**INNOVATION FOR ENVIRONMENTAL MONITORING USING IOT**

Innovative idea for environmental monitoring using IoT (Internet of Things) . Solar-powered sensors that can continuously monitor air and water quality in targeted place.

Air Quality: Sensors could measure levels of pollutants like PM2.5, PM10, carbon monoxide (CO), nitrogen dioxide (NO2), and ozone (O3). They could also monitor temperature and humidity.

Water Quality: Sensors placed in bodies of water or sewage systems could monitor parameters like pH, turbidity, dissolved oxygen levels, and the presence of specific contaminants like heavy metals or organic pollutants.

Noise Pollution: IoT-enabled noise sensors could monitor noise levels in real-time, helping identify noise pollution hotspots.

Soil Quality: Sensors in the ground could monitor soil moisture, temperature, and nutrient levels, providing data for precision agriculture and environmental conservation efforts.

Wildlife Tracking: IoT-enabled tracking devices could be attached to wildlife, allowing researchers to collect data on animal behavior, migration patterns, and habitat use.

All of these sensors would transmit data to a central server and transmit to the cloud platform via IoT connectivity. This data could then be analyzed in real-time response to environmental issues, early detection of pollution events, and better government schemes to implement. Additionally, making these sensors low-cost and solar-powered would ensure renewable and making cities cleaner and healthier places to live.