

NPL Project Procurement List 2020-21 as on 04th March 2021

S.No.	Instrument Name	QTY
1	Fabrication of autoclave (Autoclave, 5 L capacity, temperature ~500C, pressure 200 bar)	1
2	Fibre melt spinning (Pitch fiber melt spinning assembly)	1
3	Furnace with PID controller (1000C)	1
4	Dropping point	1
5	Temperature controller	2
6	Scrubber	1
7	Weighing Machine	1
8	Vaccum sealing unit	1
9	Turbo pump	1
10	Vacuum Oven	1
11	Box Furnace	1
12	nanovoltmeter	1
13	Nanosource meter	1
14	Quinoline	0
15	Toluene	10
16	Acetone	40
17	Hexane	4
18	Gooch crucibles (Grade 2,3,4)	100
19	Soxhlet extraction	4
20	Gases (nitrogen and argon)	20
21	Quartz reator	3
22	Heater	2
23	Lab coat	25
24	Beakers	100
25	Beakers	20
26	Beakers	10
27	Filtering flask	5
28	Reparing of furnace	0
29	full face respirator reusable mask with cartridge	10
30	Nitrile glove	20 box
31	Reparing of UPS	0
32	Temperature indicators	5
33	Thermocouples	10
34	Alumina crucible/boat	100
35	Diamond needle File Set	3 Sets
36	mechnical Tool Box	1
37	Screwgauge	1
38	digital Verniarcalipurse	1
39	Heavy Duty C Clamp	1
40	Chemicals	As per requirement
41	Tweezer Set	4
42	Tissue	1 box (100 units)

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43	Sample Packaging bottle/ boxes	2000
44	Thermohydrometer	3
45	Graphite bar	As per requirement
46	Polishes graphite crucible	As per requirement
47	Pt crucible	As per requirement
48	Supptereing targets	As per requirement
49	Substrate	As per requirement
50	Quartz tubes	As per requirement
51	Alumina Tubes	As per requirement
52	Alumina Boat	As per requirement
53	Quartz Boat	As per requirement
54	Gas Hose, 6mm, 8mm	As per requirement
55	Water Hose	As per requirement
56	Ferul connector	As per requirement
57	Metal-meatl sealent	As per requirement
58	Push fit connector	As per requirement
59	Arealdite	As per requirement
60	lab -label printer roll	As per requirement
61	A4 size paper	12 pck
62	File stand	5
63	Pellet Pressing dyes	As per requirement
64	Thin wall SS tube	As per requirement
65	Copper tube	As per requirement
66	AC repair	1
67	Chemical Earthing	1
68	Ar Gas-12nos	12
69	Ag+H2 gas-3no.	3
70	O2 gas-4nos	4
71	N2 Gas-2nos	2
72	Repair of isturement/ computer/ printer, cartridge, methnol, acetone, IPA, eathnol, O-rings, neoprin sheet, clamps, push-fitting, centering, gas pneumatic gas pipeline, sholdering station/ iron, brass rod, copper rod, copper pipe, OHFC cooper, general stationary, cotton gloves, gloves etc.	As per requirement
73	Comsumable and chemicals (as per requirement)	As per requirement
74	Hexane	4
75	N2, Ar2 and Mixture(H2&N2) Gases	15 cyclinders
76	Glassware aparatues per requirement)	As per requirement
77	Ethyl aceate and Other solvents	10
78	Cotton, foil etc	25
79	Silica Gel	1
80	Potassium Bromide	2
81	Silver Slug	1
82	Acetone	3
83	Silver Sots	5
84	MAPbI3	5

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85	FTO Glass Plate	10
86	Titanium Target	1
87	Diethyl sulfide	4
88	Lead Iodide	3
89	P3HT	1
90	Gold Sots	As per requirement
91	Acetonitrileanhydrous	2
92	Silicon Wafer	As per requirement
93	Anisole	As per requirement
94	ITO Target	1
95	FTO Target	1
96	Computer	5
97	Work Station	5
98	Microphone for sound levelmeter	5
99	Power Amplifier	4
100	Sound Level Meter	2
101	Weather sensor with data logger	3
102	UPS	5
103	Color and Black&White Printer	5
104	Digital Storage Oscilloscope	2
105	Function Generator	3
106	Soldering station	3
107	Vibration Meter/analyser with accelometer	3
108	Digital Multimeter	5
109	Hammer Drill Machine/Drill Machine	2
110	Potentiometers	100
111	CNC laser cutting machine for laboratory use	1
112	PCB routing machine	1
113	Low cost class 2 measurement microphones	5
114	Low cost iepe accelerometers	5
115	Spectrum Analyzer /Calibration/Signal Analyzer	1
116	Headphone	2
117	Noise Mapping Software	2
118	Batteries	50
119	NI labview professional suite with all toolkits and extension	2
120	NI USB-4432 card	1
121	DAQ Card	2
122	Analog and Digital converter card	5
123	Microcontroller IC	100
124	Microcontroller PCB board and development kit	10
125	Work Station Table	10
126	Cartridge	20
127	Ring binder	100
128	Mouse	20
129	Keyboard	20

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130	Hard disk (External/Internal/HDD/SDD)	20
131	PENDRIVE (8/16/32/64/128 GB)	20
132	Minor Equipment and Computer Equipment	20
133	Electrical Insulation Pad and safety kit	10
134	Lamp	10
135	Microscope with magnifier	10
136	IoT Module with cloud	10
137	Electrical wooden Board/Modular	50
138	CPVC Pipe ± 50 mmq	100
139	Casing N Caping (50 x 16 mmq)	100
140	CPVC Coupler ± 50 mmq	500
141	CPVC Elbow $\phi 50$ mmq	500
142	Tool Box	5
143	Drill Bit	50
144	Nail/Screw 1 inch, 1.5 inch and 2 inches	5000
145	All type operating system (Window 10, Window 8, Window XP)	20
146	Driver unit (60 Watt 16 Ohm)	50
147	Sound card (16 bit 44.1 Khz)	20
148	Soldering Iron (with desoldering pump and kit)	5
149	Software: 1. Windows, 2. MS Office, 3. Antivirus 4. Sound insulation and simulation software (INSUL)	20
150	Power supply	20
151	Power Cables (3 core copper)	25
152	Coaxial cables (audio coaxial copper)	30
153	Flexible wires (0.75 mm, 0.5mm)	100
154	Wires connectors (16 amp and 6 amp)	100
155	Electrical Component (Resistor, Inductor, Capacitor, Op-Amp, Instrumentation Amp, IC, Transformer, Rectifier)	Each 500
156	Printed circuit board	200
157	SS, GI, MS Rod and Sheet	20
158	LCD displays	5
159	Soldering wire	100
160	Trim pots	100
161	GI/ SS/ MS Sheets	50
162	Screw driver set	5
163	L-N Key set	5
164	Repair of instruments	20
165	Variable Power supply($\pm 15V$)	5
166	3D printer	1
167	3D printing spools PLA material	10
168	3D printing spools ABS material	10
169	PCB oven	1
170	Dremel Hand rotary tool with all accessories	1
171	Job Work (Labour, Sifting, Installtion, Disc making, horn making etc)	20
172	Pencil Batteries	100
173	Acoustic Foam/ High Density Foam	25

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174	Color temperature and color coordinate measurement system	1 set
175	Optical Radiation Test System (200 nm-3000 nm)	1 set
176	Sphere Spectroradiometer System (2.0 m)	1 set
177	Aging Life Test Systems	1 set
178	Luminance Measurement System	1 set
179	Test Instruments for testing effect of Voltage Surge, Voltage Dips, ESD, EFT, etc.	1 set
180	Standard light sources	1 set
181	Intensity Bench (25/30 m)	1 set
182	Primary Spectral Irradiance Measurement System in the range 200-2500 nm	1 set
183	Computer Workstation (OS: Linux, 6/8 core, RAM 32 GB), Hard Drive 1 TB Monitor (27+inch, LED), wireless keyboard & mouse,	1
184	Laser Printer, UPS (1 kVA),	1
185	Chemicals	1
186	Glassware & Lab ware	1
187	Nitrile Gloves , Tissue paper	5, 20-
188	Photocopier Paper, Envelope A4 size, Tape	20 , 100, 10
189	Hard disk, Pen drive, Speaker, Antivirus	1,1,1,1
190	Repair of RO water, purifier, Repair of Oven	1, 1
191	White board Marker, Duster, Flags	10, 5, 10
192	Poster Holder, Desk Organizer	2, 1
193	Stationery Tray, Transparent Tape etc	10, 10
194	High Resolution Digital Multimeter with data logger	1
195	Temperature Controlled Magnetic Stirrer	1
196	Temperature Controlled Vacuum Oven	1
197	Software (Labview)	1
198	Microbalance	1
199	Computer & Accessories (UPS & Printer)	1
200	Set up testing force transducer	1
201	Glass beakers of different capacities	20
202	Tissue rolls	1
203	Carbon nanotubes	500g
204	PDMS (SLYGARD 184)	10
205	Copper Tape	5
206	Double Sided Tape	3
207	Luminous intensity standard lamp calibrated at NMI	3
208	Luminous intensity uncalibrated standard lamp	5
209	Tungsten filament standard lamps for Luminous Flux measurements	3
210	Spectral Irradiance Standard Light Sources with colour filters calibrated at NMI	3
211	FEL Spectral irradiance standard uncalibrated lamp	3
212	Optical Colour Filters	50
213	Calibration of sources and meters	
214	Commercially available LED light sources	235

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215	Interference filters	40
216	Laser Diode Sources	8
217	Metrology/Research Grade Optical components	101
1218	Tungsten filament uncalibrated standard lamps for Luminous Flux	21
219	Batteries for 40, 5, 3 kVA UPS	49
220	Sensors for Ophir Energy meter (PAC)	3
221	GPIB cards for interfacing laboratory equipments	2
222	Data Acquisition Card/Development Boards	5
223	(a)RAM 1333 MHz DIMM3 8GB for PC (b)Hard Drive 1 TB SATA for PCs (c)Hard Drive 1 TB SATA for Laptops	(a)04 (b)03 (c)02
224	(a)RAM 1600 MHz, 8 GB for PCs (b)RAM 667 MHz, DDR2 4 GB for Laptops (c)4 GB DDR2 RAM for PCs	(a)04 (b)02 (c)02
225	Centrifuge system with accessories	3
226	Reading Telescope, digital camera with display and mounting accessories, 3 nos each	3
227	Computer, Monitor, Laser Printer, UPS, 2 nos	2
228	TPW Cell, 2 nos	2
229	Capsule SPRT (RTPW = 25.5)	1
230	Hot Plate with Magnetic stirrer (Heating Plate: Ceramic)	1
231	Digital Hygrometer, 2 nos	2
232	Low Temperature Dry Block Calibrator	1
233	Fabrication of LIGT and Digital clinical thermometer calibration kit	Four
234	IEEE 488 - USB Cable, 2 Nos	Two
235	Silicon Oil for liquid temperature bath	20Ltr
236	Gas (Ar & Nitrogen, 5 N)	Three, Two
237	Nitrile Gloves -superior, regular; Ice container	150 pairs, 400 pair, Three
238	Glass vacuum flask	3
239	Printer toner cartridges	4
240	Laser Interferometer	2
241	Mechanical BED	1
242	Lens	10
243	Mirrors	10
244	Waveplate	4
245	Magnetic mounts	10
246	Base plate, post and post holders	10 each (Set)
247	Cleaning reagent:	5 boxes
248	Nitrile gloves	5 boxes
249	ISo Propyle	5 lts
250	Methanol	5 ltr
251	optics cleaning tissue	5 pkt
252	Climatic Chamber (Temperature range: -20 to 80 Deg Cel. , etc.)	2
253	Pressure Generating System (consisting of portable air compressor, computer controlled regulator with the pressure range up to1bar through a computer with minimum requirement 4GB RAM with PCI Express DAQ card slot and DAQ Card)	2

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254	Turbo Pump (Full range gauge 10-8 mbar to 103 mbar, pumping speed greater or equal to 250 litre/s)	1
255	Alternating AC Voltage Supply (5V step size or better)	2
256	Alternating DC Voltage Supply (0.1V step size or better)	2
257	Laser Printers	2
258	Fabrication of component part, Job Work	1
259	Gas Cylinder	2
260	Camera (5Megapixels or better)	15
261	Extension Board	10
262	First-aid Box	2
263	Index Files	40
264	Electronic components, wires connectors (16, 6 amp), Capacitor, Inductor, Op-Amp, Instrumentation Amplifier, Ics, Resistances, Transformers, Rectifiers, Trim pots, Relimate connectors	100 each
265	PCB, SMPS power supply, Batteries 9V/6V, DC motors, Wires, Soldering wire, Soldering iron, Microcontrollers, Signal generator module, LCD displays, Potentiometers 10 turn, Crystals	20 30 5 each 10 50 m
266	Gem clips	10
267	Drawing Files	20
268	Registers	10
269	Lab Aprons	10
270	Lab Gloves	10
271	Lab Sleepers	15
272	12V dc solenoid valve	5
273	Isolated DC to DC converter	4
274	ultrasonic discs	10
275	Programmable potentiometers	10
276	LCD 16X2	5
277	Capacitors 0.47uF, 0.33uF and 0.1uF	5 each
278	Dual voltage module	5
279	230AC to 6/9 V DC adoptors	5 each
280	Etching primer solution	1 litre each
281	Cellocoat N.C. Putty Grey	1 litre
282	Masking Tape 1" size	3
283	Thinner white pure quality	5 litre
284	Asther for pre-coat	1 kg
285	Matt cleaner kit	1 Litre
286	old dhoti colour white size 4 mt.	20
287	1/4" BSP male /female SS/Brass/ PVC connectors and sockets (straight, T, L)	20 each
288	SS blade 12" size	10
289	SS metring valve for low pressure control/ Needle valve 1/4" OD tube fitting or (6 mm OD) male/ female connection both side	4

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290	SS Non returned valve 1/4" OD tube or 6 mm OD male or female connection both side , cracking pr 1/3 PSI	4
291	Foot/ Padel type air pump	2
292	Air release valve 1/4" BSP male or female thread both side or 6mm OD fitting	4
293	Casted L bracket 25*25*5 mm with dia 6 mm nut, bolt and washer set	100 each
294	Printer Carriage	6
295	O-Rings for CVV	100
296	SS Rods (different size)	7
297	Teflon Rods (different size)	3
298	Shoe Dispensar	5
299	SS Tube 1/4"	5
300	Transducer Cell 500 MPa	2
301	Job work of fabrication of high pressure accessories	2
302	High Pressure Piston & Cylinder with accessories	1
303	High Pressure Metallic Float Valve with accessories	1
304	Consumables	As per requirement
305	Walk-in type environmental chamber	1
306	Micro-balance with chamber and electrostatic neutralizer	1
307	Ozone Generator	1
308	Zero air generator	1
309	Ozone Analyzer	1
310	Temperature, pressure and RH sensors	2
311	FRM	2
312	Desktop Computer	15
313	Desktop UPS	15
314	Router/Switches	4
315	Wi-Fi access points	6
316	Network multipurpose printer	1
317	Laptop (Tough book) for field testing	4
318	Shock & Vibration Chamber	1
319	Workstation	2
320	Overhead Projector with smart screen	1
321	Network UPS	1
322	Network Rack	2
323	AMC for CAAMS at palampur	As per requirement
324	AMC for GHG at palampur	As per requirement
325	Assorted types of Cartridges	As per requirement
326	Tools (misc)	As per requirement
327	Consumables Misc. items	As per requirement
328	Misc Chemicals	As per requirement
329	Office stationary	As per requirement
330	Glasswares	As per requirement
331	Software	As per requirement

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332	Multi-Pocket UHV E-Beam source(Electron Beam gun with 6 K.V power, Supply and cables, feed through), with Box type Chamber for thin film deposition for customized e-beam Evaporator including, Four motor rotate crushable with electrical control panel, Electric control panel assembling & wiring, bellow, Gas line adaptor for Mass flow controller, Flinch for Turbo molecular fitting, Roughing & backing valve pneumatic, vacuum gauges, Substrate rotator and Substrate holder, Load Lock, thickness monitor (Two) etc.	1
333	19" Instrumentation rack for all electronics like e-gun controller	1
334	High-resolution optical microscope	1
335	Web coater/Spray coater	1
336	Box Furnace	1
337	IR Lamp	1
338	EMF weighing balance	1
339	Aluminium Nitrate	10
340	Zinc Sulphide	20
341	Copper Chloride	2
342	Manganese(II) Chloride	2
343	Magnesium Flouride	10
344	Chromium chunks	1
345	Al Wire	2
346	Ag Wire	1
347	Al shots	1 box
348	Gd ₂ O ₃	4
349	Eu ₂ O ₃	4
350	Y ₂ O ₃	1
351	Yb ₂ O ₃	2
352	Tm ₂ O ₃	1
353	MgNO ₃	2
354	BaNO ₃	4
355	Na ₂ VO ₄	3
356	PMMA 495 Kg/mol,	1
357	PMMA coated PET substrate	1
358	Copper Foil, 0.025mm thick, 99.999%, 25x200mm Alfa Aesar 10950	2
359	Silicon Wafer, P- type Boron doped, 300 nm SiO ₂ GMS	6
360	KBr FTIR Grade	1
361	UV filter 254nm	4
362	Nitrogen gas cylinder	3
363	Mix Gas Cylinder (95% Nitrogen + 5% Hydrogen)	2
364	Methane gas cylinder	1
365	Hydrogen Gas	2
366	Argan Gas	2
367	Argan + hydrogen Gas	1
368	Thickness monitor quatrz crystal	2pkt
369	Molybedunam sheets	1
370	Mo boats	100

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371	tungusten Spiral Boats	100
372	tungust wire	1
373	PET substrate	10/pkts
374	Alumina Crucible Boat shape (105mm L*16mm W* 11mm H)	20
375	Alumina crucible tray type (150mm L*70mm W*25mm H)	10
376	Alumina Crucible Conilcal tall shape (73 outer dia * 35 inner dia * 90 he	20
377	Graphite crucible (135mm OD*120mm H)	2
378	Muffle Tube for MTI furnance	4
379	Quartz tube 65 x 1200 mm	2
380	Agate Mortar 8" inch	2
381	Tip curved tweezer	10
382	Pointed slant tip tweezer	10
383	Three neck round bottom flask	5
384	Beaker	48
385	Beaker	40
386	Reagent bottles	30
387	Petri Dish	25
388	Petri Dish	40
389	Cluture Flat tubes	100
390	Cluture Flat tubes	150
391	Cluture Flat tubes	100
392	Magnetic stirring rescures	2
393	Magnetic Beads 9X60	12
394	Magnetic Beads 9X60	12
395	Centrifuge tubes	100
396	Plastic box (S)	20
397	Plastic box (L)	20
398	Spatula	30
399	Cleaning Brush	5
400	Cotton	20 pkts
401	Cryo tags/labels	2
402	Nitrile glooves (S)	15
403	Nitrile glooves (M)	15
404	Nitrile glooves (L)	15
405	Tissue Roll	200
406	Actone ovi	10
407	Acetone	50
408	Ethanol	30
409	IPA	25
410	Anisole	5
411	n-Hexane	4
412	TEOS	2
413	Anhydous DMF	1
414	Succsinic anhydride	
415	Phosphate Buffer saline 50 tablet	1

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416	IGEPAL CO-520 Sigma (Polyoxyethylene nonylephenylether branched)	1
417	Styrene/Butadiene copolymer	2
418	Ammonia	1
419	Graphite crucible	20
420	Toluene	4
421	TiO ₂ ,	1
422	SiO ₂ ,	1
423	CdTe,	1
424	CdSe,	1
425	Ti,	1
426	Si,	1
427	Soap solution	2
428	Vials, screw top with solid green Thermoset cap with PTFE liner, preas	1
429	Eppendorf® Biopur® Safe-Lock microtubes (1.5mL)	1
430	Eppendorf tube (tube capacity 5mL)	1
431	magnetic stirring bar, PTFE, cylindrical (L 10mm, bar dia.3mm)	1
432	magnetic stirring bar, PTFE, cylindrical (L 5mm, bar dia.2mm)	1
433	C3 Single channel variable volume pipette, calibration & accuracy	1
434	C3 Single channel variable volume pipette, calibration & accuracy	1
435	Universal Graduated Tips (200 microlitre)	1
436	Universal Graduated Tips (1000 microlitre)	1
437	repairing of UV-Visible system	1
438	repairing of PL system	1
439	repairing of UPS 40KVA	1
440	repairing of UPS 5KVA	2
441	Other unclassified Lab consumables chemicals, micropepettes sample boxes, Nitril gloves, Spatula, High temperature Gloves, Masks, Safety glass, Welding glasses, Glass cutting tool, Tissue paper, Weighting Paper, Tweezers, First Aid Box, and stationary item- belongs to P4 category etc.) & Other Equipment repair chemicals, micropepettes sample boxes, Nitril gloves, Spatula, High temperature Gloves, Masks, Safety glass, Welding glasses, Glass cutting tool, Tissue paper, Weighting Paper, Tweezers, First Aid Box, and stationary item- belongs to P4 category etc.) & Other Equipment repair, UPS batteries	As per requirement
442	Al beads	1
443	Chromium	1
444	Mo boats	35
445	tungstun wire	1
446	FTO coated glass slides	1
447	ITO coated glass slides	4
448	ITO coated PET slides	1
449	CH ₃ NH ₃ PbI ₃	1
450	CH ₃ NH ₃ PbCl ₃	1
451	CH ₃ NH ₃ PbBr ₃	1
452	CH ₃ NH ₃ SnI ₃	1

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453	NiO	1
454	MoO3	1
455	Vendium Oxide	1
456	BaTiO3	1
457	Tungusten Trioxide	1
458	Tip curved tweezer	2
459	Pointed slant tip tweezer	2
460	Beaker	10
462	Beaker	6
463	Petridish	5
464	Petridish	10
465	Petridish	10
466	Petridish	10
467	Petridish	20
468	Spatula	5
469	Teflon Stand	2
470	Wash bottle	12
471	Wash bottle	6
472	Cotton	5 pkts
473	Nitrile glooves (S)	2
474	Tissue Roll	20
475	Acetone	10
476	Iso-Propanal	5
477	Soap solution	1
478	Pen drive 32GB	1
479	Moser Bear CD Plain	20
480	Scissor medium size no. 35	2
481	Printer	1
482	Register	48
483	Digital multimeter	1
484	Other unclassified Lab consumables, chemicals, micropepettes , Masks, Glass cutting tool, and stationary item- belongs to P4 category etc.) , printer cartrige, ink, and Chemical Rack etc	As per requirement
485	SrTiO3(111) substrate	20
486	Sapphire substrates	0
487	Selenium sputtering target	1
488	GaN template (p, n-type) on sapphire	6
489	Quartz tubes	As per requirement
490	Chemicals (Acetone, IPA, Ethanol, Se powder, Te powder)	As per requirement
491	Tweezer Set	0
492	Tissue	0
493	Sample Packaging bottle/ boxes	0
494	N2 Gas	2
495	Si (100) and (111) substrates	0
496	Optical modulators for laser frquency	2

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497	RF Driver with Amplifier	2
498	Small and minor equipments	2
499	Electronics components	As per requirement
500	PCB printing for electronics circuits	15
501	Printer cartridge	2
502	Stationery (paper rim, folders etc)	5 each
503	Optics and optomechanical components	
504	Battery for UPS	32
505	Vacuum componets (viewport, gaskets, flanges, feedthrough etc.)	As per requirement
506	RF Amplifiers modules	5
507	Computer excessaries and components (external hard Drive, usb storage, RAM etc..)	4
508	Tool kits	2
509	AntiVirus Lic (2yrs lic)	3
510	Tunable LASER 600-1100 nm (a)780-795nm (Qty 2) (b)800-850nm (Qty 1) with different modules and UPS for each laser stabilization	3
511	Tunable LASER 330-680nm along with suitable optomechanics and optical spectrum analyzer	1
512	Lock in Amplifier (Qty 3) with receiver system	3
513	Wavelength Meter Meter Accuracy 2 MHz (Sensitivity nW)	2
514	<i>Acoustic Modulator (AOM) and Electro Optic Modulator (EOM) with accessories (1)AOM 780nm, 80 MHz with driver (Qty 2) (2)AOM 780nm, 200 MHz with driver (Qty 2) (3)AOM 480nm, 80 MHz with driver (Qty 2) (4)AOM 480nm, 200 MHz with driver (Qty 2) (5)EOM 480nm, 40 MHz with driver (Qty 2) (6)EOM 480nm, 10 MHz with driver (Qty 2) (7)EOM 780nm, 40 MHz with driver (Qty 2) (8)EOM 780nm, 10 MHz with driver (Qty 2)</i>	16
515	Oscilloscopes (1)100 MHz, 2Gs/s, 4-channel (Qty 2) (2)200 MHz, 2Gs/s, 4-channel (Qty 2) (3)350 MHz, 2Gs/s, 4-channel (Qty 2) (4)1 GHz, 5GS/s, 4-channel (Qty 1)	7
516	RF Synthesizer	2
517	CCD Camera/ Screen	1
518	Different Frequency band antennas with pre-amp upto W band with 4 Port VNA upto 50 GHz	6
519	Vapor cell machine and Nano Fabrication Unit	1
520	<i>RF Cables and BNC cables</i>	5
521	<i>Optical Accessories (1) opto-mechanics (2) Rb vapor cells Vapor cell heating probes with power supply</i>	18
522	<i>Optical Table (4) with M4 & M6 screws set, table assembly, electrical fitting and 2dehumidifers</i>	40
523	<i>Gold and Silver mirrors, plano convex lenses with mounts</i>	5

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524	<i>Polarizers and Wave Plates, Beam Splitters and Phase Shifters with mounts</i>	10
525	<i>Cleaning accessories With card reader</i>	3
526	Multi Mode Fiber with collimator (for 780 nm and 480nm, 1 km each , total 4 Km) with photodiode detectors, power meters and chopper system	12
527	PCBM61	1
528	Gold wire	1
529	1,10-Dibromodecane	1
530	1,12-Dibromododecane	1
531	1,2-Dibromoethane	1
532	1,4-Dibromobutane	1
533	1,8-Dibromooctane	1
534	1-Octadecene technical grade, 90%	1
535	2,2'-azobis(2-methylpropionitrile)	1
536	2-Methoxyethanol anhydrous, 99.8%	1
537	3-Aminopropyl triethoxysilane	1
538	4,6-Bis(3,5-di(pyridin-3-yl)phenyl)-2-methylpyrimidine (B3PYMPM)	2
539	4-Hydroxybenzaldehyde	1
540	4-Hydroxyphenylacetone nitrile	1
541	Acetone	10 Liter
542	Aluminium foil	10
543	Aluminium wire	1
544	ALUMINUM ACETYLACETONATE	1
545	Antimony Acetate	1
546	Antimony Chloride	1
547	Antimony(III) Bromide, 99%	1
548	Barium Acetate	1
549	Beaker	6
550	Bismuth bromide	1
551	Bismuth Chloride	1
552	Bismuth iodide	1
553	Bismuth Nitrate	1
554	Bismuth(III) bromide	1
555	Blank CD	100
556	Boats: Mo (Moly)	50
557	Boats: W (Tungsten)	50
558	Calcium Nitrate Tetrahydrate	1
559	Centrifuge tubes	1000
560	Cerium Nitrate Hexahydrate	1
561	Cesium carbonate	1
562	Chloroplantonic acid hexahydrate	1
563	Chlorotrimethylsilane purified by redistillation ~ 99%	2
564	Chromium (III) Chloride	1
565	Conductive silver paste	2

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566	Cupric acetate	1
567	DIO	1
568	Epoxy	5
569	Ethanol	1
570	FK 209 Co(III) TFSI salt	1
571	Fletcher	4
572	Fluorine doped tin oxide substrate	2 sheet
573	Fluorine doped tin oxide substrate 2.5 cm x 2.5 cm	100 piece
574	Full Face Mask	5
575	Gallium Chloride	1
576	Gallium iodide	1
577	Germanium iodide	1
578	Indium doped tin oxide substrate 2.5 cm x 2.5 cm	100 piece
579	Indium tin oxide glass substrate	2 sheet
580	Indium(I) bromide anhydrous 10 mesh, 99.998% trace metals basis	1
581	INDIUM(III) ACETYLACETONATE	1
582	IPA	5
	IRON(II) CHLORIDE TETRAHYDRATE	1
584	Laptop Battery	1
585	Lead Bromide	1
586	Lead Iodide	1
587	Mask	200
588	Measuring cylinder	5
589	Mercury Chloride	1
590	Methyl trioctylammonium Chloride	1
591	Methyle amonium bromide	1
592	Methyle amonium Iodide	1
593	Microtips	1000
594	Moly deposit flexible substrate	5 sheet
595	Moly deposit glass sheet	5 sheet
596	Mortar Pastle	2
597	Mouse wireless	2
598	Nitrile Gloves	2 box
599	Nitrogen Gas Cylinder	5
600	Nitrogen+ H2S(5%) Gas Cylinder	1
601	PEDOT:PSS	1
602	Poly TPD	1
603	Power bank	1
604	Potassium Bicarbonate	
605	Rhodamine B	
606	Rice beads	10
607	Round bottle flask	10
608	Selenourea	1
609	Silicon Wafers	10
610	Silver wire	1

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611	Soap solution	2
612	Solid State Drive (SSD) ~ 2TB	1
613	Strontium Chloride	1
614	Styrene-maleic Anhydride	1
615	SULFUR, POWDER	1
616	Tellurium	1
617	Thermometer	5
618	Tin Acetate	1
619	Tin bromide	1
620	Tin Chloride (SnCl ₄)	1
621	Tin iodide	1
622	Tungsten(VI) Chloride	1
623	Twiser	10
624	Vanadium(III) Chloride	1
625	Wash bottle	10
626	Pfeiffer TMP	1
627	Leybold TMP	1
628	29"32" TV type display screen	1
629	A new computer workstation for replacing old computer of SIMS	1
630	Replacement of any electronic or pneumatic or mechanical part for SIMS	As per requirement
631	8 port internet switch / hub with adapter	1
632	Mouse for computer	6
633	SMF batteries 7Ah 12V	2
634	Temperature-Humidity sensor	2
635	Isopropyl Alcohol	10L
636	Acetone	3L
637	Glycerene	1L
638	Specialized software for SIMS data analysis	1
639	HDD portable for backup of data 2TB	4
640	Argon Gas	3
641	External Hard disk 2 TB	1
642	Repair of office PC	1
643	Repair of office furnitures	2
644	Alumina boats and crucibles	10
645	Membrane sample boxes	30
646	Diamond scribe	2
647	Vacuum dessicator	4
648	Nitrile gloves	5 packets
649	Shadow Mask	As per requirement
650	Cartridge Refilling	As per requirement
651	UPS Repair	As per requirement
652	Cold Setting consiting of 400 gm powder and 400 ml liquid	2
653	Pt 100	As per requirement
654	Laptop Battery and Screen Repair	As per requirement
655	Autoclave	As per requirement

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656	Chemical Consumable	As per requirement
657	Solid State Drive SSD	1
658	Substrate Heater with power supply	1
659	Si-SiO ₂ Wafer	As per Requirement
660	Si Wafer	As per Requirement
661	Quartz Tube	As per Requirement
662	Teflon Tweezer	As per Requirement
663	MoS ₂ Single Crystal	1
664	Sample Box	As per Requirement
665	Plastic box (large, medium)	300
666	Plastic box (Partition, medium)	200
667	D Spanner set	2
668	Safety goggles	20
669	Silicon grease	50
670	Electric insulation tape	20
671	Repairing of softening point apparatus	1
672	Repairing of oven	4
673	Ring spanner set	1
674	Silicon sheet, 2-3mm thick	5 meter
675	Fiber reinforced pressure tube ID 12-13mm	20m
676	Gas regulator	4
677	Silicon tube	30m
678	Rubber tube	30m
679	Pressure rubber tube	20m
680	Tray SS, mixed sizes	8
681	Asbestose gloves	12
682	Petridish square,	100
683	Tissue roll	100
684	Syringe box with needle	100
685	Hand sanitizer	20ltr
686	Hydrothermal, 100ml	2
687	UPS batteries	12
688	Cartridges, HP deskjet colour printer	3
689	Fabrication of SS reactor	2
690	Repairing of furnace	4
691	Tefflon tape	20
692	Plastic wash bottles	50
693	Quinoline	20
694	Fabrication of CNT Yarn set-up	1
695	Oil Heater	2
696	Hydrogen peroxide	1
697	Ethanol	100
698	Acetone	20
699	X-ray films	400
700	Testing of Composite samples	

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701	Ammonia	1
702	Ultra high molecular weight polyethylene sheet	4
703	Commissioning of Gas line consist of 3 Nos of 1/4" Three stage gas purification & control panel for Hydrogen, Argon & Nitrogen, 350 ft of 1/4" S.S Tubing with color coded sleeve, 100 ft of PVC Casing Capping, 6 nos of 1/4" Toggle Valve for MFC, Standard Fittings like Nuts, Ferrules, Hardware etc	1 lab
704	Nitrile glove	5 box
705	Vacuum grease	1
706	Cleaning brush	5
707	Labcoats	10
708	Silicon Liquid Polish (Waxpol)	5
709	Silicon O Ring	10
710	Dropper	100
711	Ferric chloride (Anhydrous)	1
712	Silicon sheet	1
713	Laptop	1
714	Computer	1
715	Van de Graaf Generator	1
716	Induction coil set-up (Customized) with electrical peripherals such as ammeter, voltmeter, Rheostat, Galvanometer, etc etc.	1
717	Portable Vacuum apparatus (Customized)	1
718	Flash point determination and density meter equipment	1
719	Balance of 40 Kg Capacity	1
720	Microwave digester system	1
721	Vacuum Sealing Unit	1
722	Dynamic Light Scattering (DLS)	1
723	High-Performance Liquid Chromatography with Mass Spectrometry	1
724	Rheometer	1
725	JCPDS data bank & Pearson's (Software for XRD for the structural analysis) data bank.	1
726	Electrochemical analyzer	1
727	High temperature (up to 350°C) and High Pressure Reactor (up to 200 bar)	1
728	Temperature attachment to XRD up to 1000°C	1
729	High-purity (18.2 M ohm-cm resistivity) Deionized water plant/unit	2
730	Co-planer waveguide FMR (attachment unit to existing facility).	1
731	Refractometer	1
732	Simultaneous TGA/DSC instrument	1
733	DC Magnetron Sputtering unit	1
734	Hyperthermia measurement system	1
735	X-ray tube	1
736	Blaine fineness instrument	1
737	Hot plate	2
738	Homogenizer	2

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739	Digital ultrasonic cleaner	1
740	Vacuum Induction Furnace	1
741	Inductively Coupled Plasma . Mass Spectrometry (ICP-MS)	150
742	SEM with EDAX	250
743	FTIR	65
744	Balance up to Six decimal place	75
745	10 computers, printer and scanner	50
746	Dedicated UPS for the sophisticated Instruments	125
747	Chemicals	As per requirements
748	Protection covers for magneto rheometer, Moke, EPR spectrometer /Attachments	As per the requirement
749	Repair of EPR accessories and Repair of LN2 and LH2 unit Temp controller unit	1
750	Repair of EPR magnet power supply unit and console unit	1
751	Quartz tube sealing	50
752	Lab Consumables (Sample box, spatula, Emrey paper, butter paper, Twizzer)	10
753	Labeling, bottling and printing work for BND	As per requirements
754	Sputtering Target(Mn3Sn,Mn3Ge,CoFeB,Ru)	4
755	T-6 grade graphite crucible	20
756	consumables (alumina crucible, quartz tube, sample holder, glassware, plasticware, tool kit , speaker head phone tool kit, multimeter, drill machine, electric board, RO potable purification system ,spring coupler slit coupling, LR44 battery allen key, remote control unit, pendrive, silica tube, computer software, pendrive, hard disk CD,mask table lamp hair dryer, kettle box file, non magnetic sample holder for magnetic measurement, XYZ and rotatory stage for magneto optical measurement,)	
757	Repair work (Instruments, UPS, PC's chiller, furnaces minor equipments and instruments accessories)	As per requirements
758	stationary items(rubber stamp,hard disk,rotatory hammar drill, battery,cell,mouse pad, electric kettle,lan router, cleaning duster register, zambo stapler, laptop battery pack, keyboard mouse Oil heater, plastic display file,OHP screen, tool kit, power extension board, mask, speaker, headphone, web cam, SS jerry can, box file,	As per Requirements
759	Chemicals	As per the requirement
760	Glasswares(sample bottle, beakers etc.)	As per requirements
761	tissue paper, sample container, sputtering target, EPR accessories,	As per requirements
762	Repair Work (Instruments,UPS, PC's and accessories, Furnace, minor instruments, chiller)	As per requirements
763	Dc magnetron sputtering accessories	50
764	Rocking Piston based vacuum pump for EPR spectrometer	1
765	Quartzwares (rod with half cut, tube for EPR measurement (3mm ID,4 mm OD &4mm ID, 5 mm OD) , EPR Quartz capillaries (50 microlitre), Quartz tube for polycrystalline sample synthesis, Q - band quartz tube)	As per the requirement

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766	Printer cartridge	As per the requirement
767	stationary items(rubber stamp,hard disk,rotatory hammar drill, battery,cell,mouse pad, electric kettle,lan router, cleaning duster register, zambo stapler, laptop battery pack, keyboard mouse Oil heater, plastic display file,OHP screen, tool kit, power extension board, mask, speaker, headphone, web cam, SS jerry can, box file,	As per the requirement
768	Secondary Time Scale Equipment (based on following items) - Atomic Clocks and accessories, Measurement system may consist of Micro phase stepper / Real Time, Atomic Clock Combiner, Time Interval Counter, Frequency Comparator, Time & Frequency Transfer GNSS Receivers, Computers and accessories, Servers and accessories, Racks and accessories, Router/Switches and accessories, Frequency Distribution Amplifier, Pulse Distribution Unit	5
769	Dissemination system equipment consisting of- High Frequency Switch,NTP servers and accessories, PTP servers and accessories	5
770	Networking system equipment- Work stations and accessories, Router/Switches and accessories, Data Security / Unified Thread Management (UTM) and accessories	5
771	Minor Equipment, Office and Computer Equipment	5
772	Primary Time Scale Equipment For Disaster Recovery Centre consisting of- Atomic Clocks (Active Hydrogen Masers, etc. and accessories) Measurement system may consist of Micro phase stepper / Real Time Atomic Clock Combiner, Time Interval Counter, Frequency Comparator, Time & Frequency Transfer GNSS Receivers, Computers and accessories, Servers and accessories, Racks and accessories, Router/Switches and accessories, Frequency Distribution Amplifier, Pulse Distribution Unit , High Frequency Switch. , Software and Control Algorithm	1
773	Time Transfer/ Dissemination system equipment for Disaster Recovery Centre - Two-way satellite time transfer equipment, NTP servers and accessories	1
774	Networking system equipment for Disaster Recovery Centre - Work stations and accessories, Router/Switches and accessories, Unified Thread Management (UTM) and accessories	1
775	Minor Equipment, Office and Computer Equipment for Disaster Recovery Centre	1
776	GNSS receivers and accessories (Receivers, receiver boards & evaluation kit , antennas & cables) for CSIR-NPL	1
777	Computer equipment and related items (computer, Laptops, servers, Printers, Workstations, Switch routers, MFD) for CSIR-NPL	1

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778	LAN/WAN equipment and accessories, data security/UTM and related accessories for CSIR-NPL	1
779	Major software (Network/ elements Management software, etc.) for CSIR-NPL	1
780	Works and Services . (UPS Batteries and accessories, digging, laying and splicing of optical fibre cable) for CSIR-NPL	1
781	Laboratory Job work: 1. Building Management System. 2. Environment Control and monitoring systems for the UPS room 3. Antenna Cabling 4. Signage 5. Network Time Displays 6. TV sets with conferencing and networking accessories (Computers, Camera, Network Switch/Router, etc.) 7 Alert system 8 Fire safety 9 Grounding/earthing 10 Other services like videography, printing, etc	1 set
782	Maintenance of Equipment: AMC for UPS/AC/ Generator/ Data logger/ CCD camera /	1 set
783	Audio-visual and Meeting expenses	1 set
784	Computer Software: 1. Antivirus 2. NMS 3. Word processing 4. Any other software	1 set
785	Computer Consumables, Cartridges, Network camera, headphone, etc.	1 set
786	Electronic accessories, cables and connectors	1 set
787	Optical Fiber, connectors, and accessories	1 set
788	Battery and electrical accessories	1 set
789	Microwave digestion system	1
790	Laminar Hood	1
791	Zero Air Generator	1
792	Portable Dilution Sampler (Digital Air Flow Calibrator, Dilution Tunnel with mounting Clamps, Unions, Ejector and SS probe, Conducting PU tubing)	1
793	Portable Multigas Monitor with Data Logger	1
794	DC operated Pump	4
795	POLY GLOVES (NON-STERILE)	20 pack
796	NITRILE GLOVES: PURPLE COLOR (SUPERIOR QUALITY)	30 pack
797	ALUMINIUM FOIL	2 pack
798	TISSUE PAPER	2 pack
799	CLING WRAP	1 pack
800	SILICON TUBBING	1 piece
801	HIGH VACCUM RUBBER TUBBING	1 piece
802	TEFLON TAPE	3 pack
803	ICE CONTAINER	2 pack
804	PARAFILM	10 pack
805	PARAFILM DISPENSER	2 no
806	BEAKER	1 pack
807	UTILITY TRAY	4 pack
808	MICRO TIPS	5 pack
809	CENTRIFUGAL TUBE CONICAL BOTTOM	20 pack
810	TEST TUBE PEG RACK	1 pack
811	DRYING RACK	1 pack
812	WASHING BRUSH	1 pack

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813	LABORATORY USE COTTON	10 pack
814	Plastic Storage Container (Bread Box) with lid lock	4 pack
815	DISPOSABLE SYRINGE 5 ML	50 pack
816	Syringe filter	4 pack
817	PVDF filter	4 pack
818	Plastic zipper bag	2000 pieces
819	Plastic zipper bag	2000 pieces
820	Nylon filter	2 packet
821	GF/A	4 packet
822	PTFE	4 packet
823	plastic petri disc	30 pack
824	DISPOSABLE SYRINGE 5 ML	50 pack
825	NITROGEN gas	12
826	HYDROGEN gas	6
827	HELIUM gas	2
828	ZERO air gas	6
829	HEPA Filter	2 piece
830	Helium + Oxygen Mixture	1
831	Methane + Helium Mixture	1
832	CO2+Helium Mixture	1
833	Stationary items (Xerox paper, Pen, Note Pad, Printer Cartridges etc)	1
834	Chemical for Ion Chromatograph	1
835	Standards for Ion Chromatograph (Cation and Anion)+ Gas Chromatograph (Organics), TOC Analyser	1
836	Repair/upgradation of Computer	1
837	Lithium -Li-FePO4 Battery pack 123.8V 200 Ah with PCM (Protection Circuit Module)	2 set
838	Size Segregated Impactor	1
839	Accessories for Portable Aethalometer	1
840	Freezer	1
841	NITROGEN gas	6
842	HYDROGEN gas	12
843	HELIUM gas	6
844	ZERO air gas	12
845	Petri disc	20 pack
846	Gas Mixture 5% CH4 + Balance Helium	1
847	Gas Mixture 10%O2 + balance He	1
848	Plastic zipper bag	
849	PARAFILM (2" x250', 4" x250')	10 pack, 20 Pack
850	MICRO TIPS (0.2-10µl, 200-1000µl, 5ml)	5 pack, 50 Pack and 100 Pack
851	Conical Flasks (50 ml, volumetric Class A with certificate, 25 ml, volumetric Class A with certificate)	20 pieces each
852	Flasks (50 ml, volumetric Class A with certificate, 25 ml, volumetric Class A with certificate, 1000 ml, volumetric Class A with certificate)	5 pack, 5 pack, 8 pack

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853	Chromatography Vilas and Septa	10 pack
854	Pipette 1ml, 5ml	1 piece each
855	lab soakers	1 roll
856	lab soakers, Heavy duty	1 roll
857	NITROGEN gas	12
858	HYDROGEN gas	12
859	ZERO air gas	12
860	Spare of NH3 Analyser	1
861	O3 UV lamp	1
862	1.0 HP 100 lpm pump	1
863	PUMP	1
864	Perma Pure Nafion Drier	1
865	AMC of GC VOC	1
866	TissuQuartz Filter	60 pkt
867	Box Furnace	1
868	Centrifuge	1
869	Chemicals	As per requirement
870	Repair of instrument/ computer/ printer, cartridge, methanol, acetone, IPA, ethanol, O-rings, neoprene sheet, clamps, push-fitting, centering, gas pneumatic gas pipeline, soldering station/ iron, brass rod, copper rod, copper pipe, OHFC cooper, general stationary, cotton gloves, gloves, alumina and quartz items, Job work, teflon items, aluminium exclusion profile, Tweezer Set, Tissue, Sample Packaging bottle/ boxes, Pellet Pressing dyes, Thin wall SS tube, Copper tube, Designed Circuit Board/IOT module, Imaging sensor, Induction coil, Webcam with mic, Quartz/alumina items, gas/ gas mixture, thermocouple, temperature sensor, etc.	As per requirement
871	Video conferencing Webcam	2
872	Wireless Omni Directional Microphone	1
873	Wired bi-Directional Microphone	1
874	Digital Multimeter	2
875	Moving coil meters	5
876	Electroscope	2
877	Solder iron	2
878	Vernier calliper	2
879	Enamelled copper wire spools	5
880	linear translation stage for mirrors	2
881	Zero PCB board (15 cm X 15 cm)	as when required
882	Bread boards	as when required
883	Connecting Wire	as when required
884	Jumper wires	as when required
885	Soldering wire:	as when required
886	Soldering wax	as when required

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887	Solder remover wire	as when required
888	Screw Driver Set	as when required
889	Aligner screw driver set	as when required
890	Variable Power Supply Adapter: 12V	as when required
891	Push button switch	as when required
892	Switch	as when required
893	Arduino Mega Board	as when required
894	LCD Display for Arduino	as when required
895	ICL 7660	as when required
896	IC 741	as when required
897	IC 7805	as when required
898	IC 555	as when required
899	TDA 7052	as when required
900	N-channel JFET BFW10	as when required
901	NPN Transistor	as when required
902	PNP Transistor	as when required
903	Resistance 1 M ohms	as when required
904	Resistance 100 k ohms	as when required
905	Resistance 47 k ohms	as when required
906	Resistance 10 k ohms	as when required
907	Resistance 1 k ohms	as when required
908	Resistance 470 ohms	as when required
909	Resistance 100 ohms	as when required
910	Resistance 10 ohms	as when required
911	Resistance 4.7 ohms	as when required
912	Capacitor 0.01 micro F	as when required
913	Capacitor 0.1 micro F	as when required
914	Capacitor 1 micro F	as when required
915	Capacitor 10 micro F	as when required
916	Capacitor 100 micro F	as when required
917	Potentiometer 1 k ohm	as when required
918	Potentiometer 10 k ohm	as when required
919	Potentiometer 100 k ohm	as when required
920	Potentiometer 1 M ohm	as when required
921	Diode	as when required
922	Logic and Timing Board (outsourced)	as when required
923	Component holders	as when required
924	Socket terminals	as when required
925	Banana plugs	as when required
926	Plug switches	as when required
927	Knife switches	as when required
928	Wire cutter	as when required
929	Magnets (various shapes and sizes)	as when required
930	Magnetic compass	as when required
931	Magnetic needles	as when required

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932	Mirrors of various sizes and shapes	as when required
933	Concave lens of various size	as when required
934	Convex lens of various size	as when required
935	Lens holders/stand	as when required
936	Laser pointers	as when required
937	Beam splitters	as when required
938	Polarizers	as when required
939	Prism	as when required
940	Optical slits	as when required
941	Gratings	as when required
942	Optical honeycomb table top	as when required
943	View finder	as when required
944	Eye piece	as when required
945	Screw gauge	as when required
946	Density identification sets	as when required
947	Set of masses with hooks	as when required
948	Metal pulleys	as when required
949	Pulley rod, mount and clamp	as when required
950	Wheel and axle	as when required
951	Meter scale:	as when required
952	Computer	1
953	Miscellaneous equipments	1
954	3D Printing grade	1 Kg
955	1 Replaceable toner	As Per Requirement
956	10 Alkaine Battery	As Per Requirement
957	Carboxymethyl Cellulose (CMC) (Sigma 9004-32-4 1)	100 gm
958	Amaranth Dye (Sigma Cat. No. 915-67-3 1)	100 gm
959	Methacrylic Acid	500 gm
960	Sodium Chloride Crystal /Powder	1000 gm
961	Potassium dihydrogen phosphate (KH ₂ PO ₄)	500/ 1000 gm
962	Disodium hydrogen phosphate (Na ₂ HPO ₄)	500/ 1000 gm
963	2-Methyl-4-isothiazolin-3-one hydrochloride (MIT)	As Per Requirement
964	Capsules of making pH standards and conductivity standards	As Per Requirement
965	Acrysol G111 Thickening Agent	500/ 1000 gm
966	Chemicals	as per requirements
967	TEM grid	as per requirements
968	Pellet making Die set	as per requirements
969	Alumina crucible	as per requirements
970	Alumina tray	as per requirements
971	computer accessories	as per requirements
972	Hard disk	as per requirements
973	Sample Packaging bottle/ boxes	as per requirements
974	cartridge	as per requirements
975	Stationary items	as per requirements
976	Other lab consumable	as per requirements

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977	Tube Furnace	1
978	Hydraulic Press	1
979	Ball Mill	1
980	Digital Multimeter	1
981	Iron Oxide	1
982	Lithium Carbonate	1
983	Copper Nitrate	1
984	Titanium Nitride	1
985	Manganese Nitrate	1
986	Tin(IV) Chloride anhydrous	1
987	Gallium Oxide	2
988	Silver conductive adhesive paste	1
989	Tin(IV) oxide	1
990	Ethylene Glycol	1
991	Methanol	1
992	Sodium Chloride	1
993	Magnesium Powder	1
994	Aluminium Oxide	1
995	Sodium Carbonate	1
996	12 V UPS Battery	2
997	Pendrive	4
998	Antivirus for computer 5 user for 1 year	1
999	Amber Glass Bottles (25 mL)	As per requirements
1000	Parafilm	As per requirements
1001	Spatula 8" Wire Type	As per requirements
1002	Teflon Tape 18mm	As per requirements
1003	Self Sealing Poly Bags 4"x5"	As per requirements
1004	Specimen Container 125ml	As per requirements
1005	Sticker printing and cutting	As per requirements
1006	Sample sending through speed post/courier	As per requirements
1007	Trioctylphosphine(TOP)	2
1008	Trioctylphosphine oxide (TOPO)	3
1009	Cadium Oxide (CdO)	2
1010	1-Octadecene	1
1011	Indium chloride	1
1012	Butylamine	1
1013	WD Hard disk 2 TB	1
1014	WiFi Router	2
1015	Wired headset with MIC	1
1016	Wireless USB Keyboard with mouse	3
1017	Portable HDD, 1 TB	1
1018	Samsung Toner MLT-D103L	1
1019	UPS Battery	7
1020	Digital Automated Blood Pressure Monitor	1

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1021	Paint	1Lt
1022	Arduino Uno	4
1023	Shoe dispenser	1
1024	Chemicals	1
1025	Glassware	1
1026	Printer Cartridge	1
1027	Digital Pressure indicator	1
1028	HP Cart. 78A	1
1029	HP Cart. 540A	1
1030	External Solid State Drive, 500GB	1
1031	Repair of Off line UPS 1 KVA	1
1032	Paper Shredder, A4 size	1
1033	SS connector and washer 1/8 BSP OD * 1/4 tube dia OD other side (swagelok)	10
1034	Specified metal to rubber washer for 1/8 " BSP OD side	10
1035	LED Lamps	3
1036	Discharge Lamps	3
1037	UPS Batteries	3
1038	Repair of pressure transducer	1
1039	HP 125A (CB540A, CB541A, CB542A, CB543A) Cartridge	4
1040	Cannon NPG59 Toner	2
1041	Cartridge TN-B021	4
1042	Richo printer toner MP2501S	2
1043	HP Printer Cartridge CE278AC	4
1044	HP Printer Cartridge 110A	4
1045	Batteries (Emergency Light)	5
1046	Disposable Pan	5
1047	Antivirus (10 user, 3 yrs)	1
1048	Laser Mono Computer Printers for A4 paper size with 1 Year	
1049	All in one PC Core i5 9500 8 GB/ 1000 GB HDD/ Windows 10	
1050	UPS 1.0/800 (KVA/VAH)	
1051	milipore water purification system	1
1052	hair dryer	1
1053	Lanthanum (III) Nitrate Hexahydrate 99.9% Alfa Aesar	1
1054	Yttrium (III) 2,4-Pentanedionate Hydrate 99.9% Alfa Aesar	1
1055	Europium (III) Chloride Hydrate 99.99% Alfa Aesar	1
1056	Gadolinium (III) Nitrate Hydrate 99.9% Alfa Aesar	1
1057	Terbium (III) Chloride Hexahydrate 99.9% Alfa Aesar	1
1058	Holmium (III) Chloride Hexahydrate 99.9% Alfa Aesar	1
1059	Erbium (III) Chloride Hydrate 99.9% Alfa Aesar	1
1060	Ytterbium(III) Chloride Hydrate 99.9% Alfa Aesar	1
1061	Thulium Chloride Hydrate 99.99% (Alfa Aesar)	1
1062	1,3,5-Benzenetricarboxylic Acid 98% Alfa Aesar	1
1063	Rubidium Fluoride 99.1% Alfa Aesar	2
1064	Propylene Oxide 99+% Alfa Aesar	1
1065	N,N-Dimethylformamide SRL	4

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1066	2,4-PENTANEDIONE, 99%	1
1067	Lutetium (III) Chloride Hexahydrate 99.9% Alfa Aesar,	1
1068	Tetraethoxysilane 99%	1
1069	Magnetic Bead	6
1070	Centrifuge tubes	100
1071	Paper roll	100
1072	Nitric Acid (merck AR Grade)	10
1073	HPLC Grade Methanol	4
1074	Liquid Acetone	10
1075	Liquid iso propyl alcohol	10
1076	N,N'-Diisopropylcarbodiimide Sigma Aldrich 99%	1
1077	Maleic Anhydride	1 x 25 kg
1078	Glycidyl methacrylate	1 x 25 kg
1079	SEBS (styrene-ethylene-butylene styrene	1x25 kg
1080	Nitric Acid	10x2.5 ltrs
1081	Waste Plastic Granules	1x100 kg
1082	Tiles from waste plastic for testing for vehicluar movement	1 x 5000 tiles
1083	Poly phenylene sulphide PPS	1 x 100 kg
1084	Beakers (10 litres capacity)	2
1085	Glass Fibers	1x25 kg
1086	Acid Resistant Gloves	6 pairs
1087	Nitrile Gloves	2 boxes
1088	Magnesium hydroxide	10 x 500 gms
1089	Aluminium/Pt crucibles for TGA/DSC	2 boxes
1090	Litium hydroxide	4 x 100 gms
1091	Poly vinyl chloride resin	4 x 500 gms
1092	Microprocessor controlled Agglomerator	1
1093	RF and DC sputtering power supply and sources	As Per Reqements
1094	RF sputtering accessories and consumables (rack, vavuum pump, substrate, targets and other accessories)	As Per Reqements
1095	T 6 graphite crucible	As Per Reqements
1096	Aquaguard	1
1097	mixture gas cylinders	As Per Reqements
1098	Small Office paper and other such petty stationery items	As Per Reqements
1099	Sample Holder Accessories	As Per Reqements
1100	Rotary evaporator with pump and chiller	1
1101	Analytical balance	1
1102	Chemicals and solvents	As per requirement
1103	Gloves	As per requirement
1104	Twizzers	As per requirement
1105	Battery	4
1106	Plasticwares like tips, tray, holders, etc.	As per requirement
1107	Glasswares	As per requirement
1108	Other consumables	As per requirement
1109	A4 size paper	12 pck

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1110	File stand	5
1111	anhy. Solvents	As per requirement
1112	Tissue	1 box (100 units)
1113	Sample Packaging bottle/ boxes	2000
1114	Lab Table /furniture	As per requirement
1115	Chemical cold storage cabinet	1
1116	Argon/nitrogen gases	12
1117	Repair of isturement/ computer/ printer, UPS, lab items etc.	As per requirement
1118	Hot plate srtirrer	5
1119	Heating mental	5
1120	Solvents	10
1121	Ultipor® N66 Membrane Disc Filter 0.2 µm pore size and diameter 13 mm	6 packets
1122	Dichloromethane	10 liters
1123	HCl	500mL
1124	SO ₂	2
1125	O ₂	2
1126	CO ₂	2
1127	N ₂	2
1128	H ₂	2
1129	CO (small cylinder)	2
1130	Alkane C8-C40	1
1131	PAH Standard (EPA 16)	1
1132	Syringe Filter	14 pack
1133	PVDF filter	10 pack
1134	Sample Lines (teflon)	100 mtr
1135	Rotary Pump Oil Ultra Grade	1
1136	Tin Weighing Pans Pressed pack of 100	15
1137	Ash fingers for Combustion tube 60 mm	20
1138	Quatz Reduction tube of Pyrocube Elemental Analyzer	1
1139	Quartz wool 10 gm pack	2
1140	Filament assay for Isoprime IRMS 100	2
1141	Silver Wool for Reduction Tube 50 gm pack	1
1142	Activated Alumina for IRMS 0.2 kg pack	1
1143	47mm, 5 micron PVC membrane Disc filters	1
1144	Suppressor CSRS 300, 4MM	1
1145	Suppressor ASRS 300, 4MM	1
1146	Cation Column	1
1147	Anion Column	1
1148	Syringe Filter Holder(13MM)	1
1149	Dionex Six cation-II Standard	1
1150	Dionex Seven Anion Standard	1
1151	METHANESULFONIC ACID, >=99.0%	1
1152	Sodium Bicarbonate	1
1153	Sodium Carbonate	1
1154	Syrings (5ml)	1

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1155	Syringe Filter 25 mm, Nylon, 0.22 um, Non Sterile	10
1156	Capacitor	10
1157	Resistor	10
1158	Discovery Kit	1
1159	Programmer	1
1160	DC-DC Converter	2
1161	Development Board	2
1162	Crystal	15
1163	Syringe Pump	1
1164	Thermal Laminator (Pouch Laminator)	2
1165	Vacuum Guage (Pirani)	1
1166	Vacuum Guage (Penning)	1
1167	Hot Plate (with magnetic stirrer)	1
1168	Vacuum Pump (Dry)	1
1169	Fogger Machine	1
1170	Methylammonium iodide	1
1171	Acetone	6 of 2.5 L
1172	Proponol	6 of 2.5 L
1173	Chloroform	1
1174	Hydrobromic acid, 48 wt. % in H ₂ O,	1
1175	Methylamine Solution, 33 wt. % in absolute ethanol	1
1176	Formamidinium iodide	1
1177	Lead(II) iodide (203602-50G) 99.999% trace metals basis	1
1178	Lead Chloride (203572-10G)99.999% trace metals basis	1
1179	EH44	1
1180	Nickel(II) acetylacetonate	1
1181	Indium tin oxide coated PET surface resistivity 60 Ω/sq, L × W × thickn	5
1182	Propargylamine hydrochloride,	1
1183	Lead(II) thiocyanate	1
1184	L-Histidine, 98+%	1
1185	L-Cysteine, 99+%,	1
1186	L-Cysteine hydrochloride monohydrate, 99%	1
1187	Titanium sputtering target, 50.8 mm (2.0 in), dia x 3.18 mm (0.125 in) thick, 99.995% (metals basis)	1
1188	N,N-Dimethylformamide	1
1189	Tin(II) iodide	1
1190	2-Propanol	1
1191	Tungsten boats	20
1192	9 mm Clear Screw Vials and 9 mm Screw Caps (2 ml)	2 Packs of 100
1193	5 ml Culture tubes with screw cap,	2 Packs of 100
1194	200 µl universal pipette tips	4 packs of 1000
1195	10 µl universal pipette tips	4 packs of 1000
1196	Tin (IV) Oxide, 15 wt% in H ₂ O colloidal dispersion	1
1197	Printer Cartridges HP 88A, CC388AC	3
1198	DDR 2 RAM	1

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1199	Paper Rims A4, 500 pages	5
1200	Pneumatic Grips for Universal Testing Machine(For Gowns Testing)	1 Pair
1201	Bursting strength Tester (For Gowns Testing)	1
1202	Hydrostatic head tester (For Gowns Testing)	1
1203	Flex Tester with Particle Counter	1
1204	Moisture vapor transmission rate and related accessories	1
1205	Dedicated Laminar hood for this application	1
1206	Vacuum filtration assembly	1
1207	Vortex Mixer,	1
1208	Six-Stage Viable Particle Cascade Impactor.	1
1209	Air Pump/Compressor,	1
1210	Peristaltic Pump,	1
1211	Nebulizer,	1
1212	Glass Aerosol Chamber	1
1213	Colony Counter	1
1214	Flow Meters,	1
1215	Aerosol Condenser.	1
1216	Pressure Gauge	1
1217	Penetration Test Cell	2
1218	Water Bath	1
1219	Dumb Bell Die cutter	1
1220	Facility for Biosafety level 2	1
1221	Automated filter tester (For Mask Testing)	1
1222	Aerosol generator	1
1223	Particle dryer	1
1224	Particle sizer and counter	1
1225	Optical Particle counter	1
1226	Flame photometer	1
1227	Forward light scattering photometer	1
1228	Electrical pressure impactor particle mass distributor	1
1229	Six digit micro balance	1
1230	Particle neutralizer	1
1231	Air pump	1
1232	Pressure, temperature and humidity sensor	1 each
1233	Syringe pump	2
1234	Nebulizer	2
1235	Laminar hood	2
1236	Autoclave	2
1237	Oven	2
1238	Incubator	1
1239	Viable six stage cascade impactor	1
1240	Epi Fluorescent spectrometer	1
1241	Spectrophotometer	1
1242	Vacuum filtration assembly	1
1243	Air pump	1

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1244	Flow meter	1
1245	Pressure gauge	2
1246	Manometer (2)	2
1247	Flow controller (2)	2
1248	Temperature, humidity and pressure sensor	1 each
1249	Particle atomizer and counter	1
1250	Automated instrument with Sheffield head	1
1251	Treadmill	1
1252	Hot wire anemometer	2
1253	Air pump	2
1254	Pressure gauge	1
1255	Flow meter and controller	1
1256	Sheffield head	2
1257	Breathing machine (25 cycles/min and 2 l/stroke) with solenoid valves controlled	1
1258	CO2 analyzer (CRDS)	1
1259	Auxiliary lung	1
1260	Non-return valve and Solenoid valve	2 each
1261	Humidifier with dry air controller	1
1262	Flow meter and flow controller	1
1263	Flow sensor, Temperature and humidity sensors	1 each
1264	Gas Flow analyzer/ Ventilator Tester	1
1265	Electrical Safety Analyzer	1
1266	Ventilator	1
1267	Digital Manometer	1
1268	Dual Head 3D printer	1
1269	IR Total radiation Pyrometer (upto 14 μm) (-50 to 500 oC) (L.C. 0.01 oC or better)	1
1270	IR Thermal Imager (-50 to 200 °C) (L.C. 0.1 oC or better)	1
1271	Large aperture variable temperature blackbody	1
1272	High Stability liquid Temperature Bath (20 to 50oC), Stability \pm 0.01 oC along with blackbody cavities for ear thermometers and thermal imagers.	1
1273	Fabrication of blackbody cavities, high emissivity black paint for the cavities, liquid for the baths, etc	1 set
1274	Clinical IR Thermometers (5 nos) and Thermal Imagers/scanners (2 nos)	1 set
1275	Tetrakis(triphenylphosphine)palladium(0)	1
1276	Bromine	1
1277	Copper(I)iodide	1
1278	Potassium iodide	1
1279	Potassium carbonate	1
1280	Hydrofluoric acid (HF)	1
1281	Ammonium cerium(IV)nitrate	1
1282	Tert-butylmethylether	1
1283	Sodium carbonate	1
1284	Sodium bicarbonate	1

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1285	Dichloromethane	1
1286	N-Bromosuccinamide	1
1287	Tetrabutyl Ammonium hexafluorophosphate	1
1288	N,N-Dimethyl formamide, anhydrous(Cat No.- 227056-1L)	2L x 2
1289	1,4-Dioxane (Cat No.-296309-1L)	2L x 2
1290	Cyanuric chloride (C95501-1Kg)	2kg x2
1291	Mesitylene (M7200-500ml)	1L x 2
1292	P-Phenylene diamine free base (P6001-250g)	250g x 1
1293	Melamine (M2659-1Kg)	1Kg x 1
1294	N,N-Diisopropylethylamine (496219-500ml)	500ml x 1
1295	Benzene -1,4-diboronic acid (417130-	10g x 2
1296	Phenylboronic acid (P20009-50g)	100g x 2
1297	Dimethyl sulfoxide hybrid-max sterile(D2650-100ml)	100ml x2
1298	Tetrahydrofuran, anhydrous (401757-2L)	2L x 1
1299	Methanol, anhydrous(322415-2L)	2L x1
1300	Acetic acid, reagent plus(A6283-2.5L)	2.5L x 1
1301	Catechol, 99+% (120-80-9 500g)	500g x 1
1302	Zinc trifluoro methane sulfonate (290068-10g)	10g x 1
1303	Zinc Foil (267619 – 4.5g)	4.5g x 1
1304	Ethanol	500ml x 10
1305	Nitrile globes	15 packets
1306	Acetone	200 lit
1307	Lab coat	10 piece
1308	Temperature indicator	3
1309	Gas Regulator (for N ₂ ,Air ,Oxygen)	Each Two
1310	Testing Charges for Torrefield Products	10
1311	Tissue paper	200 role
1312	Energy Regulator Max Temp1200 Rpm	2
1313	Headphone Bluetooth With Mic SonyR (MDR XB650BTZRE)	2
1314	Pendrive	2
1315	Pendrive USB 3.0.32 GB	15
1316	single element induction heater	3
1317	Microsoft office	1
1318	consumables (RO potable purification system ,spring coupler slit coupling, LR44 battery allen key, remote control unit, silica tube, computer software, pendrive, hard disk CD,mask table lamp hair dryer, kettle box file, non magnetic sample holder for magnetic measurement, XYZ and rotatory stage for magneto optical measurement,)	As per requirement
1319	Recanning of wooden and steel chairs	20
1320	Repair of executive chairs, plastic chairs, revolving chairs	17
1321	Silicon Wafer, P- type Boron doped, 300 nm SiO ₂ GMS	4
1322	Copper Foil, 0.025mm thick, 99.999%, 25x200mm Alfa Aesar 10950	4
1323	Hydrogen Gas	4

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1324	Nitrogen Gas	4
1325	Argon gas	4
1326	Acetone AR	15
1327	Propane-2-ol (IPA)	8
1328	Nitric Acid (merck AR Grade)	10
1329	Magnetic Bead	10
1330	cleaning brush	5
1331	Anisole	1
1332	Crucibles	25
1333	UPS battery and repair	15
1334	Scandium chloride	1
1335	TeO ₂	1
1336	Quartz tube	6

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