Estimated Cost Breakdown:

Component/Activity	Cost (MMK)
Robotics Hardware	
Arduino® Nano ESP32 with headers (3 pcs)	369,000
IR Infrared Obstacle Avoidance Sensor Module (3 pcs)	4,500
YS17 Flame sensor smart car (5mm) (1 pcs)	230
DS18B20 Water-Proof Temperature Sensor (1 pcs)	5,600
DC 3V-6V Motor For Robot Car Chassis Kit (10 pcs)	20,000
ZY-204 Breadboard (1660 Points) (3 pcs)	51,900
Water Quality Sensor Module (TDS Meter v1.0) (1 pcs)	220,000
Analog CO2 Gas Sensor (MG-811 Sensor) (1 pcs)	195,600
I2C Ozone Sensor (0-10ppm) (1 pcs)	196,000
Analog pH Sensor / Meter Pro Kit For Arduino (1 pcs)	227,600
Grove - Temperature & Humidity Sensor Pro (1 pcs)	32,000
Analog Capacitive Soil Moisture Sensor - Corrosion Resistant (1 pcs)	22,400
USD Products (Converted to MMK)	
Gravity: I2C Oxygen Sensor (1 pcs)	220,000
Gravity: Analog CO2 Gas Sensor (1 pcs)	195,600
Gravity: I2C Ozone Sensor (1 pcs)	196,000
Gravity: Analog pH Sensor (1 pcs)	227,600
Grove - Temperature & Humidity Sensor Pro (1 pcs)	32,000
Gravity: Analog Capacitive Soil Moisture Sensor (1 pcs)	22,400
TFMini Plus - Micro LiDAR Module UART (12m) (1 pcs)	**319,000**
Development Tools and Software	
Total Estimated Cost	**2,108,530**

Note: Estimated costs are calculated using provided USD prices and a conversion rate of 4000 MMK per 1 USD.

3D Printer Purchase: We propose acquiring a 3D printer to aid in development and prototyping.