

## KENDRIYA VIDYALAYA NFR MALIGAON

### LIST OF CONSUMABLE AND NON-CONSUMABLE ITEM REQUIRED FOR ATAL TINKERING LAB (2ND PHASE)

S.No.	Category	Name	Type	RATE PER UNIT
1	Electronics Development	Arduino Nano	Consumable	
2	Electronics Development	RASPBERRY PI 3	Consumable	
3	Electronics Development	Linear Voltage Regulator	Consumable	
4	Electronics Development	Water Pump module-DC12V 3W Submersible Water	Consumable	
5	Electronics Development	Piezoelectric Plate-Normal Copper based 4 cm	Consumable	
6	Electronics Development	8*8 LED Matrix Module	Consumable	
7	Electronics Development	Bluetooth-HC 05 Working voltage 5 Volt	Consumable	
8	Electronics Development	7 Segment Led Display	Consumable	
9	Electronics Development	GSM	Consumable	
10	Electronics Development	GPS	Consumable	
11	Electronics Development	Laser Diode	Consumable	
12	Electronics Development	LDR Module	Consumable	
13	Electronics Development	Keypad	Consumable	
14	Electronics Development	Joy Stick	Consumable	
15A	Electronics Development	Active Buzzer-small 5 volt	Consumable	
15B	Electronics Development	Active Buzzer-big 5 volt	Consumable	
16	Electronics Development	Motor driver-L293d	Consumable	
17	Electronics Development	Sound Playback Module	Consumable	
18	Electronics Development	BO Motors With Wheel	Consumable	
19	Electronics Development	Node MCU / Wemos D1	Consumable	
20	Electronics Development	Vibrating Motor	Consumable	
21	Electronics Development	Alligator Connectors	Consumable	
22	Electronics Development	Battery clips with DC Jack	Consumable	

23	Electronics Development	RGB LEDs	Consumable	
24	Electronics Development	LEDs (Red)	Consumable	
25	Electronics Development	LEDs (Green)	Consumable	
26	Electronics Development	LEDs (Blue)	Consumable	
27	Electronics Development	Diode	Consumable	
28	Electronics Development	Push Button Switch	Consumable	
29	Electronics Development	555 timer ic	Consumable	
30	Electronics Development	Atmega16u2	Consumable	
31	Electronics Development	MPR121	Consumable	
32	Electronics Development	Capacitive Touch Switch	Consumable	
33A	Internet of Things & Sensors	MQ Series-Methane Natural Gas Sensor	Consumable	
33B	Internet of Things & Sensors	MQ Series-Alcohol - Ethanol Sensor	Consumable	
33C	Internet of Things & Sensors	MQ Series-High Sensitivity CO Carbon Monoxide	Consumable	
33D	Internet of Things & Sensors	MQ Series-2 Smoke Detection	Consumable	
33E	Internet of Things & Sensors	MQ Series-135 Air Quality Sensor	Consumable	
34	Internet of Things & Sensors	Pulse Rate Heart Sensor	Consumable	
35	Internet of Things & Sensors	Relay Module	Consumable	
36	Internet of Things & Sensors	Soil Moisture Sensor	Consumable	
37	Internet of Things & Sensors	Touch Sensor	Consumable	
38	Internet of Things & Sensors	Metal touch sensor module	Consumable	
39	Internet of Things & Sensors	Rain Drop Sensor	Consumable	
40	Internet of Things & Sensors	Flex Sensor	Consumable	
41	Internet of Things & Sensors	Temperature Sensor	Consumable	
42	Internet of Things & Sensors	Force Pressure Sensor	Consumable	
43	Internet of Things & Sensors	Color Recognition Sensor	Consumable	
44	Internet of Things & Sensors	Water Flow Sensor	Consumable	
45	Internet of Things & Sensors	Sound Sensor	Consumable	

46	Internet of Things & Sensors	IR Sensors Array for Line Following	Consumable	
47	Internet of Things & Sensors	10000 Mh 5 volt Power Bank	Consumable	
48	Robotics	150 RPM BO Motor	Consumable	
49	Robotics	L298P Motor Driver	Consumable	
50	Robotics	Servo Motor Testor	Consumable	
51	DIY Kit	Construction kit	Equipment	
52A	DIY Kit	Drone Kit	Equipment	
52B	DIY Kit	Aerospace Kit	Equipment	
52C	DIY Kit	Automobile Kit	Equipment	
52D	DIY Kit	Bio-medical Kit	Equipment	
52E	DIY Kit	Agri-tech Kit	Equipment	
52F	DIY Kit	Bio-tech Kit	Equipment	
52G	DIY Kit	Water/Sanitation Kit	Equipment	
52H	DIY Kit	STEM learning/application Kit	Equipment	

**Total**

**Package 2: Rapid Prototyping Tools**

S.No.	Category	Name	Type	RATE PER UNIT
1	Rapid Prototyping Tools	Dedicated UPS/Power back up with a 2 hour battery back up at least	Equipment	
2	Rapid Prototyping Tools	Filament for 3D printer	Consumable	
4	Rapid Prototyping Tools	Filament Storage Box	Consumable	

**Total**

**Package 3: Mechanical, Electrical and Measurement tools**

S.No.	Category	Name	Type	RATE PER UNIT
1	Mechanical Tools	Extra hacksaw blades	Consumable	
2	Mechanical Tools	Hacksaw blades Mini	Consumable	
3	Mechanical Tools	Cordless Drill	Equipment	
4	Mechanical Tools	Rubber Air Pump Cleaner Dust Blower	Equipment	
5	Mechanical Tools	Drill Bit Set-High Quality 13 Pcs HSS Drill Bits Set For for Wood, Iron, Aluminium, Plastic etc	Consumable	
6	Mechanical Tools	File set-6 Inches	Consumable	
7	Mechanical Tools	Flexible Cutting Mat-A/3 Size With Marked Pattern And Grids (18" X 12")	Equipment	

8	Mechanical Tools	Plastic Tool Box with Organizer	Equipment	
9A	Mechanical Tools	PegBoard-mount tools on wall	Equipment	
9B	Electric Tools	De-Soldering Pump, Soldering Flux (Paste) ,DE-soldering Copper Braid	Consumable	
9C	Electric Tools	(Solder Wick)	Consumable	
10	Electric Tools	Soldering Wire: 20/22 AWG soldering Wire with rosin core flux (100 Grams)	Consumable	
11	Electric Tools	Soldering Helping hand	Equipment	

**Package 4: Construction kit, Power Supply, Consumables, Accessories and Safety Equipment**

S.No.	Category	Name	Type	RATE PER UNIT
1	Power Supply & accessories	11 mm x 200mm Hot Melt Glue Stick	Consumable	
2	Power Supply & accessories	Nuts and Bolts and screw-Variou Size 20 each	Consumable	
3	Power Supply & accessories	Cable Tie-Small , Medium, Big in pack of 100 each	Consumable	
4	Power Supply & accessories	Sand Paper-Variou Grit-80 4pcs 100 4pcs 120 4pcs	Consumable	
5	Power Supply & accessories	Bulb Holders	Consumable	
6	Power Supply & accessories	Electric Wires-Twisted Red black pair	Consumable	
7	Power Supply & accessories	USB TO dc jack cable for Battery bank	Consumable	
8	Safety equipment	Safety Gloves Pairs-Latex Coating Gloves (Medium Size)	Consumable	
9	Safety equipment	Safety Mask-Filtering efficiency ranging 80 percent when tested against 0.3-micron sodium chloride particle	Consumable	

**Total**