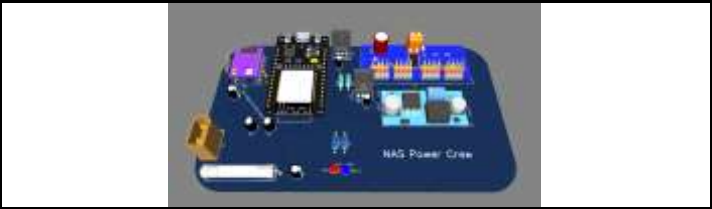


Bill of Materials

Assembly Name	Gesture Controlled Robotic Arm
Assembly Number	1
Assembly Revision	1.1
Date of Approval	
Total Piece	62
Total Cost	6502

S.NO	Part Name	Assemblies & Subassemblies	Part Description	Unit Cost	Quantity	Total Cost	Procurement Details
1	LM7805CT	Power Drive	5V regulator	₹ 15.00	4	₹ 60.00	
2	AMS1117-3.3	Gesture Control	3.3V regulator	₹ 25.00	2	₹ 50.00	
3	ESP-32-WROOM	Power Drive and Gesture Control	MCU	₹ 500.00	2	₹ 1,000.00	
4	MPU-6050	Gesture Control	Gyroscope and accel	₹ 200.00	2	₹ 400.00	
5	TTP223	Gesture Control	Touch Sensor	₹ 20.00	1	₹ 20.00	
6	DRV8825	Power Drive	Stepper Motor Driver	₹ 300.00	1	₹ 300.00	
7	FLEX SENSOR 4.5" LENGTH	Gesture Control	Flex Sensors	₹ 450.00	4	₹ 1,800.00	
8	10k ohm resistor	Gesture Control	resistor	₹ 1.00	10	₹ 10.00	
9	100uf	Power Drive	capacitors	₹ 2.00	4	₹ 8.00	
10	220nf	Power Drive	capacitors	₹ 2.00	4	₹ 8.00	
11	100nf	Power Drive and Gesture Control	capacitors	₹ 1.00	4	₹ 4.00	
12	22uf	Gesture Control	capacitors	₹ 2.00	4	₹ 8.00	
13	10uf	Gesture Control	capacitors	₹ 2.00	5	₹ 10.00	
14	2.4k res	Power Drive	resistor	₹ 1.00	4	₹ 4.00	
15	LM2596S-5.0/NOPB	Power Drive	Buck Converter	₹ 75.00	1	₹ 75.00	
16	PCA9685	Power Drive	Servo Driver	₹ 450.00	1	₹ 450.00	
17	NEMA 17	Power Drive	Stepper Motor	₹ 600.00	1	₹ 600.00	
18	12V PSU	Power Drive	Power Supply	₹ 868.00	1	₹ 868.00	
19	3 Pin Cord	Power Drive	Power Supply wire	₹ 90.00	1	₹ 90.00	
20	Connectors	Power Drive and Gesture Control	Connectors for PCB	₹ 50.00	1	₹ 50.00	
21	Pin Headers	Power Drive and Gesture Control	Pin Headers for PCB	₹ 20.00	2	₹ 40.00	
22	Fuse and Fuse holder	Power Drive	Fuse	₹ 27.00	1	₹ 27.00	
23	MG995	Power Driver	Servo	₹ 310.00	2	₹ 620.00	



Total =	₹ 6,502.00
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