


<b>Requirement of Raw material for Electronics workshop and Electronics Department</b>		
<b>S.NO</b>	<b>NAME OF ITEM</b>	<b>SPECIFICATION</b>
1	Soldering iron	25 Watt
2	Soldering Flux	–
3	Soldering wire	–
4	Zero PCB	10 x 7.5 cms
5	Single side PCB	10 x 7.5 cms
6	Ferric chloride (PCB Etching agent)	500gms
7	LED( red, white, green)	RGB
		blue
		red
		white
		green
8	PN junction diode	
9	Zener diode	12V
10	NPN transistor	
11	PNP transistor	
12	NMOS	
13	PMOS	
14	CMOS	
15	SCR	
16	DIAC	
17	TRIAC	
18	UJT	
19	RESISTANCE	100 ohm
		470 ohm
		1 kohm
		3.3 kohm
		10 kohm
		22 kohm
		470 kohm
		100 kohm
1 megaohm		
20	Different value inductors	
21	Electrolytic capacitors	10 pf
		22pf
		100 pf
		1 nf
		10 nf
		100 nf
		1μF,
		10μF,
		100μF,
		1000μF
22	Thermistor	10 k ohm NTC
23	LDR	
24	Screw driver set	with precision magnetic bits
25	Electricity Tester	

26	Wire cutter and Stripper	
27	Pliers	Nose and plain
28	Arduino Uno or equivalent	ATmega328P - 8 bit AVR family microcontroller, Case shell enclosure, compatible USB cable (length - 6 inch or more)
29	Raspberry Pi 3 Model B+	RASPBERRY PI 3 MODEL B+, Accessories - MicroSD card - 32 GB, USB 3.0 cable (1 meter), HDMI to VGA - 1 meter, HDMI to VGA adapter, Case shell enclosure
30	Rechargeable Battery	9-12V 2000 to 2500 mAh rechargeable battery with 2 chargers.
31	8*8 LED Matrix Module	Max7219 Dot LED Matrix Module. MCU Control LED Display Module
32	Bluetooth module	HC 05 Bluetooth module
33	Motor driver Module	L293D
34	DC Plastic Gear motor with wheel	12V, 150RPM, Side Shaft BO (Battery operation) Motor
35	Alligator Connectors	Multi-Colour Alligator Connectors
36	Hook-up Wires	Red & Black set 100 Meters each
37	Jumper Cable	Male-Male
		Male-Female
		Female-Female
38	Button Switch Set	Push, toggle, slide switch
39	Humidity Sensor	20 – 95 % RH
40	Ultrasonic Sensor Module	HC-SR-04 or compatible
41	Relay Module	5V 10A - 2 Channel Relay Module. Compatible with Arduino.
		5V 10A - 1 Channel Relay Module. Compatible with Arduino.
42	Temperature Sensor	LM35 Full range temperature sensor. Voltage Range: 4V to 30V. Error: $\pm 0.5^{\circ}\text{C}$
43	Stepper motor with Driver board	28BYJ-48 ULN2003 5V Stepper Motor + ULN2003 Driver Board
44	DC motor	12V DC Gear 150 RPM
45	Servo motors	Position Servo Angle based Metal Gear
		Continuous Metal Gear Servo 360
		Small Servo Plastic Gear
<b>TOTAL</b>		

  
 19.7.2022  
 (गोविन्द बल्लभ)