

**ESTABLISHMENT OF ATAL TINKERING LAB**  
**AT ARMY PUBLIC SCHOOL RAMGARH CANTT**  
**LIST OF KIT/TOOLS REQUIRED**

<b>S No.</b>	<b>Item &amp; Description</b>	<b>Qty.</b>	<b>R</b>
1	ARDUINO UNO	30.00 pcs	
2	ARDUINO NANO 3.0	5.00 pcs	
3	RASBERRY PI 3 MODEL 1 GB	5.00 PCS	
4	BREAD BOARD 400	20.00 PCS	
5	BREAD BOARD 800	20.00 PCS	
6	SELF ADHESIVE PROTOSHIELD	10.00 PCS	
7	VERO BOARD 6×4	10.00 PCS	
8	BERG STRIP FEMALE 40 PIN	20.00 PCS	
9	BERG STRIP MALE 40 PIN	20.00 PCS	
10	LCD 16×2	10.00 PCS	
11	USB CABLE A-B 6 INCHES	10.00 PCS	
12	MINI USB DATA CABLE 6 INCHES	10.00 PCS	
13	LITHIUM-ION BATTERY 11.1 V	8.00 PCS	
14	MIXED CAPACITORS	10.00 PCS	
15	MIXED RESISTORS	20.00 PCS	
16	VOLTAGE REGULATOR IC	20.00 PCS	
17	MINI WATER PUMP MOTOR	3.00 PCS	
18	PIEZO ELECTRIC PLATE	20.00 PCS	
19	8×8 LED MATRIX	8.00 PCS	
20	BLUETOOTH TTL MODULE HC05	8.00 PCS	
21	7 SEGMENT DISPLAY	10.00 PCS	
22	GSM MODULE	2.00 PCS	
23	GPS MODULE	2.00 PCS	
24	LASER DIODE	10.00 PCS	
25	LDR PHOTO SENSOR	10.00 PCS	
26	UNIVERSAL 16 KEY PAD	5.00 PCS	
27	JOY STICK MODULE10.00	10.00 PCS	
28	ACTIVE BUZZER SMALL	30.00 PCS	
29	ACTIVE BUZER BIG	20.00 PCS	
30	L293D MOTOR DRIVER	10.00 PCS	
31	BO MOTORS WITH WHEELS	30.00 PCS	
32	NODE MCU ESP8266	5.00 PCS	
33	WEMOS D1 R2 WIFI	3.00 PCS	
34	VIBRATING MOTOR 3V	10.00 PCS	
35	ALLIGATOR CONNECTORS	100.00 PCS	
36	BATTERY CLIP WITH DC JACK	20.00 PCS	
37	HOOKUP WIRES ROLL	4.00 PCS	
38	JUMPER WIRE M-M	1000.00 PCS	
39	JUMPER WIRE M-F	300 .00 PCS	
40	JUMPER WIRE F-F	300.00 PCS	
41	RGB LED	100.00 PCS	
42	RED LED	400.00 PCS	
43	GREEN LED	400.00 PCS	
44	BLUE LED	400.00 PCS	
45	YELLOW LED	400.00 PCS	

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46	WHITE LED	400.00 PCS	
47	555 TIMER IC	10.00 PCS	
48	ATMEGA 16U2	5.00 PCS	
49	DIODE AND TRANSISTORS KIT	4.00 PCS	
50	BUTTON SWITCH KIT	2.00 PCS	
51	CAPACITIVE TOUCH MODULE MPR21	10.00 PCS	
52	CAPACITIVE TOUCH SWITCH TTP	10.00 PCS	
53	IR SENSOR LM393	20.00 PCS	
54	TRIPLE AXIS ACCELEROMETER	10.00 PCS	
55	HUMIDITY SENSOR DHT 11	10.00 PCS	
56	MQ-2 SMOKE SENSOR	2.00 PCS	
57	MQ-3 ALCOHOL SENSOR	2.00 PCS	
58	MQ-4 HIGH SENSITIVITY GAS SENSOR	2.00 PCS	
59	MQ-5 LPG SENSOR	2.00 PCS	
60	MQ-6 PROPANE GAS SENSOR	2.00 PCS	
61	MQ-7 CARBON MONOXIDE SENSOR	2.00 PCS	
62	MQ-8 HYDROGEN GAS SENSOR	2.00 PCS	
63	MQ-135 AIR QUALITY SENSOR	2.00 PCS	
64	TSOP 7038 IR SENSOR	10.00 PCS	
65	ULTRASONIC SENSOR HS04	30.00 PCS	
66	MAGNETOMETER TRIPLE AXIS	10.00 PCS	
67	PIR MOTION DETECTOR MODULE	10.00 PCS	
68	PULSE RATE HEART SENSOR	4.00 PCS	
69	RELAY MODULE DOUBLE CHANNEL	10.00 PCS	
70	RELAY MODULE SINGLE CHANNEL	10.00 PCS	
71	BIG MICROPHONE MODULE	6.00 PCS	
72	SOIL MOISTURE SENSOR	4.00 PCS	
73	TOUCH SENSOR	3.00 PCS	
74	METAL TOUCH SENSOR	3.00 PCS	
75	RAIN DROP SENSOR	3.00 PCS	
76	FLEX SENSOR	3.00 PCS	
77	TEMPERATURE SENSOR LM35	10.00 PCS	
78	DHT 11 TEMPERATURE AND HUMIDITY SENSOR	20.00 PCS	
79	FORCE SENSOR	2.00 PCS	
80	COLOR RECOGNITION SENSOR	3.00 PCS	
81	WATER FLOW SENSOR	3.00 PCS	
82	SOUND DETECTION SENSOR	5.00 PCS	
83	IR SENSOR ARRAY	10.00 PCS	
84	POWER BANK 10000 MAH	3.00 PCS	
85	RFID READER	10.00 PCS	
86	RF MODULE T×R×315 MHZ	5.00 PCS	
87	STEPPER MOTOR WITH DRIVER	10.00 PCS	
88	DC MOTOR 100 RPM	16.00 PCS	
89	POSITION SERVO METAL GEAR 180 DEGREE	6.00 PCS	
90	SMALL SERVO MOTOR METAL GEAR	6.00 PCS	
91	METAL GEAR SERVO MOTOR 360 DEGREE	10.00 PCS	
92	SMALL SERVO PLASTIC GEAR	10.00 PCS	
93	BO MOTOR L TYPE 150 RPM	10.00 PCS	

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94	L298N 2A BASED DRIVER	6.00 PCS	
95	SERVO MOTOR TESTER	2.00 PCS	
96	ROBOTICS DIY KIT	4.00 PCS	
97	MECHANICAL MODULAR CONSTRUCTION KIT	3.00 PCS	
98	DRONE KIT/DRONE KIT PLUTO	1.00 PCS	
99	AUTOMOBILE KIT	1.00 PCS	
100	BIO MEDICAL KIT	1.00 PCS	
101	AGRI-TECH KIT	1.00 PCS	
102	SOLAR STEM KIT	1.00 PCS	
103	HACKSAW FRAME (12 INCHES)	1.00 PCS	
104	HACKSAW BLADE (12 INCH)	5.00 PCS	
105	LONG NOSE PLIER	1.00 PCS	
106	COMBINATION PLIER	1.00 PCS	
107	WIRE STRIPPING PLIER	5.00 PCS	
108	BENT NOSE PLIER	1.00 PCS	
109	LONG NEEDLE NOSE PLIER	1.00 PCS	
110	TWEEZERS SET	1.00 PCS	
111	BALL PIN HAMMER	1.00 PCS	
112	STEEL SHAFT CLAW HAMMER	1.00 PCS	
113	C CLAMP (3 INCH)	2.00 PCS	
114	ALLEN KEY SET	1.00 PCS	
115	SPANNER SET	1.00 PCS	
116	VICE NORMAL (4 INCH)	1.00 PCS	
117	PRECISION SCREW DRIVER SET	1.00 PCS	
118	WRENCH	2.00 PCS	
119	MULTIBIT SCREW DRIVER	1.00 PCS	
120	DRILL BIT SET	1.00 PCS	
121	FILE SET (6 INCH)	1.00 PCS	
122	NEEDLE FILE SET	1.00 PCS	
123	FLEXIBLE CUTTING MAT	1.00 PCS	
124	DISPLAY PEG BOARD	2.00 PCS	
125	HOT GLUE GUN	4.00 PCS	
126	SOLDERING STATION	2.00 PCS	
127	ADAPTER 12V 2A	5.00 PCS	
128	ADAPTER 5V 2A	5.00 PCS	
129	ELECTRIC SCREW DRIVER	1.00 PCS	
130	SOLDERING HOLDING HANDS	2.00 PCS	
131	RETURN MEASURING TAPE	2.00 PCS	
132	STAINLESS STEEL RULE	2.00 PCS	
133	DIGITAL VERNIER	1.00 PCS	
134	SPIRIT LEVEL	1.00 PCS	
135	DIGITAL MULTIMETER	2.00 PCS	
136	ROTARY DRILL MACHINE	2.00 PCS	
137	GLUE GUN STICKS	100.00 PCS	
138	CABLE TIE 6 INCH (PACK OF 100)	2.00 PAC	
139	POLISHING ABRASIVE SAND PAPER (80-100-120-220-320)	50.00 SHT	
140	POWER EXTENSION BOARD	4.00 PCS	
141	PENDANT(HANGING) BULB HOLDER	10.00 PCS	

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142	MULTI CORE TWISTED COPPER ELECTRIC WIRE	20.00 M	
143	USB TO DC PLUG CONVERTER WIRE CABLE	5.00 PCS	
144	APOLLO FIRST AID KIT	2.00 PCS	
145	3D PRINTER KIT AND TOOLS	1.00 PCS	
146	FILAMENT 3D PRINTER(1.75MM) 1 KG COMPATIBLE 1000 GRAMS FILAMENT IN 5 DIFFERENT COLORS	5.00 PCS	
147	STEMORBIT LAB CURRICULUM SESSIONS FOR ARMY PUBLIC SCHOOL, RAMGARH CANTT	33.00 SESSION	