S.No.	Instrument Name	Project No.	Qty.
3.NO.			
1	Data Server	OLP225332	1
2	Workstation	OLP225332	1
3	Digital Multimeter	OLP225332	1
4	Computer Monitor	OLP225332	2
5	FPGA development boards	OLP225332	As Per Req.
6	Rubidium frequency std modules	OLP225332	2
7	GNSS Receiver chipset type -I, boards, chips	OLP225332	As Per Req.
8	GNSS Receiver chipset type -II, boards, chips	OLP225332	As Per Req.
9	NTP & PTP cards & accessories	OLP225332	As Per Req.
10	Computer accessories, Electronic accessories & components	OLP225332	As Per Req.
11	RF cable, connectors, and accessories	OLP225332	As Per Req.
12	GNSS signal splitter	OLP225332	1
13	Minicomputer boards & accessories	OLP225332	As Per Req.
14	Machining the box or casing for the instrument and accessories	OLP225332	2
15	Aluminium/Silver/Gold	GAP 190932	As Per Req.
16	Chromium/Tin /copper/Nickle	GAP 190932	As Per Req.
17	Mo boats/spiral boat	GAP 190932	As Per Req.
18	tungustun wire/Al sheet	GAP 190932	1kg
19	ITO/FTO/PET coated glass slides	GAP 190932	As Per Req.
20	CH3NH3Pbl3	GAP 190932	As Per Req.
21	CH3NH3PbCl3	GAP 190932	As Per Req.
22	CH3NH3PbBr3	GAP 190932	As Per Req.
23	CH3NH3Snl3/CsPbBr3	GAP 190932	As Per Req.
24	MAI/Lead iodide/MABr/lead bromide/CoBr/lead chloride	GAP 190932	As Per Req.
25	CESIUM IODIDE	GAP 190932	As Per Req.
26	Cesium(I)chloride	GAP 190932	As Per Req.
27	Cesium(I)bromide	GAP 190932	As Per Req.
28	FORMAMIDINIUM IODIDE	GAP 190932	As Per Req.
	FORMAMIDINIUM Bromide	GAP 190932	As Per Req.
30	FORMAMIDINIUM Chloride	GAP 190932	As Per Req.
31	Organic materials	GAP 190932	As Per Req.
32	Zirconium Oxide/halfnium oxide/Tio2/ZnO/Ca/PEDOT:PSS	GAP 190932	As Per Req.
33	DH6T/P3HT/Penatacene	GAP 190932	As Per Req.
34	NiO/NiBr	GAP 190932	As Per Req.
35	MoO3	GAP 190932	As Per Req.
36	C60	GAP 190932	As Per Req.
37	Vendium Oxide/LiF	GAP 190932	As Per Req.
38	PVDF	GAP 190932	As Per Req.
39	Tungusten Trioxide	GAP 190932	As Per Req.
40	Nitrile glooves /cap	GAP 190932	As Per Req.
41	Surgical Mask	GAP 190932	As Per Req.
42	Plastic ware like Utility Tray,pins etc	GAP 190932	As Per Req.
43	PTFE filter	GAP 190932	50pkts

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

Specific   Specific	44	Micro tips	GAP 190932	200
Tissue				
477         Anhy, Solvent         GAP 190932         As Per Req.           48         Benzoyl bromide         GAP 190932         As Per Req.           59         Other Consumable materials         GAP 190932         As Per Req.           51         Acetone         GAP 190932         As Per Req.           51         Acetone         GAP 190932         20ltr           52         Iso-Propanal         GAP 190932         20ltr           54         Tollune         GAP 190932         10ltr           55         Pipette         GAP 190932         5ltr           56         Electronic components(LED, diode, resistor, transistor, bread board etc)         GAP 190932         10           57         Electronic chip(raspeberry pi with RAM, arduino uno,board, etc)         GAP 190932         As Per Req.           58         Laptop/computer accessories/(heating fan, keyboard, mouse, wire etc)         GAP 190932         As Per Req.           59         Pen drive /ear phone/scd card/HDD/SDD/RAM         GAP 190932         As Per Req.           60         List photop kit/screw driver kit         GAP 190932         As Per Req.           61         USB nub/rook kit/screw driver kit         GAP 190932         As Per Req.           62         Cable/connecting wire <t< td=""><td></td><td></td><td></td><td>,</td></t<>				,
488         Benzoyl bromide         GAP 190932         As Per Req.           499         OMF/OMSO/GBL/Cyclopentane         GAP 190932         As Per Req.           500         Other Consumable materials         GAP 190932         As Per Req.           511         Acetone         GAP 190932         20ltr           52         Iso-Propanal         GAP 190932         20ltr           53         Soap solution         GAP 190932         10ltr           54         Tolune         GAP 190932         10ltr           55         Flipette         GAP 190932         10           56         Electronic components(LED, diode, resistor, transistor, bread board etc)         GAP 190932         10           57         Electronic chip(raspeberry pi with RAM, arduino uno, board, etc)         GAP 190932         As Per Req.           58         Lajtop/computer accessories(heating fan, keyboard, mouse, wire etc)         GAP 190932         As Per Req.           68         GAP 190932         As Per Req.         GAP 190932         As Per Req.           60         Power bank/DVD writer/extension board/CD         GAP 190932         As Per Req.           61         USB hub/tool kir/screw driver kit         GAP 190932         As Per Req.           62         Repairing instrume				·
MMF/DMSO/GBL/Cyclopentane				
50         Other Consumable materials         GAP 190932         As Per Req.           51         Acetone         GAP 190932         20ltr           52         Iso-Propanal         GAP 190932         20ltr           53         Soap solution         GAP 190932         10ltr           54         Tolune         GAP 190932         5ltr           55         Pipette         GAP 190932         10           56         Electronic components(LED, diode, resistor, transistor, bread board etc)         GAP 190932         As Per Req.           57         Electronic components(LED, diode, resistor, transistor, bread board etc)         GAP 190932         As Per Req.           58         Laptop/computer accessories(heating fan, keyboard, mouse, wire etc)         GAP 190932         As Per Req.           59         Pen drive /ear phone/sd card/HDD/SDD/RAM         GAP 190932         As Per Req.           60         Power bank/DVD writer/extension board/CD         GAP 190932         As Per Req.           61         USB hub/tool kit/screw driver kit         GAP 190932         As Per Req.           62         Cable/connecting wire         GAP 190932         As Per Req.           63         Repairing instruments/printer/laptop/computer         GAP 190932         As Per Req.		•		'
Acetone   GAP 190932   20ltr				
So-Propanal   So-Propanal   GAP 190932   201tr				•
Soap solution				
Tolune				
Figure   F				
Electronic components(LED, diode, resistor, transistor, bread board etc)   GAP 190932   As Per Req.				
Electronic chip(raspeberry pi with RAM,arduino uno,board,etc)		Pipette	GAP 190932	10
58         Laptop/computer accessories(heating fan,keyboard,mouse,wire etc)         GAP 190932         As Per Req.           59         Pen drive /ear phone/sd card/HDD/SDD/RAM         GAP 190932         50           60         Power bank/DVD writer/extension board/CD         GAP 190932         As Per Req.           61         USB hub/tool kit/screw driver kit         GAP 190932         As Per Req.           62         Cable/connecting wire         GAP 190932         As Per Req.           63         Repairing instruments/printer/laptop/computer         GAP 190932         As Per Req.           64         Scissor/cutting tool         GAP 190932         As Per Req.           65         Stationary items (pen,Note Pad,paper,ink,envelopetc)         GAP 190932         As Per Req.           66         Register         GAP 190932         As Per Req.           67         Glass ware and stationary items helpons to P4 category etc 1 nrinter         GAP 190932         As Per Req.           68         Electrical Source Measure Unit         MILP211732         1           69         Microscope with camera         MILP211732         1           70         Micromanipulator         MILP211732         1           71         Micromanipulator platform plate and Accessories         MILP211732         1				As Per Req.
59         Pen drive /ear phone/sd card/HDD/SDD/RAM         GAP 190932         50           60         Power bank/DVD writer/extension board/CD         GAP 190932         As Per Req.           61         USB hub/lool kit/screw driver kit         GAP 190932         As Per Req.           62         Cable/connecting wire         GAP 190932         As Per Req.           63         Repairing instruments/printer/laptop/computer         GAP 190932         As Per Req.           64         Scissor/cutting tool         GAP 190932         As Per Req.           66         Register         GAP 190932         As Per Req.           67         Clare unclassified Lab consumables, chemicals, micropepettes, class ware and stationary items belongs to P4 category etc.) printer         GAP 190932         As Per Req.           68         Electrical Source Measure Unit         MLP211732         1           Microscope with camera         MLP211732         1           71         Micromanipulator platform plate and Accessories         MLP211732         1           72         xyz movable sample holder         MLP211732         1           73         Platinized Silicon wafers         MLP211732         1           74         High purity Alumina tube (99.7%)         MLP211732         4           Alum		Electronic chip(raspeberry pi with RAM,arduino uno,board,etc)		As Per Req.
Fower bank/DVD writer/extension board/CD	58	Laptop/computer accessories(heating fan,keyboard,mouse,wire etc)	GAP 190932	As Per Req.
61         USB hub/tool kit/screw driver kit         GAP 190932         As Per Req.           62         Cable/connecting wire         GAP 190932         As Per Req.           63         Repairing instruments/printer/laptop/computer         GAP 190932         As Per Req.           64         Scissor/cutting tool         GAP 190932         As Per Req.           65         Stationary items (pen,Note Pad,paper,ink,envelopetc)         GAP 190932         As Per Req.           66         Register         GAP 190932         As Per Req.           67         Utner unclassified Lab consumables, chemicals, micropepettes, Class ware and stationary items belongs to P4 category etc.) printer         GAP 190932         As Per Req.           68         Electrical Source Measure Unit         MLP211732         1           69         Microscope with camera         MLP211732         1           70         Micromanipulator         MLP211732         1           71         Micromanipulator platform plate and Accessories         MLP211732         1           72         xyz movable sample holder         MLP211732         1           73         Platinized Silicon wafers         MLP211732         2           74         High purity Alumina tube (99.7%)         MLP211732         4 <t< td=""><td>59</td><td>Pen drive /ear phone/sd card/HDD/SDD/RAM</td><td>GAP 190932</td><td>50</td></t<>	59	Pen drive /ear phone/sd card/HDD/SDD/RAM	GAP 190932	50
62         Cable/connecting wire         GAP 190932         As Per Req.           63         Repairing instruments/printer/laptop/computer         GAP 190932         As Per Req.           64         Scissor/cutting tool         GAP 190932         50           65         Stationary items (pen,Note Pad,paper,ink,envelopetc)         GAP 190932         As Per Req.           66         Register         GAP 190932         As Per Req.           67         Glass ware, and stationary items belongs to P4 category etc.) printer         GAP 190932         As Per Req.           68         Electrical Source Measure Unit         MLP211732         1           69         Microscope with camera         MLP211732         1           70         Micromanipulator         MLP211732         1           71         Micromanipulator platform plate and Accessories         MLP211732         1           72         xyz movable sample holder         MLP211732         1           73         Platinized Silicon wafers         MLP211732         2           74         High purity Alumina tube (99.7%)         MLP211732         4           75         Alumina boats (3 ml, 7 ml, 15 ml, 30 ml)         MLP211732         40           76         Quartz boats (3 ml, 7 ml, 15 ml, 30 ml)	60	Power bank/DVD writer/extension board/CD	GAP 190932	As Per Req.
63         Repairing instruments/printer/laptop/computer         GAP 190932         As Per Req.           64         Scissor/cutting tool         GAP 190932         50           65         Stationary items (pen,Note Pad,paper,ink,envelopetc)         GAP 190932         As Per Req.           66         Register         GAP 190932         50           67         Glass ware and stationary items helongs to P4 category etc.) printer         GAP 190932         As Per Req.           68         Electrical Source Measure Unit         MLP211732         1           69         Microscope with camera         MLP211732         1           70         Micromanipulator         MLP211732         1           71         Micromanipulator platform plate and Accessories         MLP211732         1           72         xyz movable sample holder         MLP211732         1           73         Platinized Silicon wafers         MLP211732         2           74         High purity Alumina tube (99.7%)         MLP211732         4           75         Alumina boats (3 ml, 7 ml, 15 ml, 30 ml)         MLP211732         40           76         Quartz boats (3 ml, 7 ml, 15 ml, 30 ml)         MLP211732         40           79         Sputtering and PLD targets (MoS2, WS2, WSe2,MoSe2, Pd	61	USB hub/tool kit/screw driver kit	GAP 190932	As Per Req.
64         Scissor/cutting tool         GAP 190932         50           65         Stationary items (pen,Note Pad,paper,ink,envelopetc)         GAP 190932         As Per Req.           66         Register         GAP 190932         50           67         Glass ware and stationary item-helongs to PA category etc.) printer         GAP 190932         As Per Req.           68         Electrical Source Measure Unit         MLP211732         1           69         Microscope with camera         MLP211732         1           70         Micromanipulator         MLP211732         1           71         Micromanipulator platform plate and Accessories         MLP211732         1           72         xyz movable sample holder         MLP211732         1           73         Platinized Silicon wafers         MLP211732         2           74         High purity Alumina tube (99.7%)         MLP211732         4           75         Alumina boats (3 ml, 7 ml, 15 ml, 30 ml)         MLP211732         40           76         Quartz boats (3 ml, 7 ml, 15 ml, 30 ml)         MLP211732         40           79         Sputtering and PLD targets (MoS2, WS2, WSe2, MoSe2, PdSe2, PTSe, HfSe2, Bi2Se8, Bi2Te3, Ga2O3, Pt, Au, Ti etc         MLP211732         As Per Req.           80	62	Cable/connecting wire	GAP 190932	As Per Req.
65         Stationary items (pen,Note Pad,paper,ink,envelopetc)         GAP 190932         As Per Req.           66         Register         GAP 190932         50           67         Other unclassified Lab consumables, chemicals, micropepettes , Glass ware and stationary item- helpons to P4 category etc.) printer         GAP 190932         As Per Req.           68         Electrical Source Measure Unit         MLP211732         1           69         Microscope with camera         MLP211732         1           70         Micromanipulator         MLP211732         1           71         Micromanipulator platform plate and Accessories         MLP211732         1           72         xyz movable sample holder         MLP211732         1           73         Platinized Silicon wafers         MLP211732         2           74         High purity Alumina tube (99.7%)         MLP211732         4           75         Alumina boats (3 ml, 7 ml, 15 ml, 30 ml)         MLP211732         40           76         Quartz boats (3 ml, 7 ml, 15 ml, 30 ml)         MLP211732         40           77         Quartz plates (1x1 inch)         MLP211732         50           78         RF coil         MLP211732         1         each           79         Sputtering and	63	Repairing instruments/printer/laptop/computer	GAP 190932	As Per Req.
66         Register         GAP 190932         50           67         Other unclassified Lab consumables, chemicals, micropepettes, Glass ware and stationary item-helions to P4 category etc.) printer         GAP 190932         As Per Req.           68         Electrical Source Measure Unit         MLP211732         1           69         Microscope with camera         MLP211732         1           70         Micromanipulator         MLP211732         4           71         Micromanipulator platform plate and Accessories         MLP211732         1           72         xyz movable sample holder         MLP211732         1           73         Platinized Silicon wafers         MLP211732         1           74         High purity Alumina tube (99.7%)         MLP211732         2           74         High purity Alumina tube (99.7%)         MLP211732         4           75         Alumina boats (3 ml, 7 ml, 15 ml, 30 ml)         MLP211732         40           76         Quartz boats (3 ml, 7 ml, 15 ml, 30 ml)         MLP211732         40           77         Quartz plates (1x1 inch)         MLP211732         50           78         RF coil         MLP211732         1           80         Gases (Ar, N2, O2, CH4, etc)         MLP211732	64	Scissor/cutting tool	GAP 190932	50
Glass ware and stationary item-belonds to P4 category etc.) printer  68 Electrical Source Measure Unit  69 Microscope with camera  70 Micromanipulator  71 Micromanipulator platform plate and Accessories  72 xyz movable sample holder  73 Platinized Silicon wafers  74 High purity Alumina tube (99.7%)  75 Alumina boats (3 ml, 7 ml, 15 ml, 30 ml)  76 Quartz boats (3 ml, 7 ml, 15 ml, 30 ml)  77 Quartz plates (1x1 inch)  78 RF coil  79 Sputtering and PLD targets (MoS2, WS2, WSe2, MoSe2, PdSe2, PTSe, HfSe2, Bi2Se8, Bi2Te3, Ga2O3, Pt, Au, Ti etc  80 Gases (Ar, N2, O2, CH4, etc)  81 Substrates (GaN template, STO, MoS2, saphire etc)  82 Electrical cables and accessories (GPIB, BNC, Triax, Interface, adapters, etc.)  83 Dessicator, sample boxes (membrane boxes etc)  74 Office equipment  75 Alumina boats (3 ml, 7 ml, 15 ml, 30 ml)  76 Quartz boats (3 ml, 7 ml, 15 ml, 30 ml)  77 Quartz plates (1x1 inch)  88 Gases (Ar, N2, O2, CH4, etc)  89 Gases (Ar, N2, O2, CH4, etc)  80 Gases (Ar, N2, O2, CH4, etc)  81 Substrates (GaN template, STO, MoS2, saphire etc)  82 Electrical cables and accessories (GPIB, BNC, Triax, Interface, adapters, etc.)  80 Geses (Ar, N2, O2, CH4, etc)  81 Office equipment  81 Office equipment  82 As Per Req.  83 Office equipment  84 Office equipment	65	Stationary items (pen,Note Pad,paper,ink,envelopetc)	GAP 190932	As Per Req.
Glass ware and stationary item- belonds to P4 category etc.)   nrinter	66	Register	GAP 190932	50
Electrical Source Measure Unit   MLP211732   1	67		GAP 190932	As Per Reg.
70         Micromanipulator         MLP211732         4           71         Micromanipulator platform plate and Accessories         MLP211732         1           72         xyz movable sample holder         MLP211732         1           73         Platinized Silicon wafers         MLP211732         2           74         High purity Alumina tube (99.7%)         MLP211732         4           75         Alumina boats (3 ml, 7 ml, 15 ml, 30 ml)         MLP211732         40           76         Quartz boats (3 ml, 7 ml, 15 ml, 30 ml)         MLP211732         40           77         Quartz plates (1x1 inch)         MLP211732         50           78         RF coil         MLP211732         1           79         Sputtering and PLD targets (MoS2, WS2, WSe2, MoSe2, PdSe2, PTSe, HfSe2, Bi2Se8, Bi2Te3, Ga2O3, Pt, Au, Ti etc         MLP211732         1 each           80         Gases (Ar, N2, O2, CH4, etc)         MLP211732         As Per Req.           81         Substrates (GaN template, STO, MoS2, saphire etc)         MLP211732         As Per Req.           82         Electrical cables and accessories (GPIB, BNC, Triax, Interface, adapters, etc.)         MLP211732         As Per Req.           83         Dessicator, sample boxes (membrane boxes etc)         MLP211732         As Per Req.	68		MLP211732	
71         Micromanipulator platform plate and Accessories         MLP211732         1           72         xyz movable sample holder         MLP211732         1           73         Platinized Silicon wafers         MLP211732         2           74         High purity Alumina tube (99.7%)         MLP211732         4           75         Alumina boats (3 ml, 7 ml, 15 ml, 30 ml)         MLP211732         40           76         Quartz boats (3 ml, 7 ml, 15 ml, 30 ml)         MLP211732         40           77         Quartz plates (1x1 inch)         MLP211732         50           78         RF coil         MLP211732         1           79         Sputtering and PLD targets (MoS2, WS2, WSe2,MoSe2, PdSe2, PTSe, HfSe2, Bi2Se8, Bi2Te3, Ga2O3, Pt, Au, Ti etc         MLP211732         1 each           80         Gases (Ar, N2, O2, CH4, etc)         MLP211732         As Per Req.           81         Substrates (GaN template, STO, MoS2, saphire etc)         MLP211732         As Per Req.           82         Electrical cables and accessories (GPIB, BNC, Triax, Interface, adapters, etc.)         MLP211732         As Per Req.           83         Dessicator, sample boxes (membrane boxes etc)         MLP211732         As Per Req.           84         Office furniture         MLP211732         As Per	69	Microscope with camera	MLP211732	1
71         Micromanipulator platform plate and Accessories         MLP211732         1           72         xyz movable sample holder         MLP211732         1           73         Platinized Silicon wafers         MLP211732         2           74         High purity Alumina tube (99.7%)         MLP211732         4           75         Alumina boats (3 ml, 7 ml, 15 ml, 30 ml)         MLP211732         40           76         Quartz boats (3 ml, 7 ml, 15 ml, 30 ml)         MLP211732         40           77         Quartz plates (1x1 inch)         MLP211732         50           78         RF coil         MLP211732         1           79         Sputtering and PLD targets (MoS2, WS2, WSe2, MoSe2, PdSe2, PTSe, HfSe2, Bi2Se8, Bi2Te3, Ga2O3, Pt, Au, Ti etc         MLP211732         1 each           80         Gases (Ar, N2, O2, CH4, etc)         MLP211732         As Per Req.           81         Substrates (GaN template, STO, MoS2, saphire etc)         MLP211732         As Per Req.           82         Electrical cables and accessories (GPIB, BNC, Triax, Interface, adapters, etc.)         MLP211732         As Per Req.           83         Dessicator, sample boxes (membrane boxes etc)         MLP211732         As Per Req.           84         Office equipment         MLP211732         As Per	70	Micromanipulator	MLP211732	4
72         xyz movable sample holder         MLP211732         1           73         Platinized Silicon wafers         MLP211732         2           74         High purity Alumina tube (99.7%)         MLP211732         4           75         Alumina boats (3 ml, 7 ml, 15 ml, 30 ml)         MLP211732         40           76         Quartz boats (3 ml, 7 ml, 15 ml, 30 ml)         MLP211732         40           77         Quartz plates (1x1 inch)         MLP211732         50           78         RF coil         MLP211732         1           79         Sputtering and PLD targets (MoS2, WS2, WSe2,MoSe2, PdSe2, PdSe2, PTSe, HfSe2, Bi2Se8, Bi2Te3, Ga2O3, Pt, Au, Ti etc         MLP211732         1 each           80         Gases (Ar, N2, O2, CH4, etc)         MLP211732         As Per Req.           81         Substrates (GaN template, STO, MoS2, saphire etc)         MLP211732         As Per Req.           82         Electrical cables and accessories (GPIB, BNC, Triax, Interface, adapters, etc.)         MLP211732         As Per Req.           83         Dessicator, sample boxes (membrane boxes etc)         MLP211732         As Per Req.           84         Office furniture         MLP211732         As Per Req.           85         Office equipment         MLP211732         As Per Req.	71	·	MLP211732	1
73         Platinized Silicon wafers         MLP211732         2           74         High purity Alumina tube (99.7%)         MLP211732         4           75         Alumina boats (3 ml, 7 ml, 15 ml, 30 ml)         MLP211732         40           76         Quartz boats (3 ml, 7 ml, 15 ml, 30 ml)         MLP211732         40           77         Quartz plates (1x1 inch)         MLP211732         50           78         RF coil         MLP211732         1           79         Sputtering and PLD targets (MoS2, WS2, WSe2, MoSe2, PdSe2, PTSe, HfSe2, Bi2Se8, Bi2Te3, Ga2O3, Pt, Au, Ti etc         MLP211732         1 each           80         Gases (Ar, N2, O2, CH4, etc)         MLP211732         As Per Req.           81         Substrates (GaN template, STO, MoS2, saphire etc)         MLP211732         As Per Req.           82         Electrical cables and accessories (GPIB, BNC, Triax, Interface, adapters, etc.)         MLP211732         As Per Req.           83         Dessicator, sample boxes (membrane boxes etc)         MLP211732         As Per Req.           84         Office furniture         MLP211732         As Per Req.           85         Office equipment         MLP211732         As Per Req.	72		MLP211732	
74         High purity Alumina tube (99.7%)         MLP211732         4           75         Alumina boats (3 ml, 7 ml, 15 ml, 30 ml)         MLP211732         40           76         Quartz boats (3 ml, 7 ml, 15 ml, 30 ml)         MLP211732         40           77         Quartz plates (1x1 inch)         MLP211732         50           78         RF coil         MLP211732         1           79         Sputtering and PLD targets (MoS2, WS2, WSe2, MoSe2, PdSe2, PTSe, HfSe2, Bi2Se8, Bi2Te3, Ga2O3, Pt, Au, Ti etc         MLP211732         1 each           80         Gases (Ar, N2, O2, CH4, etc)         MLP211732         As Per Req.           81         Substrates (GaN template, STO, MoS2, saphire etc)         MLP211732         As Per Req.           82         Electrical cables and accessories (GPIB, BNC, Triax, Interface, adapters, etc.)         MLP211732         As Per Req.           83         Dessicator, sample boxes (membrane boxes etc)         MLP211732         As Per Req.           84         Office furniture         MLP211732         As Per Req.           85         Office equipment         MLP211732         As Per Req.	73	Platinized Silicon wafers	MLP211732	
75       Alumina boats (3 ml, 7 ml, 15 ml, 30 ml)       MLP211732       40         76       Quartz boats (3 ml, 7 ml, 15 ml, 30 ml)       MLP211732       40         77       Quartz plates (1x1 inch)       MLP211732       50         78       RF coil       MLP211732       1         79       Sputtering and PLD targets (MoS2, WS2, WSe2, MoSe2, PdSe2, PTSe, HfSe2, Bi2Se8, Bi2Te3, Ga2O3, Pt, Au, Ti etc       MLP211732       1 each         80       Gases (Ar, N2, O2, CH4, etc)       MLP211732       As Per Req.         81       Substrates (GaN template, STO, MoS2, saphire etc)       MLP211732       As Per Req.         82       Electrical cables and accessories (GPIB, BNC, Triax, Interface, adapters, etc.)       MLP211732       As Per Req.         83       Dessicator, sample boxes (membrane boxes etc)       MLP211732       As Per Req.         84       Office furniture       MLP211732       As Per Req.         85       Office equipment       MLP211732       As Per Req.	74		MLP211732	
76Quartz boats (3 ml, 7 ml, 15 ml, 30 ml)MLP2117324077Quartz plates (1x1 inch)MLP2117325078RF coilMLP211732179Sputtering and PLD targets (MoS2, WS2, WSe2, MoSe2, PdSe2, PTSe, HfSe2, Bi2Se8, Bi2Te3, Ga2O3, Pt, Au, Ti etcMLP2117321 each80Gases (Ar, N2, O2, CH4, etc)MLP211732As Per Req.81Substrates (GaN template, STO, MoS2, saphire etc)MLP211732As Per Req.82Electrical cables and accessories (GPIB, BNC, Triax, Interface, adapters, etc.)MLP211732As Per Req.83Dessicator, sample boxes (membrane boxes etc)MLP211732As Per Req.84Office furnitureMLP211732As Per Req.85Office equipmentMLP211732As Per Req.	75		MLP211732	40
77 Quartz plates (1x1 inch)  78 RF coil  79 Sputtering and PLD targets (MoS2, WS2, WSe2,MoSe2, PdSe2, PTSe, HfSe2, Bi2Se8, Bi2Te3, Ga2O3, Pt, Au, Ti etc  80 Gases (Ar, N2, O2, CH4, etc)  81 Substrates (GaN template, STO, MoS2, saphire etc)  82 Electrical cables and accessories (GPIB, BNC, Triax, Interface, adapters, etc.)  83 Dessicator, sample boxes (membrane boxes etc)  84 Office furniture  Office equipment  MLP211732  50  MLP211732  1 each  MLP211732  As Per Req.	76	· · · · · · · · · · · · · · · · · · ·	MLP211732	
78 RF coil 79 Sputtering and PLD targets (MoS2, WS2, WSe2, MoSe2, PdSe2, PTSe, HfSe2, Bi2Se8, Bi2Te3, Ga2O3, Pt, Au, Ti etc 80 Gases (Ar, N2, O2, CH4, etc) 81 Substrates (GaN template, STO, MoS2, saphire etc) 82 Electrical cables and accessories (GPIB, BNC, Triax, Interface, adapters, etc.) 83 Dessicator, sample boxes (membrane boxes etc) 84 Office furniture 85 Office equipment  MLP211732  1 each MLP211732  As Per Req.	77	· · · · · · · · · · · · · · · · · · ·	MLP211732	
79 Sputtering and PLD targets (MoS2, WS2, WSe2, MoSe2, PdSe2, PTSe, HfSe2, Bi2Se8, Bi2Te3, Ga2O3, Pt, Au, Ti etc  80 Gases (Ar, N2, O2, CH4, etc)  81 Substrates (GaN template, STO, MoS2, saphire etc)  82 Electrical cables and accessories (GPIB, BNC, Triax, Interface, adapters, etc.)  83 Dessicator, sample boxes (membrane boxes etc)  84 Office furniture  85 Office equipment  Sputtering and PLD targets (MoS2, WS2, WSe2, MoSe2, PdSe2, MLP211732  As Per Req.	78	. , ,		
80 Gases (Ar, N2, O2, CH4, etc) 81 Substrates (GaN template, STO, MoS2, saphire etc) 82 Electrical cables and accessories (GPIB, BNC, Triax, Interface, adapters, etc.) 83 Dessicator, sample boxes (membrane boxes etc) 84 Office furniture 85 Office equipment  MLP211732 As Per Req.  MLP211732 As Per Req.  MLP211732 As Per Req.  MLP211732 As Per Req.		Sputtering and PLD targets (MoS2, WS2, WSe2,MoSe2, PdSe2,		
Substrates (GaN template, STO, MoS2, saphire etc)  Electrical cables and accessories (GPIB, BNC, Triax, Interface, adapters, etc.)  Dessicator, sample boxes (membrane boxes etc)  MLP211732  As Per Req.	80			As Per Rea.
82 Electrical cables and accessories (GPIB, BNC, Triax, Interface, adapters, etc.)  83 Dessicator, sample boxes (membrane boxes etc)  84 Office furniture  85 Office equipment  86 Electrical cables and accessories (GPIB, BNC, Triax, Interface, MLP211732  As Per Req.  86 MLP211732  As Per Req.  87 MLP211732  As Per Req.  88 MLP211732  As Per Req.	81	• • • • • • • • • • • • • • • • • • • •		·
adapters, etc.)  83 Dessicator, sample boxes (membrane boxes etc)  84 Office furniture  85 Office equipment  MLP211732 As Per Req.  MLP211732 As Per Req.  MLP211732 As Per Req.  MLP211732 As Per Req.				•
84 Office furniture  85 Office equipment  MLP211732 As Per Req.  MLP211732 As Per Req.			MLP211732	As Per Keq.
85 Office equipment MLP211732 As Per Req.	83	Dessicator, sample boxes (membrane boxes etc)		As Per Req.
	84	Office furniture	MLP211732	As Per Req.
86 Symposia/workshop/conference/seminar registration MLP211732 As Per Req.	85	Office equipment	MLP211732	As Per Req.
<u>.                                    </u>	86	Symposia/workshop/conference/seminar registration	MLP211732	As Per Req.

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

Ring gauges  Mic Check Set  Mic Check Set  Optical Parallel Set  CCD Camera  Standards Artefacts  Set of Weights from 1mg to 1kg : F1 Class  Weighing balance (dual range), capacity 200g.  Set of Weights from 1mg to 1kg : E2 class  Weighing balance (dual range), capacity 2kg , LC = 0.01  MWP 100  Set of Weights from 1mg to 1kg : E2 class  Weighing balance (dual range), capacity 2kg , LC = 0.01  NWP 100  Phyp 100  RWP 100  Phyp 100  Standards Hydrometers/Pressure Gauge  Environment monitoring systems, 4 nos. (Temperature sensors/air pressure sensors, humidity sensors with digital /analog display etc.)  Standards Hydrometers , Standard viscometer, Viscosity Oil  Chemicals and other electrical, electronic and mechanical components , tools , optics (like mirrors, beam splitters, windows ), mounts and consumables , glassware, plastic wares, filtration systems, dialysis membrane etc.  Miscellaneous- High Current Cables, copper earthing strip, special	er Req. Set Set Set 1 1 Set 1 Set 1 Set 1 Fer Req. Fer Req.
NWP 100   1	Set  1  1  Set  1  Set  1  Set  1  4  Fer Req.
91 CCD Camera 92 Standards Artefacts Magnetic Mounts 93 Set of Weights from 1mg to 1kg: F1 Class 94 Weighing balance (dual range), capacity 200g. 95 Set of Weights from 1mg to 1kg: E2 class 96 Weighing balance (dual range), capacity 2kg, LC = 0.01 97 Laptop 98 Digital Barometer/Pressure Gauge 99 Environment monitoring systems, 4 nos. (Temperature sensors/air pressure sensors, humidity sensors with digital /analog display etc.) 100 Standards Hydrometers , Standard viscometer, Viscosity Oil 101 Chemicals and other electrical, electronic and mechanical components , tools , optics (like mirrors, beam splitters, windows), mounts and consumables , glassware, plastic wares, filtration systems, dialysis membrane etc.  102 Miscellaneous- High Current Cables, copper earthing strip, special connectors, high quality connecting leads, adaptors, pipes, fittings,  NWP 100  NWP 100  As Potential Processor of the process of	1 1 . Set 1 . Set 1 1 1 4 er Req.
92       Standards Artefacts       Magnetic Mounts       NWP 100         93       Set of Weights from 1mg to 1kg : F1 Class       NWP 100       1         94       Weighing balance (dual range), capacity 200g.       NWP 100       1         95       Set of Weights from 1mg to 1kg : E2 class       NWP 100       1         96       Weighing balance (dual range), capacity 2kg , LC = 0.01       NWP 100       1         97       Laptop       NWP 100       NWP 100         98       Digital Barometer/Pressure Gauge       NWP 100       NWP 100         99       Environment monitoring systems, 4 nos. (Temperature sensors/air pressure sensors, humidity sensors with digital /analog display etc.)       NWP 100       NWP 100         100       Standards Hydrometers , Standard viscometer, Viscosity Oil       NWP 100       As Polymore and the components , tools , optics (like mirrors, beam splitters, windows ), mounts and consumables , glassware, plastic wares, filtration systems, dialysis membrane etc.       NWP 100       As Polymore and place and pla	1 Set 1 Set 1 1 1 1 4 Per Req.
93 Set of Weights from 1mg to 1kg: F1 Class  94 Weighing balance (dual range), capacity 200g.  95 Set of Weights from 1mg to 1kg: E2 class  96 Weighing balance (dual range), capacity 2kg, LC = 0.01  97 Laptop  98 Digital Barometer/Pressure Gauge  99 Environment monitoring systems, 4 nos. (Temperature sensors/air pressure sensors, humidity sensors with digital /analog display etc.)  100 Standards Hydrometers, Standard viscometer, Viscosity Oil  101 Chemicals and other electrical, electronic and mechanical components, tools, optics (like mirrors, beam splitters, windows), mounts and consumables, glassware, plastic wares, filtration systems, dialysis membrane etc.  102 Miscellaneous- High Current Cables, copper earthing strip, special connectors, high quality connecting leads, adaptors, pipes, fittings,  NWP 100  1 NWP 100  NWP 100  NWP 100  As Potential Set of Weights from 1mg to 1kg: E2 class NWP 100  NWP 100  NWP 100  As Potential Set of Weights from 1mg to 1kg: E2 class NWP 100  NWP 100  As Potential Set of Weights from 1mg to 1kg: E2 class NWP 100  NWP 100  As Potential Set of Weights from 1mg to 1kg: E2 class NWP 100  NWP 100  As Potential Set of Weights from 1mg to 1kg: E2 class NWP 100  NWP 100  NWP 100  NWP 100  As Potential Set of Weights from 1mg to 1kg: E2 class NWP 100  NWP 100  As Potential Set of Weights from 1mg to 1kg: E2 class NWP 100  NWP 100  NWP 100  NWP 100  NWP 100  As Potential Set of Weights from 1mg to 1kg: E2 class NWP 100  As Potential Set of Weights from 1mg to 1kg: E2 class NWP 100  As Potential Set of Weights from 1mg to 1kg: E2 class NWP 100  As Potential Set of Weights from 1mg to 1kg: E2 class NWP 100  NWP 100  As Potential Set of Weights from 1mg to 1kg: E2 class NWP 100  NWP 100  As Potential Set of Weights from 1mg to 1kg: E2 class NWP 100  NWP 100  As Potential Set of Weights from 1mg to 1kg: E2 class NWP 100  As Potential Set of Weights from 1mg to 1kg: E2 class NWP 100  As Potential Set of Weights from 1mg to 1kg: E2 class NWP 100  NWP 100  As Potential Set of Weights from 1	Set  1 Set  1 1 1 4 Per Req.
94 Weighing balance (dual range), capacity 200g.  95 Set of Weights from 1mg to 1kg : E2 class  96 Weighing balance (dual range), capacity 2kg , LC = 0.01  97 Laptop  98 Digital Barometer/Pressure Gauge  99 Environment monitoring systems, 4 nos. (Temperature sensors/air pressure sensors, humidity sensors with digital /analog display etc.)  100 Standards Hydrometers , Standard viscometer, Viscosity Oil  101 Chemicals and other electrical, electronic and mechanical components , tools , optics (like mirrors, beam splitters, windows ), mounts and consumables , glassware, plastic wares, filtration systems, dialysis membrane etc.  102 Miscellaneous- High Current Cables, copper earthing strip, special connectors, high quality connecting leads, adaptors, pipes, fittings,  NWP 100  NWP 100  NWP 100  As Po	1 Set 1 1 1 4 Per Req.
95 Set of Weights from 1mg to 1kg: E2 class  96 Weighing balance (dual range), capacity 2kg, LC = 0.01  97 Laptop  98 Digital Barometer/Pressure Gauge  99 Environment monitoring systems, 4 nos. (Temperature sensors/air pressure sensors, humidity sensors with digital /analog display etc.)  100 Standards Hydrometers, Standard viscometer, Viscosity Oil  101 Chemicals and other electrical, electronic and mechanical components, tools, optics (like mirrors, beam splitters, windows), mounts and consumables, glassware, plastic wares, filtration systems, dialysis membrane etc.  102 Miscellaneous- High Current Cables, copper earthing strip, special connectors, high quality connecting leads, adaptors, pipes, fittings,  As Personnectors, high quality connecting leads, adaptors, pipes, fittings,	Set  1  1  4  Per Req.
96 Weighing balance (dual range), capacity 2kg, LC = 0.01  97 Laptop  98 Digital Barometer/Pressure Gauge  99 Environment monitoring systems, 4 nos. (Temperature sensors/air pressure sensors, humidity sensors with digital /analog display etc.)  100 Standards Hydrometers, Standard viscometer, Viscosity Oil  101 Chemicals and other electrical, electronic and mechanical components, tools, optics (like mirrors, beam splitters, windows), mounts and consumables, glassware, plastic wares, filtration systems, dialysis membrane etc.  102 Miscellaneous- High Current Cables, copper earthing strip, special connectors, high quality connecting leads, adaptors, pipes, fittings,  As Political Strip (Strip) (S	1 1 4 Per Req.
97 Laptop  98 Digital Barometer/Pressure Gauge  99 Environment monitoring systems, 4 nos. (Temperature sensors/air pressure sensors, humidity sensors with digital /analog display etc.)  100 Standards Hydrometers, Standard viscometer, Viscosity Oil  101 Chemicals and other electrical, electronic and mechanical components, tools, optics (like mirrors, beam splitters, windows), mounts and consumables, glassware, plastic wares, filtration systems, dialysis membrane etc.  102 Miscellaneous- High Current Cables, copper earthing strip, special connectors, high quality connecting leads, adaptors, pipes, fittings,  NWP 100  NWP 100  NWP 100  As Potential Components (like mirrors) and mechanical provided (like mirrors) and mechanical components, windows (like mirrors) and mechanical provided (like mirrors) and mechanical components, windows (like mirrors) and mechanical provided (like mirrors) and mechanical components, windows (like mirrors) and mechanical provided (like mirrors) and mechanical components, windows (like mirrors) and mechanical provided (like mirrors) and mechanical components, windows (like mirrors) and mechanical provided (like mirrors) and mechanical components (like mirrors) and mechanical provided (like mirrors) and mechanical components (like mirrors) and mechanical provided (like mirrors) and mechanical provi	1 4 Per Req.
98 Digital Barometer/Pressure Gauge 99 Environment monitoring systems, 4 nos. (Temperature sensors/air pressure sensors, humidity sensors with digital /analog display etc.) 100 Standards Hydrometers, Standard viscometer, Viscosity Oil 101 Chemicals and other electrical, electronic and mechanical components, tools, optics (like mirrors, beam splitters, windows), mounts and consumables, glassware, plastic wares, filtration systems, dialysis membrane etc.  102 Miscellaneous- High Current Cables, copper earthing strip, special connectors, high quality connecting leads, adaptors, pipes, fittings,  NWP 100  NWP 100  NWP 100  As Permander of the property of the propert	1 4 Per Req.
99 Environment monitoring systems, 4 nos. (Temperature sensors/air pressure sensors, humidity sensors with digital /analog display etc.)  100 Standards Hydrometers, Standard viscometer, Viscosity Oil  101 Chemicals and other electrical, electronic and mechanical components, tools, optics (like mirrors, beam splitters, windows), mounts and consumables, glassware, plastic wares, filtration systems, dialysis membrane etc.  102 Miscellaneous- High Current Cables, copper earthing strip, special connectors, high quality connecting leads, adaptors, pipes, fittings,  As Political Politic	er Req. Per Req.
pressure sensors, humidity sensors with digital /analog display etc.)  100 Standards Hydrometers, Standard viscometer, Viscosity Oil  101 Chemicals and other electrical, electronic and mechanical components, tools, optics (like mirrors, beam splitters, windows), mounts and consumables, glassware, plastic wares, filtration systems, dialysis membrane etc.  102 Miscellaneous- High Current Cables, copper earthing strip, special connectors, high quality connecting leads, adaptors, pipes, fittings,  As Po	er Req. er Req.
101 Chemicals and other electrical, electronic and mechanical components, tools, optics (like mirrors, beam splitters, windows), mounts and consumables, glassware, plastic wares, filtration systems, dialysis membrane etc.  102 Miscellaneous- High Current Cables, copper earthing strip, special connectors, high quality connecting leads, adaptors, pipes, fittings,  As Po	er Req.
components , tools , optics (like mirrors, beam splitters, windows ), mounts and consumables , glassware, plastic wares, filtration systems, dialysis membrane etc.  NWP 100  Miscellaneous- High Current Cables, copper earthing strip, special connectors, high quality connecting leads, adaptors, pipes, fittings,  As Po	·
connectors, high quality connecting leads, adaptors, pipes, fittings,  As Po	er Req.
Microprocessors, PID Controllers, connectors, electronic components and fabrication of electronic circuits and controllers.  As Po	er Req.
104 FS1000A 433mHz Transmitter Receiver RF Radio Module NWP 100	4
105 XBEE SHIELD FOR ARDUINO NWP 100	4
106 Orange 1000mAh 3S 30C/60C Lithium NWP 100	1
107 polymer battery Pack (LiPo) NWP 100	1
108 16x2 Character LCD Display NWP 100	2
109 GPS Module NWP 100	1
Jumper Wires Male to Male, male to female, female to female (120Pcs)  NWP 100	2
111 Raspberry Pi Module NWP 100	1
112 Walk-in type environmental chamber GAP 181132	1
113 Multi-Gas Calibrator GAP 181132	1
114 Ozone Transfer Standard GAP 181132	1
115 Ozone Analyser GAP 181132	1
116 Zero Air Genrator GAP 181132	1
117 Desktop Computer GAP 181132	7
118 Desktop UPS GAP 181132	7
119 Router/Switches GAP 181132	4
120 Wi-Fi access points GAP 181132	6
121 Network multipurpose printer GAP 181132	1
122 Workstation GAP 181132	2
123 Overhead Projector with smart screen GAP 181132	1
124 Network UPS GAP 181132	1

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

126   Digital Multimeter   GAP 181132   2	125	Network Rack	GAP 181132	2
127				
128   Digital temp. Amd humidity meter   GAP 181132   2   2   2   3   3   3   3   3   3				
129   Digital temp. Amd humidity meter   GAP 181132   2   2   3   3   3   3   3   3   3		·		
130   Digital flow meter   131   Digital mass flow controller   132   Act   132   Act   133   Digital mass flow controller   134   Digital mass flow controller   136   Digital hygrometer   137   Digital hygrometer   138   Digital hygrometer   139   Digital hygrometer   139   Act   130   Digital hygrometer   130   Digital hygrometer   131   Digital hygrometer   132   Act   133   Digital hygrometer   134   Act   Digital hygrometer   134   Digital hygrometer   135   Digital hygrometer   136   Digital hygrometer   137   Digital hygrometer   137   Digital hygrometer   137   Digital hygrometer   138   Digital hy		-		
131   Digital mass flow controller   GAP 181132   3   3   3   3   3   3   3   3   3				
132   Rotameter   GAP 181132   4   4   4   4   4   4   4   4   4		•		
133   Digital Hygrometer And Barometer				
134				
35				
Standard lab			GAF 181132	
136   FTIR (including vacuum pump)   137   Customised gas cells of variable optical path length (0.3 to 1 m, 1m to 6 m and 40 m optical path length)   GAP 181132   6   GAP 181132   1   GAP 181132   1   GAP 181132   1   GAP 181132   2   GAP 181132   3   GAP 181132   GAP 181132   3   GAP 181132   3   GAP 181132   3   GAP 181132   GAP 1811	133	·	GAP 181132	1
6m and 40 m optical path length)         GAP 181132         0           138         Auto sampler and accessories         GAP 181132         1           149         TDS meter         GAP 181132         2           141         LCR meter         GAP 181132         2           142         Furniture         GAP 181132         2           143         Customised testing, calibration & certification facility for OCEMS and CAAQMS         GAP 181132         1           144         AMC for CAAMS at palampur         GAP 181132         1           145         ASH/12 Volt UPS Batteries         GAP 181132         1           146         Assorted types of Cartridges         GAP 181132         1           147         Tools (misc)         GAP 181132         1           148         Misc. items         GAP 181132         1           149         Ozone scrubber cartridge of the Tanabyte Ozone Analyser (SA2-723)         GAP 181132         1           150         Sample Pump Assembly of the Tanabyte Ozone Analyser (SA2-723)         GAP 181132         1           151         Fan Assembly of the Tanabyte Ozone Analyser (SA2-723)         GAP 181132         1           152         Scrubber Media 1 (Charcoal) (1 Lb)         GAP 181132         6	136	FTIR (including vacuum pump)	GAP 181132	1
139	137		GAP 181132	6
140	138	Auto sampler and accessories	GAP 181132	1
141	139	pH meter	GAP 181132	2
Furniture Customised testing, calibration & certification facility for OCEMS and CAAQMS  144 AMC for CAAMS at palampur 45AH/12 Volt UPS Batteries GAP 181132 15 146 Assorted types of Cartridges GAP 181132 15 17 184 Misc. items GAP 181132 10 17 185 Sample Pump Assembly of the Tanabyte Ozone Analyser (SA2-723) 185 Scrubber Media 2 (Purafii) (1 Lb) 185 Scrubber Media 1 (Charcoal) (1 Lb) 186 Scrubber Media 1 (Charcoal) (1 Lb) 186 Consumable to maitain the instruments ( like tools , data memory cards, communcication cables (RS232&USB) , USB MUX/DEMUX, RS232 MUX/DEMUX, RS232 to USB converter, bananas cable, chrocodile cables and other small spares of analysers like filters, gaskets etc) 187 Computer consumables (like pen drive, portable hard disk and internal hard disk, net cables etc.) 188 Rasberry-Pi 128GB with loT kit and other sensors  GAP 181132 As Per Req.	140	TDS meter	GAP 181132	2
Customised testing, calibration & certification facility for OCEMS and CAAQMS  144 AMC for CAAMS at palampur ASAH/12 Volt UPS Batteries GAP 181132 15 146 Assorted types of Cartridges GAP 181132 10 17 17 Tools (misc) GAP 181132 10 18 18 19 Ozone scrubber cartridge of the Tanabyte Ozone Analyser (SA2-723) 19 10 150 Sample Pump Assembly of the Tanabyte Ozone Analyser (SA2-723) 19 151 Fan Assembly of the Tanabyte Ozone Analyser (SA2-723) 152 Scrubber Media 2 (Purafii) (1 Lb) 153 Scrubber Media 1 (Charcoal) (1 Lb) 154 Pump of HORIBA APOA-370 ozone analyser 155 Sampling line (teflon and cooper tube), manifold and fitting accessories (like pherul, nut , t-joints, press fitting pheruls, Solenoid Valve etc.) 156 Consumable to maitain the instruments ( like tools , data memory cards, communcication cables (RS232&USB), USB MUX/DEMUX, RS232 MUX/DEMUX, RS232 to USB converter, bananas cable, chrocodile cables and other small spares of analysers like filters, gaskets etc) 157 Computer consumables (like pen drive, portable hard disk and internal hard disk, net cables etc.) 158 Rasberry-Pi 128GB with IoT kit and other sensors  GAP 181132 1  AS Per Req.  GAP 181132	141	LCR meter	GAP 181132	2
CAAQMS	142	Furniture	GAP 181132	As Per Req.
145       45AH/12 Volt UPS Batteries       GAP 181132       15         146       Assorted types of Cartridges       GAP 181132       10         147       Tools (misc)       GAP 181132       4         148       Misc. items       GAP 181132       4         149       Ozone scrubber cartridge of the Tanabyte Ozone Analyser (SA2-723)       GAP 181132       1         150       Sample Pump Assembly of the Tanabyte Ozone Analyser (SA2-723)       GAP 181132       1         151       Fan Assembly of the Tanabyte Ozone Analyser (SA2-723)       GAP 181132       1         152       Scrubber Media 2 (Purafil) (1 Lb)       GAP 181132       6         153       Scrubber Media 1 (Charcoal) (1 Lb)       GAP 181132       6         154       Pump of HORIBA APOA-370 ozone analyser       GAP 181132       1.2         155       Sampling line (teflon and cooper tube), manifold and fitting accesories (like pherul, nut , t-joints, press fitting pheruls,Solenoid Valve etc.)       GAP 181132       AS Per Req.         156       Consumable to maitain the instruments ( like tools , data memory cards, communicication cables (RS232&USB) , USB MUX/DEMUX, RS232 MUX/DEMUX, RS232 to USB converter, bananas cable, chrocodile cables and other small spares of analysers like filters, gaskets etc)       GAP 181132       GAP 181132         157       Computer consumables (like pen drive, portab	143	· ·	GAP 181132	1
146Assorted types of CartridgesGAP 18113210147Tools (misc)GAP 1811324148Misc. itemsGAP 1811324149Ozone scrubber cartridge of the Tanabyte Ozone Analyser (SA2-723)GAP 1811321150Sample Pump Assembly of the Tanabyte Ozone Analyser (SA2-723)GAP 1811321151Fan Assembly of the Tanabyte Ozone Analyser (SA2-723)GAP 1811321152Scrubber Media 2 (Purafil) (1 Lb)GAP 1811326153Scrubber Media 1 (Charcoal) (1 Lb)GAP 1811326154Pump of HORIBA APOA-370 ozone analyserGAP 1811321.2155Sampling line (teflon and cooper tube), manifold and fitting accesories (like pherul, nut , t-joints, press fitting pheruls,Solenoid Valve etc.)GAP 181132AS Per Req.156Consumable to maitain the instruments ( like tools , data memory cards, communcication cables (RS232&USB) , USB MUX/DEMUX, RS232 MUX/DEMUX, RS232 MUX/DEMUX, RS232 to USB converter, bananas cable, chrocodile cables and other small spares of analysers like filters, gaskets etc)GAP 181132AS Per Req.157Computer consumables (like pen drive, portable hard disk and internal hard disk, net cables etc.)GAP 181132GAP 181132158Rasberry-Pi 128GB with loT kit and other sensorsGAP 1811322	144	AMC for CAAMS at palampur	GAP 181132	1
147 Tools (misc) 148 Misc. items 149 Ozone scrubber cartridge of the Tanabyte Ozone Analyser (SA2-723) 150 Sample Pump Assembly of the Tanabyte Ozone Analyser (SA2-723) 151 Fan Assembly of the Tanabyte Ozone Analyser (SA2-723) 152 Scrubber Media 2 (Purafil) (1 Lb) 153 Scrubber Media 1 (Charcoal) (1 Lb) 154 Pump of HORIBA APOA-370 ozone analyser 155 Sampling line (teflon and cooper tube), manifold and fitting accesories (like pherul, nut , t-joints, press fitting pheruls, Solenoid Valve etc.) 156 Consumable to maitain the instruments ( like tools , data memory cards, communcication cables (RS232&USB) , USB MUX/DEMUX, RS232 MUX/DEMUX, RS232 to USB converter, bananas cable, chrocodile cables and other small spares of analysers like filters, gaskets etc) 157 Computer consumables (like pen drive, portable hard disk and internal hard disk, net cables etc.) 158 Rasberry-Pi 128GB with IoT kit and other sensors 149 GAP 181132 1 150 GAP 181132 1 151 GAP 181132 1 152 GAP 181132 1 153 GAP 181132 1 154 GAP 181132 1 155 GAP 181132 1 156 GAP 181132 1 157 GAP 181132 1 158 GAP 181132 1 158 GAP 181132 1 159 GAP 181132 1 150 GAP 181132 1 150 GAP 181132 1 150 GAP 181132 1 151 GAP 181132 1 151 GAP 181132 1 151 GAP 181132 1 152 GAP 181132 1 153 GAP 181132 1 154 GAP 181132 1 155 GAP 181132 1 155 GAP 181132 1 156 GAP 181132 1 157 GAP 181132 1 158 GAP 181132 1 159 GAP 181132 1 150 GAP 181132 1 150 GAP 181132 1 150 GAP 181132 1 151 GAP	145	45AH/12 Volt UPS Batteries	GAP 181132	15
148Misc. itemsGAP 181132149Ozone scrubber cartridge of the Tanabyte Ozone Analyser (SA2-723)GAP 1811321150Sample Pump Assembly of the Tanabyte Ozone Analyser (SA2-723)GAP 1811321151Fan Assembly of the Tanabyte Ozone Analyser (SA2-723)GAP 1811321152Scrubber Media 2 (Purafil) (1 Lb)GAP 1811321153Scrubber Media 1 (Charcoal) (1 Lb)GAP 1811326154Pump of HORIBA APOA-370 ozone analyserGAP 1811321.2155Sampling line (teflon and cooper tube), manifold and fitting accesories (like pherul, nut , t-joints, press fitting pheruls, Solenoid Valve etc.)GAP 181132AS Per Req.156Consumable to maitain the instruments ( like tools , data memory cards, communcication cables (RS2328USB) , USB MUX/DEMUX, RS232 MUX/DEMUX, RS232 to USB converter, bananas cable, chrocodile cables and other small spares of analysers like filters, gaskets etc)GAP 181132AS Per Req.157Computer consumables (like pen drive, portable hard disk and internal hard disk, net cables etc.)GAP 181132GAP 181132158Rasberry-Pi 128GB with loT kit and other sensorsGAP 1811322	146	Assorted types of Cartridges	GAP 181132	10
149 Ozone scrubber cartridge of the Tanabyte Ozone Analyser (SA2-723)  150 Sample Pump Assembly of the Tanabyte Ozone Analyser (SA2-723)  151 Fan Assembly of the Tanabyte Ozone Analyser (SA2-723)  152 Scrubber Media 2 (Purafil) (1 Lb)  153 Scrubber Media 1 (Charcoal) (1 Lb)  154 Pump of HORIBA APOA-370 ozone analyser  155 Sampling line (teflon and cooper tube), manifold and fitting accessories (like pherul, nut , t-joints, press fitting pheruls, Solenoid Valve etc.)  156 Consumable to maitain the instruments ( like tools , data memory cards, communcication cables (RS232&USB) , USB MUX/DEMUX, RS232 MUX/DEMUX, RS232 to USB converter, bananas cable, chrocodile cables and other small spares of analysers like filters, gaskets etc)  157 Computer consumables (like pen drive, portable hard disk and internal hard disk, net cables etc.)  158 Rasberry-Pi 128GB with loT kit and other sensors  159 GAP 181132  1 0 GAP 181132	147	Tools (misc)	GAP 181132	4
Sample Pump Assembly of the Tanabyte Ozone Analyser (SA2-723)   GAP 181132   1	148	Misc. items	GAP 181132	
151   Fan Assembly of the Tanabyte Ozone Analyser (SA2-723)   GAP 181132   1	149	Ozone scrubber cartridge of the Tanabyte Ozone Analyser (SA2-723)	GAP 181132	1
152 Scrubber Media 2 (Purafil) (1 Lb)  153 Scrubber Media 1 (Charcoal) (1 Lb)  154 Pump of HORIBA APOA-370 ozone analyser  155 Sampling line (teflon and cooper tube), manifold and fitting accesories (like pherul, nut , t-joints, press fitting pheruls, Solenoid Valve etc.)  156 Consumable to maitain the instruments ( like tools , data memory cards, communcication cables (RS232&USB) , USB MUX/DEMUX, RS232 MUX/DEMUX, RS232 to USB converter, bananas cable, chrocodile cables and other small spares of analysers like filters, gaskets etc)  157 Computer consumables (like pen drive, portable hard disk and internal hard disk, net cables etc.)  158 Rasberry-Pi 128GB with IoT kit and other sensors  GAP 181132  GAP 181132  GAP 181132  GAP 181132	150	Sample Pump Assembly of the Tanabyte Ozone Analyser (SA2-723)	GAP 181132	1
Scrubber Media 1 (Charcoal) (1 Lb)  153 Scrubber Media 1 (Charcoal) (1 Lb)  154 Pump of HORIBA APOA-370 ozone analyser  155 Sampling line (teflon and cooper tube), manifold and fitting accesories (like pherul, nut, t-joints, press fitting pheruls, Solenoid Valve etc.)  156 Consumable to maitain the instruments (like tools, data memory cards, communcication cables (RS232&USB), USB MUX/DEMUX, RS232 MUX/DEMUX, RS232 to USB converter, bananas cable, chrocodile cables and other small spares of analysers like filters, gaskets etc)  157 Computer consumables (like pen drive, portable hard disk and internal hard disk, net cables etc.)  158 Rasberry-Pi 128GB with IoT kit and other sensors  GAP 181132  GAP 181132  GAP 181132  GAP 181132	151		GAP 181132	1
154 Pump of HORIBA APOA-370 ozone analyser  155 Sampling line (teflon and cooper tube), manifold and fitting accesories (like pherul, nut, t-joints, press fitting pheruls, Solenoid Valve etc.)  156 Consumable to maitain the instruments (like tools, data memory cards, communcication cables (RS232&USB), USB MUX/DEMUX, RS232 MUX/DEMUX, RS232 to USB converter, bananas cable, chrocodile cables and other small spares of analysers like filters, gaskets etc)  157 Computer consumables (like pen drive, portable hard disk and internal hard disk, net cables etc.)  158 Rasberry-Pi 128GB with IoT kit and other sensors  GAP 181132  GAP 181132  GAP 181132  GAP 181132  GAP 181132	152		GAP 181132	6
Sampling line (teflon and cooper tube), manifold and fitting accesories (like pherul, nut , t-joints, press fitting pheruls, Solenoid Valve etc.)  Consumable to maitain the instruments ( like tools , data memory cards, communcication cables (RS232&USB) , USB MUX/DEMUX, RS232 MUX/DEMUX, RS232 to USB converter, bananas cable, chrocodile cables and other small spares of analysers like filters, gaskets etc)  Computer consumables (like pen drive, portable hard disk and internal hard disk, net cables etc.)  Rasberry-Pi 128GB with IoT kit and other sensors  AS Per Req.  GAP 181132  GAP 181132  GAP 181132	153	Scrubber Media 1 (Charcoal) (1 Lb)	GAP 181132	6
Sampling line (terion and cooper tube), manifold and litting accessries (like pherul, nut , t-joints, press fitting pheruls, Solenoid Valve etc.)  156 Consumable to maitain the instruments ( like tools , data memory cards, communcication cables (RS232&USB) , USB MUX/DEMUX, RS232 MUX/DEMUX, RS232 to USB converter, bananas cable, chrocodile cables and other small spares of analysers like filters, gaskets etc)  157 Computer consumables (like pen drive, portable hard disk and internal hard disk, net cables etc.)  158 Rasberry-Pi 128GB with IoT kit and other sensors  AS Per Req.  GAP 181132  GAP 181132  GAP 181132	154	Pump of HORIBA APOA-370 ozone analyser	GAP 181132	1.2
cards, communcication cables (RS232&USB) , USB MUX/DEMUX, RS232 MUX/DEMUX, RS232 to USB converter, bananas cable, chrocodile cables and other small spares of analysers like filters, gaskets etc)  157 Computer consumables (like pen drive, portable hard disk and internal hard disk, net cables etc.)  Rasberry-Pi 128GB with IoT kit and other sensors  GAP 181132  GAP 181132  GAP 181132	155		GAP 181132	AS Per Req.
internal hard disk, net cables etc.)  GAP 181132  Rasberry-Pi 128GB with IoT kit and other sensors  GAP 181132  GAP 181132  2	156	cards, communcication cables (RS232&USB), USB MUX/DEMUX, RS232 MUX/DEMUX, RS232 to USB converter, bananas cable, chrocodile cables and other small spares of analysers like filters, gaskets etc)	GAP 181132	AS Per Req.
	157			
159 Arduino with IoT kit and other sensors GAP 181132 2	158	Rasberry-Pi 128GB with IoT kit and other sensors	GAP 181132	2
	159	Arduino with IoT kit and other sensors	GAP 181132	2
160 Soldering /Desoldering Station GAP 181132 2	160	Soldering /Desoldering Station	GAP 181132	2

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

Assorted Electronics components	
164         Matlab 2020 (2 users)         GAP 181132         1           165         IGOR PRO SOFTWARE         GAP 181132         1           166         Charcoal Unit for Charcoal scrubber for ZNV-7 Zero Air Generator         GAP 181132         4           167         Compressor/ pump for PAG 003 ZERO AIR GENERATOR (including service/installation charges)         GAP 181132         1           168         CLD display set for Eco Physcis NOy Analyser (including installation charges)         GAP 181132         1           169         Source UV lamp (254 nm) Part No.81-9022-01 forSRP43         GAP 181132         2           170         1" Ozone Generator UV lamp, 500ppb; Part no.81-1025-01, forSRP43         GAP 181132         2           171         2" Ozone Generator UV lamp, 1000ppb; Part no.81-1057-01, forSRP43         GAP 181132         2           172         O3 conductor software, NI USB 6212 with SCSI output and cable, and updated signal distribution module for SRP 43         GAP 181132         1           173         SMD Soldering Machine         GAP 181132         1           174         Fixtures & Fittings         GAP 181132         3           175         He Cylinder         GAP 181132         30           176         Tin foil (0.25mm/ 0.01 inch thick; Puratronic®,	
164         Matlab 2020 (2 users)         GAP 181132         1           165         IGOR PRO SOFTWARE         GAP 181132         1           166         Charcoal Unit for Charcoal scrubber for ZNV-7 Zero Air Generator         GAP 181132         4           167         Compressor/ pump for PAG 003 ZERO AIR GENERATOR (including service/installation charges)         GAP 181132         1           168         CLD display set for Eco Physcis NOy Analyser (including installation charges)         GAP 181132         1           169         Source UV lamp (254 nm) Part No.81-9022-01 forSRP43         GAP 181132         2           170         1" Ozone Generator UV lamp, 500ppb; Part no.81-1025-01, forSRP43         GAP 181132         2           171         2" Ozone Generator UV lamp, 1000ppb; Part no.81-1057-01, forSRP43         GAP 181132         2           172         O3 conductor software, NI USB 6212 with SCSI output and cable, and updated signal distribution module for SRP 43         GAP 181132         1           173         SMD Soldering Machine         GAP 181132         1           174         Fixtures & Fittings         GAP 181132         3           175         He Cylinder         GAP 181132         30           176         Tin foil (0.25mm/ 0.01 inch thick; Puratronic®,	
166         Charcoal Unit for Charcoal scrubber for ZNV-7 Zero Air Generator         GAP 181132         4           167         Compressor/ pump for PAG 003 ZERO AIR GENERATOR (including service/installation charges)         GAP 181132         1           168         CLD display set for Eco Physcis NOy Analyser (including installation charges)         GAP 181132         1           169         Source UV lamp (254 nm) Part No.81-9022-01 forSRP43         GAP 181132         2           170         1" Ozone Generator UV lamp, 500ppb; Part no.81-1025-01, forSRP43         GAP 181132         2           171         2" Ozone Generator UV lamp, 1000ppb; Part no.81-1057-01, forSRP43         GAP 181132         2           172         O3 conductor software, NI USB 6212 with SCSI output and cable, and updated signal distribution module for SRP 43         GAP 181132         1           173         SMD Soldering Machine         GAP 181132         1           174         Fixtures & Fittings         GAP 181132         1           175         He Cylinder         GAP 181132         30           176         Tin foil (0.25mm/ 0.01 inch thick; Puratronic®,	
167       Compressor/ pump for PAG 003 ZERO AIR GENERATOR (including service/installation charges)       GAP 181132       1         168       CLD display set for Eco Physcis NOy Analyser (including installation charges)       GAP 181132       1         169       Source UV lamp (254 nm) Part No.81-9022-01 forSRP43       GAP 181132       2         170       1" Ozone Generator UV lamp, 500ppb; Part no.81-1025-01, forSRP43       GAP 181132       2         171       2" Ozone Generator UV lamp, 1000ppb; Part no.81-1057-01, forSRP43       GAP 181132       2         172       O3 conductor software, NI USB 6212 with SCSI output and cable, and updated signal distribution module for SRP 43       GAP 181132       1         173       SMD Soldering Machine       GAP 181132       1         174       Fixtures & Fittings       GAP 181132       1         175       He Cylinder       GAP 181132       30         176       Tin foil (0.25mm/ 0.01 inch thick; Puratronic®,       Tin foil (0.25mm/ 0.01 inch thick; Puratronic®,	
167         Compressor/ pump for PAG 003 ZERO AIR GENERATOR (including service/installation charges)         GAP 181132         1           168         CLD display set for Eco Physcis NOy Analyser (including installation charges)         GAP 181132         1           169         Source UV lamp (254 nm) Part No.81-9022-01 forSRP43         GAP 181132         2           170         1" Ozone Generator UV lamp, 500ppb; Part no.81-1025-01, forSRP43         GAP 181132         2           171         2" Ozone Generator UV lamp, 1000ppb; Part no.81-1057-01, forSRP43         GAP 181132         2           172         O3 conductor software, NI USB 6212 with SCSI output and cable, and updated signal distribution module for SRP 43         GAP 181132         1           173         SMD Soldering Machine         GAP 181132         1           174         Fixtures & Fittings         GAP 181132         3           175         He Cylinder         GAP 181132         30           176         Tin foil (0.25mm/ 0.01 inch thick; Puratronic®,         GAP 181132         30	
charges)       GAP 181132       1         169       Source UV lamp (254 nm) Part No.81-9022-01 for SRP43       GAP 181132       2         170       1" Ozone Generator UV lamp, 500ppb; Part no.81-1025-01, for SRP43       GAP 181132       2         171       2" Ozone Generator UV lamp, 1000ppb; Part no.81-1057-01, for SRP43       GAP 181132       2         172       O3 conductor software, NI USB 6212 with SCSI output and cable, and updated signal distribution module for SRP 43       GAP 181132       1         173       SMD Soldering Machine       GAP 181132       1         174       Fixtures & Fittings       GAP 181132       1         175       He Cylinder       GAP 181132       30         176       Tin foil (0.25mm/ 0.01 inch thick; Puratronic®,       GAP 181132       30	
170       1" Ozone Generator UV lamp, 500ppb; Part no.81-1025-01, forSRP43       GAP 181132       2         171       2" Ozone Generator UV lamp, 1000ppb; Part no.81-1057-01, forSRP43       GAP 181132       2         172       O3 conductor software, NI USB 6212 with SCSI output and cable, and updated signal distribution module for SRP 43       GAP 181132       1         173       SMD Soldering Machine       GAP 181132       1         174       Fixtures & Fittings       GAP 181132       1         175       He Cylinder       GAP 181132       30         176       Tin foil (0.25mm/ 0.01 inch thick; Puratronic®,       GAP 181132       30	
170	
forSRP43       GAP 181132       2         172       O3 conductor software, NI USB 6212 with SCSI output and cable, and updated signal distribution module for SRP 43       GAP 181132       1         173       SMD Soldering Machine       GAP 181132       1         174       Fixtures & Fittings       GAP 181132       1         175       He Cylinder       GAP 181132       30         176       Tin foil (0.25mm/ 0.01 inch thick; Puratronic®,       Tin foil (0.25mm/ 0.01 inch thick; Puratronic®,	
updated signal distribution module for SRP 43       GAP 181132       1         173       SMD Soldering Machine       GAP 181132       1         174       Fixtures & Fittings       GAP 181132       1         175       He Cylinder       GAP 181132       30         176       Tin foil (0.25mm/ 0.01 inch thick; Puratronic®,       Tin foil (0.25mm/ 0.01 inch thick; Puratronic®)	
174       Fixtures & Fittings       GAP 181132         175       He Cylinder       GAP 181132       30         176       Tin foil (0.25mm/ 0.01 inch thick; Puratronic®,       Tin foil (0.25mm/ 0.01 inch thick; Puratronic®)       Tin foil (0.25mm/ 0.01 inch thick; Puratronic®)	
175 He Cylinder GAP 181132 30 176 Tin foil (0.25mm/ 0.01 inch thick; Puratronic®,	
176 Tin foil (0.25mm/ 0.01 inch thick; Puratronic®,	
99.998%; metals basis)  Size: 100 x 500 mm)  2  GAP 181132	
177 Cotton GAP 181132 10 pag	ck
178 Sulfur Dioxide in Nitrogen (Nominal Amount-of-Substance Fraction 1000 µmol/mol) GAP 181132 2	
179 Carbon Monoxide in Nitrogen (Nominal Amount-of-Substance Fraction 1000 µmol/mol) GAP 181132 2	
180 Carbon Dioxide in Nitrogen (Nominal Amount-of-Substance Fraction 7 % mol/mol)  GAP 181132	
181 Nitric Oxide in Nitrogen (Nominal Amount-of-Substance Fraction 1000 µmol/mol) GAP 181132 2	
182 Nitrous Oxide in Air (Nominal Amount-of-Substance Fraction 1 µmol/mol) GAP 181132 2	
183 HCI GAP 181132 2	
184 TOC GAP 181132 2	
185 Oxygen in Nitrogen (Nominal Amount-of-Substance Fraction 21 % mol/mol)  GAP 181132  2	
186 NH3 GAP 181132 2	
Propane in Air (Nominal Amount-of-Substance Fraction 500 µmol/mol) GAP 181132 2	
188 BTEX GAP 181132 2	
189 Development Boards & Kits – AVR ARDUINO UNO REV 3 NWP 100 2	
190 ArduinoMega2560Rev3DevelopmentBoard NWP 100 2	
191 Real Time Clock (RTC) Module NWP 100 2	
192 Infrared Radiation Pyrometer MLP 211632 1	
193 Hydraulic Screw Pump MLP 211632 1	
194 Vibration Isolation Test Bench MLP 211632 1	
195 Temperature bath for density; 10 to 80 °C MLP 211632 2	
196 Ring gauge, Delay Stage MLP 211632 1 each	:h
Low temperature Dry Block Calibrator (-100 °C to RT).  MLP 211632 1	

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198	Temperature-Humidity indicator	MLP 211632	13
199	DMP-41 HBM Indicators	MLP 211632	1
200	Portable Vibration Analyzer, Accelometer	MLP 211632	1
201	Submersible Pumps of following specifications: Flow rating 250 m3/h		
	at 30 m head, 3-phase, 400 V ±10 %, 50 Hz ±5 % power rating along		2
	with associated piping, flanges and fittings etc.	MLP 211632	
202	Pneumatic Primary Pressure standard up to 100 MPa	MLP 211632	1
203	PZT Actuator	MLP 211632	1
204	Ultrasonicator	MLP 211632	1
205	Bi directional LVDT probe with DRO	MLP 211632	2
206	Magnetic stirrer with hot plate	MLP 211632	1
207	Pressure sensor piezoelectric tester	MLP 211632	1
208	Development of primary vacuum and pressure standard in the range of <150 kPa	MLP 211632	1
209	Precision Digital Thermometer (0.07ppm)with multi channel accessory	MLP 211632	1
210	Spatial Light Modulator	MLP 211632	1
211	Dynamic Pressure Calibration system	MLP 211632	1
212	Sound Level Meter Calibration Facility	MLP 211632	
213	Replacement of malfunctioning hardware in Secondary Vibration Calibration Standard & addition of 1 nF capacitor for calibrations of		
	charge amplifiers	MLP 211632	
214	Mass comparator for density, 200 g, d = 0.001 mg	MLP 211632	1
215	Precision force transfer Standards 3000 kN	MLP 211632	1
216	Dry block calibrator (1200 °C)	MLP 211632	1
217	UV radiometry Setup	MLP 211632	1
218	Electronic level	MLP 211632	1
219	Calliper checker 1000mm	MLP 211632	1
220	Acoustic Emission Measurement Facility	MLP 211632	1
221	Modernization of Viscosity Measurement System	MLP 211632	1
222	Up-gradation of Primary Solid Density Standard	MLP 211632	1
223	Computers	MLP 211632	10
224	Digital Pulser Receiver	MLP 211632	1
225	Low Liquid Flow Measurement System	MLP 211632	1
226	Active Hydrogen Maser	TSP 180932	3
227	High performance atomic frequency standard	TSP 180932	20
228	Phase/Frequency Comparator	TSP 180932	17
229	Phase & Frequency Offset Generator (for RRSL Sites)	TSP 180932	12
230	Low Noise Phase & Frequency Offset Generator (for DRC Site)	TSP 180932	5
231	NavIC Time Transfer Receiver	TSP 180932	19
232	GNSS Time Transfer Receiver	TSP 180932	19
233	Frequency selection and distribution switch (5 MHz, 10 MHz, 1PPS and IRIG B)	TSP 180932	140
234	Frequency distribution unit 100MHz	TSP 180932	22
235	Frequency Multiplier	TSP 180932	18
236	Frequency Distribution Amplifier 5MHz	TSP 180932	6
237	Server	TSP 180932	19
238	Network Switch	TSP 180932	52

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239	RKM	TSP 180932	17
240	KVM	TSP 180932	17
241	Serial to LAN Converter	TSP 180932	74
242	Environmental Monitoring Systems	TSP 180932	16
243	GSM Modem	TSP 180932	16
244	NTP Server	TSP 180932	15
245	PTP Server	TSP 180932	17
246	HF Switch	TSP 180932	10
247	Work Station	TSP 180932	20
248	Firewall	TSP 180932	13
249	Router	TSP 180932	14
250	Laptop	TSP 180932	9
251	Equipment Rack	TSP 180932	29
252	Equipment Rack air filter	TSP 180932	29
253	Digital Oscilloscope	TSP 180932	5
254	Phase Noise Allan deviation Test Set	TSP 180932	2
255	Digital Multimeter	TSP 180932	5
256	Digital Soldering Station with accessories	TSP 180932	6
257	Electronic Work Table	TSP 180932	6
258	Time interval counter	TSP 180932	2
259	Time interval counter	131 100332	
233	DTD.		
	PTP tester		1
		TSP 180932	
260			
	Smart UPS 10KVA system (1+1)		1
	omait of a follow system (1+1)		1
		TSP 180932	
261	Furniture for traceability Lab	TSP 180932	1
262	Antenna control unit	TSP 180932	1
263	Works and services for IT	TSP 180932	1
264	Furniture for RRSLs and DRC	TSP 180932	6
265	TWSTFT equipment	TSP 180932	1
266	AC systems, UPS and batteries	TSP 180932	5
267	Other time scale equipment	TSP 180932	5
268	Multifunctional Printers	TSP 180932	10
269	Office Computers	TSP 180932	20
270	6 inch Blades for coater	GAP 210132	1
271	IV measurement setup	GAP 210132	1
272	Oscilloscope and spectrum analyzer	GAP 210132	1
273	Substrate holder of blade coater	GAP 210132	1
274	Table top source multimeter with accessories	GAP 210132	1
275	Upgradation of 4200 system	GAP 210132	1
276	LED based lifetime measurement setup	GAP 210132	1
277	Cryogen Free Cryostat (2K -300 K) with variable temperature insert	GAP191032	1
278	Atomic Force Microscope-AFM	GAP191032	1

<sup>\*</sup>The publication of this list shall not be construed as initiation of a procurement process and cast anyobligation 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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279	Fiber coupled Si- Avalanche Photo Diode's FC: 02 Nos	GAP191032	1
280	Infrared wavelength range Free-Running Single-Photon Detector (InGaAS-APD)	GAP191032	1
281	Variable Optical Attenuator	GAP191032	1
282	Optical Beam Splitters	GAP191032	1
283	Single mode Optical fibres and connectors	GAP191032	As per requirement
284	Wire bonder spare needles and wires	GAP191032	As per requirement
285	High purity gases (He, N2, Ar)	GAP191032	As per requirement
286	Routine lab chemicals, acetone, IPA etc.	GAP191032	As per requirement
287	Cryogenic wires and wire looms	GAP191032	As per requirement
288	Stycast Epoxy(Adhesive and solution)	GAP191032	1
289	Wafers(SiO2, Si3N4, Al2O3, MgO, Quartz)	GAP191032	AS per requirement
290	high purity chemicals(Ti powder, Se powder etc.)	GAP191032	As per requirement
291	IGP Ion Getter Pump(FIB Accessory)	GAP191032	1
292	Sputtering target(FeSe, NbSe2)	GAP191032	1 each
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