ATL Equipment List – Batch of 90 Students

- 1. All ATL Schools are required to purchase equipment, as per the 'ATL Equipment list' (http://aim.gov.in/guidelines-for-school.php). The suggested quantity is mentioned in the ATL equipment list. Please note this list is not exhaustive, however it is mandatory for schools to purchase all equipment mentioned in the list as per their requirement.
- 2. All ATL Schools and vendors are required to follow all guidelines and documents mentioned on the AIM portal (http://aim.gov.in/guidelines-for-school.php). All the equipment considered necessary have been classified into the following four packages as follows:
 - a. P1 Electronics Development, Robotics, Internet of Things, and Sensors
 - b. P2 Rapid Prototyping Tools
 - c. P3 Mechanical, Electrical, and Measurement tools
 - d. P4 Power Supply, Accessories and Safety equipment

Packag	Package 1: Electronics Development, Robotics, Internet of Things and Sensors				
Category	Name	Specification	Suggested Quantity	Туре	
Electronics Development	Arduino Uno or equivalent	ATmega328P - 8 bit AVR family microcontroller, equivalent or better. Operating Voltage: 5V Digital I/O Pins: 14 (of which 6 provide PWM output) PWM Digital I/O Pins : 6 Accessories : Case shell enclosure, compatible USB cable (length - 6 inch or more)	45	Consumable	
Electronics Development	Arduino Nano or equivalent	ATmega328P - 8 bit AVR family microcontroller, equivalent or better. Operating Voltage: 5V Digital I/O Pins : 14 (of which 6 provide PWM output) Analog Input Pins : 8 Accessories : Compatible USB cable (length -6 inch or more)	15	Consumable	

Category	Name	Specification	Suggested Quantity	Туре
Electronics Development	Arduino Mega or equivalent	ATmega 2560P - 8 bit AVR family microcontroller, equivalent or better. Operating Voltage: 5V Digital I/O Pins : 54 (of which 6 provide PWM output) Analog Input Pins: 16 Accessories: Case shell enclosure, Compatible USB	15	Consumable
Electronics Development	Raspberry Pi 3 Model B+	cable (length -6 inch or more) RASPBERRY PI 3 MODEL B+, equivalent or better Accessories - MicroSD card - 32 GB, USB 3.0 cable (1 meter), HDMI to VGA - 1 meter, HDMI to VGA adapter, Case shell enclosure	8	Consumable
Electronics Development	Breadboards & Mini Breadboard	Solderless 400 pin breadboard Solderless 800 pin breadboard	50 30	Consumable
	General Purpose	Self-Adhesive Proto Shield FR2 A Grade Material (140 x 90 mm)	30 50	Consumable
	solderable Board	FR2 A Grade Material (80 x 55 mm)	50	Consumable
Electronics Development		Female Berg Strip, 2.54mm pitch, 40 pin single row, breakable pin	50	Consumable
	Berg Strips	Male Berg Strip, 2.54mm pitch, 40 pin single row, breakable pin	50	Consumable
Electronics Development	16x2 LCD display	Dot matrix LCD display. 16 characters X 2 lines. I2C	30	Consumable
Electronics Development	USB Cables	USB Cable Set (A to B, 12 inch or more)	15	Consumable
Electronics Development	USB Cables	USB Cable Set (Mini, 12 inches or more)	15	Consumable
Electronics Development	Battery	9-12V 2000 to 2500 mAh rechargeable battery with 2 chargers. Equivalent or better	10	Consumable

Category	Name	Specification	Suggested Quantity	Туре
Electronics Development	Resistor Kit	One kit contains - 30 carbon film resistors of 20 different resistance values each assorted, packaged together and labelled. Wattage: $0.125W$ to $1W$ Values: 0Ω , 1.5Ω , 4.7Ω , 10Ω , 47Ω , 100Ω , 220Ω , 330Ω , 470Ω , 680Ω , $1k\Omega$, $2.2k\Omega$, $3.3k\Omega$, $4.7k\Omega$, $10k\Omega$, $22k\Omega$, $47k\Omega$, $100k\Omega$, $330k\Omega$, $1M\Omega$	30	Consumable
Electronics Development	Capacitor Kit	One kit contains - 20 electrolytic capacitors of 10 different capacitance values each. Assorted kit packaged together and labelled. Values: 10pF, 22pF, 100pF, 1nF, 10nF, 100nF, 1μF, 10μF, 100μF, 1000μF	30	Consumable
Electronics Development	Linear Voltage Regulator	7805, 7812,7809	45	Consumable
Electronics Development	Water Pump module	DC12V 3W Submersible Water Pump	6	Consumable
Electronics Development	Piezoelectric Plate	Normal Copper based 4 cm Diameter approx.	30	Consumable
Electronics Development	8*8 LED Matrix Module	Max7219 Dot LED Matrix Module. MCU Control LED Display Module	10	Consumable
Electronics Development	Bluetooth module	HC 05 Bluetooth module Voltage Rating: 5 V	15	Consumable
Electronics Development	7 Segment Led Display	LED 4-Digit Display Module Voltage Rating: 2.4V to 5.5V 4-Pin interface: Vcc, Gnd, Data, Clock	30	Consumable
Electronics Development	GSM	Sim900 GPRS Transfer Board Micro Sim Gsm Core TTL Port Module for Arduino	6	Consumable
Electronics Development	GPS	GY-NEO6MV2 new GPS module	6	Consumable
Electronics Development	Laser Diode Emitter	650 nm 5mW Mini Laser Dot Diode Module	15	Consumable
Electronics Development	LDR Module	5mm/12mm, Photosensitive LDR Light Sensor Module	45	Consumable

Category	Name	Specification	Suggested Quantity	Туре
Electronics Development	Keypad	Universal 16 Key Switch Keypad	15	Consumable
Electronics Development	JoyStick	2-axis joystick with push button function	15	Consumable
Electronics	Active Buzzer	Small 5 volt	60	Consumable
Development	Active Buzzei	Big 5 volt	60	Consumable
Electronics Development	Motor driver Module	L293D	15	Consumable
Electronics Development	Sound Playback Module	ISD1820 voice recording module or equivalent	15	Consumable
Electronics Development	DC Plastic Gear motor with wheel	12V, 150RPM, Side Shaft BO (Battery operation) Motor	60	Consumable
Electronics	Node MCU	ESP 8266	8	Consumable
Development	Noue meo	I2C, 1 wire, plug and play	0	consumable
Electronics Development	WeMos D1 R2	WeMos D1 R2 with WiFi ESP 8266	8	Consumable
		Operating Voltage: 5V		
Electronics	Vibrating	Weight: 10 Grams	30	Consumable
Development	Motor	Operating Voltage: 1.5 to 3V		consumatic
Electronics	Alligator	Multi-Colour Alligator	300	Consumable
Development	Connectors	Connectors - 12 inch		
Electronics Development	Battery clips with DC Jack	9-volt battery clips with DC Jack	40	Consumable
Electronics Development	Hook-up Wires	Red & Black set 100 Meters each	4	Consumable
		Male-Male	1500	
Electronics	Jumper Cable	Male-Female	1000	Consumable
Development		Female-Female	500	
Electronics Development	RGB LEDs	Regular 5mm 3-5 volt Range	600	Consumable
Electronics Development	LEDs (Red)	Regular 5mm 3-5 volt Range	1500	Consumable
Electronics Development	LEDs (Green)	Regular 5mm 3-5 volt Range	1500	Consumable
Electronics Development	LEDs (Blue)	Regular 5mm 3-5 volt Range	1500	Consumable
Electronics Development	LEDs (Yellow)	Regular 5mm 3-5 volt Range	1500	Consumable
Electronics Development	LEDs (White)	Regular 5mm 3-5 volt Range	1500	Consumable

Category	Name	Specification	Suggested Quantity	Туре
Electronics	Timer IC - LM	LM 555 Timer IC.	45	Consumable
Development	555	Voltage range - 4.5V to 16V	45	consumable
		8 bit microcontroller Individual		
Electronics		IC (DIP).		
Development	Atmega16u2	Voltage range: 2.7V to 5.5V.	15	Consumable
•		Operational Range: -40°C to +80°C		
		One Kit Contains - 25 Assorted		
		Basic Diodes of 4 different		
		types each.		
		Types: NPN Transistor -		
		2N3904, BC547 PNP Transistor		
Electronics	Diodes and	- 2N3906, BC557 Silicon Diode		
Development	Transistors Kit	- 1N4148, Power Diode -	5	Consumable
Development		1N4004/4001.		
		Equivalent or better.		
		Wattage: 1W, Current rating:	-	
		1A Assorted kit packaged		
		together and labelled.		
		One Kit Contains - 100 buttons		Consumable
	Button Switch Set	of different types.	5	
Electronics		Types: Push, toggle, rotary,		
Development		selector and slide switch.		
		Assorted kit packaged		
		together and labelled.		
Electronics	Capacitative	MPR 121 with I2C.		
Development	touch Module	Voltage Range:	30	Consumable
-		2.5V to 3.6V DC.		
Electronics	Capacitative	Digital Capacitive touch switch	45	
Development	Touch Switch Module	module -TTP223B	15	Consumable
		Voltage Range: 2V to 5V DC. LM393		
Internet of	IR Sensors,	Detection distance:		
Things &	Obstacle avoider sensor	2 - 30 cm	30	Consumable
Sensors	module	Detection angle: 30 - 40°		
		3-Axis Magneto resistive		
		Sensors		
Internet of	Triple Axis	I2C Digital Interface		Consumable
Things &	Magnetometer	Integrated 12-bit ADC	15	
Sensors		Range of -8 to +8 Gauss		
		160 Hz Maximum o/p range		

Category	Name	Specification	Suggested Quantity	Туре
		Operating range:		
Internet of		20 – 95 % RH		
		Temperature: 0 - 60 Celsius		
Things &	Humidity Sensor	Power supply:	15	Consumable
Sensors	3611501	1.5V AC (Max sine)		
		Operating frequency:		
		500Hz - 2kHz		
		MQ - 2 Smoke Detection	4	
		MQ-3 Alcohol - Ethanol Sensor	4	
		MQ-4 Methane Natural Gas	Λ	
		Sensor	4	-
		MQ-5 Methane Liquified Gas	4	
Internet of		Sensor	4	
Things &	MQ Series	MQ-6 Liquified Petroleum Gas	4	Consumable
Sensors		Sensor		
		MQ-7 High Sensitivity CO	4	
		Carbon Monoxide Sensor Detector		
		MQ-8 Hydrogen Gas Sensor		
			4	-
	IR transmitter/	MQ-135 Air Quality Sensor 4 TSOP 1738		
Internet of	receiver	Switching rate: 38 KHz	15	Consumable
Things & Sensors		Voltage Rating: 5V	15	Consumable
5015015		Working Voltage - DC 5V		
		Working current - 15 mA		
	Ultrasonic			
Internet of	Sensor Module	Working Frequency - 40 Hz	_	
Things & Sensors	HC-SR-04 or	Range - 1 cm to 4 m	50	Consumable
Sensors	compatible	Effectual Angle - <15°		
		Measuring Angle - 30°		
		Resolution - 0.3 cm		
		3-axis sensing		
		Small, low profile package		
Internet of	Triple Axis	4 mm × 4 mm × 1.45 mm LFCSP		
Things &	accelerometer	Low Power: 350 µA (typical)	15	Consumable
Sensors	-	Single-supply operation: 1.8 V to 3.6 V		
		Temperature stability		

Category	Name	Specification	Suggested Quantity	Туре
Internet of Things & Sensors	PIR Motion Detector Module	High digital pulse when motion detected Low digital pulse when idle /no motion detected Sensitivity range (up to 6 m) Power supply: 5V – 12V	30	Consumable
Internet of Things & Sensors	Pulse Rate Heart Sensor	Pulse Rate Sensor Finger Based (finger or earlobe) Working voltage 3-5V	5	Consumable
Internet of Things & Sensors	Relay Module	5V 10A - 2 Channel Relay Module. Compatible with Arduino.	30	Consumable
Internet of Things & Sensors	Relay Module	5V 10A - 1 Channel Relay Module. Compatible with Arduino.	30	Consumable
Internet of Things & Sensors	Big Sound microphone module	Large Electret capsule sound module	15	Consumable
Internet of Things & Sensors	Big Sound microphone module	Large Electret capsule sound module	15	Consumable
Internet of Things & Sensors	Soil Moisture Sensor module	FC-28 with LM293 comparator Operating Voltage: 3.3V to 5V.	8	Consumable
Internet of Things & Sensors	Touch Sensor	Capacitive Touch Sensor Module. TTP22X series. Voltage Range: 2.4V to 5.5V	8	Consumable
Internet of Things & Sensors	Metal Touch Sensor Module	KY-036 or equivalent metal touch sensor module	8	Consumable
Internet of Things & Sensors	Rain Drop Sensor	Rain Sensitive, Rain Drop Detection Sensor Module. Voltage Range: 3.3V to 5.5V. Size: 5mm X 40mm or equivalent.	8	Consumable
Internet of Things & Sensors	Flex Sensor	Flex Sensor. Size - 2.2 Inches	8	Consumable
Internet of Things & Sensors	Temperature Sensor	LM35 Full range temperature sensor. Voltage Range: 4V to 30V. Error: ±0.5°C	8	Consumable
Internet of Things & Sensors	Temperature and humidity sensor module	DHT 11 Voltage Range: 3V to 5V	50	Consumable

Category	Name	Specification	Suggested Quantity	Туре
Internet of Things & Sensors	Force Pressure Sensor	Force sensitive resistor with a square, 1.75x1.5" sensing area	6	Consumable
Internet of Things & Sensors	Colour Recognition Sensor	TCS3200 Colour Recognition Sensor	6	Consumable
Internet of Things & Sensors	Water Flow Sensor	Arduino Compatible Water flow sensor. 5V DC Input.	6	Consumable
Internet of Things & Sensors	Sound Sensor	Sound Sensor Module, Microphones module	15	Consumable
Internet of Things &	IR Sensors Array module for Line	8 IR Sensors Array module for Line Following	15	Consumable
Sensors	Following	Operating Voltage: 5V		
Internet of Things & Sensors	Power Bank	10000 mAh 5-volt Power Bank		Consumable
	RFID Reader – Tags	Current :13-26mA / DC 3.3V	15	Consumable
		Idle Current :10-13mA		
		Sleep Current<80uA		
Internet of		Peak Current<30mA		
Things & Sensors		Operating Frequency: 13.56MHz<30mA		
		Read range between 20 cm to 1 m		
		Frequency Range: 433.92/315 MHz		
Internet of	RF Modules Tx	Supply Voltage: 3 – 6 V		
Things &	& Rx 315 MHz	Output: 4 – 16 Dbm	15	Consumable
Sensors	ASK	Low power consumption		
		Easy application		
Robotics	Stepper motor with Driver board	28BYJ-48 ULN2003 5V Stepper Motor + ULN2003 Driver Board	15	Consumable
Robotics	DC motor	12V DC Gear 150 RPM	30	Consumable

Category	Name	Specification	Suggested Quantity	Туре
		Position Servo Angle based Metal Gear	15	
Robotics	Servo motors	Small Servo Metal Gear	15	Consumable
RODOLICS	Servo motors	Continuous Metal Gear Servo 360	15	Consumable
		Small Servo Plastic Gear	60	
Robotics	150 RPM BO Motor	150 RPM BO Motor	15	Consumable
Robotics	L298P Motor Driver	L298P Motor Driver Shield or relative Driver Shield	15	Consumable
Robotics	Servo Motor Tester	CCPM 3 channel Servo Tester	6	Consumable
DIY Kit	Robotics DIY Kit	Robotics DIY kit with programmable intelligent brain/brick.	4	Equipment
DIY Kit	Mechanical (Modular) Construction kit	Metal/plastic mechanical construction kit compatible with electronic equipment.	6	Equipment
	Drone Kit		1	
	Aerospace Kit		1	
	Automobile Kit		1	
	Bio-Medical Kit		1	
STEM	Agritech Kit		1	
Learning/App lication Kit	Water/ Sanitation Kit	Educational Purpose	1	Equipment
	Bio Tech Kit		1	
	Other Potential STEM Application Kit		1	

For Package P1, it is important to note that the various kinds of electronics/ robotics platforms are likely to be on different platforms, and their sub-components are normally not inter-changeable. Therefore, schools are advised to evaluate all platforms for robotics, IoT, and electronics development, and pick any one/ more of the available P1 educational platforms, and buy all components on the same platform, so that the various components are compatible to each other.

	Packag	ge 2: Rapid Prototyping Tools		
Category	Name	Description	Suggested Quantity	Туре
Rapid Prototyping Tools	3D Printer Kit and tools	Printer Type: FDM (Fused Deposition Modelling), Minimum Dimensions: 160mm *160mm *160mm Build Size or 4 litre Build Volume., Nozzle: 0.3mm to 0.4mm nozzle diameter, slicing software should be free or Open source, LCD Screen UI that display print metrics, Good Heated Print bed. Material Compatibility - PLA, ABS, and derivatives of PLA, Ninjaflex Quality Anti-bacterial/fungal Cover. Repair Kit - with spare springs, screws, keys, tweezers, etc.	1	Equipment
Rapid Prototyping Tools	Dedicated UPS/Power back up	Dedicated UPS/Power Back up with 2-hour battery backup.	1	Equipment
Rapid Prototyping Tools	Filament for 3D printer	Compatible 1000 Grams Filament in 5 different colours	5	Consumable
Rapid Prototyping Tools	Filament Storage Box	Compatible Filament storage box	5	Consumable
		Cardboard	5	
	Set of Arts & Crafts	Foam core boards	5	
Rapid Prototyping	Accessories – e.g stationary items and basic	20m spool of thick strings various colour	5	Consumable
Tools	prototyping	Rubber band	100	
	material	Popsicle sticks	100	_
		Wood glue – 500 ml	2	

	Package 3: Mechanical, Electrical and Measurement tools				
Category	Name	Description	Suggested Quantity	Туре	
Mechanical Tools	Hacksaw Frame	Size: 12 inches	1	Equipment	
Mechanical Tools	Hacksaw blades	Size: 12 inches	10	Consumable	
Mechanical Tools	Mini Hacksaw Frame	Size: 6 inches	1	Equipment	
Mechanical Tools	Mini Hacksaw blades	Size: 6 inches	10	Consumable	
		External Straight	1		
		Nose Circlip Plier	1		
Mechanical		Long Nose Plier	1		
Tools	Pliers: 4.5-inch size	Combination Mini Plier	1	Equipment	
10015		Wire stripping pliers	1		
		Bent nose plier	1		
		Needle nose pliers	1		
Mechanical Tools	Tweezer Set	6 Pc Non-Magnetic Tweezer Set Size - 6 inches	2	Equipment	
Mechanical Tools	Ball Pein Hammer	Ball Pein Hammer Weight - 0.75kg	1	Equipment	
Mechanical Tools	Steel Shaft Claw Hammer	Claw Hammer Steel Shaft Weight - 0.75kg	1	Equipment	
Mechanical Tools	C-Clamp	Metal Clamp: 3-inch size	4	Equipment	
Mechanical Tools	Allen Key Set	10 Piece Ring Imperial Allen Hex key	1	Equipment	
Mechanical Tools	Drill Machine Set	Drill Machine with accessories Hammer/Screw and clockwise/anticlockwise modes. Power: 500W Chuck capacity - 1 to 10 mm Drill Bits - Masonry, Metal, Wood	1	Equipment	
Mechanical Tools	Drilling Workstation	Drill Press, Drill Holder and Rotary Tool, Compatible with Drilling machine provided	1	Equipment	
Mechanical Tools	Spanner Set	12-piece combination Spanner Set Range - 4 mm to 30 mm	1	Equipment	

Category	Name	Description	Suggested Quantity	Туре
Mechanical Tools	Vice Normal	Table top vice	1	Equipment
Mechanical Tools	Precision Screw Driver Set	6 Piece Precision Screw Driver Set Types: PH0, PH1, Flat head - 1.4mm, 2mm, 2.4mm, 3mm	3	Equipment
Mechanical Tools	Wrench	Adjustable Universal Wrench	2	Equipment
Mechanical Tools	Wire Strippers	Wire Stripper Cutter Plier With Spring -26x6x20 cm (LxWxH)	5	Equipment
Mechanical Tools	Screwdriver	40 pc Multi-purpose screwdriver set	3	Equipment
Mechanical Tools	Cordless Rotary Multitool Set	Cordless Rotary multitool with all cutting, grinding, polishing, engraving and drill bits. Speed: Adjustable up to 30000 RPM Battery Type: Li-ion Voltage/current range : 8- 10V, 0-2 A	1	Equipment
Mechanical Tools	Air Blower	500 W or more. Variable speed blower	1	Equipment
Mechanical Tools	Drill Bit Set	High Quality 13 Pcs HSS Drill Bits Set for Wood, Iron, Aluminium, Plastic etc.	1	Equipment
Mechanical Tools	File set	6 pc file set Working length - 6 inch	1	Equipment
	Mini File set	6 pc mini file set Working length - 3 inch	1	Equipment
Mechanical Tools	Flexible Cutting Mat	A3 Size with Marked Pattern and Grids (18" X 12")	1	Equipment
Mechanical Tools	Plastic Storage Drawer/Organiser	Number of Drawers: 60 or equivalent Drawer size (I*w*d) (inch) : 2*2*5	2	Equipment
Mechanical Tools	Pegboard	Peg board System to mount tools on wall with attachments. Size: 3ft*2ft	2	Equipment

Category	Name	Description	Suggested Quantity	Туре
Electric Tools	Hot glue gun	Works with standard 0.5- inch glue sticks. Temperature - 230 to 280 degree Celsius.	6	Equipment
Electric Tools	Digital Oscilloscope	Minimum Bandwidth: 50 Mhz. Minimum number of channels: 2 channels. Sample Rate: 1Gsa/s With inbuilt waveform function generator.	1	Equipment
Electric Tools	Soldering Kit	Variable Wattage of Soldering Iron: 15-30 watts/230 volts Soldering Iron Temperature Range: 280°C to 450°C	6	Equipment
		De-Soldering Pump, Soldering Flux (Paste) 100 grams, DE-soldering Copper Braid (Solder Wick) - 1.5m*2mm		
		Compatible Soldering Tip - Bevel, Chisel, Conical - 5 each per kit.		
		Soldering Wire: 20/22 AWG soldering Wire with rosin core flux (100 Grams)		
Electric Tools	Adapters	DC power Adapter with 5V, 2A	10	Consumable
Electric Tools	Adapters	DC power Adapter with 12V, 2A	10	Consumable
Electric Tools	Electric Screw Driver Set	Multipurpose Electric screwdriver set. Accessories - Compatible bits Mode - Wireless Battery - Li-ion 3.6V or equivalent with charging dock	1	Equipment
Electric Tools	Dual Temperature Heat Gun	1800 W Dual Temperature Heat Gun	1	Equipment

Category	Name	Description	Suggested Quantity	Туре
Electric Tools	Soldering Helping hand	Specifications: Adjustable crocodile holding clamps/clip. Soldering iron holder. LED light. Magnifying lens.	6	Equipment
Measurement Tools	Return measuring tape	Return measuring tape 5Mx19mm	2	Equipment
Measurement Tools	Stainless Steel Rule	Stainless Steel 12" / 150 mm Rule	5	Equipment
Measurement Tools	Digital Vernier Calliper	150 mm / 6" Digital Vernier Calliper	2	Equipment
Measurement Tools	Spirit Level	12" Spirit Level	1	Equipment
Measurement Tools	Digital Pen electric Tester	Voltage tester	1	Equipment
Measurement Tools	Digital Multi Meter	Digital Multi Meter Voltage Current Resistance-7 functions + 19 ranges to cover DC voltage 200mV to 1kV, AC voltage 200 V - 750 V, DC current 200 µA - 10 A Resistance 200 -2 M Ohm and Transistor & diode test.	5	Equipment
Biology Kit	DIY Paper Microscope	DIY Paper microscope. Magnification range - 100x to 2000x	5	Consumable
Astronomy Equipment	Telescope	All glass optical components Altazimuth mount suitable for terrestrial and astronomical use minimum 700 mm focal length	1	Equipment
Textile Equipment	Sewing Kit	Semi-Automatic Sewing machine Straight stitch Consumables - 2 set of assorted needles and 10- colour spool set.	1	Equipment

Package 4: Power Supply & Accessories and Safety Equipment							
Category	Name	Description	Suggested Quantity	Туре			
Power Supply & accessories	Glue Sticks	11 mm x 200mm Hot Melt Glue Stick	150	Consumable			
Power Supply & accessories	Nuts and Bolts and screw	Specs - M4X12MM M4X20MM M5X16MM M5X25MM M6X20MM	40	Consumable			
Power Supply & accessories		Small Cable Tie Pack - Pack of 100	15	Consumable			
	Cable Tie	Medium Cable Tie Pack - Pack of 100	15	Consumable			
		Big Cable Tie Pack - Pack of 100	15	Consumable			
Power Supply & accessories	Sand Paper	Grit Values - 80, 100, 120, 200, 300. 5 Nos of each	10	Consumable			
Power Supply & accessories	Power Strip Adaptors	Standard Quality Extension with 5Amp safety fuse. 5 or more sockets in each extension. 5-meter length of each extension.	5	Consumable			
Power Supply & accessories	Bulb Holders	Regular Hanging Bulb holder	10	Consumable			
Power Supply & accessories	Electric Wires	Twisted Red black pair	20 meters	Consumable			
Power Supply & accessories	USB TO DC jack cable	USB to DC jack cable for Battery bank	10	Consumable			
Safety equipment	First-Aid Kit	Standard Medical First Aid kit in portable container.	2	Consumable			
Safety equipment	Fire extinguisher (handy units)	Powder Type Fire Extinguisher 2KG	2	Consumable			
Safety equipment	Safety goggles (with/ without LED torch)	Polycarbonate Safety goggles Clear lens with no tint	50	Consumable			
Safety equipment	Safety Gloves Pairs	Latex Coating Gloves (Medium Size)	15	Consumable			
Safety equipment	Safety Mask	Filtering efficiency ranging 80 percent when tested against 0.3-micron sodium chloride particle	30	Consumable			

Guideline for Vendors:

- 1. It is mandatory for all vendors to provide installation and equipment training to the Schools (Principal/ ATL-in charge/ faculty members) on handling and usage of equipment, after the delivery of the equipment, at no additional charge.
- 2. It is mandatory for all vendors to provide 2 years of comprehensive warranty at no additional charge (including for 3D printers). If the school requires repairing of an ATL equipment, then the vendor should provide a replacement till the time the equipment is fully repaired).
- 3. Vendors should clearly indicate the timeline for delivery of packages, installation and training. The delivery time should not be more than 1 month.
- 4. The vendors should maintain a supply chain of consumables and other items for 5 years.
- 5. The vendors should provide 3-year comprehensive AMC, wherever applicable, and clearly indicate the terms and conditions of the same.
- 6. The vendors should indicate both itemized prices and package wise pricing and provide detailed specification and brand name of all the equipment
- 7. The vendor should provide all required documents for verification by the school at the time of purchase of equipment. Authorized signatory must sign the documents.
- 8. The vendors should have a mechanism for proper disposal of e-waste.
- 9. In case the vendors are third party vendors or channel partners, they should ensure timely availability of all equipment and associated services to the School, to avoid any delay or inconvenience to the schools.
- 10. The Vendor must ensure the quality of the supplied item and requisite services are satisfactory and up to mark. If the same is not found satisfactory for whatsoever reason, the supplier shall be blacklisted and necessary administrative action shall be taken against them.
- Schools can spend a maximum of Rs. 7,00,000/- (Rupees Seven Lakhs Only) on all the packages P1, P2, P3, P4. The total quotation for all the packages should not exceed the stipulated amount.
- 12. While you interact with the ATL schools, please make a note of the following guidelines:
 - a. Please remember 'NITI Aayog is not endorsing any equipment supplier / vendor, nor has empanelled anyone'.
 - b. In case the vendors are conducting an event for the school, please note that such events cannot be branded as 'Atal Tinkering Lab Orientation'. This is very misleading for the schools. Any such events/ interactions that you conduct with ATL schools, should be treated as independent event/ interaction, and not linked to NITI Aayog's event.
 - c. No vendor is allowed to use **ATL/NITI branding, logo or names** on their website, or at any of their events.
 - d. In case the school has any query please direct them to write to atlhelp-niti@nic.in whereas the vendors are advised not to communicate with the school on behalf of NITI Aayog, this is misleading.
- 13. The vendors found involved any malpractice, misleading schools, and cheating would be blacklisted immediately.
- 14. All procurement shall be made through the GeM portal only. Schools are instructed to follow the GeM procurement guidelines and procure material as per the L1 quote.