

**KENDRIYA VIDYALAYA NFR MALIGAON**  
**LIST OF CONSUMABLE AND NON-CONSUMABLE ITEM REQUIRED FOR ATAL TINKERING LAB**

S.NO	package	Category	Name	Description	Type	Model	Maker	NAME OF FIRM
								RATE
1	ONE TIME PURCHASE	one time purchase	laptop	Lenovo IdeaPad 100 Core i3 5th Gen - (4 GB/500 GB HDD/Windows 10 Home) 100-14IBD Notebook (14 inch, Black, 2.1 kg) with Anti-Virus	Non-Consumable	Lenovo IdeaPad 100-14IBD Notebook (14 inch, Black, 2.1 kg)	lenovo	
2	ONE TIME PURCHASE	one time purchase	Mouse	wire-less optical mouse	Consumable	logitech		
3	ONE TIME PURCHASE	one time purchase	speakers	for computer monitor	Consumable	big size with amplifier		
4	ONE TIME PURCHASE	one time purchase	web Camera	wire less	Non-Consumable	GOOD QUALITY		
5	P1	Electronics Development	Intel Genuino 101	Hardware development board with Memory and I/O ports	Consumable	ATLASEEDGE.2	Intel	
6	P1	Electronics Development	Intel Galileo	Hardware development board with Intel Quark SocX1000 supporting Arduino ready-made hardware	Consumable	GALILEO2.P	Intel	
7	P1	Electronics Development	Intel Edison Kit for Arduino	Used to evaluate 22nm Edison Single-Chip SoC with Dual Core, Dual Thread Intel Atom CPU at 500 MHz and Intel Quark MCU at 100	Consumable	EDI2ARDUIN.AL.K	Intel	
8	P1	Electronics Development	General Purpose Solderable Board	Size A1, A2, A3	Consumable	GOOD QUALITY		
9	P1	Electronics Development	16x2 LCD display	LCD display with 16 characters and	Consumable	GOOD QUALITY		
10	P1	Electronics Development	USB Cables	USB Cable Set (A to B)	Consumable	GOOD QUALITY		
11	P1	Electronics Development	9 Volt Battery	Amperage	Consumable	GOOD QUALITY		

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12	P1	Electronics Development	Coin cell batteries	3 VOLTS	Consumable	GOOD QUALITY		
13	P1	Electronics Development	Coin cell HOLDER		Consumable	GOOD QUALITY		
14	P1	Electronics Development	COPPER TAPE	1CM	Consumable	GOOD QUALITY		
15	P1	Electronics Development	COPPER TAPE	1/2 CM	Consumable	GOOD QUALITY		
16	P1	Electronics Development	LED	Red, Blue, Green, Yellow, White, Tricolor	Consumable	GOOD QUALITY		
17	P1	Electronics Development	Jumper wires	Male to male, female to female, male to female	Consumable	GOOD QUALITY		
18	P1	Electronics Development	SWITCH	02 LEG	Consumable	GOOD QUALITY		
19	P1	Electronics Development	SWITCH	04 LEG	Consumable	GOOD QUALITY		
20	P1	Electronics Development	SWITCH	ON-ON PUSH BUTTON	Consumable	GOOD QUALITY		
21	P1	Electronics Development	SWITCH	ON-OFF PUSH BUTTON	Consumable	GOOD QUALITY		
22	P1	Electronics Development	SWITCH	SPDT SWITCH	Consumable	GOOD QUALITY		
23	P1	Internet of Things & Sensors	Triple Axis Magnetometer	~ 3 Axis Magnetoresistive ~ I2C digital interface ~ Integrated 12 bit ADC ~ Range -8 to +8 guass ~ 160Hz maximum output rate	Consumable	HMC5883L		

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24	P1	Internet of Things & Sensors	IR Sensors Obstacle Sensor	~Detection Range ~Detection Angle	Consumable			
25	P1	Internet of Things & Sensors	Ultrasonic Sensor Module	~ Power Supply ~ Quiescent and working Current ~ Effectual angle ~ Ranging distance ~ Resolution ~ Working angle and dimension	Consumable	HCSR04		
26	P1	Internet of Things & Sensors	Triple Axis Accelerometer	~Three axis sensing ~Small, low profile package ~Low power ~Single supply operation ~Temperature stability	Consumable	ADXL335		
27	P1	Internet of Things & Sensors	RF Modules Tx and Rx 315 Hz	~ Frequency range : 433.92/315MHz ~ Supply voltage: 3-6V ~ Output power: 4-16 Dbm	Consumable	ST-RX02-ASK/ST-TX01-ASK or compatible		
28	P1	Internet of Things & Sensors	Voice recognition	~ Works on 4.5 to 5.5 V DC ~ Digital Interface: 5V TTL level UART ~ Working current < 40 mA	Consumable			
29	P1	Robotics	4 Wheel robot car chassis kit	With DC motors, encoder, battery case	Consumable			
30	P1	Robotics	DC Motor	3-6V, 2000 RPM	Consumable	EK2153 or equivalent		
31	P1	Robotics	Servo Motors	~ Positional rotation servo ~ Continuous rotation servo ~ Linear servo	Consumable			
32	P1	Robotics	DIY Kits	31313 MINDSTORMS EV3 - per kit	Consumable	31313 MINDSTORMS EV3	LEGO	
33	P2	Rapid Prototyping Tools	3D printer kit and tools	1.75mm PLA Printer with 180mm x 200mm x 160mm volume, spatula, tweezers, Cutter, Screwdriver, Wrench etc.	Non-Consumable	Dreamer	Flashforge	

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34	P2	Rapid Prototyping Tools	VENYLE CUTTER	Per piece	Non-Consumable	GOOD QUALITY		
35	P2	Rapid Prototyping Tools	Filament for 3D printer	1.75 mm PLA filament. 750-1000g sp	Consumable	ABS filament	Flashforge	
36	P2	Rapid Prototyping Tools	Filament for 3D printer	1.75 mm PLA filament. 750-1000g sp	Consumable	PLA filament	Flashforge	
37	P2	Rapid Prototyping Tools	Set of Arts and Crafts accessories	Cardboard, foam core boards, string, rubberband, popscicle sticks, wood glue, etc.	Consumable	GOOD QUALITY		
38	P2	Rapid Prototyping Tools	Color chart paper - 10 colors	packet	Consumable	GOOD QUALITY		
39	P2	Rapid Prototyping Tools	Fluorescent paper - 5 colors	packet	Consumable	GOOD QUALITY		
40	P2	Rapid Prototyping Tools	photostat paper	A4	Consumable	GOOD QUALITY		
41	P2	Rapid Prototyping Tools	photostat paper	A3	Consumable	GOOD QUALITY		
42	P2	Rapid Prototyping Tools	Paper Cutter	packet of 12	Consumable	GOOD QUALITY		
43	P2	Rapid Prototyping Tools	Scissors	good quality Big size	Consumable	GOOD QUALITY		
44	P2	Rapid Prototyping Tools	Sketch Pen	packet	Consumable	GOOD QUALITY		
45	P2	Rapid Prototyping Tools	Stapler	small size	Consumable	GOOD QUALITY		

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46	P2	Rapid Prototyping Tools	Stapler	Big size	Consumable	GOOD QUALITY		
47	P2	Rapid Prototyping Tools	Stapler pins	small size	Consumable	GOOD QUALITY		
48	P2	Rapid Prototyping Tools	Fevicol glue	Big size	Consumable	GOOD QUALITY		
49	P2	Rapid Prototyping Tools	Paper pins	packet	Consumable	GOOD QUALITY		
50	P2	Rapid Prototyping Tools	Paper clips	packet	Consumable	GOOD QUALITY		
51	P2	Rapid Prototyping Tools	Plastic ruler 12	Per Piece	Consumable	GOOD QUALITY		
52	P2	Rapid Prototyping Tools	Clear tape (Trans	big size	Consumable	GOOD QUALITY		
53	P2	Rapid Prototyping Tools	Duct tape	Big size	Consumable	GOOD QUALITY		
54	P2	Rapid Prototyping Tools	Fevistic	small size	Consumable	GOOD QUALITY		
55	P2	Rapid Prototyping Tools	Rubber bands	Big size	Consumable	GOOD QUALITY		
56	P2	Rapid Prototyping Tools	Ice cream sticks	packet	Consumable	GOOD QUALITY		
57	P2	Rapid Prototyping Tools	Plastic straws	packet	Consumable	GOOD QUALITY		

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58	P2	Rapid Prototyping Tools	Foam sheet	packet	Consumable	GOOD QUALITY		
59	P2	Rapid Prototyping Tools	Cardboard rolls	packet of 12	Consumable	GOOD QUALITY		
60	P2	Rapid Prototyping Tools	Medical tape	packet of 12	Consumable	GOOD QUALITY		
61	P2	Rapid Prototyping Tools	Sewing needles	packet of 12	Consumable	GOOD QUALITY		
62	P2	Rapid Prototyping Tools	thread balls - 5	packet of 12	Consumable	GOOD QUALITY		
63	P2	Rapid Prototyping Tools	Toothpicks	packet	Consumable	GOOD QUALITY		
64	P2	Rapid Prototyping Tools	STICKY NOTES (PO	packet	Consumable	GOOD QUALITY		
65	P2	Rapid Prototyping Tools	PENCIL CELLS	packet of 12	Consumable	GOOD QUALITY		
66	P2	Rapid Prototyping Tools	PENCIL CELLS (SM	packet of 12	Consumable	For Remote		
67	P2	Rapid Prototyping Tools	LIPO LIION BATTE	packet of 12	Consumable	GOOD QUALITY		
68	P3	Mechanical tools	Pliers	~External Straight plier ~Nose Circlip plier ~Wire Stripping pliers ~Bent nose pliers	Non-Consumable	GOOD QUALITY	Stanley	
69	P3	Mechanical tools	Hammer	~Ball pen ~Steel shaft claw ~Fibre glass nail	Non-Consumable	GOOD QUALITY	Stanley	
70	P3	Mechanical Tools	Workstation for drilling	Including dremel 4000 rotary multi	Non-Consumable	GOOD QUALITY	Dremel	
71	P3	Mechanical Tools	ELECTRIC SCREW DRIVER	12 volt cordless drill/driver with keyless chuck and 50 accessories kit	Non-Consumable	CD121K50	Black and Decker	

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72	P3	Mechanical Tools	Allen Key set	Per set	Non-Consumable	GOOD QUALITY	Stanley	
73	P3	Mechanical Tools	12 piece open ended Spanner set	Per set	Non-Consumable	GOOD QUALITY	Stanley	
74	P3	Mechanical Tools	C-Clamp	Per set	Non-Consumable	GOOD QUALITY	Stanley	
75	P3	Mechanical Tools	Baby vice	Per set	Non-Consumable	GOOD QUALITY	Stanley	
76	P3	Electric Tools	DC Power Supply	0-30V, 1 A digital DC power supply with variable adjustment	Non-Consumable	GOOD QUALITY		
77	P3	Measurement Tools	Return measuring tape 5m.	per piece	Non-Consumable	GOOD QUALITY	Stanley	
78	P3	Measurement Tools	150mm/6" Digital Vernier Caliper	per piece	Non-Consumable	GOOD QUALITY	Aerospace	
79	P3	Measurement Tools	12" Spirit level	per piece	Non-Consumable	GOOD QUALITY		
80	P3	Rapid Prototyping Tools	Clear tape (Trans)	small size	Consumable	GOOD QUALITY		
81	P3	Electric Tools	Cables	Micro USB, Mini USB, USB - USB.	Consumable	GOOD QUALITY		
82	P3	Electric Tools	Adapters	DC power adapter with 5V, 12V.	Consumable	GOOD QUALITY		
83	P3	Electric Tools	SOLDERING CONSUMABLES	SOLDERING WIRE (WITHOUT LEAD)	Consumable	GOOD QUALITY		
84	P3	Electric Tools	SOLDERING CONSUMABLES	FLUX	Consumable	GOOD QUALITY		
85	P3	Electric Tools	SOLDERING CONSUMABLES	DESOLDERING WICK	Consumable	GOOD QUALITY		

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86	P3	Rapid Prototyping Tools	Stapler pins	Big size		GOOD QUALITY		
87	P4	Mechanical Tools	Drilling Machine	High power	Non-Consumable	GOOD QUALITY		
88	P4	Construction Kit	STEM Modular construction kit	PER KIT	Non-Consumable	Simple and powered machine set	Lego	
89	P4	Power Supply & Acc.	9 Volt Battery clips	PER DOZEN	Consumable	GOOD QUALITY		
90	P4	Powe Supply & Acc.	Hookup Wires	Red and Black set 100 meters each	Consumable	GOOD QUALITY		
91	P4	Power Supply & Acc.	Power strip for power adaptors	Per Piece	Consumable	GOOD QUALITY	Phillips	
92	P4	Safety	First Aid KIT	PER KIT	Consumable	GOOD QUALITY		
93	P4	Safety	Safety goggles	per piece	Consumable	GOOD QUALITY	3M	
94	P4	Safety	FIRE EXTINGUISHER	small size	Consumable	GOOD QUALITY		

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**Guidelines for Vendors**

**NOTE : Vendors should maintain the serial no as mentioned in the List above and provide the rate as mentioned in the list**

1. It is mandatory for all vendors to provide installation and training to the Schools, after the delivery of the Non-Consumable.
2. Vendors must ensure that the delivery and installation of items be completed by 30/09/2017
3. The vendors should maintain a supply chain of consumables and other items for 5 years
4. The vendors should provide 2 year warranty and 3 year AMC, wherever applicable, and clearly indicate the terms and conditions of the same.
5. The vendors should indicate both itemized prices and package wise pricing and provide detailed specification and brand name of all the Non-Consumable
6. The vendor should provide all required documents for verification by the school at the time of purchase of Non-Consumable. Authorized signatory must sign the documents
7. The vendors should have a mechanism for proper disposal of e-waste
8. In case the vendors are third party vendors or channel partners, they should ensure timely availability of all Non-Consumable and associated services to the School, to avoid any delay or inconvenience to the schools.
9. In case some schools are unhappy with the services of some selected vendors, they would not be permitted to provide services to other ATL schools.