Category	Name	Specification	Qty	Type	Rate	Image	
		ATmega328P-8 bit AVR family microcontroller, equivalent or better					
		Operating Voltage:5V					
Electronics Development	Arduino Uno or equivalent	DigitalI/O Pins:14 (of which 6 prvide PWM output)	30	Consumable	650		19500
		PWM Digital I/O Pins:6					
		Accessories: Case					

		Shell enclosure, Compatilble USB cable (length-6inch or more)					
		ATmega328P-8 bit AVR family microcontroller, equivalent or better.					
		Operating Voltage: 5V					
Electronics Development	Arduino Nano or equivalent	DigitalI/O Pins:14 (of which 6 prvide PWM output)	10	Consumable	225		2250
		Analog Input Pins:8					

		Accessories: Compatilble USB cable (length-6inch or more)					
		ATmega2560P-8 bit AVR family microcontroller, equivalent or better.					
Electronics Development	Arduino Mega or equivalent	Operating Voltage: 5V	10	Consumable	1550		15500
		DigitalI/O Pins:14 (of which 6 prvide PWM					
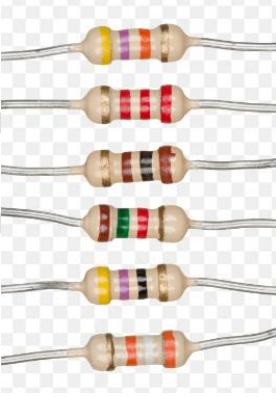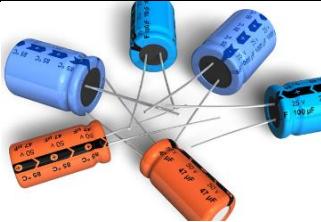
		output)					
		Analog Input Pins:8					
		Accessories: Case Shell enclosure, Compatilble USB cable (length-6inch or more)					
Electronics Development	Rasberry Pi3 Model B+	RASPBERRY PI4 MODEL B+, equivalent or Better	5		7559		37795
		Accessories- Micro SD card-32 GB, USB 3.0 cable (1 meter), HDMI		Consumable			
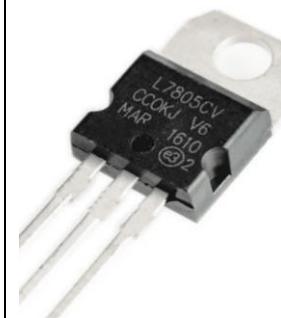
		to VGA adapter case shell enclosure					
Electrnoics Development	Breadboards & Mini Breadboard	Solderless 400 pin Breadboard	30	Consumable	37		1110
		Solderless 800 pin Breadboard	20		52		520
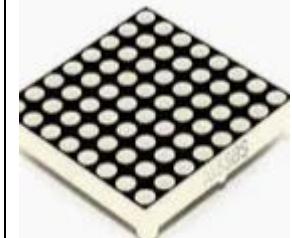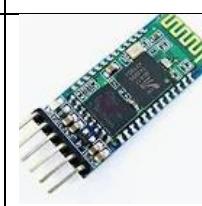
		Self-Adhesive Proto Shield	20		20		440
	General Purpose Solderable Board	FR2A Grade Material (140X90mm)	30	Consumable	30		900
		FR2A Grade Material (80X55mm)	30		25		750
Elctronics Development	Berg Strips	Female Berg Strip, 2.54mm Pitch, 40 pin single row, breakable pin	30	Consumable	20		600
		Male Berg strip 2.54mm Pitch, 40 pin single row, breakable	30	Consumable	15		450

|		pin					
Electronics Development	16X2 LCD display	Dot matrix LCD display. 16 characters X 2 lines,12C	20	Consumable	200		4000
Electronics Development	USB Cables	USB Cable Set (A to B, 12 inch or more)	10	Comsumable	45		450
Electronics Development	USB Cables	USB Cable Set (Mini,12 inch or more)	10	Comsumable	45		450
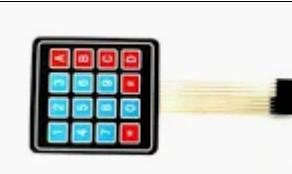
Electronics Development	Battery	9-12V 2000 to 2500 mAh rechargeable battery with 2 chargers. Equivalent or better	10	Consumable	799		7990
		One kit contains-30 carbon film resistors of 20 different resistance values each assorted, packaged together and labelled					
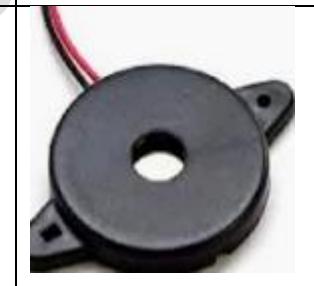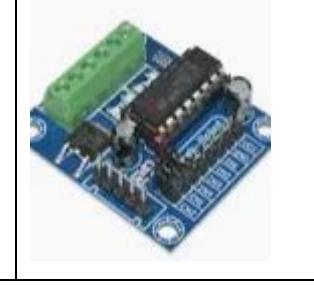
Electronics Development ent	Resistor Kit	Wattage: 0.125W to 1W	20*30 = 600	Consuma ble	2.50		1500
		Values:00,1.5Ω,4.7Ω, 100Ω,47Ω,100Ω,20Ω, 33Ω,470Ω,680Ω,1kΩ, 2.2kΩ,3.3kΩ,4.7kΩ,1 0kΩ,22kΩ,47kΩ,100k Ω,330kΩ,1MΩ.					
		One Kit contains -20 electrolytic capcitors of 10 different capacitance values	20*10 = 200		9		1800

		each.					
Electronics Development	Capacitor Kit	Assorted Kit Packaged together and labelled		Consumable			
		Values: 10pF,22 pF,100 pF,10 nF,10nF,100nF,1pF,10 pF,100 pF1000 pF					
Electronics Development	Linear Voltage Regulator	7805,7812,7809	30	Consumable	25		750
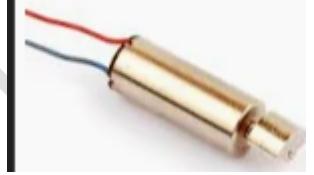
Electronics Development	Water Pump Module	DC12V 3W Submersible Water Pump	20	Consumable	99		1980
Electronics Development	Piezoelectric Plate	Normal Copper based 4cm Diameter approx	30	Consumable	94		2820
Electronics Development	8*8 LED Matrix Module	Max7219 Dot LED Matrix Module MCU Control LED Display Module	10	Consumable	125		1250
Electronics Development	Bluetooth module	HC 05 Bluetooth module	15	Consumable	513		7695
		Voltage Rating: 5V					

Electronics Development	7 Segment Led Display	Led 4-Digit Display Module Voltage Rating:2.4V to 5.5V 4-Pin interface Vcc, Gnd, Data Clock	20	Comsumable	96		1920
Electronics Development	GSM	Sim900 Gprs Transfer Board Micro Sim Gsm Core TTL Port Module for Arduino	4	Consumable	450		1800
Electronics Development	GPS	GY-NEO6MV2 new GPS module	4	Consumable	399		1596
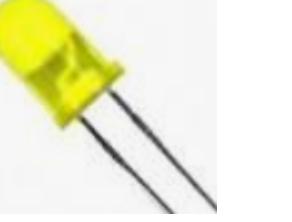
Electronics Development	Laser Diode Emitter	650 nm 5m W Mini Laser Dot Diode Module	10	Consumable	72		720
Electronics Development	LDR Module	5mm/12mm, Photosensitive LDR Light Sensor Module	40	Consumable	50		2000
Electronics Development	Kypad	Universal 16 key Switch Keypad	10	Consumable	72		720
Electronics Development	Joystick	2-axis joystick with push button function	10	Consumable	64		640
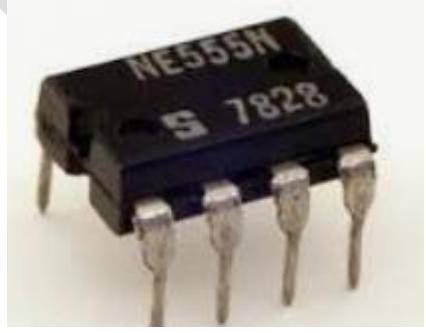
Electronics Development	Active Buzzer	Small 5 Volt	40	Consumable	25		1000
		Big 5 Volt	40	Consumable	65		2600
Electronics Development	Motor Driver Module	L293D	10	Consumable	99		990

Electronics Development	Sound Playback Module	ISD1820 voice recording module or equivalent	10	Consumable	312		3120
Electronics Development	DC Plastic Gear motor with wheel	12V, 150RPM, side Shaft BO (Battery operaion) Motor	40	Consumable	82		3280
Electronics Development	Node MCU	ESP 8266 12C, 1 wire, plug and play	6	Consumable	425		2550
Electronics	WEMos D1 R2	WeMos D1 R2 with WiFi ESP 8266	6	Consumable	325		1950

Development ent		Operating Voltage:5V					
Electronics Development ent	Vibrating Motor	Weight:10 Grams Operaing Voltage:1.5 to 3V	20	Consumabe	99		1980
Electronics Development ent	Alligator Connectors	Multi-Colour Alligator Connector-12Inch	200	Consumable	22		4400
Electronics Development ent	Battery Clips with DC Jack	9-volt battery clips with DC Jack	40	Consumable	33		1320
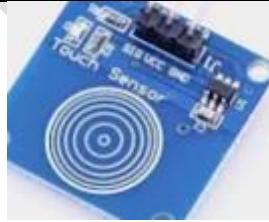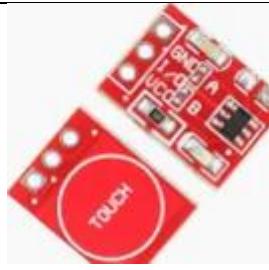
Electronics Development	Hook-up Wires	Red & Black Set 100 Meters each	4	Consumable	750		3000
Electronics Development	Jumper Cable	Male-Male Male-Female Fmale-Female	1000 600 400	Consumable	5/pic		5000 3000 2000
Electronics Development	RGB LEDs	REgular 5mm 3-5 volt Range	400	Consumable	5		2000

Electronics Development	LEDs (Red)	Regular 5mm 3-5 volt Range	1000	Consumable	2		2000
Electronics Development	LEDs (Green)	Regular 5mm 3-5volt Range	1000	Consumable	2		2000
Electronics Development	LEDs (Blue)	Regular 5mm 3-5volt Range	1000	Consumable	2		2000
Electronics Development	LEDs (Yellow)	Regular 5mm 3-5volt Range	1000	Consumable	2		2000

Electronics Development	LEDs (White)	Regular 5mm 3-5volt Range	1000	Consumable	2		2000
Electronics Development	Timer IC-LM 555	LM 555 Timer IC. Voltage range-4.5V o 16V	30	Consumable	25		750
Electronics Development	Atmega16u2	8 bit microcontroller Individual IC (DIP)					

		Voltage range:2.7V to 5.5V	10	Consumable	245		2450
		Operational Range: 40C to +80C					
		One kit Contains-25 Assorted Basic Dioded of 4 different types each					
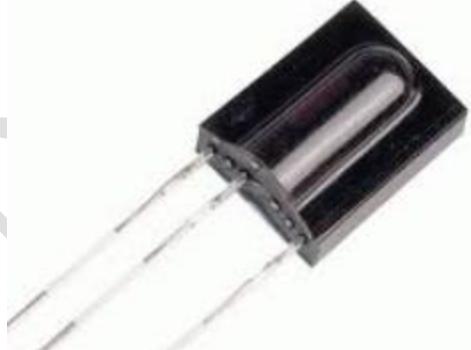
Electronics Development	Diodes and Transistor kit	Types: NPN Transistor-2N3904,BC547 PNP Transistor-2N3906,BC557 Silicon Diode-1N4004/4001	3	Consumable (25*4*3 = 300)	5		1500
		Equivalent or better					
		Wattage: 1W, Current ratting 1A					
		Assorted kit Packaged together and labelled					
Electronics Development	Button Switch Set	One kit Contains-100 Buttons of different types	3	Consumable	18		3600
		Types: Push, toggl,					

		rotary,selector and slide switch.					
		Assorted kit packaged together and labelled					
Electronics Development	Capacitative touch Module	MPR 121 with 12C Voltage Range: 2.5V to 3.6V DC	20	Consumable	43		860
Electronics Development	Capacitative touch Module	Digital Capacitive touch switch module-TTP223B	10	Consumable	43		430
		Voltage Range: 2V to 5V DC					

Internet of Things & Sensors	IR Sensors, Obstacle avoider sensor Module	LM939 Detection distance: 2-30cm Detection angle:30-40	20	Consumable	52		1040
Internet of Things & Sensors	Trpile Axis Magnetometer	3-Axis Magneto resistive Sensors	10	Consumable	315		3150
		12C Digital Interface					
		Integrated 12-bit ADC					
		Range of -8 to +8 Gauss					
		160 Hz Maximum o/p rate					

Internet of Things & Sensors	Humidity Sensor	Operating range: 20-95%RH Temperature: 0-60 Celsius Power supply: 1.5V AC (Max sine) 500Hz- 2kHz	10	Consumable	91		910
		MQ-2 Smoke Detection	3		165		495
		MQ-3 Alcohol-Ethanol Sensor	3		165		495
		MQ-4 Methane Natural Gas Sensor	3		165		495
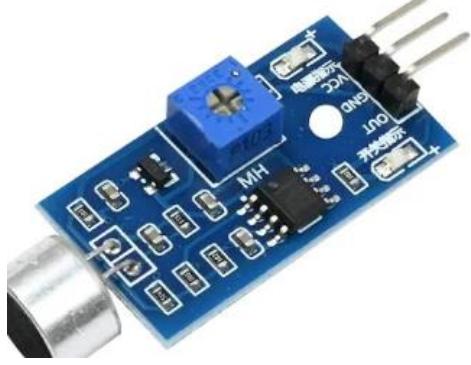
Internet of Things & Sensors	MQ Series	MQ-6 Liquified Petroleum Gas Sensor	3	Consumable	135		405
		MQ-7 High Sensitivity CO Carbon Monoxide Sensor Detector	3	Consumable	165		495
		MQ-8 Hydrogen Gas Sensor	3		165		495
		MQ-135 Air Quality Sensor	3		165		485
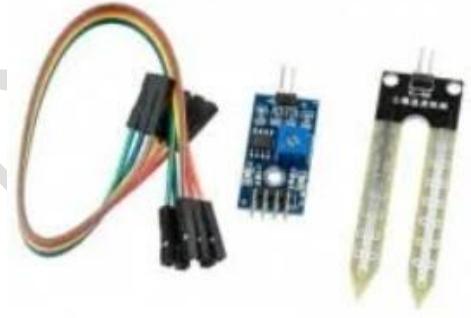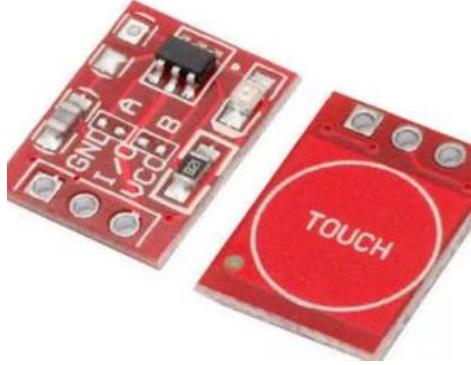
Internet of Things & Sensors	IR Transmitter/reciver	TSOP1738 Switching rate: 38KHz Voltage Rating:5V	10	Consumable	35		350
Internet of Things & Sensors	Ultrasonic Sensor Module HC-SR-04 or compatible	Working Voltage-DC5V Working current-15mA Working frequency-40Hz Range-1cm to 4m Effectual Angle-<15* Measuring Angle-30* Resolution-0.3cm	40	Consumable	98		3920
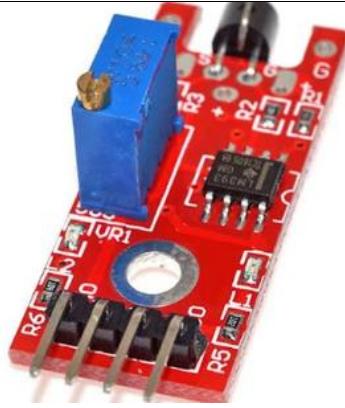
Internet of Things & Sensors	Triple Axix accelero meter	3-axix sensing Small,low profile package 4mm X 4mm X 1.45mm LFCSP	10	Consuma ble	195		1950
		Low Power:350pA (typical)					
		Single-supply operation:1.8V to 3.6V					
		Temperature Stability					
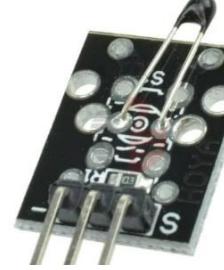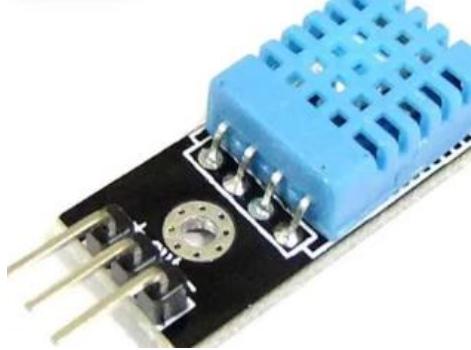
Internet of Things & Sensors	PIR Motion Detector Module	High digital Pulse When motion Detected	20	Consumable	113		2260
		Low digital pulse when idle/no motion detected					
		Sensitivity range (up to 6m)					
		Power supply:5V-12V					
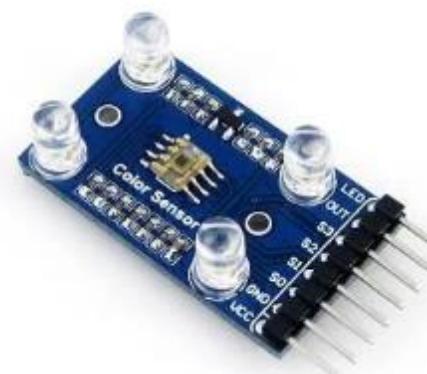
Internet of Things & Sensors	Pulse Rate Heart Sensor	Pulse Rate Sensor Finger Based (Finger or earlobe) Working voltage 3.5V	4	Consumable	412		1636
Internet of Things & Sensors	Relay Module	5V 10A-2 Channel Relay Module Compatible with Arduino	20	Consumable	96		1920

Internet of Things & Sensors	Relay Module	5V 10A-2 Channel Relay Module Compatible with Arduino	20	Consumable	96		1920
Internet of Things & Sensors	Big Sound microphone module	Large electret capsule sound module	10	consumable	98		980

| Internet of Things & Sensors | Soil Moisture Sensor module | FC-28 with LM293 comparator Operating Voltage: 3.3V to 5V | 6 | Consumable | 198 | | 1188 |
| Internet of Things & Sensors | Touch Sensor | Capacitive touch Sensor Module TTP22X series. Voltage'Range: 2.4V to 5.5V | 6 | Consumable | 85 | | 510 |

Internet of Things & Sensors	Metal Touch Sensor Module	KY-036 or equivalent metal touch sensor module	6	consumable	85		510
Internet of Things & Sensors	Rain Drop Sensor	Rain Sensitive, Rain Drop Detection Sensor Module Voltage Range: 3.3V to 5.5V	6	consumable	85		510
		Size: 5mm X 40mm or equivalent					

Internet of Things & Sensors	Flex Sensor	Flx Sensor. Size-202 Inches	6	Consumable	450		2700
Internet of Things & Sensors	Tempreature sensor	LM35 Full range temperature sensor. voltag Range: 4v to 30V Error:-*0.5*C	6	Consumable	56		336
Internet of Things & Sensors	Temperature and humidity sensor module	DHT11	40	Consumable	72		2880
		Voltage Range: 3V to					

		5V					
Internet of Things & Sensors	Force Pressure sensor	Force sentitive resistor with a Square, 1.75 X1.5" sensing area	4	consumable	2200		8800
Internet of Things & Sensors	colour Recognit ion Sensor	TCS3200 colour Recognition Sensor	4	Consuma ble	1100		4400

Internet of Things & Sensors	Water flow Sensor	Arduino Compatible water flow Sensor 5V DC Input	4	Consuma ble	350		1400
Internet of Things & Sensors	Sound Sensor	Sound Sensor Moduke Microphones module	10	Consuma ble	98		980
Internet of Things & Sensors	IR Sensors Array moduke for line	8IR Sensors Array module for Line following	10	Consuma ble	52		520

		following						
		Operating Voltage:5V						
Internet of Things & Sensors	Power Bank	10000mAh 5-volt Power Bank	5	Consumable	1250			5250
Internet of Things & Sensors	RFID REader-Tags	Current:13-26mA/Dc 3.3V						
		Idle Current : 10-13mA						
		Sleep Current <80uA						
		Peak Current <30mA						
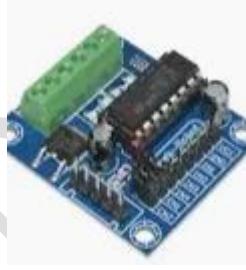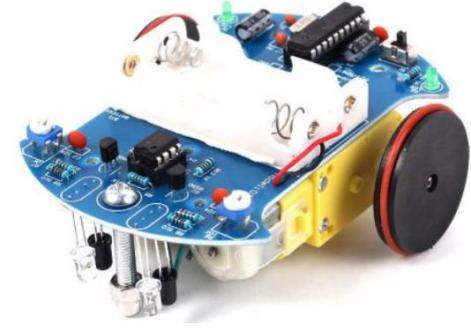
		Operating Frequency: 13.56MHz<30mA	10	Consumable	350		3500
		Read range between 20 cm to 1m					
Internet of Things & Sensors	RF modules Tx & Rx 315 MHz ASK	Frequency Range:m433.92/315 MHz					
		Supply Voltage: 3-6V					

		Output: 4-16 Dbm	10	Consumable	410		4100
		Low power consumption					
		Easy application					
Robotics	Stepper motor with Driver board	28BYJ-48 ULN2003 5V stepper Motor+ ULN2003 Driver Board	10	Consumable	325		3250
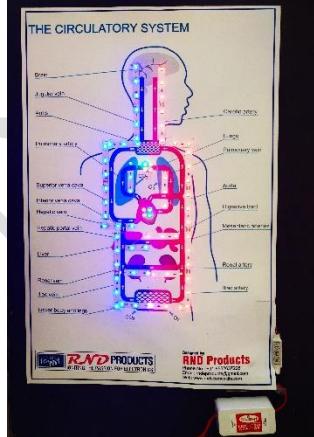
Robotics	DC motor	12V DC Gear 150RPM	20	Consumable			
Robotics	Servo motors	Position Servo ANGLE BASED Metal Gear	10	Consumable	425		4250
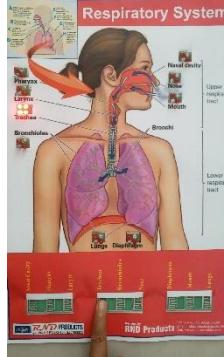
		Small Servo Metal Gear	10		425		4250
		Continuous Metal Gear Servo 360	10		425		4250
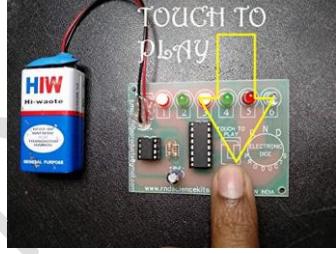
		Small Servo Plastic Gear	40		135		5400
Robotics	150RPM B8 Motor	150RPM BO Motor	10	Consuma ble	62		620

Robotics	L298P Motor Driver	L298P Motor Driver Shied or relative Driver Shield	10	consumable	99		990
Robotics	Servo Motor Tester	CCPM 3 Channel Servo Testor	4	consumable	325		1300
DIY Kit	Robotics DIY Kit	Robotics DIY kit with programmable intellogent brain/brick	3	Equipment	650		1950

DIY Kit	Mechanical (Modular) Construction kit	Metal/Plastic mechanical construction kit compatible with electonic equipment	30	Equipment	4550		136500
	Drone kit		1		22890		22890

	Bio-Medical Kit		1		3500		3500
STEM Learning/ APplication Kit	Agri-Tech Kit		5		2200		11000

	Water/Sanitation Kit	Educational Purpose	2	Equipment	1499		2998
	Bio tech kit		1		2200		2200

	Other Potential STEM Application Kit		1		650		650
Rapid Prototyping Tools	3D Printer Kit and tools	Printer Type: FDM (Fused Deposition Modelling), Minium Dimensions: 160mm *160mm *160mm Build Size or 4 litre Build Volume, Nozzle: 0.3mm to 0.4mm nozzle diameter, slicing software should be free or Open source, LCD	1	Equipme nt	89456		89456

		Screen UI that display print metrics, Good Heated Print bed. Material Compatibility –PLA, ABS, and derivatives of PLA, Ninjaflex Quality Antibacteria/fungal Cover. Repair kit- with spare springs, screws, keys, Tweezers, etc.					

Rapid prototyping tools	Dedicated UPS/Power back up	Dedicated UPS/Power Back up with 2-hour battery backup	3	Equipment	6532		19596
Rapid prototyping tools	Filament for 3D printer1	Compatible 1000 Grams Filament in 5 different colours	5	Consumable	8500		8500

Rapid prototyping tools	Filament Storage Box	Compatible Filament storage box	5	Consumable	23000		23000
PC for programming with table , chair – complete set up	Programming	Specification : i5 – 8GB – 125GB - SSD-500GB, Screen 28", 2 Wheel Chair, 1 Table (Imaginary Image)	5	Equipment	88998		444990

Robotics Poste	Display	3*5 feet with frame	5	Display	6999		34995
Room coloring and lighting	Display	100 sq.foot, Asian plastic paint, Designing, Lightings	1	Display	300000		300000
Total Cost **excluding GST(18%)**							**13,65196**
Transportation and personal attention including 3 visits and setup							**150000**
Miscellaneous: Component box, 2 Soldering station with solder, 4 Multimeter, Extension box, 2 closed , other tools							**150000**