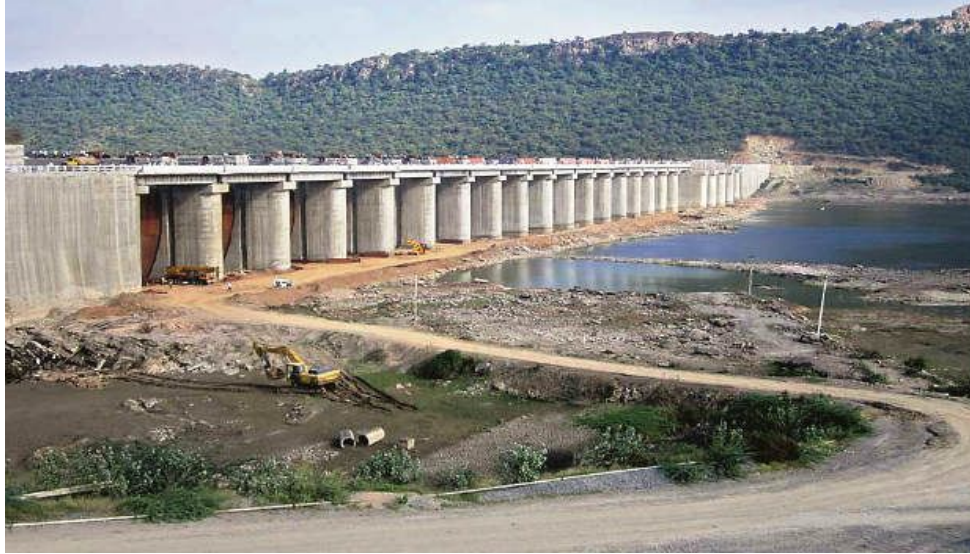




PROJECT DOSSIER

PULICHINTALA DAM



PROJECT OVERVIEW

Project	KL Rao Sagar Pulichintala Irrigation Project
Location	Krishna District, Andhra Pradesh, India
Client	Andhra Pradesh Irrigation Department
Contractor	Sri Srinivasa Infrastructure Ltd., Hyderabad
Consultants	KNS Associates, Hyderabad
Duration	2007-2015

The multi-purpose project serving irrigation needs, hydro power generation and flood control. It is a crucial irrigation facility for farmers of four coastal districts of West Godavari, Krishna, Guntur and Prakasam.

The project consists of spillway of 1050 m length with 500 m long earth bund on one side. It was constructed across Krishna River downstream to existing Nagarjuna Sagar Dam. Height of dam is around 30 m, length 1050 m and crest elevation is at 10 m.

The capacity of reservoir is 15 TMC. Open power house of 4x30 MW capacity is being constructed and not yet commissioned. It is a balancing reservoir to supply water for the irrigation of existing Krishna delta which is coming under Prakasham Barrange (old) near Vijayawada.



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

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 through
- Joint meters to monitor linear movement between the block joints
- Temperature meter to monitor temperature
- Normal and inverted plumb lines to monitor tilt of the dam
- V-notches to measure seepage water flow collected in drainage channels
- Automatic water level recorder for automatic monitoring of reservoir water level.
- Rain gage to measure rain fall
- Automatic data acquisition system for logging data from above sensors
- Strong motion accelerometer to monitor accelerations of earth due to reservoir seismicity.