Cost of each hardware component

| **Component** | **Quantity** | **Unit Price EGP** | **Supplier** | **Total (EGP)** |
| --- | --- | --- | --- | --- |
| Microcontroller (ESP32) | 1 | 385 | Circuits Electonics | 385 |
| pH Sensor | 1 | 1.6k | Circuits Electonics | 1.6k |
| pH Buffer solution | 1 | 250 | Amazon | 250 |
| Water Temperature Sensor | 1 | 165 | Circuits Electonics | 165 |
| Water Level Sensor | 1 | 450 | Circuits Electonics | 450 |
| Logic Level Converter | 1 | 45 | Circuits Electonics | 45 |
| TDS Sensor | 1 | 850 | Circuits Electonics | 850 |
| Miscellaneous (wires, connectors, enclosure) | 1 | 440 | Circuits Electonics | 440 |
| Solenoid valve | 2 | 250 | Circuits Electonics | 500 |
| 2 Relay Module | 1 | 75 | Circuits Electonics | 75 |
| Power Adapter (5V & 12V) | 2 | 90 | Circuits Electonics | 180 |
| PCB Board | 1 | 1700 | Circuits Electonics | 1700 |
| LED | 1 | 950 | Amazon | 950 |
| LCD Display via l2C | 1 | 170 | Circuits Electonics | 170 |
| Housing Box | 1 | 400 | Local | 400 |
| PVC vertical pipe with 40 net pots and water pump | 1 | 5k | Amazon | 5k |

**Total Price: EGP 13,160**