RITE GEOSYSTEMS

ENCARDIO RITE METASENSING FOR MEGA STRUCTURES

Project Dossier

PROJECT DOSSIER

SRIPADA YELLAMPALLI DAM

PROJECT OVERVIEW

Sripada Yellampalli project is an irrigation project in Telangana State, India. It is fourth largest dam on the Godavari River in Telangana region.
The project consists of 3 concrete spillway sections of 1200 m and two earth dams sections of 2 km length on either side of spillway. Dam height is around 42 m and length is around 1650 m. Crest elevation is at 18 m.
The dam has been constructed across Godavari River downstream to existing Sriram Sagar Project. Capacity of reservoir is 20 TMC and is used for drinking water supply to nearby towns and Hyderabad (250 km through pipe lines).
The project also supplies water for NTPC power project reservoir in Ramagundam mandal in Karimnagar.

Project	**Sripada Yellampalli Irrigation Project**
Location	Adilabad District, Telangana, India
Client	Telangana State Irrigation Department
Contractor	Bippl Sublime JV
Consultants	CECDO
Duration	2007-2014

Monitoring solution

Encardio-rite was awarded the contract for:

- Supply and installation of geotechnical instrumentation for the dam and spillway
- Automatic datalogging of critical parameters and areas
- V-notches to measure seepage water flow collected in drainage channels
- Automatic water level recorder for automatic monitoring of reservoir water level.
- Automatic data acquisition system for logging data from above sensors.
- Automatic weather station
- Strong motion accelerometer to monitor accelerations in earth due to reservoir seismicity
- Seismometer to monitor micro seismic vibrations of surrounding area due to reservoir.

INSTRUMENT USED

- Piezometers to monitor uplift pressure below the dam & pore pressure of water in the dam body.
- Concrete pressure cell & strain meter group to monitor concrete stress and strain
- Joint meters to monitor linear movement between the block joints.
- Temperature meter
- Multi-point borehole extensometers
- Magnetic vertical settlement devices vertical settlements of earth bund at different elevations
- Normal and inverted plumb lines to monitor tilt of the dam.

Encardio-Rite Electronics Pvt. Ltd. A-7, Industrial Estate, Talkatora Road, Lucknow, UP-226011, India | geotech@encardio.com | T: +91 522 2661039-320