**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.