**The components we need for our project are,**

* LEDS (RGB)
* IR LEDS
* Usb camera
* Motors 4
* Gear for motors 4
* Wheels
* Arduino uno
* Raspberry pie 3
* Proximity sensor
* Chassis
* Ultrasonic sensor
* wire
* batteries
* speaker
* resistors
* diodes
* transistors
* capacitors
* potentiometer
* laser
* motor driver
* op amps
* switches
* screws, motor holder etc.

**Components found online**

* HC-SR04 Ultrasonic Distance Sensor (5.02 tl)
* Arduino UNO R3 Clone - With USB Cable - (USB Chip CH340) (15.06 tl)
* Raspberry Pi 3 (138 tl)
* 12-40V 10A Motor Driver Board (400W) (25tl)
* Grove Sound Sensor (23tl)
* BD243C - 6A 115V NPN - TO220 Transistor (0.8 tl)
* 1N5819 Diode (0.5 tl)
* 5 cap (1 tl)
* 10 resistors (0.2tl)
* RGB led (2 tl)
* Led colored 10 (2 tl)
* 3W Power LED Module w/driver (15 tl)
* Potentiometer (0.5tl)
* On off button (2tl)
* 12V 16mm 1500Rpm Gearbox Motor (31 tl)
* Platforma Multi Purpose Mobile Robot Platform – Green (58 tl)
* Motor brackets (20 tl)
* Wheel hub (20-40 tl)
* Rover wheel (30tl)
* Jumper cables 40 pin (4tl)
* Solar cell (20 tl)
* Inductive NPN Proximity Sensor LJ12A3-4-Z / BX (18tl)
* Battery (60tl)
* Speaker (6tl)
* Raspberry Pi Kamera V2 (150 tl)
* Raspberry Pi Adjustable Focusing Camera Module (70 tl)
* Sound sensor 11 tl

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**Tentative cost-budget analysis:**

Our company aims to provide a cost effective end product. A product that can complete the objectives exactly and efficiently and is also within the required budget range which is $200. Our company plans to use microcontrollers, sensors, geared motors and other necessary equipment for the project. The tentative total cost mentioned, is the minimum cost for the project and is also subject to change, if a different component is used.

**Total cost: 533 TL ($141)**

The main equipment that will be used along with their prices are as follows,

12-40V 10A Motor Driver Board (25 TL)

12V 16mm 1500Rpm Gearbox Motor (31 TL \*2 =62 TL)

Raspberry Pi Adjustable Focusing Camera Module (70 TL)

Arduino UNO R3 Clone - With USB Cable - (USB Chip CH340) (16 TL)

Raspberry Pi 3 (138 TL)

Ultrasonic Distance Sensor (5 TL)

Speaker (6 TL)

Sound sensor (11 TL)

Battery (60 TL)

Chassis (60 TL)

Other stuff like resistors, transistors, LEDs, capacitors, wires etc. (80 TL)