S. No.:	Components:	Quantity:	Price per piece:	Price:	Jusification
					Connects the
	Female 2.1*5.5mm for DC Power Jack Adapter Connector Plug For				battery to the
1	CCTV Camera	1	46	50	power circuit.
					Main control
					board for
					programming and
					executing
2	Arduino Uno R3 with Cable	1	500	500	commands.
					High torque for
	Pro-Range OT5330M 7.4V 35.5kg.cm 180° Metal Gear Digital Servo				precise arm
3	Motor	3	1800	5400	movements.
					Used for less
	TowerPro MG995 Metal Gear Servo Motor (180° Rotation)-Good				intensive
4	Quality	2	309	618	
					Used for turning
	JK42HS48-1684-01 NEMA17 4.4 kg-cm Stepper Motor – Round Type				of turb table
5	Shaft	1	550	550	(robot base)
					Expands control
	16-Channel 12-bit PWM/Servo Driver I2C interface PCA9685 for				of multiple servos
6	Arduino Raspberry Pi	1	250	250	· ·
					Used for the
	A4988 Stepper Motor Driver Module with Heat Sink For 3D Printer				control of stepper
7	(Red)	1	101	101	motors
					Used for the
					smooth
	ART IFACT 100 Pieces of 10mm Silver Bearing Ball - Use is Cycle Ball				movement of
8	Bearing Wheel Bearing	1	300	300	robot base
					Connects
					electrical
	Jumper wires (Dupont Cable Male/Male, Male/Female, Female/Female				components
9	Cable Combo)	2	120	240	within circuits.

					Temporary
					platform for
10	Solderless 400 pin breadboard – Normal Quality – Without Packing	1	37	37	circuit assembly.
					Adjusts power
11	XL6019 DC-DC 5A Adjustable Boost Power Supply Module	2	200	400	levels as needed.
					Allows smooth
					arm movement by
12	6200ZZ Bearing 10x30x9 Shielded Miniature Ball Bearings (4pcs)	2	160	320	reducing friction.
					Used for stable
					voltage supply in
13	100uF 50V Aluminum Electrolytic Surface Mount Capacitor -(pack of 5)	1	60	60	circuits.
					Complements
					reed switches for
14	Reed Switches Module	4	60	240	better detection.
					Interacts with
					reed switches for
					movement
15	Neodymium Magnet	1	300	300	detection.
					Provides manual
					control or reset
16	Tactile Push Button Switch 6x6x5 (Pack of 10)	8	20	160	<u>'</u>
					Regulates current
17	10k Ohm 0.5W Metal Film Resistor (Pack of 50)	2	50	100	
					Expands
					input/output pins
					for added
18	74HC165 8-Bit Parallel In/Serial Out Shift Register IC	9	30	270	functionalities.
				9896	