

CSIR Projects

S.No	Consumables
1.	Labeled antibodies, carrier proteins, specific markers, conjugation kit ,protein purification kit, column fabrication kit, flow cell design, microtiter plates, growth media, screen printed electrodes, Si/Glass wafers, PDMS etc
2.	Chemicals, glass wares
3.	Chemicals for bioassays
4.	Silicon wafers
5.	ELISA kit
6.	Glass wafers
7.	GaN wafers
8.	Alumina Substrate, Thick Film Pastes, LTCC Tapes
9.	Sample holders
10.	Reference electrodes
11.	Miscellaneous Chemicals
12.	Magnetic beads
13.	Passive elements(R,L,C)
14.	Fluorescence sample
15.	OpAmp
16.	DC-DC Convertor
17.	Electromagnet + vibrator
18.	Current sensor
19.	LDO
20.	LED sources(mounted)
21.	Aluminium, SS, Teflon,Perspex, Copper, Brass, Moly sheet
22.	Side view set up
23.	Optical Chamber and various optical components
24.	Dispancer
25.	PXle card
26.	EVG Servicing – Bonder & aligner
27.	Lens/filter cleaning liquid, vacuum pick up tool
28.	Silvaco
29.	Various sensors(pressure, accelerometer, magnetic, rotation, temperature etc.)
30.	Batteries
31.	Die flip module
32.	Fluorescence based integrated platform
33.	Bonding wires of different thickness, capillaries etc
34.	High Resolution Mask
35.	Screen Mesh, Screen Preparation Materials, Emulsions, Epoxies, Solder pastes, Potting Compound
36.	Wires, cables, connectors
37.	Micro controller
38.	Stepper motor with controller
39.	FR4 sheet
40.	Crystal

41.	Micro particles based on polystyrene
42.	Mill bit
43.	PDMS, BSA, PBS
44.	LED sources and Holders
45.	CMOS camera, power driver and accessories
46.	Sensor interface IC and boards
47.	TxRx
48.	Convertor
49.	Updates of various software
50.	Solder bits – different types
51.	Solder tip cleaner
52.	TMAH Solution
53.	Antigen-Antibody
54.	Masks, Tips and others
55.	Precision milli gauss Meter
56.	Current controller
57.	Stationary items
58.	Printer cartridges
59.	Computer accessories
60.	Gloves and wipes
61.	Gas cylinder refilling
62.	Die packaging headers
63.	Targets
64.	Gas line fittings, regulators
65.	Au wire bonder parts and servicing
66.	Gas mixer up-gradation(MFCs, Circuits, relays, software etc)
67.	Wafer carrier boxes
68.	Various other petty items

S.No	Consumables
1.	Smart camera system
2.	Ambient and contact sensor
3.	Communication modules
4.	Software for development and deployment
5.	Li Po batteries, linkages, cables, connectors, ICS, regulators, Power supplies, ground station control modules
6.	Miscellaneous
7.	Processor card, wireless module, data acquisition card, GPS modules, memory modules, back plane embedded module, FPGA module, DSP module, data analysis tools, printer, connector, batteries, hubs, wireless connecting modules etc.
8.	Emotive Kit
9.	Saline
10.	EEG Sensors
11.	Embedded hardware kits (TI/epic/Rpi/Arm/NVIDIA/Intel etc) with accessories
12.	Sensors & Cameras (PPG/VPG/ECG/VIS/IR/LEDs/Photodiodes/Accelerometer/Barometer/Gyroscope etc), Actuators, RF Modules (Wif, BLE, etc)
13.	Electrodes, Chemicals/solutions for Optical components & bio-medical devices, etc
14.	Printer cartridges, papers, 3D printing materials & charges, component racks, etc
15.	Multimeter, wires, cables, batteries, connectors, PCB, solder paste other electronic components
16.	
17.	FTDI basic for arduino programming
18.	Jumpers
19.	Atmega328P-AU TQPF 32 -BIT
20.	Xbee headers
21.	crystal SMD
22.	Capacitors SMD
23.	2-pin Connectors SMD
24.	Jumper wires small
25.	resistors SMD
26.	LDO
27.	xbee chips
28.	BLE chips
29.	LD SMD
30.	BATTERY Generic different ratings
31.	battery holder different sizes
32.	gase sensor
33.	relay
34.	Heat sink
35.	DAQ Card
36.	ARDUINO board
37.	FR4 SHEETS
38.	EDS mate
39.	DRILL BITS

40.	
41.	MAGNETOMETER
42.	SOLDER TIP CLEANER
43.	SOLDERING TIPS
44.	SOLDER PASTE
45.	SOLDER FLUX
46.	SOLDER WIRE
47.	MILLING BITS
48.	LED
49.	UNIVERSAL INTERFACE IC
50.	LM35
51.	OP-AMP
52.	pressure sensor
53.	Hardware Acceleration Boards: GPU/FPGA Boards like Google Coral USB Stick/Board, Jetson Nano, and other Embedded Platforms (like Pi4 etc, TPUs)
54.	Different Components for Drones
55.	Printer Cartridge, Storage Devices (HDD/SSD/Pend Drives)
56.	Healthcare Related Devices (Plus Oximeters, BP Monitor, NIR/IR Sensors, NIR/IR Cameras, Digital Watch for Healthcare Parameters, Chromecast, etc)
57.	Electrolyte gel
58.	Ram
59.	Jetson Tx2
60.	Internet Lease line (Delhi center)
61.	Open stack cloud Platform Setup for AI facility and Vmware licenses renewal and Upgradation
62.	Compiler, USB Dongle, ARM Cortex, Windows, 1 Licence - MIKROE-936; element oc - 2281672
63.	MIKROC PRO KEY DSPIC30/33 PIC24, MIKROE-734, Digikey / Element14
64.	mikroC PRO for dsPIC C Compiler Software; MIKROE-1950; RS OC 923-6059
65.	ACS722LLCTR-20AB-T
66.	ACS722LLCTR-20AU-T
67.	SERIAL 16X2 CHARACTER LCD; RKI-1213
68.	Development Board, ATmega328P MCU, 14 3.3V I/O, 6 Analogue Inputs, 6 PWM Outputs
69.	Mega 2560 Pro Mini
70.	STM32F103C8T6 ARM Development Board
71.	CentIoT 7S 24V 16A/25A Battery Charging Module PCB BMS Protection Board for 7 Series lithium LicoO2 Limn2O4 18650 battery
72.	MAX30102 Module
73.	Muscle sensor V3 kit
74.	Pulse Sensor / Heart Rate Sensor
75.	Fluke 203406 Digital Multimeter Fast Acting Replacement Fuse, 1000V AC Voltage, 11A AC Current (Pack of 5)
76.	WCS1800 Hall Effect Linear Current Sensor
77.	MCP6002 Operational Amplifier, Dual, 2 Amplifier

78.	ERJ1TYJ100U - SMD Chip Resistor, 2512 [6432 Metric], 10 ohm, Thick Film, 1 W
79.	Current sensor resistor –
80.	WSLP27261L000FEA - SMD Current Sense Resistor, 0.001 ohm, WSLP2726 Series, 2726 [6966 Metric], 7 W, ± 1%, Metal Strip,
81.	OAR5 – R010FI - Current Sense Resistor, 0.01 ohm, OAR Series, 5 W, Metal Strip, Radial Leaded, ± 1%
82.	CRA2512-FZ-R010ELF - SMD Current Sense Resistor, 0.01 ohm, CR Series, 2512 [6432 Metric], 3 W, ± 1%, Metal Film
83.	OAR5 – R005FI - Current Sense Resistor, 0.005 ohm, OAR Series, 5 W, Metal Strip, Radial Leaded, ± 1%
84.	WSLP59312L000FEA - SMD Current Sense Resistor, 0.002 ohm, WSLP5931 Series, 5931 [1577 Metric], 7 W, ± 1%, Metal Strip
85.	INA240A4D - Current Sense Amplifier, Bidirectional, 1 Amplifier, 90 µA, SOIC, 8 Pins, -40 °C, 125 °C
86.	Bluetooth Module Breakout Board
87.	Current Probe, BNC Plug, Current Clamp, 100 A, 50 mA, Tektronix Digital Multimeters & Oscilloscopes
88.	FT232RL MiniUSB to TTL Module
89.	USB to RS 485 module
90.	MAXREFDES117# - Heart-rate And Pulse-oximetry Monitor
91.	PICkit™ 3 In-Circuit Debugger/Programmer
92.	ICD3 Evaluation Kit, with Explorer 16, PIC24, dSPIC33, Includes MPLAB ICD 3 debugger
93.	STLINK-V3SET - Programmer / Debugger, STLINK-V3SEGT, Modular, In-Circuit, For STM8, STM32 MCUs
94.	STMICROELECTRONICS – Development Board, STM32 – Nucleo 64
95.	Development Nucleo-144 ARM Cortex Embedded Evaluation Board
96.	1.5 sqmm single core flexible cable, 100m
97.	1.0 sqmm 3core cable PVC flexible cable, 100m
98.	1.00 sqmm single core cable, 100m
99.	Single stend wire, 100m
100.	Soldering material
101.	STM32H743I-EVAL2 - Evaluation Board, STM32H743 MCU, 5.7" LCD Touchscreen, ST-Link Debugger
102.	Through hall resistor (0.1 Ω – 1MΩ : 5% and 1% Tolerance)
103.	Capacitor 1) Electrolyte : 1000µF 25V/50V/63V
104.	Capacitor 2) Electrolyte : 2200µF 25V/50V/63V
105.	Capacitor 3) Electrolyte : 10µF 25V/50V/63V
106.	Capacitor 4) Electrolyte : 100µF 25V/50V/63V
107.	Capacitor 5) Electrolyte : 220µF 25V/50V/63V
108.	Capacitor 6) Electrolyte : 470µF 25V/50V/63V
109.	SMD and through hole capacitor (Code : 102, 103, 104)
110.	L7805ABD2T-TR - Fixed Linear Voltage Regulator, 7805 , 3-Terminal, Positive, 10V To 35V In, 5V And 1.5A Out, TO-263-3
111.	L7812CP - Linear Voltage Regulator, 7812 , Fixed, Positive, 19V To 35V In, 12V And 1.5A Out, TO-220FP-3
112.	STMICROELECTRONICS - Linear Voltage Regulator, 7815 , Fixed, Precision, 23V To 35V In, 15V And 1.5A Out, TO-220-3

113.	ATMEGA 16 : MICROCHIP - 8 Bit MCU, AVR Family ATmega16 Series Microcontrollers, 16 MHz, 16 KB, 1.25 KB, 44 Pins, VQFN
114.	ATMEGA 32 : PICAT32UC3C0512C-ALUR - AVR Microcontroller, AVR Family AT32UC3C Series Microcontrollers, AVR, 32bit, 66 MHz, 512 KB, 64 KB
115.	PIC32 : Microcontroller PIC/DSPIC, PIC32 Family PIC32MX Series, 32bit, 50MHz, 256KB, 64KB RAM, SDIP-28
116.	PIC24 MICROCHIP - 16-BIT, 16 MIPS, 256KB FLASH, 16KB RAM 4
117.	DsPIC 30 Digital Signal Controller, dsPIC30F Series, 40 MHz, 48 KB, 30 I/O's, CAN, I2C, SPI, UART, 5.5 V
118.	DsPIC 33: Digital signal controller
119.	MOSFET IRF540, IRF530, IRF9540N, z44, IRF9530 – 50 each
120.	MOSFET IRF3205
121.	Jumper wires (Female-Female, Male-Male, Female-Male)
122.	Transistors, BD140, BD139, BC558, BC557, BC549, BC548, BC547, BC546, 2N3906, 2N3904, 2n2222
123.	2n2222, 2n2907 metal pack
124.	Fuse 15Amp, 20Amp, 10Amp
125.	Battery AAA, AA, duracell
126.	1 ohm 10/5watt; 5ohm 10/5wat; 10ohm 10/5watt resistor
127.	L1117 3.3 volt
128.	SMD kit 1206, 0603 resistor kit

S.No	Consumables
1.	Power IGBT
2.	MOSFET
3.	SiC/Gan Devices
4.	Development kits
5.	Winding coils
6.	Different types of high frequency core
7.	Current/voltage sensors
8.	Printed circuit boards
9.	Electronic components and processors
10.	Passive Components
11.	Connectors & Cable
12.	Semiconductors and ICs
13.	Semiconductors – Discrete Devices
14.	Wireless Modules & Adaptors
15.	Optoelectronics & LED Lighting Components
16.	Electromechanical Switches & Relays
17.	Power supplies and circuit protection
18.	Cooling & Thermal Management
19.	Sensors & Transducers
20.	Test and Measurement
21.	Development tools, prototyping accessories
22.	Miscellaneous

S.No	Consumables
1.	Optical Sources
2.	Detectors
3.	Filters
4.	Windows
5.	Electronic components
6.	Enclosures
7.	Chemicals
8.	Mechanical parts
9.	Electrodes and multi layer PCB fabrications
10.	Optical Components
11.	Passive Components
12.	Active Components
13.	Sensors
14.	PCB Fabrication
15.	Mechanical Fabrication
16.	Glassware
17.	OEM Evaluation Boards
18.	Other miscellaneous

S.No	Consumables
1.	Optical Sources
2.	Detectors
3.	Filters
4.	Windows
5.	Electronic components
6.	Enclosures
7.	Chemicals
8.	Mechanical parts
9.	Electrodes and multi layer PCB fabrications
10.	Ghee , edible oils
11.	Gas sensors, mechanical structure flow meters, temperature ,humidity sensors, electronic components, electric blower, fan, ferrules, chemical kit, aluminum sheet, solar panel etc.
12.	Optical Components
13.	Passive Components
14.	Active Components
15.	Sensors
16.	PCB Fabrication
17.	Mechanical Fabrication
18.	Glassware
19.	OEM Evaluation Boards
20.	Other miscellaneous

S.No	Consumables
1.	AMC maintenance of workstation
2.	Update charges for software
3.	Computer consumables ,hard drives
4.	Camera housing
5.	Stand for Camera housing
6.	Wireless keyboard and mouse
7.	Portable hard disk(1 or 2 TB)
8.	Internal solid state device(500GB/1TB)
9.	PoE splitter 12v/2A
10.	PoE injector 48v
11.	USB to LAN adaptor gigabit
12.	Computer Stationery(mouse, Keyboard, Pendrive, USB Hub)
13.	Printer cartridge(colour)
14.	Printer cartridge(black and white)
15.	Extension Board
16.	8-Port Network switch
17.	Electronic chips / components
18.	12V/2A Adapters
19.	MicroSD memory Card with adapter(128/200GB)
20.	Miscellaneous(Batteries, cables, GI Wire, Steel/Aluminium/Sheet, copper Tapes etc.)

S.No	Consumables
1.	Chemicals
2.	3D scanner
3.	Force Sensor
4.	Strain Sensor
5.	HP colour laserjet flowmfp m577 cartridges
6.	Printer cartridges refill(BW)
7.	Portable Batteries
8.	Lora gateways
9.	GSM Modules(GSM SIM800C Modem with Antenna)
10.	Jetson Nano Boards
11.	Coaxial Cables industrial grade
12.	Google Edge TPU
13.	Pendrive/sd card
14.	Arduino Boards 3.0/2x/2.0
15.	Pi 3 version B+ BCN2837B0
16.	SSD hard disk storage of data
17.	GPS modules
18.	Xbee 3 module
19.	Xbee 3 Pro module
20.	STM32 development board
21.	Teeny development board
22.	UPS battery
23.	RAM 8GB/16GB
24.	Extension Board(industrial grade)
25.	LAPTOP Battery
26.	Movidius computing stick
27.	Wire cutter/stripper
28.	Twizzer set
29.	Solder wire
30.	WiFi module
31.	2TB NVMe PCIe M.2 2280 SSD
32.	4TB 2.5 inch SATA III Internal SSd
33.	USB-cto USB-A Adapter
34.	256GB Pen Drive
35.	Cloud Storage 2 TB LifeTime
36.	Nvidia Quadro RTX5000, 16GB Memory GPU Card
37.	Outsourcing of Laser scanning to collected dataset for Hampi
38.	Camera Accessories
39.	RAM/HDD for WorkStations
40.	HPC server Ram/HDD/GPUs

S.No	Consumables
1.	Heater
2.	Electrical wires
3.	Raw metal for frame
4.	Wheel
5.	OHFC gasket
6.	Fattener
7.	Unforeseen items
8.	Vacuum components; flange, gaskets, fastener, feedthrough, window, valve, gauge, manipulator, target, etc.
9.	Isolation Transformer

S.No	Consumables
1.	Consumable for interfacing existing milk instruments
2.	PCB Fabrication
3.	Mechanical Fabrication
4.	OEM Evaluation Boards
5.	Other miscellaneous

S.No	Consumables
1.	Microcontroller boards and chips
2.	Communication Boards and chips
3.	PCB
4.	Interface IC
5.	Power Management IC
6.	Battery
7.	Software

S.No	Consumables
1.	Embedded Board Related Connectors and other Accessories

S.No	Consumables
1.	VRLA battery
2.	Li-ion Battery
3.	Electrical components(Switch, magnetic cores, sensors, control cards, heat sink etc)
4.	Passive components
5.	Switching devices
6.	DC/DC Converters
7.	Gate Driver
8.	Current Transducer
9.	Development Board
10.	Display Board
11.	Lead Acid Battery
12.	Connecting wires
13.	PCB fabrication
14.	Miscellaneous

S.No	Consumables
1.	SS rod and sheet, OFHC copper rod and sheet, Teflon, Perspex rod and sheet, wires, high voltage insulated metal wires and cables, SS sheet, Perspex sheet, ceramics, etc
2.	Capacitors, high power Capacitors, Resistors, low inductance Resistors, attenuators, electrical feed through, inert gas cylinder, high power capacitors, low inductance resistors, high voltage insulated metal wires and cables etc.
3.	Vacuum Grease, vacuum and gas line components, metal flanges
4.	High frequency connectors, high frequency transmission cables & adaptors, attenuators, Rogowski coils, CTs, etc.
5.	Waveguides, antenna, G-code for micro-edm, high frequency absorbers
6.	Computer accessories, Software upgrades, Machine tools, Electronics/electrical components, Diode detector, Filters/attenuators, Stationary items, Misc. items

S.No	Consumables
1.	Controllers
2.	Ferrite cores
3.	Electronic switches
4.	Sensors (voltage, current etc.)
5.	Supply
6.	Passive electronics elements(resistor, capacitor, inductors)
7.	Relays, MCBs
8.	Semiconductor switches(MOSFET, Diodes,IGBT)
9.	DC-DC onboard converters
10.	Heat sink, wire sleeves
11.	PCB Fabrication
12.	Linear ICs(op-amp, gate drivers, optocouplers etc)
13.	Litz wires, copper wires
14.	Miscellaneous(connectors, casing, solder, flux, heat sink compound, drill bit, epoxy sheet, Teflon sheets, nut, bolt, screw, etc)

S.No	Consumables
1.	<p>FPGA Boards</p> <ul style="list-style-type: none"> ---Xilinx Zynq-7000 SoC ZC702 Evaluation Kit ---Avnet MiniZed ---Xilinx Zynq UltraScale + MPSoC ZCU102 Evaluation Kit ---Xilinx Zynq UltraScale + MPSoC ZCU104 Evaluation Kit ---Smart Lynq Data Cable
2.	<p>TI-Boards(MSP and CC Experimental Boards) as follows:</p> <ul style="list-style-type: none"> -LAUNCHXL_CC1352P-2:SimpleLink™ multiband CC1352P wireless MCU LaunchPad™ development Kit, 2.4GHz -LAUNCHXL_CC1352P1:SimpleLink™ multiband CC1352P wireless MCU LaunchPad™ development Kit, 1GHz -IWR68431SK-ODS:IWR6843 intelligent mm Wave online detection sensor(ODS) antenna plug in module -MMWAVFICBOOST: mm Wave sensors carrier card platform -LP-CC2652RB:SimpleLink™ crystal-less BAW CC2652RB multiprotocol 2.4GHz wireless MCU LaunchPad™ development Kit -LAUNCHXL_CC26X2R1:SimpleLink™ CC26x2 wireless MCU LaunchPad™ development Kit -LAUNCHXL_CC1352R1:SimpleLink™ CC1352R wireless MCU LaunchPad™ development Kit -MSP-EXP432E401Y: SimpleLink™ Ethernet MSP432E401Y MCU LaunchPad™ development Kit -CC2538DK:CC2538 development Kit -CC2538EMK:CC2538 Evaluation Module Kit -SIMPLELINK_ETHERNET_WIFI:SimpleLink™ MSP432E4 Ethernet LaunchPad™ Kit + CC3120 Wi-Fi BoosterPack™ Module + Advanced Emulation BoosterPack for SimpleLink™ Wi-fi CC3100 BoosterPack™ Plug-in Module Bundle --SIMPLELINK_ETHERNET-BLE: SimpleLink™ MSP432E4 Ethernet LaunchPad™ Kit +CC2640R2F LaunchPad™ Bundle -MSP-EXP430FR6989:MSP430FR6989 LaunchPad Development kit -MSP-EXP430FR5994:MSP430FR5994 LaunchPad Development kit -ADS9110EVM-PDK:ADS9110 18-bit, 2MSPS, 15mW SAR ADC EVM Performance Demonstration Kit(PDK) -MSP-TS430PEU128:MSP430F677x1PEU & MSP430F677x11PEU 128-Pin Target board -MSP430F67791A(ACTIVE)Polyphase Metering SoC with 7 Sigma-Delta ADCs, LCD, Real-Time Clock, 512KB Flash, 32KB RAM -MSP_EXP430F5438:MSP430F5438 Experimenter Board -LAUNCHCC3220MODASF:SimpleLink™ Wi-Fi CC3220MODASF LaunchPad™ Development Kit -LAUNCHXL-CC3235SF: SimpleLink™ Wi-Fi CC3235SF dual band LaunchPad™ Development Kit -BOOST-CC2564MODA: Dual-mode Bluetooth CC2564 module with integrated antenna BoosterPack plug-in module -CC2564MODAEM: Dual-mode Bluetooth CC2564 module with integrated antenna Evaluation Board -LAUNCHXL-CC1312R1:SimpleLink™ Sub-1 Ghz CC1312R Wireless Microcontroller LaunchPad™ Development

	<ul style="list-style-type: none"> -DK-TM4C129X:DK-TM4C129X Connected Development Kit -MSP-EXP432P4111:SimpleLink™ MSP432P4111 MCU LaunchPad™ Development Kit -MSP432432-FET:MSP-FET+MSP432 Adapter Bundle -MSP432E411Y-BGAEVM: SimpleLink™ Ethernet MSP432E411Y MCU Evaluation Board -BOOSTXL-ULPSENSE: SimpleLink™ Sensor Controller BoosterPack -100-pin Target Development Board for SimpleLink™ MSP432P4x MCUs(Microcontroller not included) -Processor(MSP432P4111T-06)(MSP432E411Y-04) for 100-pin Target development board for SimpleLink™ MSP432P4x MCUs -TI-RSLK Advanced Kit -MSP-TS430RHB32A – 32-pin Target Development Board for MSP430i2x MCUs
3.	FMC, SMA,BNC connectors and other connector and components
4.	ADC, Motors, Solar Cell Panels, Motor Control development Kits and Sensors(temperature, Ultrasonic, Accelerator, gyroscope, strain, Displacement, Gas, CO2, Load Cell)

S.No	Consumables
1.	Electronic/electrical/mechanical/optical components and consumables
2.	Experimental kits, office and lab stationery items including chemicals, computer consumables (printer cartridges, components, cables, hard disks, memory stick, UPS batteries etc.) consumables for 3D printer, electronic circuit boards, and other misc. expenditures, Poster, certificate, banner, leaflet etc., printing and display arrangement, prizes for students, consumables for local hospitality

P-07 Chemicals and Consumables for the FY 2019-20

S.No	Name of Consumables
1.	Chemical and consumables for RO Plant Maintenance
2.	TPUs/Deep Learning Accelerators, Robotic Manipulator
3.	CST PIC Simulator
4.	Consumables(aluminium, Perspex,SS and MS sheet, filters, electronic components, sensors etc)
5.	Liquid Nitrogen and speciality gases(CF4,O2, Ar, CH4, SF6,CHF3,NO2,CO2)
6.	Chemical and consumables
7.	AMCS (UPS(80kva, 160kva),Wire bonder)
8.	Consumables/spares and services for SEM and Mask Aligner(m block)MFCs, regulators and other spares
9.	Mask Plates(3",4",5")
10.	Chemical and consumables
11.	SS tubing, gauges, connectors, tubes etc.(H2 Plant and N2 Plant)
12.	Wall mounting pressure reducing valve for H2,N2 gas and cylinder pressure regulator(H2,N2,Ar gases)
13.	Fixing of PPR pipes(RO Plant to MWD lab)
14.	Internet Lease Line: Annual renewal
15.	Network Maintenance items
16.	Consumables, tools, EDM wire, metal, rods, sheets etc.
17.	Chemical protective consumables(gloves, face shield, goggles, clean room shoes, first aid kit etc)
18.	Small size hammer with protective chain
19.	Fire extinguisher(hand held cylinder and refilling)
20.	Chemical disposal

Sponsored Project

S.No	Consumables
1.	Brazing Alloys, Aluminium, Brass and Die Steel Plates, rods, tubes etc.,
2.	Chemicals, O-rings, neoprene Teflon Sheets, Vec Seals etc.

S.No	Consumables
1.	Towards electronic components, cables, connectors, etc. (CEERI),
2.	Plants needs consumables like pipes, joints, wires, electrical items for operation and maintenance of the plants
3.	ARM Boards, embedded platforms and microcontrollers are used to develop embedded system
4.	Chemicals, vials, vial stands, magnetic stirrer bards, etc. are used for sample preparation

S.No	Consumables
1.	High Current Solar Cells (Monocrystalline), EVA, Back sheet, ribbon wire, Silicon gels, adhesive, Nano-coating for glass surface, High reflectivity silver/Al based glass mirror (>0.99 reflectivity) with weather protective coating, High Reflectivity mirror film with protective coating (Reflectech/Alanod) (>0.95 reflectivity), Electrical sensors (Current, voltage sensors), Electronic Components (wires, bread boards, GPB, PCB, Mosfets, GTOs, Thyristors etc., Microcontrolers (ARM based)

S.No	Consumables
1.	Wafers/Substrates, Laboratory Chemicals, Other Consumables Items

S.No	Consumables
1.	1. W, Re, Os & Ir Powder, Moly rods/sheets, Kovar Sheets/Rods, Cu-W Rods/Sheets
2.	Feed through, HV Cables, Vacuum Gauges, components and others

S.No	Consumables
1.	Components, chemicals, raw materials, mechanical tools, software tools

S.No	Consumables
1.	Various consumables such as electrodes, solar cells, minor electrical/electronic equipment

S.No	Consumables
1.	Validation (Reference Sensors)
2.	Gases (N ₂ , O ₂ , Cl ₂ , BCl ₃ , Ar and others)
3.	High Purity Metals (Au, Ti, Al, Ni, Pd, Pt., etc.)
4.	Renewal of Design Software (APSYS SimuLED, etc.)
5.	Substrate wafers (Sapphire, Si, AlN-Templates, etc.)
6.	MFC, Tubing, connectors, fitting, etc.
7.	Consumables for bonding
8.	Glassware, filter, gloves, safety consumables
9.	Consumables for dicing (Blades, spares, etc.)
10.	Photoresists, developers, strippers, etc.
11.	Lithography mask-plates, spares, etc.
12.	Chemicals (Acetone, Methanol, IPA, HCl, H ₂ SO ₄ , etc.)
13.	Packaging materials and accessories

S.No	Consumables
1.	Si wafers, SOI Wafers, Organic and inorganic chemicals, photo resist, developer, remover, sputter targets, gases, mask making, chemical cleaning, oxidation, photolithography, wet etching, TMAH etching, metallization, lift-off, sputtering, PECVD, reactive ion etching etc.)

S.No	Consumables
1.	Si wafers, SOI Wafers, Organic and inorganic chemicals, photo resist, developer, remover, sputter targets, gases, mask making, chemical cleaning, oxidation, photolithography, wet etching, TMAH etching, metallization, lift-off, sputtering, PECVD, reactive ion etching etc.)

S.No	Consumables
1.	Fabrication of Sensors (Wafers, Chemicals, PR, Developer, Target materials, headers, chip fabrication etc.)
2.	Platform Realization (Microcontroller, PCBs, Components, Solenoid Valves, Relays, external payment etc.)
3.	System packaging requirements (Packaging components, their housing, etc.)
4.	Validation (Reference Sensors)

S.No	Consumables
1.	Chemicals Kits (Arsenic, copper, nitrate, iron), Testing setup and equipments (Test-tube, beaker, stands etc.), UV-Vis-NIR LED array, Detectors, ion selective electrodes, electronics components, connectors, micro pumps, micro valves, mechanical sheets, mechanical boxes, PCB fabrication, DC batteries, standard calibration solutions of heavy metals (10, 100 1000 ppm) (Arsenic ,copper nitrate, iron)

S.No	Consumables
1.	UHV Grade Material, Bracing alloys
2.	Space grade cathodes, metalized ceramics
3.	RF Passive Components, space grade potting materials and cables

S.No	Consumables
1.	Workstation, RAM, Printer cartridges etc.

S.No	Consumables
1.	Wafers, Chemicals, Computer Consumables, Gases, Electrical Consumables, MFCs, Wafers etc.

S.No	Consumables
1.	Substrates, Screen Meshes, Screen Preparation Materials, Solder Pastes, Epoxies, LTCC Tape and paste system, Screen Printing materials, chemicals, mixer materials, potting compounds, alumina substrates, metal oxides, gases, via-punch tools, resistor paste series, thick-film paste (Ag, PdAg, Au, AuPt, Pt, etc.), Glassware, Teflon, Perspex, High resolution photoplots and masks, batteries, power banks, electronic components, adapters, cartridges, spares/accessories of existing equipments, SS, brass, Computer accessories, jigs, fixtures, lens, microscope accessories, sealants, leads, Au/Ag/Pt bond wires

S.No	Consumables
1.	Micro-controller, Display, Zig Bee, Bluetooth
2.	Resistors, capacitors
3.	PCB Fabrication

S.No	Consumables
1.	Refurbishment cost

S.No	Consumables
1.	SS Rod, Perspex Sheet, Rod, OFHC copper, Gaskets, Inert Gas, Vacuum Line Components, Attenuators, Computer parts, etc

S.No	Consumables
1.	Motors, DC, BLDC< Hub
2.	Motor drives and accessories
3.	Multifunction DAQ Card and Accessories
4.	Batteries and chargers
5.	Embedded development boards, TI and Microchip
6.	Sensors and accessories
7.	Other electronic and mechanical components
8.	DB59C024035R-A — BRUSHLESS DC MOTOR
9.	BLDC motor, accessories
10.	AC/DC Current Clamp probe
11.	Batteries lead-acid, 12v 17Ah
12.	Batteries Li-ion
13.	Batteries 12v 7Ah
14.	Current shut monitor module
15.	Load cell sensor
16.	Current sensor, ACS winsonetc with different current ratings
17.	Voltage sensor
18.	Active components, diode transistor mosfetsetc
19.	Microcontroller / dsp processors TI / Microchip / ST - ICs
20.	TI debugger programmer
21.	ST debugger programmer
22.	Passive components resistor, capacitor inductors through hole smdetc
23.	Embedded Development boards for sensors and motors
24.	Motor driver board
25.	1, 1.5 core wires
26.	Connecting wires, burge strips, - straight, rectangle , M/F
27.	Mechanical components, sheets, angles, rods, screw, nuts, bolts, washer, pipes
28.	Tools and accessories
29.	Feviquick,fevitite, fevibond and sticky items
30.	Stationary items for project, pen, pencil, notebook, notepad, etc
31.	Connectors, relimates M/F etc
32.	Batteries pencil cells AA, AAA
33.	Computer accessories
34.	Display, LED, LCD
35.	Compiler – embedded development platform

S.No	Consumables
1.	PCB Design, Sensors, Power Cables, Batteries, Cases, Wires, Mechanical Assemblies, components etc.

S.No	Consumables
1.	Copper Loaded Tungsten (K10) rod, Moly, Kovar, OFHC
2.	Chemical Powder: Tungsten, Barium, Calcium, Aluminate, Rhenium, Ruthenium, Osmium etc.
3.	Electronic Component
4.	Miscellaneous

S.No	Consumables
1.	SU8 Negative Photoresist Al Etchants (Techni Etch Al80 (MOS)) for Al etching, BHF (Buffered HF), Silicon on Insulator (SOI), Wafers, Positive Photo-resist (S1818) and its developer Double sided Polished P and N Type, <100> silicon wafers of different sizes (4 inch an 3 inch), Double sided polished glass wafers of different size (4 inch and 3 inch), Wafers holders with backside and edge protection for a 3” and 4” inch silicon wafers, TMAH (Tetra methyl ammonium hydroxide) solution, ZnO ink, ZnO nano powder, ZnO dispersion nano particles, AlN nano dispersion nano particles and nano-powder, device packages, headers and other consumables (Acetone, IPA, H2O2, H2SO4 etc.) conductive silver epoxy etc.

S.No	Consumables
1.	USM drill rods of sub millimeter ranges, Highly doped silicon wafers, Nickel and Chromium UTMFs, CNT, Titanium dioxide, Barium Titanate, Quartz glass wafers, fused silica, vacuum components, chemicals etc. main consumables items and would be essentially required tu to regular use in the project.

S.No	Consumables
1.	<p>Electronic and electrical components, embedded boards, connectors, pipes, joins, wires etc.</p> <ol style="list-style-type: none">1. Smart system for RWH and smart irrigation electronic and electrical components (IoT platforms, embedded boards, integrated circuits, capacitors, resistance, connectors, wires, extension boards, electrical panels etc.)2. Smart irrigation: for 16 hectars land mechanical components (Sampling chambers, boxes, pumps, pipes, panels, holding couplings, joints, filters, sprinklers, drips, plumbing material, valves etc.)3. Materials for UV lamp development with dedicated power supply4. TDS and pH sensor development material

S.No	Consumables
1.	Spectral Sensors
2.	Filters
3.	Spectral source and detectors

S.No	Consumables
1.	MOSFET/Controller/Sensors/Heatsink
2.	Battery
3.	DC Loads
4.	MCB, Protection devices and others

S.No	Consumables
1.	Hardware Boards and Sensors for PPG. VPG, ECG & Calibration etc. Smart Watches

S.No	Consumables
1.	Glass Substrates, Photoresists, Antireflection coating, chemicals, safety equipments, sputtering turrets for thin film depositions etc. Solar cells, soldering flux, solders, cables/wires etc., optical fibres, lenses, mirrors, posts, screws

S.No	Consumables
1.	Copper Loaded Tungsten (K10) rod, Moly, Kovar, OFHC
2.	Chemical Powder: Tungsten, Barium, Calcium, Aluminate, Rhenium, Ruthenium, Osmium etc.
3.	Electronic Component
4.	Miscellaneous

S.No	Consumables
1.	Chemicals for cleaning (Ex. Acetone, propanol, sulphuric acid, buffer HF, methanol, HCl, hydrogen peroxide, chromic oxide, etc.)
2.	Gases (N ₂ , H ₂ , SiH ₄ , O ₂ , NH ₃ , N ₂ O, etc.)
3.	Consumables for lithography (Positive and negative photo resists, developer, and removers etc.)
4.	Metal etchants (Gold, Silver, Nickel, Chromium, Platinum, titanium etc.)

S.No	Consumables
1.	Pulses, BP Sensors, Laser Printer Cartridges, Pen Drives, Computer Stationery, Antivirus Software

S.No	Consumables
1.	Sensors for data collection (Microphone, gas sensors etc.)
2.	Platform realization (Micro-controller, PCBs, components, solenoid valves, relays, external payments, etc.)
3.	System packaging requirements (Packaging components, their housing, etc.)

S.No	Consumables
1.	Silicon Wafers
2.	Chemicals for Processing PDMS
3.	Gold granules for electrodes
4.	Photoresist Developer etc

S.No	Consumables
1.	Quad copter Frames
2.	Electronic Speed Controller (ESC)
3.	Flight Controller board
4.	Radio transmitter and receiver (RC Module)
5.	Propellers (clockwise and counter clockwise set)
6.	Battery (2200 mah, 4400 maah) and charger
7.	Charger module
8.	Outlinder/external motors
9.	GPS module
10.	Connectors/ Servo cables
11.	LIDAR Liler
12.	Optical flow sensor
13.	Landing gear/stand
14.	Sterio camera
15.	Antenna and wifi module, Bluetooth module
16.	Expansion bay
17.	Gimbal mounting
18.	Frame arm
19.	USB-TTL board
20.	LED Units and displays
21.	Passive components
22.	Connectors and cables
23.	Power management IC's
24.	Amplifier and comparator
25.	Microcontroller
26.	Drivers and interfaces
27.	IC Sensors
28.	Switches, relays, multiplexer and demultiplexer
29.	Integrated circuit
30.	Transistors, diodes and power modules
31.	RF Modules
32.	Sensors and transducers
33.	RF Development kit
34.	Battery folders and contacts
35.	Knobs accessories and shock absorber
36.	Glue guns and tapes
37.	ECG-GEL-Electrode (3M) (300PCS)
38.	Data Cable
39.	AA Battery Cell
40.	AAA Battery Cell
41.	Pen Driver 64GB
42.	Switch
43.	LaserJet Cartridge CF280A
44.	HP LaserJet Cartridge CE412A Yellow

45.	HP LaserJet Cartridge CE412A Black
46.	Hard Disk Internal
47.	Hard Disk External
48.	Feviquick
49.	Ring Binder File
50.	Various type FILE Folder
51.	Window 10
52.	Office 2016
53.	Quick Heal Antivirus
54.	Miscellaneous