# G2-RAIN System

A rain alert system shall be provided to monitor the rainfall conditions in (*Specify Location*).

The rain alert system shall measure and transmit interval rain, rain intensity, and total rain (calculated) with 5-minute to 24-hour rain interval.

The rain alert system shall have an integrated 8” tipping bucket rain gauge and machined aluminum construction with white powder coat finish.

The rain alert system shall have embedded 4G cellular connectivity for real-time data transmission.

The rain alert system shall be designed to be quickly and easily deployed without the need to write programs or scripts.

The rain alert system shall be capable of measuring diagnostic parameters including input power, RTC power, cell module current, internal temperature, internal humidity, signal strength & signal status.

The rain alert system shall be supplied with a user-replaceable D-cell lithium (Thionyl Chloride) battery pack for 1-3 years of battery life.

The rain alert system shall support external 12VDC power supplies including a 10-watt solar power pack with integrated 6 A-Hr battery & solar regulator for autonomous power.

The rain alert system shall include 2” female NPT threads for mounting to a 2” diameter pole with mating male NPT threads.

The rain alert system transmitter shall be packaged in an aluminum body with white powder coat finish not to exceed 5.4” diameter x 4.0” height.

The rain alert system shall interface with WQData LIVE web datacenter for real-time data storage and viewing.

The rain alert system shall interface with WQData LIVE web datacenter for receiving remote configuration commands for logging and instrument setup.

The rain alert system shall be able to utilize WQData LIVE web-based email alerts triggered based on parameter limits.

The rain alert system shall be capable of updating its internal software to newer versions over the cellular network using WQData LIVE.

The rain alert system shall be Series G2-RAIN as manufactured by NexSens Technology, Inc. or approved equal.