

List of Components

Component	Purpose	Qty	Cost (₹)
ESP32 Wi-Fi + Bluetooth	IoT microcontroller	1	350
Soil Moisture Sensor (Capacitive)	Detects soil moisture	2	300
DHT11 Sensor	Temperature & humidity	1	80
Rain Sensor	Rain detection auto-cut	1	70
16x2 LCD + I2C	Display readings	1	120
Mini Water Pump / Solenoid Valve	Water supply control	1	400
2-Channel Relay	Switching pump safely	1	120
Solar Panel 10-20W	Renewable power	1	800–1200
Li-ion Battery Pack	Backup power	1	450
TP4056 Charger	Battery charging protection	1	60
Voltage Regulator	Stable power	1	80
PVC Project Box	Weather protection	1	200
Jumper wires, PCB, connectors	Wiring	—	150
SIM800L GSM module	SMS alerts	1	550
Flow meter	Water usage graphing	1	350