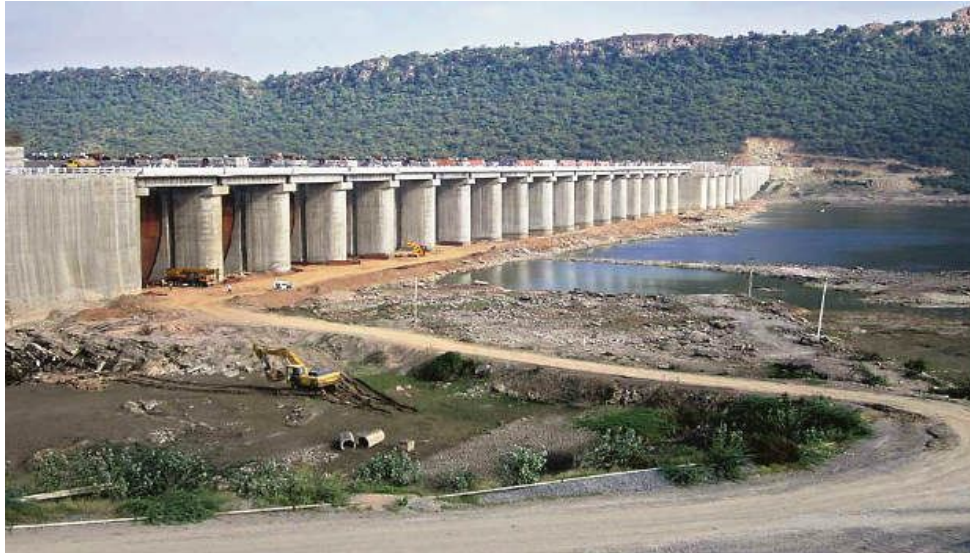




## PROJECT DOSSIER

# PULICHINTALA DAM



## PROJECT OVERVIEW

Project	<b>KL Rao Sagar Pulichintala Irrigation Project</b>
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.