbon Material etc.	Recurring	FTT 050502	As per requirement
700	Polyvinylidene fluoride (PVDF)	Recurring	CLP 230232	5kg
701	Pitch based carbon fiber fabric	Recurring	CLP 230232	100 m
702	Synthetic graphite	Recurring	CLP 230232	205 kg

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703	Phenolic Resin	Recurring	CLP 230232	50 kg
704	Repairing of Hydraulic Press	Recurring	CLP 230232	2 nos
705	Fabrication of three piece die mould of cavity	Recurring	CLP 230232	10cmX10cm
706	Fabrication of three piece die mould of cavity size	Recurring	CLP 230232	200X100 mm
707	Acetylene carbon black	Recurring	CLP 230232	2 kg
708	Fabrication of three piece die mould attached with 200 ton hydraulic press	Recurring	CLP 230232	
709	Testing charges of graphite bipolar plate	Recurring	CLP 230232	25
710	Zero resistance wire (Pomona 1000V CAT III)	Recurring	CLP 230232	two set
711	Epoxy Resin	Recurring	CLP 230232	25kg
712	Gold plated copper plates	Recurring	CLP 230232	10X10X0.5 cm3
713	Pyrolytic graphite sheets	Recurring	CLP 230232	25
714	Silicon Release paper	Recurring	CLP 230232	100
715	Waxpol	Recurring	CLP 230232	5
716	Kneader Mixture Machine of capacity	Recurring	CLP 230232	5kg
717	Double Cone blender	Recurring	CLP 230232	1
718	Expanded graphite	Recurring	CLP 230232	2 Kg
719	PET substrate with ITO coating, PET substrate without ITO coating, ITO coated polished glass, High precision tweezer for handling silicon wafers, Diamond scribe	Recurring	FIR 010301	2,5,4,10,5
720	Repair and service of Emerson UPS 10KVA	Recurring	FIR 010301	1
721	Silicon Nitrid wafer, size:100mm, type: P-type boron doped orientation:100, Resistivity 1-10 ohm-cm, Polish: SSP (Single side polished), Thickness: 500um, Prime grade 1911, w/100 nm of standard LPCVD film	Recurring	FIR 010301	10
722	Repair of DC power supply used for sputtering material	Recurring	FIR 010301	1
723	Repir & service of Pfeiffer make Double stage Oil Sealed Rotary Vane type Vacuum Pump	Recurring	FIR 010301	1
724	Below Tube 3m length 25mm dia with KF 25 end, Roughing valve KF 25 right angle valve, KF 25 clamp, centering ring and O ring set, KF 25 O ring ID 2.4 cm	Recurring	FIR 010301	25
725	Repair and service of oxygen plasma	Recurring	FIR 010301	1
726	Tip seal kit for vacuum pump	Recurring	FIR 010301	1

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727	Accessories for Sputtering system : which includes (1) CF-35 magnetic transfer arm with bellow assembly (2) CF-150 front removable flange comprising of CF-50 UHV shuttered viewport, (3) CF-63 UHV shuttered view port, (4) gas inlet valve, vent, right angle valve, blank flanges for spare ports for main and load lock chamber, (5) TPR 270 pirani gauge for main as load lock chamber with its display controller, (6) Spares and consumable like tool kit, O-rings, gasket. etc	Recurring	FIR 010301	1,3,3,2,2, as per req.
728	Gases Ar and N2	Recurring	FIR 010301	As per req.
729	Office furnishing Comprising of (1) Office conference table (wooden), (2) Executive chairs, (3) Visitors Chairs, (4) Revolving Chairs	Recurring	FIR 010301	1, 2, 6, 10
730	Turbomolecular pump	Non-Recurring	FIR 010301	1
731	DC power supply for Sputtering Guns	Non-Recurring	FIR 010301	1
732	Water Chiller	Non-Recurring	FIR 010301	1
733	Lock-in-pre-amplifier	Non-Recurring	FIR 010301	3
734	Oxygen gas cylinder	Recurring	GAP 240632	5
735	Nitrogen gas cylinder	Recurring	GAP 240632	2
736	Copper powder	Recurring	GAP 240632	1
737	Selenium powder	Recurring	GAP 240632	1
738	Magnesium powder	Recurring	GAP 240632	1
739	Antimony powder	Recurring	GAP 240632	1
740	Silver powder	Recurring	GAP 240632	1
741	Repair of furnace	Recurring	GAP 240632	1
742	Printer cartridge 88A, 30A, 32A and others	Recurring	GAP 240632	4
743	External DVD writer	Recurring	GAP 240632	1
744	Anti-virus	Recurring	GAP 240632	1
745	Hard disk	Recurring	GAP 240632	1
746	Chemicals	Recurring	GAP 240632	as per requirement
747	Stationary items	Recurring	GAP 240632	as per requirement
748	Tissue Paper	Recurring	GAP 240632	as per requirement
749	Office furniture	Recurring	GAP 240632	as per requirement
750	Office miscellaneous items	Recurring	GAP 240632	as per requirement
751	Rewritable CD/DVD	Recurring	GAP 240632	200
752	Repair-miscellaneous	Recurring	GAP 240632	as per requirement
753	Miscellaneous items	Recurring	GAP 240632	as per requirement
754	Glassware	Recurring	GAP 240632	as per requirement
755	Office softwares	Recurring	GAP 240632	as per requirement
756	Internal SSD 1TB	Recurring	GAP 240632	2
757	Microsoft Office 2021 Professional Plus	Recurring	GAP 240632	as per requirement

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758	Extension board with USB	Recurring	GAP 240632	as per requirement
759	Emery paper (different grades)	Recurring	GAP 240632	as per requirement
760	Postal charges	Recurring	GAP 240632	as per requirement
761	Sample boxes (different sizes)	Recurring	GAP 240632	as per requirement
762	Ziplock bags (different sizes)	Recurring	GAP 240632	as per requirement
763	Graphite die and punches	Recurring	GAP 240632	as per requirement
764	weighing balance	Recurring	GAP 240632	as per requirement
765	Soldering station	Recurring	GAP 240632	1
766	Memberships	Recurring	GAP 240632	as per requirement
767	Flanges	Recurring	GAP 230332	One set (Two)
768	Water bath	Recurring	GAP 230332	1
769	Alumina polishing powder	Recurring	GAP 230332	3, 500 g each
770	Digital hot air oven	Recurring	GAP 230332	1
771	Repair of Water feeder for water purification system	Recurring	GAP 210232	1
772	Wooden enclosure for micro balance	Recurring	GAP 210232	1
773	GI Container	Recurring	GAP 210232	17
774	Spare parts of Water Purification system	Recurring	GAP 210232	1
775	Curved Monitor	Non-Recurring	GAP 210232	1
776	Aging-life test system	Non-Recurring	GAP 172032	1
777	Optical bench intensity measurement (25/30m)	Non-Recurring	GAP 172032	1
778	Spectral irradiance primary standard	Non-Recurring	GAP 172032	1
779	Desktop UPS	Non-Recurring	GAP 181132	7
780	Router/switches	Non-Recurring	GAP 181132	4
781	workstation	Non-Recurring	GAP 181132	1
782	Overhead Projector with smart screen	Non-Recurring	GAP 181132	1
783	Network UPS	Non-Recurring	GAP 181132	1
784	Digital Multi meter	Non-Recurring	GAP 181132	2
785	Gas Regulator	Non-Recurring	GAP 181132	5
786	Function Generator	Non-Recurring	GAP 181132	1
787	High Performance Power supply	Non-Recurring	GAP 181132	2
788	ESD work bench	Non-Recurring	GAP 181132	1
789	Micro balance with chamber and electrostatic neutralizer	Non-Recurring	GAP 181132	1
790	Aerosol Particle Spectrometer (APS) with Counter	Non-Recurring	GAP 181132	1
791	Electrical Low Pressure Impactor Sampler	Non-Recurring	GAP 181132	1
792	Microwave digestion system	Non-Recurring	GAP 181132	1
793	IC ( Ion Chromatography)	Non-Recurring	GAP 181132	1
794	Volumetric Flow system	Non-Recurring	GAP 181132	1
795	Computer	Non-Recurring	GAP 181132	3
796	LED/ LCD display Size 55"	Non-Recurring	GAP 181132	2
797	CCTV Camera setup	Non-Recurring	GAP 181132	1

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798	Gas Leak Detection system/ sensor	Non-Recurring	GAP 181132	2
799	Forklift 5ton	Non-Recurring	GAP 181132	1
800	Color Printer with scanner	Non-Recurring	GAP 181132	1
801	Gas Management System	Non-Recurring	GAP 181132	1
802	Furniture (computer table, Chair, Working table)	Non-Recurring	GAP 181132	10,10,1
803	PM CEMS Stack	Non-Recurring	GAP 181132	1
804	Embedded card, cables and accessories for FTIR gas measurement system and Secondary ozone Standard facility	Recurring	GAP 181132	2
805	Gas flow rotameters with connectors, tubing and adapters	Recurring	GAP 181132	1
806	Fittings and accessories for PM CEMS Reference system	Recurring	GAP 181132	As per requiremnet
807	Assorted type of cartridges	Recurring	GAP 181132	2
808	Tool kit Electrical & Electronics	Recurring	GAP 181132	2
809	Tool kit for plumbing	Recurring	GAP 181132	2
810	Miscellaneous Items	Recurring	GAP 181132	As per requiremnet
811	Miscellaneous Sensors and actuators	Recurring	GAP 181132	As per requiremnet
812	Fixtures and fittings	Recurring	GAP 181132	As per requiremnet
813	Pneumatic tools	Recurring	GAP 181132	As per requiremnet
814	LabVIEW Perpetual License (single user)	Recurring	GAP 181132	1
815	MATLAB Software Perpetual License (single user)	Recurring	GAP 181132	1
816	Software for electronic circuit and PCB design (Perpetual License / single user)	Recurring	GAP 181132	1
817	Microsoft Visual Studio Single user	Recurring	GAP 181132	1
818	MS Office single user	Recurring	GAP 181132	2
819	Norton total security ( 5 user / 3 year )	Recurring	GAP 181132	1
820	CAT 6 internet cable	Recurring	GAP 181132	200 meter
821	CAT 6 internet cable connectors RJ45	Recurring	GAP 181132	one pack of 100
822	Electrical Cable for mains supply	Recurring	GAP 181132	100 meter
823	Repair of UPS	Recurring	GAP 181132	3
824	Gases (SO2/CO2/NO2/NO/CO/NH3/Propane/Metahne /HCl/TOC/BTEX/Oxygen/Nitrogen etc.)	Recurring	GAP 181132	Quantity and concentration As per requirement
825	Cryo-Protection face shield	Recurring	GAP 181132	5
826	Cryogenic Gloves	Recurring	GAP 181132	5 pairs
827	Lab related wearing miscellaneous items	Recurring	GAP 181132	As per requiremnet
828	Charcoal unit for charcoal scrubber for ZNV-7 Zero Air Generator	Recurring	GAP 181132	1

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829	Compressor/ pump for PAG 003 ZERO AIR GENERATOR (including service/installation charges)	Recurring	GAP 181132	1
830	CLD Display Set (including service/installation charges)	Recurring	GAP 181132	1
831	Display Screen for APMA CO Analyzer(including service/installation charges)	Recurring	GAP 181132	1
832	Desiccators	Recurring	GAP 181132	1
833	Spare parts for Teledyne Zero air generator model no. 701	Recurring	GAP 181132	As per requiremnet
834	Safety voltage analyser module	Recurring	HCP 52	1
835	Functionalized DNA sequence	Recurring	GAP 240832	10 vials
836	DNA Sequences	Recurring	GAP 240832	5 vials
837	Micro particles, magnetic, streptavidin coated	Recurring	GAP 240832	5ml
838	superMag multitube magnetic separator	Recurring	GAP 240832	1 piece
839	1-Pyrenemethylamine hydrochloride	Recurring	GAP 240832	1gm
840	BS3 (bis(sulfosuccinimidyl)suberate)	Recurring	GAP 240832	25mg
841	N-Hydroxysulfosuccinimide sodium salt	Recurring	GAP 240832	250mg
842	PANAM dendrimer, ethylenediamine core, generation 4.5 solution	Recurring	GAP 240832	2.5g
843	Shifting of existing melt-spinning set-up	Recurring	GAP 230332	1
844	Temperature controler	Recurring	GAP 230332	2
845	Refilling of nitrogen gas	Recurring	GAP 230332	10
846	High Purity Gold	Recurring	GAP 240932	55gm
847	High Purity Silver	Recurring	GAP 240932	300 gm
848	High Purity Copper	Recurring	GAP 240932	100gm
849	DL-Dithiothreitol,for molecular analysis	Recurring	GAP 114732	5
850	Phenanthrenequinone, 99+%	Recurring	GAP 114732	5
851	Tris-(Hydroxymethyl) methylamine	Recurring	GAP 114732	5
852	Potassium phosphate dibasic anhydrous	Recurring	GAP 114732	4
853	Potassium dihydrogen orthophosphate anhydrous	Recurring	GAP 114732	2
854	Dispo Van Syringe 2 ml	Recurring	GAP 114732	10 pkt
855	Wooden Inclosure	Recurring	GAP 114732	1
856	Graphic Card	Recurring	GAP 114732	1
857	Pump- 50 lpm; oil free	Recurring	GAP 114732	2
858	Canon cartridge of different colours, Magenta, yellow, black, cyan	Recurring	HCP 52	5 set
859	Job works/repairs	Recurring	GAP 231232	as per requirement
860	Gasline regulators	Recurring	GAP 231232	as per requirement
861	Repair of EL system (MBJ)	Recurring	GAP 231232	1
862	Fabriation of 6" adapter for CF to ISO as per design	Recurring	GAP 231232	1
863	Repair of chiller (Sumex)	Recurring	GAP 231232	1

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## NPL Project Procurement List 2024-25 as on Dec 04 , 2024

864	Miscellaneous (RAM, Hard drives, PC related components, and repair of PCs, etc)	Recurring	GAP 231232	as per requirement
865	Replacement of Batteries	Recurring	GAP 231232	100
866	fabrication of frame	Recurring	GAP 231232	1
867	PU tubing accessories	Recurring	GAP 231232	as per requirement
868	Repair of Display	Recurring	GAP 231232	1
869	blowers	Recurring	GAP 231232	2
870	Tool boxes	Recurring	GAP 231232	2
871	quartz crystals/holders, sensors, line regulators, valves, o-rings, targets, 4" magnetron source, magnets, KF clamps, wilson seals, high-pressure valves, 3-way couplings, copper, CF to ISO flanges, electrodes, etc	Recurring	GAP 231232	as per requirement
872	repair/upgradation of mechanical and electrical accessories	Recurring	GAP 231232	as per requirement
873	Optical components (calibration lamps, optical posts/holders, railings, etc)	Recurring	GAP 231232	as per requirement
874	MHV cables and connectors	Recurring	GAP 231232	as per requirement
875	gas filters (O2, N2, Ar, H2, etc)	Recurring	GAP 231232	as per requirement
876	Training (labview, QMS, etc)	Recurring	GAP 231232	as per requirement
877	fabrication of Water manifolds, hoses, valves, etc	Recurring	GAP 231232	as per requirement
878	cutting of targets	Recurring	GAP 231232	as per requirement
879	2-/3-way switches, instrumentation racks, solenoid valve, gas manifold, etc	Recurring	GAP 231232	as per requirement
880	fabrication of 6" sputter sources	Recurring	GAP 231232	2
881	Repaor of ALD	Recurring	GAP 231232	1
882	Repair of micro PCD	Recurring	GAP 231232	1
883	Repair of power supplies	Recurring	GAP 231232	5
884	Reference Solar cells	Non-Recurring	GAP 170432	5
885	transimpedance amplifier	Non-Recurring	GAP 170432	1
886	lock-in amplifier	Non-Recurring	GAP 170432	1
887	Dataloggers	Non-Recurring	GAP 170432	1
888	Power supply	Non-Recurring	GAP 170432	2
889	Upgradation of solar simulator for low current measurement	Non-Recurring	GAP 170432	1
890	Dehumidifier	Non-Recurring	GAP 170432	1
891	Optical Bench	Non-Recurring	GAP 170432	1
892	fabrication of bus bar with current converter	Recurring	GAP 170432	5
893	modification of humity chamber	Recurring	GAP 170432	1
894	Electrical cabinets with components, Electrical Cables, DBs, MCBs	Recurring	GAP 170432	as per requirement
895	Electronic components (Lemo / banana/BNC/SMC connectors, Cables, soldering station, sleeves, humidity/temperatures sensors, etc	Recurring	GAP 170432	as per requirement

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## NPL Project Procurement List 2024-25 as on Dec 04 , 2024

896	communication cards (GPIB, RS232, etc), pc cards, networking items, etc	Recurring	GAP 170432	as per requierment
897	gases	Recurring	GAP 170432	as per requierment
898	Insulating sheets	Recurring	GAP 170432	as per requierment
899	Power supply PCB	Recurring	GAP 170432	1
900	Refilling of precursor bottles/cylinders	Recurring	GAP 170432	3
901	gas line cabinet	Recurring	GAP 170432	1
902	UPS repairs	Recurring	GAP 170432	2
903	earthing	Recurring	GAP 170432	3
904	IR lamps	Recurring	GAP 170432	25
905	LED sources	Recurring	GAP 170432	5
906	Fabriation of 4" to 6" adapter with ISO flanges	Recurring	GAP 170432	1
907	Sun attenuator	Recurring	GAP 170432	1
908	Crystals (for FHG, SHG, THG, FHG and OPO), Femto-second Optics, Admixture	Recurring	GAP 170432	as per requierment
909	repair of compressors/dry air generators	Recurring	GAP 170432	4
910	Computer accessories (mother boards, mouse, keyboards, etc)	Recurring	GAP 170432	as per requierment
911	fabrication of gas cabinet	Recurring	GAP 170432	as per requierment
912	bus-bar assembly for solar simulator	Recurring	GAP 170432	1
913	Fabrication of Lamp housing (water cooled)	Recurring	GAP 170432	1
914	Upgradation of Chamber for water cooling with collar	Recurring	GAP 170432	1
915	upgradation of solar simulator for low current measurement	Recurring	GAP 170432	1
916	dehumidifier	Recurring	GAP 170432	1
917	AMC (lasers, primary standard facility accessories, etc)	Recurring	GAP 170432	1
918	Clean Air Booth	Recurring	GAP 170432	1
919	Repair of EL system (MBJ)	Recurring	GAP 170432	1
920	Fabriation of 6" adapter for CF to ISO as per design	Recurring	GAP 170432	1
921	Repair of chiller (Sumex)	Recurring	GAP 170432	1
922	Miscellaneous (RAM, Hard drives, PC related components, and repair of PCs, etc)	Recurring	GAP 170432	as per requierment
923	Replacement of Batteries	Recurring	GAP 170432	100
924	fabrication of frame	Recurring	GAP 170432	1
925	PU tubing accessories	Recurring	GAP 170432	as per requirement
926	Repair of Display	Recurring	GAP 170432	1
927	blowers	Recurring	GAP 170432	2
928	Tool boxes	Recurring	GAP 170432	2
929	quartz crystals/holders, sensors, line regulators, valves, o-rings, targets, 4" magnetron source, magnets, KF clamps, wilson seals, high-pressure valves, 3-way couplings, copper, CF to ISO flanges, electrodes, etc	Recurring	GAP 170432	as per requirement

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## NPL Project Procurement List 2024-25 as on Dec 04 , 2024

930	Repair/upgradation of mechanical and electrical accessories	Recurring	GAP 170432	as per requirement
931	upgradation of shed for thermal insulation	Recurring	GAP 170432	as per requirement
932	Optical components (calibration lamps, optical posts/holders, railings, etc)	Recurring	GAP 170432	as per requirement
933	MHV cables and connectors	Recurring	GAP 170432	as per requirement
934	gas filters (O2, N2, Ar, H2, etc)	Recurring	GAP 170432	as per requirement
935	Training (labview, QMS, etc)	Recurring	GAP 170432	as per requirement
936	fabrication of Water manifolds, hoses, valves, etc	Recurring	GAP 170432	as per requirement
937	Cutting of targets	Recurring	GAP 170432	as per requirement
938	2-/3-way switches, instrumentation racks, solenoid valve, gas manifold, etc	Recurring	GAP 170432	as per requirement
939	fabrication of 6" sputter sources	Recurring	GAP 170432	2
940	Repair of dehumidifier	Recurring	GAP 170432	1
941	Repair of ALD	Recurring	GAP 170432	1
942	Repair of micro PCD	Recurring	GAP 170432	1
943	Repair of power supplies	Recurring	GAP 170432	5
944	ducts for dehumifier	Recurring	GAP 170432	3
945	Fabrication of substrate heater	Recurring	GAP 170432	1
946	temperature controlled thermal stage	Recurring	GAP 170432	1
947	External portable hard disk 10 TB	Recurring	HCP 52	1
948	Metrology Grade test leads for PMU (one side banana Plugs and other side Bottles lugs suitable for multi -vendor PMU unit)	Recurring	GAP 220132	5
949	Cable/connecting wire	Recurring	GAP 220132	As per requirement
950	Electrical cables and accessories (GPIB, BNC, Triax, Interface, adapters, etc.)	Recurring	GAP 220132	As per requirement
951	Voltage sensor module development parts	Recurring	GAP 220132	As per requirement
952	Phase Processor parts	Recurring	GAP 220132	As per requirement
953	Parts for sine wave generator	Recurring	GAP 220132	As per requirement
954	Electronic components (LED, diode, resistor, transistor, bread board etc.)	Recurring	GAP 220132	As per requirement
955	Assorted Electronics components	Recurring	GAP 220132	As per requirement
956	Parts for Power supply Unit	Recurring	GAP 220132	As per requirement
957	Allen Key set	Recurring	GAP 220132	1
958	Wires/Terminals/ Paste for Solder	Recurring	GAP 220132	As per requirement
959	Tweezer set	Recurring	GAP 220132	1
960	PCBs	Recurring	GAP 220132	As per requirement
961	Glue Gun sticks	Recurring	GAP 220132	As per requirement
962	Crimping Tool, Cutting Tool, Scissor	Recurring	GAP 220132	As per requirement
963	Plastic ware like Utility Tray, container, partition box, pins etc.	Recurring	GAP 220132	As per requirement
964	Lab Slippers	Recurring	GAP 220132	As per requirement
965	Shoe Covers	Recurring	GAP 220132	As per requirement

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## NPL Project Procurement List 2024-25 as on Dec 04 , 2024

966	Laptop/computer accessories (heating fan, keyboard, mouse, wire etc.)	Recurring	GAP 220132	As per requirement
967	Pen drive/ ear phone /SD card/ HDD/ SDD/ RAM	Recurring	GAP 220132	As per requirement
968	Repairing, Upgrading instruments/ printer/ laptop/	Recurring	GAP 220132	As per requirement
969	Computer consumables (like pen drive, portable hard disk and internal hard disk, net cables etc.)	Recurring	GAP 220132	As per requirement
970	Printer Cartridge	Recurring	GAP 220132	As per requirement
971	Maintenance of equipment (NTP Server) other than computer	Recurring	FBR 010307	2 year
972	Repair of electromagnet power supply of CPW-FMR instrument	Recurring	MLP 190932	1
973	Interfacing card for the data acquisition of FMR measurements	Recurring	MLP 190932	1
974	Pneumatic vacuum Gate valve and accessories for DC magnetron sputtering system	Recurring	MLP 190932	As per requirement
975	DC magnetron sputtering system consumables	Recurring	MLP 190932	As per requirement
976	Thin film deposition substrates	Recurring	MLP 190932	As per requirement
977	Ampule fabrication charges	Recurring	MLP 190932	As per requirement
978	Thin films Sputtering targets	Recurring	MLP 190932	As per requirement
979	Consumables items for magnetic single crystal growth	Recurring	MLP 190932	As per requirement
980	Quartz crystals for thickness monitor control of DC magnetron sputtering system	Recurring	MLP 190932	As per requirement
981	Repair of DC power supply and rotary pump of DC magnetron sputtering system	Recurring	MLP 190932	2
982	1. Repair of the hotplate, sonicator, and centrifuge - Rs. 15000/-; 2. Repair of 10 kVA and 40kVA UPS of MOKE and EPR Spectrometer - Rs. 35000/-	Recurring	MLP 190932	As per requirement
983	Vacuum system accessories	Recurring	MLP 190932	As per requirement
984	Pellet Dies	Recurring	MLP 190932	As per requirement
985	TEM grids for sample preparation	Recurring	MLP 190932	as per requirement
986	Chemicals (payment old PO)	Recurring	MLP 190932	1
987	Raw Si oil & Silica gel	Recurring	MLP 190932	As per requirement
988	High purity alumina cylindrical crucible and boats for sample synthesis	Recurring	MLP 190932	
989	High purity Quartz tube for vacuum sealing ampules	Recurring	MLP 190932	As per requirement
990	Cryogenic vacuum grease for liquid helium measurements	Recurring	MLP 190932	As per requirement
991	Hydrothermal autoclave units	Recurring	MLP 190932	As per requirement
992	Microswitches for the liquid helium transferline of Nano-Moke III, Thermo fuse for liquid helium of EPR equipment	Recurring	MLP 190932	As per requirement
993	Targets and Substrates	Recurring	MLP 190932	As per requirement

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## NPL Project Procurement List 2024-25 as on Dec 04 , 2024

994	Filter Paper	Recurring	MLP 190932	10
995	Agate Mortar	Recurring	MLP 190932	2
996	Tool Box	Recurring	MLP 190932	1
997	Alumina Boat	Recurring	MLP 190932	As per requirement
998	Exhaust Fans	Recurring	MLP 190932	1
999	Chemicals	Recurring	MLP 190932	As per requirement
1000	TEM grids for sample preparation	Recurring	MLP 190932	as per requirement
1001	Computer Accessories	Recurring	MLP 190932	as per requirement
1002	Customized lab furniture equipped with: 1) Sample preparation area and keeping constant temperature bath for single crystal growth (3 No.); 2) Sample holder sections and area for seed rotation setup (2 No.); 3) Tools section along with area for Sankaranarayanan Ramasamy setup (1 No.)	Non-Recurring	MLP 190932	as per requirement
1003	Fabricated Platform for Nuclear Magnetic resonance (FT-NMR) Instrument	Non-Recurring	MLP 190932	as per requirement
1004	Cartridges for printers	Recurring	MLP 190932	As per requirement
1005	Cartridges for printers (HP and Brother)	Recurring	MLP 190932	As per requirement
1006	Repairing of computer UPS	Recurring	MLP 190932	As per requirement
1007	Upgradation of XRF computer	Recurring	MLP 190932	As per requirement
1008	Cannon photo copies cartridges	Recurring	MLP 190932	As per requirement
1009	Refractometer	Non-Recurring	MLP 190932	1
1010	Microwave digester system	Non-Recurring	MLP 190932	1
1011	Repair of Spin coating unit	Recurring	GAP 170432	1
1012	Consumables/spare parts of DI water plant	Recurring	GAP 170432	As per Req.
1013	Xenon lamps	Recurring	GAP 170432	2
1014	pcbm	Recurring	GAP 170432	As per Req.
1015	Repair of julabo constant temperature bath	Recurring	GAP 170432	1
1016	repair/servicing of RTP system	Recurring	GAP 170432	1
1017	Metal pastes	Recurring	GAP 170432	As per req.
1018	Chemicals (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HF, H <sub>2</sub> O <sub>2</sub> , etc)	Recurring	GAP 231232	AS PER REQ.
1019	Conference/workshop/schools registration fee etc.	Recurring	MLP 190932	As per req.
1020	Repair of Office PC	Recurring	MLP 190932	As per req.
1021	Professional Lifetime Membership/Fellow,etc.	Recurring	MLP 190932	As per req.
1022	Tin Foil	Recurring	FTT 050502	As per req.
1023	Copper Grid	Recurring	FTT 050502	As per req.
1024	Printer cartridge for variable printers	Recurring	FTT 050502	As per req.
1025	Vector signal analyzer software	Non-Recurring	GAP 240432	1
1026	All sationary items (pen, marker, paper cutter, A 4 sheets, tapes, white board, document case, executive, portfolio, clear holder, table lamp, magnifier with led light, printer cartridges and internal SSD hard disk etc.)	Recurring	GAP 240432	As required
1027	Conference/registration fee and accomodation charges	Recurring	GAP 240432	As required

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1028	Low Loss RF Cable N type (up to 18GHz)	Recurring	GAP 240432	2
1029	Low Loss RF Cable 2.4mm (up to 50 GHz)	Recurring	GAP 240432	2
1030	RF Switch Assembly	Recurring	GAP 240432	1
1031	Power Splitter	Recurring	GAP 240432	1
1032	Preamplifier	Recurring	GAP 240432	1
1033	Phase Detector	Recurring	GAP 240432	1
1034	Bias tee	Recurring	GAP 240432	2
1035	Microwave Termination	Recurring	GAP 240432	3
1036	Connector and adapter	Recurring	GAP 240432	As required
1037	DC block	Recurring	GAP 240432	2
1038	Fabrication of metallic Test Objects	Recurring	GAP 240432	As required
1039	PCB fabrication job and Services	Recurring	GAP 240432	As required
1040	Loose electronics components (Diodes, resistors, capacitors, PCB mounts, IC, etc.	Recurring	GAP 240432	As required
1041	Infrasonic sensor with accessories and data analysis software	Non-Recurring	OLP 246832	3

**UPDATED AS ON DECEMBER 04, 2024**

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