

## NPL's Externally Funded Project Procurement Plan as on Oct 06 , 2023

( Externally Funded) NON-CONSUMABLE (Below Rs. 5.00 lakh)			
S.No.	Project No.	Item Name	Qty.
1	TSP 180932	Multifunctional Printers	10
2	GAP 150132	Rubidium Frequency Standard	1
3	GAP 150132	GNSS receiverwith accessories	2
4	GAP 181132	Ozone Analyser	1
5	GAP 181132	Desktop UPS	7
6	GAP 181132	Router/Switches	4
7	GAP 181132	Network multipurpose printer	1
8	GAP 181132	Workstation	1
9	GAP 181132	Overhead Projector with smart screen	1
10	GAP 181132	Network UPS	1
11	GAP 181132	Digital Multimeter	2
12	GAP 181132	Digital temp. and humidity meter	2
13	GAP 181132	Digital mass flow controller	3
14	GAP 181132	Variable AC Source	1
15	GAP 181132	5.5 KVA Online UPS with 2.5 hours backup for the secondary ozone standard lab	1
16	GAP 181132	Gas regulator	5
17	GAP 181132	Funtion Generator	1
18	GAP 181132	High Performance Power Supply	2
19	GAP 181132	ESD Work Bench	1
20	GAP 181132	Volumetric flow system	1
21	GAP 181132	Liquid Nitrozen Contener (20 ltr)	2
22	GAP 181132	Streo microscope	1
23	GAP 181132	Vacuum filter assembly	1
24	GAP 181132	Vaccume cleaner	1
25	CLP 230132	Audio System comprising of Loudspeaker and compatible Power Amplifier	1
26	CLP 230132	6½ Digit Voltmeter	1
27	CLP 230132	CCTV Camera and associated accessories	1
28	CLP 230132	Temperature, Humidity and Barometric sensor module	1
29	GAP 220132	Phasor Measurement Unit	2
30	GAP 230232	VACUUM OVEN	1
31	GAP 220232	Digital Hygrometer	3
32	GAP 220232	Leak Test Detector	1
33	GAP 220232	Bellow Iron set	2
34	GAP 220232	Barometric Pressure Sensor with display	3
35	GAP 220232	Nitrogen regulators & Fittings	2
36	GAP 230432	Ultrasonic Bath	1
37	GAP 230432	Vacuum filtration assembly	2
38	GAP 230432	Laboratory furnace accessories	1

(Externally Funded) NON - CONSUMABLE ( Above Rs. 5.00 lakh)				
S.No	Project No.	Item Name	QTY	Est. Cost
1	TSP 180932	Furniture for traceability Lab	1	<b>5.50</b>
2	TSP 180932	Antenna control unit	1	<b>6.60</b>

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3	TSP 180932	Works and services for IT	1	5.50
4	TSP 180932	Furniture for RRSLs and DRC	6	9.00
5	TSP 180932	TWSTFT equipment	1	150.00
6	TSP 180932	AC systems, UPS and batteries	5	100.00
7	TSP 180932	Other time scale equipment	5	60.00
8	TSP 180932	Office Computers	20	25.00
9	GAP 230132	Turbo Molecular Pump HiPace 80	1	5.90
10	GAP 181132	Walk-in type environmental chamber	1	163.00
11	GAP 181132	Multi-Gas Calibrator	1	20.00
12	GAP 181132	Ozone Transfer Standard	1	10.78
13	GAP 181132	Zero Air Genrator	1	8.05
14	GAP 181132	Computer	7	6.98
15	GAP 181132	Clamp meter	8	8.00
16	GAP 181132	Digital barometer	2	5.20
17	GAP 181132	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)	1	165.00
18	GAP 181132	Customised testing, calibration & certification facility for OCEMS and CAAQMS	1	1744.00
19	GAP 181132	Water Vapor Generator	1	10.00
20	GAP 181132	Field test/PM CEMS test facility	1	400.00
21	GAP 181132	FTIR purge gas generator	1	20.00
22	GAP 181132	Micro-balance with chamber and electrostatic neutralizer	1	150.00
23	GAP 181132	FRM sampler	2	35.00
24	GAP 181132	Aerosol Particle Sizer Spectrometer (APS) with Counter	1	65.00
25	GAP 181132	Electrical Low Pressure Impactor Sampler	1	30.00
26	GAP 181132	Microwave digestion system	1	30.00
27	GAP 181132	IC (Ion Chromatography)	1	35.00
28	GAP 220232	Oxygen Analyzer	3	20.00
29	GAP 170432	Reference Solar cells	5	15.00
30	GAP 170432	capacitance meter	1	6.00
31	GAP 170432	lock-in amplifier	1	8.00
32	GAP 170432	Spectrometer/spectroradiometer	1	50.00
33	GAP 170432	Power supply	1	50.00
34	GAP 170432	Optical Bench	1	10.00
35	GAP 181132	Equivalent sampler (TEOM)	1	35.00
36	GAP 181132	Temperature, humidity, Pressure, wind speed and direction, solar radiation meter, (weather station)	1	15.00
			<b>Total</b>	<b>3482.51</b>

### ( Externally Funded) CONSUMABLE (Below Rs. 5.00 lakh)

S.No.	Project No.	Item Name	Qty.
1	TSP 180932	Tool Kit and Ratchet set	6

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2	TSP 180932	Crimping Tool for RG316, RG223/U	6
3	TSP 180932	Crimping Tool for LMR400.	6
4	TSP 180932	Crimping Tool for RJ45	6
5	TSP 180932	Hot Blower	6
6	TSP 180932	Power Extension Board (min. 5 socket)	15
7	TSP 180932	BNC Connectors for RG223	820
8	TSP 180932	BNC Connectors for RG316	575
9	TSP 180932	N type Connectors for RG223	125
10	TSP 180932	N type Connectors for LMR400	90
11	TSP 180932	BNC Female to BNC Female Adapters	85
12	TSP 180932	N-female to N –female adapter	85
13	TSP 180932	SMA female to SMA female adapter	85
14	TSP 180932	N-male to BNC Female adapter	85
15	TSP 180932	N-male to BNC male adapter	85
16	TSP 180932	BNC male to N –female adapter	85
17	TSP 180932	SMA male to BNC female adapter	85
18	TSP 180932	3-dB splitters (BNC)	75
19	TSP 180932	3-dB Attenuators	40
20	TSP 180932	Terminator (50 Ohm BNC)	160
21	TSP 180932	LAN Cables (2 m)	145
22	TSP 180932	LAN Cables (3 m)	350
23	TSP 180932	LAN Cables (5 m)	350
24	TSP 180932	LAN Cables (10 m)	115
25	TSP 180932	Cat6 UTP Cable Roll (m)	430
26	TSP 180932	RJ45 connectors	340
27	TSP 180932	RS232 3 core shielded Cable Roll (m)	1025
28	TSP 180932	Serial Connectors (DB9 Male)	420
29	TSP 180932	Serial Connectors (DB9 Female)	420
30	TSP 180932	Dust cap (Hood) DB9	840
31	TSP 180932	H/S sleeve (8mm) (m)	115
32	TSP 180932	H/S sleeve (3 or 4mm) (m)	115
33	TSP 180932	H/S sleeve (1.5 or 2mm) (m)	115
34	TSP 180932	Grounding Wire (Yellow or Green) 4sq m	75
35	TSP 180932	Round lug for grounding wire (M6)Nos	850
36	TSP 180932	AT-1 carrier strip (Packets)	75
37	TSP 180932	H/S sleeve (Transparent) 7mm/8mm (m)	115
38	TSP 180932	Cable tie (100mm) (packets)	75
39	TSP 180932	Cable tie (200mm) (packets)	75
40	TSP 180932	Cable tie (300mm) (packets)	45
41	TSP 180932	SMA Connectors for RG223	390
42	TSP 180932	SMA Connectors for RG316	555
43	TSP 180932	TNC type connector for RG223	55
44	TSP 180932	TNC type connector for LMR400	90
45	TSP 180932	TNC type connector for RG316	45
46	TSP 180932	BNC-female to TNC-male	80
47	TSP 180932	SMA-female to TNC-male	80
48	TSP 180932	Power cords(Nos)	70
49	TSP 180932	Operating system (Win-10 Professional, 64 bit)	6

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50	TSP 180932	Antivirus 3yrs Lic	30
51	TSP 180932	MS Office 2019	30
52	TSP 180932	Mouse USB	60
53	TSP 180932	Keyboard USB	30
54	TSP 180932	Pen drives (3.0) 32 GB	60
55	TSP 180932	USB HARD DISK Drive (3.0) 2TB	12
56	TSP 180932	Wireless USB Dongle	30
57	TSP 180932	LAN Tester	12
58	TSP 180932	Screw Driver Set (PC, Workstn)	12
59	TSP 180932	USB to HDMI Cables	30
60	TSP 180932	HDMI to HDMI Cables	12
61	TSP 180932	Mouse PADs Anti Static	60
62	TSP 180932	Maintenance of Equipment: AMC for UPS /AC / Generator/ Data logger/ CCD camera / other accessories	10
63	TSP 180932	RF cables, connectors and consumables	20
64	TSP 180932	Stationary, Staplers, label printer, and other minor components & items	20
65	TSP 180932	Video Conferencing accessories	10
66	TSP 180932	Battery and Electrical & Electronic accessories	20
67	TSP 180932	Replacement of Spare part of equipment	2
68	TSP 180932	Charges relating to organization of Meetings/ Seminars/ Workshops/ Conference / Training	1 set
69	TSP 180932	Training at ISRO for Project Team and temporary staff	1 set
70	TSP 180932	Registration and Training fee of Project Team and temporary staff	1 set
71	TSP 180932	Job work	1 set
72	TSP 180932	License (including satellite license) and fees	1 set
73	TSP 180932	Honorarium to consultants, experts and TSC members	1 set
74	TSP 180932	Job work of Printing of Reports, Tenders, Advertisements, etc	1 set
75	TSP 180932	Transportation of equipment from ISRO to RRSLs	1 set
76	TSP 180932	Poster Printing charges/ exhibition arrangements	1 set
77	TSP 180932	Internet / Telephone / Transponder charges	1 set
78	TSP 180932	Web charges and Software development fee	1 set
79	TSP 180932	Books and Standards	1 set
80	TSP 180932	Stationary	1 set
81	TSP 180932	Printing charges	1 set
82	TSP 180932	Administrative charges for Meetings /Seminars/Workshops/Conference	1 set

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83	TSP 180932	Postage and Courier charges	1 set
84	TSP 180932	Canteen and food expenses	1 set
85	TSP 180932	Hot and Cold charges	1 set
86	TSP 180932	Legal expenses/ fee to consultants, auditor and CA	1 set
87	TSP 180932	Furniture repairs and maintenance	1 set
88	TSP 180932	Miscellaneous and unforeseen	1 set
89	TSP 230132	Silver Paste	100 gm
90	TSP 230132	Refilling of Hydrogen gas cylinders	5
91	TSP 230132	Repairing of glass double water distillation unit	1
92	TSP 230132	O-rings	As per requirement
93	TSP 230132	Quartz tube	1
94	TSP 230132	Asaclean Purging compound	20kg
95	TSP 230132	Gas regulators	3
96	TSP 230132	Handheld Digital Infrared Thermometer	1
97	TSP 230132	Nylon, Teflon, Glass fiber cloth mesh	As per requirement
98	TSP 230132	Aluminum Foil (thick)	As per requirement
99	TSP 230132	Miscellaneous - Emergent chemical, cleaning brush, metal cleaner/polish (Waxpol) repairing, batteries, minor fabrication or job work, stationary etc	As per requirement
100	GAP 150132	RF connectors, RF cables, distribution boards	As per requirement
101	GAP 150132	Hard disk, RAM, router	As per req.
102	GAP 230132	PLD targets	As Per Req.
103	GAP 114732	Pump (spare) of existing NH3 Analyser	1
104	GAP 114732	Lamp (Spare) of existing SO2 Analyser	1
105	GAP 190132	Cryogenic (4K) probe for SNSPD experiments	1
106	GAP 200232	Magnesium carbonate 98%, (Alfa Aesar)	5000 gm
107	GAP 200232	Lithium carbonate 99%, (Alfa Aesar)	2Kg
108	GAP 200232	Stannic Oxide, LR, (Thomas Baker)	500gm
109	GAP 200232	Zinc sheet 12"x48"	5 Sheet
110	GAP 200232	Magnesium Ribbon L 1mtr, width 10mm	100 unit
111	GAP 200232	Microcentrifuge tubes 2.0 ml 500/pack	1 Pack
112	GAP 200232	Silicon tube OD: 9mm	10 meter
113	GAP 200232	membrane syringe filter 0.45 micron, 100/pack	1 Pack
114	GAP 200232	Silicon Grease, 1 Kg, temp upto 260 C	1 Kg
115	GAP 200232	Teflon tape, width: 0.5 inch, length:10 mtr.	100 units
116	GAP 200232	Solder wire (flux cored activated, width: 0.8-1.00mm, 1Kg	1 Kg
117	GAP 200232	Sand paper (Silicon carbide), Grit Size 220	100 Unit
118	SSP 220132	Europium Nitrate	2

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119	SSP 220132	Europium powder	1
120	SSP 220132	Europium(iii) Chloride hexahydrate, 99.99%	4
121	SSP 220132	Thenoyltrifluoroacetone, 99%	2
122	SSP 220132	Tris (8-Hydroxyquinoline) Aluminium, 99.99%	1
123	SSP 220132	8- Hydroxyquinoline, 99%	1
124	GAP 114732	Helium gas (Purity: 99.999%) gas Qty : 7m3 (Cyl. Size: 47 ltr)	1 Nos. (7m3)
125	GAP 114732	CO2 gas (Purity : 99.99%) (Cyl. Size: 47 ltr.)	1 Nos. (7m3)
126	GAP 114732	oxygen gas (Purity: 99.996%) (Cyl. Size : 47 ltr.)	1 Nos. (7m3)
127	GAP 181132	Assorted types of Cartridges	10
128	GAP 181132	Tools (misc)	4
129	GAP 181132	Misc. items	As Per Req.
130	GAP 181132	Assorted Electronics components	As Per Req.
131	GAP 181132	Matlab 2020 (2 users)	1
132	GAP 181132	Charcoal Unit for Charcoal scrubber for ZNV-7 Zero Air Generator	4
133	GAP 181132	Compressor/ pump for PAG 003 ZERO AIR GENERATOR (including service/installation charges)	1
134	GAP 181132	Nitrogen gas (99.999 purity)	4
135	GAP 181132	Spare parts for Teledyne Zero air generator model no. 701	1
136	GAP 181132	Solenoid valve	5
137	GAP 181132	Pressure gauge	2
138	GAP 181132	Repair of UPS	4
139	GAP 181132	12 V DC fan	5
140	GAP 181132	24 V DC fan	5
141	GAP 181132	MALT 5 software	1
142	GAP 181132	HITRAN PC software	As per Req.
143	GAP 181132	Desiccator	1
144	GAP 220432	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)	One Set
145	GAP 114732	Refilling of H2 gas, 5N purity, 47 Liter	5
146	GAP 114732	Refilling of Zero Gas 5N Purity, 47 liter	19
147	GAP 114732	Refilling of O2 commercial grade , 47 ltr	1
148	GAP 220132	Headphone , Speaker , Hard disk	As per Req.
149	GAP 170432	fabrication of bus bar with current converter	5
150	GAP 170432	modification of humidity chamber	1
151	GAP 170432	Electrical Cables, DBs, MCBs	As per Req.
152	GAP 170432	gases	As per Req.
153	GAP 170432	Insulating sheets	As per Req.
154	GAP 170432	Power supply PCB	1

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155	GAP 170432	gas line cabinet	1
156	GAP 170432	UPS repairs	2
157	GAP 170432	earthing	3
158	GAP 170432	IR lamps	25
159	GAP 170432	LED sources	5
160	GAP 170432	Fabriation of 4" to 6" adapter with ISO flanges	1
161	GAP 170432	Sun attenuator	1
162	GAP 170432	repair of compressors/dry air gernerators	4
163	GAP 170432	Computer accessories	as per requierment
164	GAP 170432	fabrication of gas cabinet	as per requierment
165	GAP 170432	bus-bar assembly for solar simulator	1
166	GAP 170432	Fabrication of Lamp housing (water cooled)	1
167	GAP 170432	Upgradation of Chamber for water cooling with collar	1
168	GAP 170432	dehumidifier	1
169	GAP 170432	Repair of EL system (MBJ)	1
170	GAP 170432	Fabriation of 6" adapter for CF to ISO as per design	1
171	GAP 170432	Repair of chiller (Sumex)	1
172	GAP 170432	Replacement of Batteries	100
173	GAP 170432	fabrication of frame	1
174	GAP 170432	PU tubing accessories	as per requirement
175	GAP 170432	Repair of Display	1
176	GAP 170432	blowers	2
177	GAP 170432	Tool boxes	2
178	SSP 220132	Stannic iodide (Sn14) 5g	1
179	SSP 220132	1-Octadecene (technical grade, 90%) 1L	1
180	GAP 180732	Chemicals	as per requirement
181	GAP 180732	Pellet making Die set	as per requirement
182	GAP 180732	Mortar Pestle	as per requirement
183	GAP 180732	computer accessories	as per requirement
184	GAP 180732	Hard disk/Pendrive	as per requirement
185	GAP 180732	Sample Packaging bottle/ boxes	as per requirement
186	GAP 180732	Cartridge	as per requirement
187	GAP 180732	Other lab consumable	as per requirement
188	GAP 180732	Sputtering targets	as per requirement
189	GAP 180732	Substrates	as per requirement
190	GAP 180732	Subtrate cutting tools	as per requirement
191	GAP 180732	Glassware	as per requirement
192	GAP 180732	Plasticware	as per requirement
193	GAP 180732	Silver Paste	as per requirement
194	GAP 180732	Aluminium Foil	as per requirement
195	GAP 180732	Stationary (Pen, Pencils, Marker, A4 paper,	as per requirement
196	GAP 180732	Alumina items (crucible, tray, etc.)	as per requirement
197	GAP 180732	Tissue Paper/Box	as per requirement
198	GAP 180732	Butter Paper	as per requirement
199	GAP 180732	Registers, File Foldres	as per requirement
200	GAP 180732	Gloves	as per requirement

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201	GAP 180732	Printing Charges	as per requirement
202	GAP 230632	Silicon wafers of different doping, sizes	as per requirement
203	GAP 230632	various chemicals : Such as acetone, IPA, HNO3, H2SO4, AgNO3, H2O2, KOH, Ag wires, any other required other chemicals, etc.	as per requirement
204	GAP 230632	various glasswares and polypropylene based item such as Borosil beakers of different volumes, petri dishes, etc.	as per requirement
205	GAP 230632	Nitrile gloves of (medium, small and large sizes) filter papers, Kimwipes lint free papers, Teflon made wares, etc.	as per requirement
206	GAP 230632	DI Water plant spares/consumables such cartridges, any other accessories, etc.	as per requirement
207	GAP 230632	Repair/maintenance of existing thermal evaporation system, any other unforeseen items/repair such as chiller, etc.	as per requirement
208	GAP 230632	Spare of SR -IV system such as lamp, battery of UPS, any other electronic components, etc.	as per requirement
209	GAP 230632	Making of metal masks for metal electrode deposition	as per requirement
213	GAP 230432	Expandable graphite	1
214	GAP 230432	Sodium Sulphate (Na2SO4) hydrated	1
215	GAP 230432	NMP solvent	1
216	GAP 230432	Graphene	1
217	GAP 230432	Hydrofluoric Acid HF	1
218	GAP 230432	Carbon black	1
219	GAP 230432	Graphene oxide suspension	1
220	GAP 230432	Polypropylene membrane	1pk
221	GAP 230432	Carbon Tape	1 pk
222	GAP 230432	TEM Grid	2 pk
223	GAP 230432	30% Hydrogen peroxide	1
224	GAP 230432	Vanadyl Sulphate	1
225	GAP 230432	Mortar Pestle	1
226	GAP 230432	Copper foil	1 pk
227	GAP 230432	Filter paper whatman	1 pk
228	GAP 230432	Sodium Ascorbate	1
229	GAP 230432	Forceps	1 set
230	GAP 230432	MXenes	25 gm

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S.No	Project No.	Item Name	QTY	Est. Cost
1	TSP 180932	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	1	5.00
2	TSP 180932	Audio-visual and Meeting expenses	10	5.00
3	TSP 180932	Computer Software: 1. Antivirus 2. PTP, NTP and NMS 3. Word processing 4. Any other software	10	5.00
4	TSP 180932	Computer and Printer Consumables	20	10.00
5	TSP 180932	Optical Fiber, connectors, and accessories	10	5.00
6	TSP 180932	Other consumable items	10	10.00
7	TSP 180932	RG223/U RF cable (m)	2800	8.40
8	TSP 180932	RG316 RF Cable (m)	1600	19.20
9	TSP 180932	LMR400 Cable (m)	1650	6.60
10	TSP 180932	Maintenance of office equipment	1 set	24.80
11	TSP 180932	Guest house charges including food charges	1 set	5.00
12	TSP 180932	Periodicals and books	1 set	5.00
13	TSP 180932	Office furnishings, curtains and related repairs	1 set	5.00
14	TSP 180932	Training of Project Staff	1 set	5.00
15	TSP 180932	Contract Staff (Five Skilled/ Semi Skilled and Two retired employees)	1 set	5.00
16	TSP 180932	Payment to Daily/Monthly wager	1 set	5.00
17	GAP 150132	Electronic boards and accessories	As req	5.00
18	GAP 181132	LabVIEW Professional Edition (1 User)	1	5.50
19	GAP 181132	Fixtures & Fittings	As req	10.00
20	GAP 181132	Sulfur Dioxide in Nitrogen (Nominal Amount-of-Substance Fraction 1000 µmol/mol)	2	22.00
21	GAP 181132	Carbon Monoxide in Nitrogen (Nominal Amount-of-Substance Fraction 1000 µmol/mol)	2	18.00
22	GAP 181132	Carbon Dioxide in Nitrogen (Nominal Amount-of-Substance Fraction 7 % mol/mol)	2	22.50
23	GAP 181132	Nitric Oxide in Nitrogen (Nominal Amount-of-Substance Fraction 1000 µmol/mol)	2	11.50
24	GAP 181132	Nitrous Oxide in Air (Nominal Amount-of-Substance Fraction 1 µmol/mol)	2	10.50
25	GAP 181132	HCl	2	15.00

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26	GAP 181132	TOC	2	12.00
27	GAP 181132	Oxygen in Nitrogen (Nominal Amount-of-Substance Fraction 21 % mol/mol)	2	15.00
28	GAP 181132	NH3	2	22.00
29	GAP 181132	Propane in Air (Nominal Amount-of-Substance Fraction 500 µmol/mol)	2	12.50
30	GAP 181132	Digital Pressure sensor	5	5.00
31	GAP 181132	Software for electronic circuit and PCB design	1	5.00
32	GAP 181132	BTEX	2	20.00
33	GAP 181132	Cryogenic Gloves	2	20.00
34	GAP 170432	Refilling of precursor bottles/cylinders	3	7.00
35	GAP 170432	Crystals (for FHG, SHG, THG, FHG and OPO), Femto-second Optics, Admixture	as per requierment	8.50
36	GAP 170432	AMC	1	35.00
37	GAP 170432	Clean Air Booth	1	6.00
38	GAP 170432	Miscelleneous	as per req.	5.00
39	GAP 181132	Isokinetic inlets, PM dilution system, Automatic ball valve (2 and 3 way), proportional solenoid valve (Air flow controlling system), conductive tubing and Swagelok fittings	as per req.	15.00
			<b>Total</b>	<b>437.00</b>

\* " The procurement process of items listed from Sr. No. 22 to 27 in Non-Consumable above 5.00 lakh will be initiated after due approval of funding agency"

**UPDATED AS ON OCT 06 , 2023**