

NPL Project Procurement List 2023-24 as on Sep 12 , 2023

S.No.	Item Name	Recurring / Non-Recurring	Project No.	Qty.
1	Electronic boards and accessories	Recurring	GAP 150132	As per Requirement
2	RF connectors, RF cables, distribution boards	Recurring	GAP 150132	As per Requirement
3	Hard disk, RAM, router	Recurring	GAP 150132	As per Requirement
4	Rubidium Frequency Standard	Non- Recurring	GAP 150132	1
5	GNSS receiverwith accessories	Non- Recurring	GAP 150132	2
6	Tool Kit and Ratchet set	Recurring	TSP 180932	6
7	Crimping Tool for RG316, RG223/U	Recurring	TSP 180932	6
8	Crimping Tool for LMR400.	Recurring	TSP 180932	6
9	Crimping Tool for RJ45	Recurring	TSP 180932	6
10	Hot Blower	Recurring	TSP 180932	6
11	Power Extension Board (min. 5 socket)	Recurring	TSP 180932	15
12	RG223/U RF cable (m)	Recurring	TSP 180932	2800
13	RG316 RF Cable (m)	Recurring	TSP 180932	1600
14	LMR400 Cable (m)	Recurring	TSP 180932	1650
15	BNC Connectors for RG223	Recurring	TSP 180932	820
16	BNC Connectors for RG316	Recurring	TSP 180932	575
17	N type Connectors for RG223	Recurring	TSP 180932	125
18	N type Connectors for LMR400	Recurring	TSP 180932	90
19	BNC Female to BNC Female Adapters	Recurring	TSP 180932	85
20	N-female to N –female adapter	Recurring	TSP 180932	85
21	SMA female to SMA female adapter	Recurring	TSP 180932	85
22	N-male to BNC Female adapter	Recurring	TSP 180932	85
23	N-male to BNC male adapter	Recurring	TSP 180932	85
24	BNC male to N –female adapter	Recurring	TSP 180932	85
25	SMA male to BNC female adapter	Recurring	TSP 180932	85
26	3-dB splitters (BNC)	Recurring	TSP 180932	75
27	3-dB Attenuators	Recurring	TSP 180932	40
28	Terminator (50 Ohm BNC)	Recurring	TSP 180932	160
29	LAN Cables (2 m)	Recurring	TSP 180932	145
30	LAN Cables (3 m)	Recurring	TSP 180932	350
31	LAN Cables (5 m)	Recurring	TSP 180932	350
32	LAN Cables (10 m)	Recurring	TSP 180932	115
33	Cat6 UTP Cable Roll (m)	Recurring	TSP 180932	430
34	RJ45 connectors	Recurring	TSP 180932	340
35	RS232 3 core shielded Cable Roll (m)	Recurring	TSP 180932	1025
36	Serial Connectors (DB9 Male)	Recurring	TSP 180932	420
37	Serial Connectors (DB9 Female)	Recurring	TSP 180932	420
38	Dust cap (Hood) DB9	Recurring	TSP 180932	840
39	H/S sleeve (8mm) (m)	Recurring	TSP 180932	115
40	H/S sleeve (3 or 4mm) (m)	Recurring	TSP 180932	115
41	H/S sleeve (1.5 or 2mm) (m)	Recurring	TSP 180932	115
42	Grounding Wire (Yellow or Green) 4sq m	Recurring	TSP 180932	75
43	Round lug for grounding wire (M6)Nos	Recurring	TSP 180932	850
44	AT-1 carrier strip (Packets)	Recurring	TSP 180932	75
45	H/S sleeve (Transparent) 7mm/8mm (m)	Recurring	TSP 180932	115

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46	Cable tie (100mm) (packets)	Recurring	TSP 180932	75
47	Cable tie (200mm) (packets)	Recurring	TSP 180932	75
48	Cable tie (300mm) (packets)	Recurring	TSP 180932	45
49	SMA Connectors for RG223	Recurring	TSP 180932	390
50	SMA Connectors for RG316	Recurring	TSP 180932	555
51	TNC type connector for RG223	Recurring	TSP 180932	55
52	TNC type connector for LMR400	Recurring	TSP 180932	90
53	TNC type connector for RG316	Recurring	TSP 180932	45
54	BNC-female to TNC-male	Recurring	TSP 180932	80
55	SMA-female to TNC-male	Recurring	TSP 180932	80
56	Power cords(Nos)	Recurring	TSP 180932	70
57	Operating system (Win-10 Professional, 64 bit)	Recurring	TSP 180932	6
58	Antivirus 3yrs Lic	Recurring	TSP 180932	30
59	MS Office 2019	Recurring	TSP 180932	30
60	Mouse USB	Recurring	TSP 180932	60
61	Keyboard USB	Recurring	TSP 180932	30
62	Pen drives (3.0) 32 GB	Recurring	TSP 180932	60
63	USB HARD DISK Drive (3.0) 2TB	Recurring	TSP 180932	12
64	Wireless USB Dongle	Recurring	TSP 180932	30
65	LAN Tester	Recurring	TSP 180932	12
66	Screw Driver Set (PC, Workstn)	Recurring	TSP 180932	12
67	USB to HDMI Cables	Recurring	TSP 180932	30
68	HDMI to HDMI Cables	Recurring	TSP 180932	12
69	Mouse PADs Anti Static	Recurring	TSP 180932	60
70	Laboratory Job work: 1. Building Management System. 2. Environment Control and monitoring systems 3. Antenna Cabling 4. Signage 5. Network Time Displays 6. TV and Big displays for time scale monitoring 7 Alert system 8 Fire safety 9 Grounding/ earthing 10. Projection system 11. Renovation including furniture and furnishings	Recurring	TSP 180932	1
71	Maintenance of Equipment: AMC for UPS /AC / Generator/ Data logger/ CCD camera / other accessories	Recurring	TSP 180932	10
72	Audio-visual and Meeting expenses	Recurring	TSP 180932	10
73	Computer Software: 1. Antivirus 2. PTP, NTP and NMS 3. Word processing 4. Any other software	Recurring	TSP 180932	10
74	Computer and Printer Consumables	Recurring	TSP 180932	20
75	RF cables, connectors and consumables	Recurring	TSP 180932	20
76	Optical Fiber, connectors, and accessories	Recurring	TSP 180932	10
77	Stationary, Staplers, label printer, and other minor components & items	Recurring	TSP 180932	20
78	Video Conferencing accessories	Recurring	TSP 180932	10
79	Battery and Electrical & Electronic accessories	Recurring	TSP 180932	20
80	Replacement of Spare part of equipment	Recurring	TSP 180932	2
81	Other consumable items	Recurring	TSP 180932	10
82	Charges relating to organization of Meetings/ Seminars/ Workshops/ Conference / Training	Recurring	TSP 180932	1 set

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83	Training at ISRO for Project Team and temporary staff	Recurring	TSP 180932	1 set
84	Registration and Training fee of Project Team and temporary staff	Recurring	TSP 180932	1 set
85	Job work	Recurring	TSP 180932	1 set
86	License (including satellite license) and fees	Recurring	TSP 180932	1 set
87	Honorarium to consultants, experts and TSC members	Recurring	TSP 180932	1 set
88	Job work of Printing of Reports, Tenders, Advertisements, etc	Recurring	TSP 180932	1 set
89	Transportation of equipment from ISRO to RRSLs	Recurring	TSP 180932	1 set
90	Poster Printing charges/ exhibition arrangements	Recurring	TSP 180932	1 set
91	Internet / Telephone / Transponder charges	Recurring	TSP 180932	1 set
92	Web charges and Software development fee	Recurring	TSP 180932	1 set
93	Books and Standards	Recurring	TSP 180932	1 set
94	Stationary	Recurring	TSP 180932	1 set
95	Printing charges	Recurring	TSP 180932	1 set
96	Administrative charges for Meetings/ Seminars/Workshops/Conference	Recurring	TSP 180932	1 set
97	Training of Project Staff	Recurring	TSP 180932	1 set
98	Contract Staff (Five Skilled/ Semi Skilled and Two retired employees)	Recurring	TSP 180932	1 set
99	Payment to Daily/Monthly wager	Recurring	TSP 180932	1 set
100	Postage and Courier charges	Recurring	TSP 180932	1 set
101	Canteen and food expenses	Recurring	TSP 180932	1 set
102	Hot and Cold charges	Recurring	TSP 180932	1 set
103	Legal expenses/ fee to consultants, auditor and CA	Recurring	TSP 180932	1 set
104	Periodicals and books	Recurring	TSP 180932	1 set
105	Office furnishings, curtains and related repairs	Recurring	TSP 180932	1 set
106	Furniture repairs and maintenance	Recurring	TSP 180932	1 set
107	Guest house charges including food charges	Recurring	TSP 180932	1 set
108	Maintenance of office equipment	Recurring	TSP 180932	1 set
109	Miscellaneous and unforeseen	Recurring	TSP 180932	1 set
110	Furniture for traceability Lab	Non- Recurring	TSP 180932	1
111	Antenna control unit	Non- Recurring	TSP 180932	1
112	Works and services for IT	Non- Recurring	TSP 180932	1
113	Furniture for RRSLs and DRC	Non- Recurring	TSP 180932	6
114	TWSTFT equipment	Non- Recurring	TSP 180932	1
115	AC systems, UPS and batteries	Non- Recurring	TSP 180932	5
116	Other time scale equipment	Non- Recurring	TSP 180932	5
117	Multifunctional Printers	Non- Recurring	TSP 180932	10
118	Office Computers	Non- Recurring	TSP 180932	20
119	Silver Paste	Recurring	TSP 230132	100 gm
120	Refilling of Hydrogen gas cylinders	Recurring	TSP 230132	5
121	Repairing of glass double water distillation unit	Recurring	TSP 230132	1
122	O-rings	Recurring	TSP 230132	As per requirement
123	Quartz tube	Recurring	TSP 230132	1
124	Asaclean Purging compound	Recurring	TSP 230132	20kg

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125	Gas regulators	Recurring	TSP 230132	3
126	Handheld Digital Infrared Thermometer	Recurring	TSP 230132	1
127	Nylon, Teflon, Glass fiber cloth mesh	Recurring	TSP 230132	As per requirement
128	Aluminum Foil (thick)	Recurring	TSP 230132	As per requirement
129	Miscellaneous - Emergent chemical, cleaning brush, metal cleaner/polish (Waxpol) repairing, batteries, minor fabrication or job work, stationary etc	Recurring	TSP 230132	As per requirement
130	Refilling of argon gas cylinders	Recurring	MLP 231832	20
131	Refilling of Hydrogen gas cylinders	Recurring	MLP 231832	10
132	Repairing of hydraulic presses	Recurring	MLP 231832	2
133	Ferrocene	Recurring	MLP 231832	2 kg
134	Quartz tube	Recurring	MLP 231832	1
135	Refilling of CO2 gas cylinders	Recurring	MLP 231832	One
136	Fabrication of die mould	Recurring	MLP 231832	One
137	Miscellaneous - Emergent chemical, urgent repairing, batteries, minor fabrication or job work, stationary. etc	Recurring	MLP 231832	
138	Testing of samples	Recurring	MLP 231832	As per requirement
139	Aramid fiber cloth	Recurring	MLP 231832	20 square meter
140	Fabrication of CNT sheet stretching assembly	Recurring	MLP 231832	One
141	Copper foil	Recurring	MLP 231832	25mm x1000 mm
142	Furance heating rods	Recurring	MLP 231832	6 Nos
143	Alumina reactor	Recurring	MLP 231832	1
144	ASE Surfactant	Recurring	MLP 231832	As per requirement
145	Triethylene tetraamine	Recurring	MLP 231832	2 x 500
146	Polymer sheets	Recurring	MLP 231832	As per requirement
147	Vacuum Oil	Recurring	MLP 231832	10
148	Syringes	Recurring	MLP 231832	100
149	Polyethyleneimine	Recurring	MLP 231832	250 ml
150	Gallium alloy	Recurring	MLP 231832	100 gm
151	Multimeter	Recurring	MLP 231832	2Nos
152	Glass woolen	Recurring	MLP 231832	As per requirement
153	Repairing of furnace	Recurring	MLP 231832	One Nos
154	Buffing Wheel, Cutter	Recurring	MLP 231832	As per requirement
155	Fabarication of electrical conductivity measurement set-up	Recurring	MLP 231832	One
156	Submerisble pumps	Recurring	MLP 231832	6 Nos
157	Thermocouples	Recurring	MLP 231832	4 Nos
158	Poly(dimethylsiloxane)	Recurring	MLP 231832	500 gm
159	Epoxy and Hardener	Recurring	MLP 231832	As per requirement
160	Liquid Silicon rubber	Recurring	MLP 231832	2 kg
161	TEM grids	Recurring	MLP 231832	As per requirement
162	Fabrication of Chamber for the modification of existing CVD set-up	Recurring	MLP 231832	As per requirement
163	Cutting of samples	Recurring	MLP 231832	As per requirement
164	Filtration membrane as fine cloths, nylon, teflon, glass fiber	Recurring	MLP 231832	As per requirement
165	Fabrication of set-up for production of CNT paper of size 1 m x1 m at batch sacle	Non- Recurring	MLP 231832	One

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166	Fabrication of set-up for production of CNT paper roll at semicontinuous scale	Non- Recurring	MLP 231832	One
167	Vacuum Pumps	Non- Recurring	MLP 231832	Two
168	Homogeniser	Non- Recurring	MLP 231832	One
169	Source meter and its accessories	Non- Recurring	MLP 231832	One
170	Syringe Pumps	Non- Recurring	MLP 231832	Two
171	Customized workstation with UPS	Non- Recurring	OLP 235732	1
172	PLD targets	Recurring	GAP 230132	As per requirement
173	Turbo Molecular Pump HiPace 80	Non- Recurring	GAP 230132	1
174	Penetration Test Cell	Non- Recurring	MLP 201232	7
175	Closed Cycle Cry cooler (CCR) for resistivity	Non- Recurring	OLP 235832	1
176	Low Liquid Flow Measurement system	Non- Recurring	MLP 211632	1
177	Magnesium carbonate 98%, (Alfa Aesar)	Recurring	GAP 200232	5000 gm
178	Lithium carbonate 99%, (Alfa Aesar)	Recurring	GAP 200232	2Kg
179	Stannic Oxide, LR, (Thomas Baker)	Recurring	GAP 200232	500gm
180	Zinc sheet 12"x48"	Recurring	GAP 200232	5 Sheet
181	Magnesium Ribbon L 1mtr, width 10mm	Recurring	GAP 200232	100 unit
182	Microcentrifuge tubes 2.0 ml 500/pack	Recurring	GAP 200232	1 Pack
183	Silicon tube OD: 9mm	Recurring	GAP 200232	10 meter
184	membrane syringe filter 0.45 micron, 100/pack	Recurring	GAP 200232	1 Pack
185	Silicon Grease, 1 Kg, temp upto 260 C	Recurring	GAP 200232	1 Kg
186	Teflon tape, width: 0.5 inch, length:10 mtr.	Recurring	GAP 200232	100 units
187	Solder wire (flux cored activated, width: 0.8-1.00mm, 1Kg	Recurring	GAP 200232	1 Kg
188	Sand paper (Silicon carbide), Grit Size 220	Recurring	GAP 200232	100 Unit
189	Helium gas (Purity: 99.999%) gas Qty : 7m3 (Cyl. Size: 47 ltr)	Recurring	GAP 114732	1 Nos. (7m3)
190	CO2 gas (Purity : 99.99%) (Cyl. Size: 47 ltr.)	Recurring	GAP 114732	1 Nos. (7m3)
191	oxygen gas (Purity: 99.996%) (Cyl. Size : 47 ltr.)	Recurring	GAP 114732	1 Nos. (7m3)
192	Europium Nitrate	Recurring	SSP 220132	2
193	Europium powder	Recurring	SSP 220132	1
194	Europium(iii) Chloride hexahydrate, 99.99%	Recurring	SSP 220132	4
195	Thenoyltrifluoroacetone, 99%	Recurring	SSP 220132	2
196	Tris (8-Hydroxyquinoline) Aluminium, 99.99%	Recurring	SSP 220132	1
197	8- Hydroxyquinoline, 99%	Recurring	SSP 220132	1
198	Walk-in type environmental chamber	Non- Recurring	GAP 181132	1
199	Multi-Gas Calibrator	Non- Recurring	GAP 181132	1
200	Ozone Transfer Standard	Non- Recurring	GAP 181132	1
201	Ozone Analyser	Non- Recurring	GAP 181132	1
202	Zero Air Generator	Non- Recurring	GAP 181132	1
203	Computer	Non- Recurring	GAP 181132	7
204	Desktop UPS	Non- Recurring	GAP 181132	7
205	Router/Switches	Non- Recurring	GAP 181132	4
206	Network multipurpose printer	Non- Recurring	GAP 181132	1
207	Workstation	Non- Recurring	GAP 181132	1
208	Overhead Projector with smart screen	Non- Recurring	GAP 181132	1
209	Network UPS	Non- Recurring	GAP 181132	1
210	Digital Multimeter	Non- Recurring	GAP 181132	2

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211	Clamp meter	Non- Recurring	GAP 181132	8
212	Digital barometer	Non- Recurring	GAP 181132	2
213	Digital temp. and humidity meter	Non- Recurring	GAP 181132	2
214	Digital mass flow controller	Non- Recurring	GAP 181132	3
215	Variable AC Source	Non- Recurring	GAP 181132	1
216	5.5 KVA Online UPS with 2.5 hours backup for the secondary ozone standard lab	Non- Recurring	GAP 181132	1
217	FTIR (including vacuum pump) , Customised gas cells of variable optical path length (0.3 to 1 m, 1m to 6m and 40 m optical path length)	Non- Recurring	GAP 181132	1
218	Customised testing, calibration & certification facility for OCEMS and CAAQMS	Non- Recurring	GAP 181132	1
219	Water Vapor Generator	Non- Recurring	GAP 181132	1
220	Field test/PM CEMS test facility	Non- Recurring	GAP 181132	1
221	FTIR purge gas generator	Non- Recurring	GAP 181132	1
222	Gas regulator	Non- Recurring	GAP 181132	5
223	Funtion Generator	Non- Recurring	GAP 181132	1
224	High Performance Power Supply	Non- Recurring	GAP 181132	2
225	ESD Work Bench	Non- Recurring	GAP 181132	1
226	Micro-balance with chamber and electrostatic neutralizer	Non- Recurring	GAP 181132	1
227	FRM sampler	Non- Recurring	GAP 181132	2
228	Aerosol Particle Spectrometer (APS) with Counter	Non- Recurring	GAP 181132	1
229	Electrical Low Pressure Impactor Sampler	Non- Recurring	GAP 181132	1
230	Microwave digestion system	Non- Recurring	GAP 181132	1
231	IC (Ion Chromatography)	Non- Recurring	GAP 181132	1
232	Volumetric flow system	Non- Recurring	GAP 181132	1
233	Liquid Nitrozen Contener (20 ltr)	Non- Recurring	GAP 181132	2
234	Stereo microscope	Non- Recurring	GAP 181132	1
235	Vacuum filter assembly	Non- Recurring	GAP 181132	1
236	Vaccume cleaner	Non- Recurring	GAP 181132	1
237	Assorted types of Cartridges	Recurring	GAP 181132	10
238	Tools (misc)	Recurring	GAP 181132	4
239	Misc. items	Recurring	GAP 181132	As per Requirement
240	Assorted Electronics components	Recurring	GAP 181132	As per Requirement
241	LabVIEW Professional Edition (1 User)	Recurring	GAP 181132	1
242	Matlab 2020 (2 users)	Recurring	GAP 181132	1
243	Charcoal Unit for Charcoal scrubber for ZNV-7 Zero Air Generator	Recurring	GAP 181132	4
244	Compressor/ pump for PAG 003 ZERO AIR GENERATOR (including service/installation charges)	Recurring	GAP 181132	1
245	Fixtures & Fittings	Recurring	GAP 181132	As per Requirement
246	Sulfur Dioxide in Nitrogen (Nominal Amount-of-Substance Fraction 1000 μ mol/mol)	Recurring	GAP 181132	2
247	Carbon Monoxide in Nitrogen (Nominal Amount-of-Substance Fraction 1000 μ mol/mol)	Recurring	GAP 181132	2
248	Carbon Dioxide in Nitrogen (Nominal Amount-of-Substance Fraction 7 % mol/mol)	Recurring	GAP 181132	2

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249	Nitric Oxide in Nitrogen (Nominal Amount-of-Substance Fraction 1000 $\mu\text{mol/mol}$)	Recurring	GAP 181132	2
250	Nitrous Oxide in Air (Nominal Amount-of-Substance Fraction 1 $\mu\text{mol/mol}$)	Recurring	GAP 181132	2
251	HCl	Recurring	GAP 181132	2
252	TOC	Recurring	GAP 181132	2
253	Oxygen in Nitrogen (Nominal Amount-of-Substance Fraction 21 % mol/mol)	Recurring	GAP 181132	2
254	NH ₃	Recurring	GAP 181132	2
255	Propane in Air (Nominal Amount-of-Substance Fraction 500 $\mu\text{mol/mol}$)	Recurring	GAP 181132	2
256	Nitrogen gas (99.999 purity)	Recurring	GAP 181132	4
257	Spare parts for Teledyne Zero air generator model no. 701	Recurring	GAP 181132	1
258	Digital Pressure sensor	Recurring	GAP 181132	5
259	Solenoid valve	Recurring	GAP 181132	5
260	Pressure gauge	Recurring	GAP 181132	2
261	Repair of UPS	Recurring	GAP 181132	4
262	12 V DC fan	Recurring	GAP 181132	5
263	24 V DC fan	Recurring	GAP 181132	5
264	Software for electronic circuit and PCB design	Recurring	GAP 181132	1
265	BTEX	Recurring	GAP 181132	2
266	MALT 5 software	Recurring	GAP 181132	1
267	HITRAN PC software	Recurring	GAP 181132	As per Requirement
268	Cryogenic Gloves	Recurring	GAP 181132	2
269	Desiccator	Recurring	GAP 181132	1
270	High-purity Sb ₂ Se ₃ sputtering target	Recurring	MLP 211732	1
271	n- and p-type 3 inch size Si(100) and Si (111) substrates etc	Recurring	MLP 211732	As per requirements
272	Conducting silver epoxy, silver paste, silver paints etc	Recurring	MLP 211732	As per requirements
273	Single crystals of 2D materials such as MoSe ₂ , WSe ₂ , MoTe ₂ , WTe ₂ etc	Recurring	MLP 211732	As per requirements
274	DC micro-positioner	Recurring	MLP 211732	4
275	Triaxial type Tip Holder: Spring type	Recurring	MLP 211732	4
276	Probe tips: 5-micron dia	Recurring	MLP 211732	10
277	Pulse DC power supply repair	Recurring	MLP 211732	1
278	Coaxial cables and connectors	Recurring	MLP 211732	As per requirements
279	Audio System comprising of Loudspeaker and compatible Power Amplifier	Non- Recurring	CLP 230132	1
280	6½ Digit Voltmeter	Non- Recurring	CLP 230132	1
281	CCTV Camera and associated accessories	Non- Recurring	CLP 230132	1
282	Temperature, Humidity and Barometric sensor module	Non- Recurring	CLP 230132	1
283	TMP Model No. HiPace 700 (S/N: 1456227), Controller Model No. DCU 400 (S/N: 78830929) with connecting cables (2nos) Single vacuum gauge (pfeiffer): Model No. PKR 251 (S/N: PTR26000)	Recurring	GAP 220432	One Set
284	Tera Ohm meter	Non- Recurring	MLP 231932	1
285	Standard high value resistors	Non- Recurring	MLP 231932	6
286	Capacitors standard	Non- Recurring	MLP 231932	2

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287	Ultrastable Low noise Current Amplifier	Non- Recurring	MLP 231932	1
288	Refilling of H2 gas, 5N purity, 47 Liter	Recurring	GAP 114732	5
289	Refilling of Zero Gas 5N Purity, 47 liter	Recurring	GAP 114732	19
290	Refilling of O2 commercial grade , 47 ltr	Recurring	GAP 114732	1
291	Thermal Imager	Non-Recurring	NWP 100	1
292	Moisture Meter	Non-Recurring	NWP 100	1
293	Temperature Oven	Non-Recurring	NWP 100	1
294	Dewar flask for ice point (02 no's)	Non-Recurring	NWP 100	2
295	Pyrometer	Non-Recurring	NWP 100	1
296	Hygrometer	Non-Recurring	NWP 100	1
297	Anti-vibration table	Non-Recurring	NWP 100	2
298	UPS, 5 kVA	Non-Recurring	NWP 100	1
299	Mass Flow Meter	Non-Recurring	NWP 100	1
300	Rotameter and other accessories and fitting	Non-Recurring	NWP 100	1
301	Air Compressor with Dryer	Non-Recurring	NWP 100	1
302	Printer (Multi Function)	Non-Recurring	NWP 100	2
303	PZT Actuator	Non- Recurring	MLP 211632	1
304	Development of primary vacuum and pressure standard in the range of < 150 kPa	Non- Recurring	MLP 211632	1
305	Precision digital thermometer (0.07 ppm) with multi-channel accessory	Non- Recurring	MLP 211632	1
306	Dynamic Pressure Calibration System	Non- Recurring	MLP 211632	1
307	Sound Level Meter Calibration Facility	Non- Recurring	MLP 211632	1
308	Mass Comparator for density, 200 g, d=0.001mg	Non- Recurring	MLP 211632	1
309	UV Radiometry Setup	Non- Recurring	MLP 211632	1
310	Acoustic Emission Measurement Facility	Non- Recurring	MLP 211632	1
311	Modernisation of Viscosity Measurement System	Non- Recurring	MLP 211632	1
312	Digital Pulse Receiver	Non- Recurring	MLP 211632	1
313	Low Liquid Flow Measurement System	Non- Recurring	MLP 211632	1
314	Phasor Measurement Unit	Non- Recurring	GAP 220132	2
315	Chemicals , Electrical, electronic and mechanical components , tools , optics (like mirrors, beam splitters, windows)	Recurring	NWP 100	As per Requirement
316	Mounts and consumables , glassware plastic wares, filtration systems, dialysis membrane etc.	Recurring	NWP 100	As per Requirement
317	Miscellaneous - High Current Cables, copper earthing strip, special connectors, high quality connecting leads, adaptors.	Recurring	NWP 100	As per Requirement
318	Glassware,	Recurring	NWP 100	As per Requirement
319	Chemicals,	Recurring	NWP 100	As per Requirement
320	Pipes, fittings, adopters, fitting tools etc.	Recurring	NWP 100	As per Requirement
321	Electrical accessories- Three phase supply, MCCBs, extension board, etc.	Recurring	NWP 100	As per Requirement
322	Standard Viscometer	Recurring	NWP 100	As per Requirement
323	Standard Viscosity Oil	Recurring	NWP 100	As per Requirement
324	Silicon Oil	Recurring	NWP 100	As per Requirement
325	Microprocessors, PID Controllers, connectors, electronic components and fabrication of electronic circuits and controllers.	Recurring	NWP 100	As per Requirement

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326	VACUUM OVEN	Non- Recurring	GAP 230232	1
327	Pens , Notebooks , Measuring Tapes, Adhesives, Folders, Ink, Envelopes , Stickers, Markers, Chalk, A4 Sheets(200-300 gsm). A4 sheets (70- 100 gsm), Chalk Boardetc	Recurring	HCP 0101	As Req
328	Color Ink & Cartridge for Printer	Recurring	HCP 0101	As Req
329	Beaker, Flask, Tissue roll, Gloves , Spatula, Filter paper, test tubes, unforeseen items for Jigyasa Class room activities etc	Recurring	HCP 0101	As Req
330	Repair work of Class room Accessories , Smartboards, Chair, tables etc	Recurring	HCP 0101	As Req
331	Windows , MS-Office etc	Recurring	HCP 0101	As Req
332	RAM, Graphic Card, Memory Cards, Cables, Pendrives, SSD , HDD, keyboard , mouse etc	Recurring	HCP 0101	As Req
333	HCl, NaCl, H ₂ SO ₄ , Vinegar, Baking Soda ,unforeseen items for Jigyasa Class room activities	Recurring	HCP 0101	As Req
334	Video/ Animation Creating , Quiz creating, mentimeter, EasyFit etc	Recurring	HCP 0101	As Req
335	Refreshments , Honorarium , Prize : Books , Educational Kits for students , Guest House Accomodation etc	Recurring	HCP 0101	As Req
336	Weighing Scale , Thermometer , Multimeter, Vernier Calliper, Hooked Spherical Metallic Balls , LED, Diode, Resistors , Transistors, Bread Boards , Micro-controller Boards , Wires , connectors , Clips, unforeseen items for Jigyasa Class room activities	Recurring	HCP 0101	As Req
337	Jumper Wire , Bread-Boards , Plastic Box, Banana Connectors , 9-V Battery with connector	Recurring	HCP 0101	As Req
338	VR Lab Projects : Software/ Animation Development, Video Content Ceation : Software , Labs , Instruments	Recurring	HCP 0101	As Req
339	Maintaining Class rooms and Jigyasa Lab , Civil Work , Electrical Work	Non-Recurring	HCP 0101	As Req
340	Lab Tables , Cupboards, Chairs , Tables , Computer tables etc	Non-Recurring	HCP 0101	As Req
341	1 KVa with 4-5 hours of backup	Non-Recurring	HCP 0101	2
342	Multifunctional machines , colour printing, composite cartridge , RAM: 1024, Min Speed per min: 21, Scanner , WiFi enabled, Cartridge Yield : 625, Yield of Ink: 1500, Duty Cycle : 30000 per month	Non-Recurring	HCP 0101	1
343	Intel Core i5 , RAM : 8GB (Expandable to 32GB or more , Storage : 1000 GB or more, Mpnitor/Display: 23.8" or more	Non-Recurring	HCP 0101	1
344	Smart Boards	Non-Recurring	HCP 0101	3
345	Battery operated Digital Multimter	Non-Recurring	HCP 0101	20
346	Lamps for calibration	Recurring	OLP 236032	As per requirement
347	Calibration of Artefacts (3 parameters)	Recurring	OLP 236032	As per requirement
348	Related Packaging, Transportation and Custom	Recurring	OLP 236032	As per requirement
349	Digital temperature and humidity meter	Non-Recurring	OLP 235932	1
350	Digital Barometer	Non-Recurring	OLP 235932	1
351	Dehumidifier	Non-Recurring	OLP 235932	1

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352	Digital multimeter (3 1/2 digit)	Non-Recurring	OLP 235932	1
353	Consumable for Teledyne Zero air generator model T701	Recurring	OLP 235932	0
354	Consumable for SRP 43	Recurring	OLP 235932	As per requirement
355	Transportation charges for the SRP 43 and one computer to and from NPL india to NIST, USA	Recurring	OLP 235932	As per requirement
356	Miscellaneous items	Recurring	OLP 235932	As per requirement
357	SRP43 upgradation charges including new electronic module, temperature and pressure sensors, auto pump and optical bench	Recurring	OLP 235932	1
358	labor charges for the upgradation of SRP 43	Recurring	OLP 235932	As per requirement
359	Storage Chamber with Accessories	Non-Recurring	HCP 52	1
360	Kjeldahl equipment	Non-Recurring	HCP 52	1
361	Redox flow battery consumables	Recurring	HCP 53	1
362	Sieve for vaccum filtration	Recurring	HCP 53	1
363	Nitrogen gas	Recurring	HCP 53	10
364	helium gas	Recurring	HCP 53	1
365	PTAA	Recurring	HCP 53	100 mg
366	Lead (II) Bromide	Recurring	HCP 53	5 g
367	2-Propanol	Recurring	HCP 53	100 ml
368	Methylammonium bromide	Recurring	HCP 53	10 g
369	Ethyl Acetate anhydrous	Recurring	HCP 53	100 ml
370	1,2-Dichlorobenzene	Recurring	HCP 53	1L
371	1,4,5,8-Naphthalenetetracarboxylic dianhydride	Recurring	HCP 53	25 g
372	Methanol	Recurring	HCP 53	1L
373	Tetrahydrofuran	Recurring	HCP 53	1L
374	Phosphoric acid	Recurring	HCP 53	25 g
375	Sodium tungstate dihydrate	Recurring	HCP 53	25g
376	Iron nitrate nonahydrate	Recurring	HCP 53	10g
377	4,4'-bipyridine	Recurring	HCP 53	25g
378	Copper (II) acetate monohydrate	Recurring	HCP 53	10g
379	Trimesic acid	Recurring	HCP 53	100g
380	Phosphomolybdic acid hydrate	Recurring	HCP 53	10g
381	Zinc Bromide	Recurring	HCP 53	500 g
382	potassium Chloride	Recurring	HCP 53	500 g
383	Zinc Chloride	Recurring	HCP 53	500 g
384	potassium iodide	Recurring	HCP 53	200 g
385	ammonium chloride	Recurring	HCP 53	500 g
386	vanadium sulphate	Recurring	HCP 53	200 g
387	Zirconium chloride	Recurring	HCP 53	200 g
388	isophthalic acid	Recurring	HCP 53	500 g
389	sulphuric acid	Recurring	HCP 53	5 lit
390	carbon fiber	Recurring	HCP 53	2 kgs
391	ammonia solution (NH4OH)	Recurring	HCP 53	5 lit
392	carbon felt	Recurring	HCP 53	1 sq meter
393	DC power supply for Redox Flow battery	Non- Recurring	HCP 53	1
394	Accessories for RFB workstation	Non- Recurring	HCP 53	1
395	Digital Hygrometer	Non- Recurring	GAP 220232	3

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396	Leak Test Detector	Non- Recurring	GAP 220232	1
397	Bellow Iron set	Non- Recurring	GAP 220232	2
398	Barometric Pressure Sensor with display	Non- Recurring	GAP 220232	3
399	Nitrogen regulators & Fittings	Non- Recurring	GAP 220232	2
400	Oxygen Analyzer	Non- Recurring	GAP 220232	3
401	Headphone , Speaker , Hard disk	Recurring	GAP 220132	As per Req.
402	Wafers of Sapphire, SiC, Germanium, etc.	Recurring	MLP 211732	As per requirements
403	TEM Grid, Carbon & Copper Tapes, Diamond scribber	Recurring	MLP 211732	As per requirements
404	Vacuum components like Flanges, Valves, View port, sample holder, etc.	Recurring	MLP 211732	As per requirements
405	Quartz tube, Alumina boats, etc.	Recurring	MLP 211732	As per requirements
406	Poster & Banner print	Recurring	MLP 211732	As per requirements
407	Misc and unforeseen	Recurring	MLP 211732	As per requirements
408	Reference Solar cells	Non-Recurring	GAP 170432	5
409	capacitance meter	Non-Recurring	GAP 170432	1
410	lock-in amplifier	Non-Recurring	GAP 170432	1
411	Spectrometer/spectroradiometer	Non-Recurring	GAP 170432	1
412	Power supply	Non-Recurring	GAP 170432	1
413	Optical Bench	Non-Recurring	GAP 170432	1
414	fabrication of bus bar with current converter	Recurring	GAP 170432	5
415	modification of humidity chamber	Recurring	GAP 170432	1
416	Electrical Cables, DBs, MCBs	Recurring	GAP 170432	as per requirement
417	gases	Recurring	GAP 170432	as per requirement
418	Insulating sheets	Recurring	GAP 170432	as per requirement
419	Power supply PCB	Recurring	GAP 170432	1
420	Refilling of precursor bottles/cylinders	Recurring	GAP 170432	3
421	gas line cabinet	Recurring	GAP 170432	1
422	UPS repairs	Recurring	GAP 170432	2
423	earthing	Recurring	GAP 170432	3
424	IR lamps	Recurring	GAP 170432	25
425	LED sources	Recurring	GAP 170432	5
426	Fabriation of 4" to 6" adapter with ISO flanges	Recurring	GAP 170432	1
427	Sun attenuator	Recurring	GAP 170432	1
428	Crystals (for FHG, SHG, THG, FHG and OPO), Femto-second Optics, Admixture	Recurring	GAP 170432	as per requirement
429	repair of compressors/dry air gernerators	Recurring	GAP 170432	4
430	Computer accessories	Recurring	GAP 170432	as per requirement
431	fabrication of gas cabinet	Recurring	GAP 170432	as per requirement
432	bus-bar assembly for solar simulator	Recurring	GAP 170432	1
433	Fabrication of Lamp housing (water cooled)	Recurring	GAP 170432	1
434	Upgradation of Chamber for water cooling with collar	Recurring	GAP 170432	1
435	dehumidifier	Recurring	GAP 170432	1
436	AMC	Recurring	GAP 170432	1
437	Clean Air Booth	Recurring	GAP 170432	1
438	Repair of EL system (MBJ)	Recurring	GAP 170432	1
439	Fabriation of 6" adapter for CF to ISO as per design	Recurring	GAP 170432	1
440	Repair of chiller (Sumex)	Recurring	GAP 170432	1
441	Miscellaneous	Recurring	GAP 170432	as per requirement

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442	Replacement of Batteries	Recurring	GAP 170432	100
443	fabrication of frame	Recurring	GAP 170432	1
444	PU tubing accessories	Recurring	GAP 170432	as per requirement
445	Repair of Display	Recurring	GAP 170432	1
446	blowers	Recurring	GAP 170432	2
447	Tool boxes	Recurring	GAP 170432	2
448	Stannic iodide (SnI4) 5g	Recurring	SSP 220132	1
449	1-Octadecene (technical grade, 90%) 1L	Recurring	SSP 220132	1
450	Equivalent sampler (TEOM)	Non-Recurring	GAP 181132	1
451	Temperature, humidity, Pressure, wind speed and direction, solar radiation meter, (weather station)	Non-Recurring	GAP 181132	1
452	Isokinetic inlets, PM dilution system, Automatic ball valve (2 and 3 way), proportional solenoid valve (Air flow controlling system), conductive tubing and Swagelok fittings	Recurring	GAP 181132	as per requirement
453	Connectors, Cables and other relevant accessories	Recurring	OLP 236132	10
454	Multi Product Calibrator	Non-Recurring	OLP 236132	1
455	High Resistance Decade box or Substituter	Non-Recurring	OLP 236132	1
456	Chemicals	Recurring	GAP 180732	as per requirement
457	Pellet making Die set	Recurring	GAP 180732	as per requirement
458	Mortar Pestle	Recurring	GAP 180732	as per requirement
459	computer accessories	Recurring	GAP 180732	as per requirement
460	Hard disk/Pendrive	Recurring	GAP 180732	as per requirement
461	Sample Packaging bottle/ boxes	Recurring	GAP 180732	as per requirement
462	Cartridge	Recurring	GAP 180732	as per requirement
463	Other lab consumable	Recurring	GAP 180732	as per requirement
464	Sputtering targets	Recurring	GAP 180732	as per requirement
465	Substrates	Recurring	GAP 180732	as per requirement
466	Substrate cutting tools	Recurring	GAP 180732	as per requirement
467	Glassware	Recurring	GAP 180732	as per requirement
468	Plasticware	Recurring	GAP 180732	as per requirement
469	Silver Paste	Recurring	GAP 180732	as per requirement
470	Aluminium Foil	Recurring	GAP 180732	as per requirement
471	Stationary (Pen, Pencils, Marker, A4 paper, Stapler/Stapler-pin, etc.)	Recurring	GAP 180732	as per requirement
472	Alumina items (crucible, tray, etc.)	Recurring	GAP 180732	as per requirement
473	Tissue Paper/Box	Recurring	GAP 180732	as per requirement
474	Butter Paper	Recurring	GAP 180732	as per requirement
475	Registers, File Foldres	Recurring	GAP 180732	as per requirement
476	Gloves	Recurring	GAP 180732	as per requirement
477	Printing Charges	Recurring	GAP 180732	as per requirement
478	Force comparator with coil*	Non-Recurring	HCP 55	1
479	Permanent Magnet system*	Non-Recurring	HCP 55	1
480	Optics, Laser (primary realization option) + Laser Interferometer measurement system	Non-Recurring	HCP 55	4 sets
481	Vacuum system, Translation Stages, Mechanics*	Non-Recurring	HCP 55	1
482	Sensors and control electronics	Non-Recurring	HCP 55	1

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483	Precision voltmeters	Non-Recurring	HCP 55	4
484	Programmable current sources	Non-Recurring	HCP 55	4
485	FG5 (absolute gravimeter), CG5 (relative gravimeter)	Non-Recurring	HCP 55	1
486	15 t crane and other accessories.	Non-Recurring	HCP 55	1
487	PJVS, QHR systems (PJVS Device + Cryostat, QHR cryostat + superconducting magnet) existing measuring electronics can be used	Non-Recurring	HCP 55	1
488	High precision resistors with air bath	Non-Recurring	HCP 55	1
489	Branded work station (one) and Branded PC (two)	Non-Recurring	HCP 55	1
490	Creation of laboratory with precision mounting and environment control system	Non-Recurring	HCP 55	1
491	Low noise current source	Non-Recurring	HCP 55	1
492	Nano-voltmeter	Non-Recurring	HCP 55	1
493	SPRTs (Capsule and Long-Stem)	Non-Recurring	HCP 55	2, 2
494	¼ inch Microphones (08 nos) and Loudspeakers (04 nos) 1-100 kHz	Non-Recurring	HCP 55	4
495	Pre-amplifiers (05 nos)	Non-Recurring	HCP 55	5
496	Actuator Supply (05 nos)	Non-Recurring	HCP 55	5
497	Acoustic Analyzer (two channel), 1-100 kHz	Non-Recurring	HCP 55	1
498	Waveform generator (100 kHz) and DAQ	Non-Recurring	HCP 55	1
499	Microwave Probes (08 nos) – Specially developed	Non-Recurring	HCP 55	8
500	Vector Network Analyzer (up to 40 GHz)	Non-Recurring	HCP 55	1
501	Fabrication of copper cylindrical resonator, pressure vessel and assembly	Non-Recurring	HCP 55	1
502	Digital pressure indicator -	Non-Recurring	HCP 55	2
503	Cartridge Heaters at resonator- pressure vessel and RTDs	Non-Recurring	HCP 55	2, 2
504	High precision digital thermometer	Non-Recurring	HCP 55	1
505	10 MHz frequency counter	Non-Recurring	HCP 55	1
506	Data acquisition IEEE GPIB cables and Labview software and DAQs	Non-Recurring	HCP 55	1 set
507	Lock-in-amplifier	Non-Recurring	HCP 55	1
508	LN2 circulator bath	Non-Recurring	HCP 55	1
509	Low temperature circulating bath (-80 °C)	Non-Recurring	HCP 55	1
510	T.P. of Argon with realization apparatus	Non-Recurring	HCP 55	1
511	Furnace for Cylindrical cavity resonator (1000 oC)	Non-Recurring	HCP 55	1
512	High temperature blackbody fixed points with furnace up to 3000 oC	Non-Recurring	HCP 55	1
513	Linear Spectral Pyrometer/Filter radiometer	Non-Recurring	HCP 55	1
514	Vibration free optical table and mounting accessories	Non-Recurring	HCP 55	2
515	81/2 DMM/ Potentiostat/ Source meter	Non-Recurring	HCP 55	1
516	(2P-2T Humidity Generator and Dew Point Hygrometer)	Non-Recurring	HCP 55	1
517	Two stage oil sealed Rotary vacuum pump	Non-Recurring	HCP 55	2
518	Racks and Mounting systems for measurement units- 04 nos	Non-Recurring	HCP 55	2

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519	Equipment for Digital SI	Non-Recurring	HCP 55	4
520	UHV deposition chamber based sputtering system	Non-Recurring	HCP 55	1
521	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
522	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
523	Electro Optic Modulators	Non-Recurring	HCP 55	3
524	RF Drives and Amplifiers	Non-Recurring	HCP 55	3
525	Acousto-optic modulators	Non-Recurring	HCP 55	4
526	Vacuum Pumps, gauges & accessories	Non-Recurring	HCP 55	2
527	Frequency synthesizer/Function generator	Non-Recurring	HCP 55	4
528	Clock Laser with ULE cavity with accessories	Non-Recurring	HCP 55	1
529	PMT detector	Non-Recurring	HCP 55	1
530	CCD/CMOS camera	Non-Recurring	HCP 55	1
531	Fast Photodiode	Non-Recurring	HCP 55	1
532	Nominal and small/minor equipment electrical, optical & fiber	Non-Recurring	HCP 55	1
533	Gaussmeter/Teslameter	Non-Recurring	HCP 55	1
534	Power/Energy meter	Non-Recurring	HCP 55	3
535	Optical isolator	Non-Recurring	HCP 55	4
536	Fabry Perot interferometer & controller, accessories	Non-Recurring	HCP 55	1
537	Photodetectors	Non-Recurring	HCP 55	4
538	Oscilloscopes	Non-Recurring	HCP 55	3
539	DC power supplies	Non-Recurring	HCP 55	2
540	Beam profiler	Non-Recurring	HCP 55	1
541	Laser and Wavemeter	Non-Recurring	HCP 55	1
542	Time Tagger	Non-Recurring	HCP 55	1
543	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
544	Wavelength meter with switch	Non-Recurring	HCP 55	1
545	RF spectrum analyzer upto 13.7 GHz	Non-Recurring	HCP 55	1
546	Turbo molecular pump	Non-Recurring	HCP 55	1
547	Microwave Cavities	Non-Recurring	HCP 55	2
548	IR Viewer	Non-Recurring	HCP 55	1
549	CCD Camera	Non-Recurring	HCP 55	1
550	Power meter for upto 4 W power	Non-Recurring	HCP 55	1
551	Mixed domain oscilloscope	Non-Recurring	HCP 55	1
552	Tunable microwave synthesizer	Non-Recurring	HCP 55	1

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553	Fabry-Perot Interferometer	Non-Recurring	HCP 55	1
554	Regulated DC Power Supplies	Non-Recurring	HCP 55	4
555	Workstations	Non-Recurring	HCP 55	2
556	Function generator	Non-Recurring	HCP 55	2
557	Environment monitors	Non-Recurring	HCP 55	2
558	Data logger	Non-Recurring	HCP 55	1
559	Data Acquisition Cards with Labview software	Non-Recurring	HCP 55	2
560	Shutters	Non-Recurring	HCP 55	6
561	Vacuum-air transfer system (Vacuum chamber/container, pumps, gauges, etc.	Non-Recurring	HCP 55	1
562	Weighing balances	Non-Recurring	HCP 55	1
563	Volume/density measurement system	Non-Recurring	HCP 55	1
564	Standards weights – 1 kg, E0/E1 class	Non-Recurring	HCP 55	4
565	Standards weights – 1 mg to 50 kg, E0/E1 class	Non-Recurring	HCP 55	1
566	Roundness machine - non-contact	Non-Recurring	HCP 55	1
567	Length Measuring Machine	Non-Recurring	HCP 55	1
568	Laser Interferometer (Pico Meter Distance Measurement.	Non-Recurring	HCP 55	1
569	CCD/CMoS camera	Non-Recurring	HCP 55	5
570	Powder X-ray diffractometer	Non-Recurring	HCP 55	1
571	Environmental monitoring system (data logger)	Non-Recurring	HCP 55	6
572	Work stations	Non-Recurring	HCP 55	5
573	Minor equipments (DC Power Supply, Jigs and Fixtures for holding the Si sphere, etc)	Non-Recurring	HCP 55	1
574	1. QHRS System Comprising (1) 12T Superconducting magnet (2) variable Temperature insert having 12 pin TO8 (3) provision for VTI (4) Compatible cryogenic temperature controller (5) DCC resistance bridge (6)DRY scroll pump to achieve (7) QHR Devices (i) GaAs/AlGaAsbased & (ii) Graphene based	Non-Recurring	HCP 55	1
575	Integrated Confocal Raman spectroscopy/micro-Raman Mapping - Multimode AFM system with accessories	Non-Recurring	HCP 55	1
576	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
577	Source measuring Units, Current source & nanovoltmeter	Non-Recurring	HCP 55	1 Each
578	Closed Cycle Refrigerator (CCR, 4.2 K-350 K)	Non-Recurring	HCP 55	1
579	Turbo molecular pump with backing pump and accessories	Non-Recurring	HCP 55	2
580	Two wavelength/Dual colour infrared optical pyrometer capable of measuring temperatures \geq 2000 OC with interfacing kit	Non-Recurring	HCP 55	1
581	Throttle valve with controller and accessories	Non-Recurring	HCP 55	1

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582	Digital Oscilloscope (for initiating SQUID measurements in the CCC)	Non-Recurring	HCP 55	1
583	Thermally Stabilized Travelling Resistance Standards (1-1 Mohm)	Non-Recurring	HCP 55	1 Each (Total 6)
584	PRT Thermometer with digital readout	Non-Recurring	HCP 55	2
585	High Precision Dual Channel Thermo-Hygrometer/ logger	Non-Recurring	HCP 55	2
586	JAWS chip Standalone 2V	Non-Recurring	HCP 55	1
587	Compatible Probe	Non-Recurring	HCP 55	1
588	Liquid Helium Dewar	Non-Recurring	HCP 55	1
589	Waveform Generator 30 MHz	Non-Recurring	HCP 55	1
590	High Speed Arbitrary Waveform Generators	Non-Recurring	HCP 55	1
591	2 Channel Broadband 50 GHz Modulator Driver/RF Amplifier	Non-Recurring	HCP 55	1
592	High Speed Counter Control AWG 4-channel isolated, prog. amplifier	Non-Recurring	HCP 55	1
593	Broadband Digitiser with high sampling rate	Non-Recurring	HCP 55	1
594	Thermal Transfer Standard	Non-Recurring	HCP 55	1
595	AC voltmeter	Non-Recurring	HCP 55	1
596	Cryocooler	Non-Recurring	HCP 55	1
597	High Speed workstation	Non-Recurring	HCP 55	1
598	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
599	AC/DC QHE devices and the electronics associated with them	Non-Recurring	HCP 55	6
600	High Precision Impedance (R /L/C) standards	Non-Recurring	HCP 55	4
601	Data Acquisition/PXI Cards	Non-Recurring	HCP 55	4
602	UPS with Isolation Transformer, 30 kVA	Non-Recurring	HCP 55	1
603	Electron beam lithography (EBL) equipment	Non-Recurring	HCP 55	1
604	Inductively coupled plasma reactive ion etching (ICP-RIE) equipment	Non-Recurring	HCP 55	1
605	Coil Winding Machine	Non-Recurring	HCP 55	1
606	Portable humidifier 2-5 liters	Non-Recurring	MLP 201232	1
607	Rotameters	Non-Recurring	MLP 201232	4
608	Penetration Test Cell	Non-Recurring	MLP 201232	1
609	Bursting strength Tester (For Gowns Testing)	Non-Recurring	MLP 201232	1
610	Pressure, temperature and humidity sensor	Non-Recurring	MLP 201232	2
611	Fluorescent spectrometer	Non-Recurring	MLP 201232	1
612	Pressure gauge (differential type)	Non-Recurring	MLP 201232	2
613	Manometer	Non-Recurring	MLP 201232	2
614	Humidifier with dry air controller	Non-Recurring	MLP 201232	1
615	Sheffield Head with sensors	Non-Recurring	MLP 201232	1
616	Volume Calibration Syringes (100 ml, 500 ml, 1000ml, 3000 ml)	Non-Recurring	MLP 201232	01 set
617	IR Thermal Imager (-50 to 200 °C) (L.C. 0.1 oC or better)	Non-Recurring	MLP 201232	01 no.

*The publication of this list shall not be construed as initiation of a procurement process and cast any obligation on CSIR-NPL to issue the bidding document or confer any right on prospective bidders (Rule 144(x) of GFR 2017).

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618	High stability liquid temperature bath (20 to 50 °C), Stability 0.01 °C along with blackbody cavities for thermal imagers and ear thermometers	Non-Recurring	MLP 201232	01 No
619	Fabrication of blackbody cavities, high emissivity black paint for the cavities, liquid for bath, etc	Non-Recurring	MLP 201232	01 Set
620	Clinical IR Thermal Imagers/Scanners (02 nos)	Non-Recurring	MLP 201232	1 Set

UPDATED AS ON SEP 12 , 2023

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