



FLOOD WARNING

Cloud Burst – Down stream Flood alert system



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FLOOD WARNING - CLOUD BURST

SENSOR – PARTIAL COMPONENTS

- Temperature-Humidity Sensor
- Rain Gauge
- Wind Velocity, direction
- Hydrostatic Level Sensor
- Doppler Radar
- Solar Power – Back-up
- Downstream Siren Alert System

KPI

- Quantum of rain in the catchment area
- Time required to reach the water to the Dam/Reservoir
- Hydraulic Modeling
- Prediction of Dam/Reservoir level – Spillway- outlet - Gate Open – command alert
- Flood Alert
- Downstream – river side village alert (Siren) automatically

KPI – Non-Process Parameters

- Solar PV Module power output
- Load – Current, Voltage, Power Monitoring
- Energy Generation and CO2 reduction
- Battery – SOC calculation and back-up time prediction
- Temp, Humidity inside the RTU Panel

OUTPUTS / DELIVERABLES

- Real Time Dam/Reservoir Spillway/output gateway - Monitoring and Control
- Dam/Reservoir - Real time - Water Level Alert
- River Water Level – Real time alert
- Early flood prediction - warning
- Automatic Report and emailing of reports
- Thresholds based alerts
- Trend, event, history – analysis
- On-line monitoring of Real time-Parameters

BENEFIT'S - VALUE

- Reduce down time through effective monitoring and recommendation for early maintenance.
- Reducing power consumption to increase the battery back-up time.
- Automatic condition predicting will leads to reduced skill level, improving intelligence and reducing down time for the maintenance.
- Always ensuring the sufficient battery back-up
- Optimizing the Weather data, robust hydraulic modeling
- Early flood warning – riverside flood alert (siren)

DOWNSTREAM - ALERT

- Periodically (weekly) do dummy test – all alert system
- Monitor all the alert system – power back-up system in real time basis.
- Flooding is possible – be prepared



FLOOD ALERT

- Flooding is expected, immediate action is required



FLOOD WARNING

- Severe Flood Warning, Danger to life



SEVERE FLOOD WARNING

Different warning system mapped with different siren sound

