



## PROJECT DOSSIER

# LACHURA IRRIGATION DAM



## PROJECT OVERVIEW

| Project     | Lachura Irrigation Project               |
|-------------|--|
| Location    | Lahchura, Mauranipur, Jhansi, U.P, India |
| Client      | Irrigation Department                    |
| Contractor  | Engineers Project Limited                |
| Consultants | Design Directorate Irrigation Department |
| Duration    | 2005 - 2015                              |

Lachura irrigation project envisages construction of a concrete & masonry dam across Dhasan River, a right bank tributary of the Betwa River in Ganga basin near Mau Ranipur of Jhansi district. The project is proposed to provide irrigation for Kharif 14575 hectare and Rabi 31910 hectare in net CCA of 97,169 hectare.



## Monitoring solution

Encardio-rite was awarded the contract for:

- Supply and installation of geotechnical instrumentation for the dam/overflow section (left bays), non-overflow section (left) & non-overflow section (right)
- Automatic datalogging of critical parameters and areas

## INSTRUMENT USED

- **Piezometers:** To monitor pore pressure of water in the dam body.
- **Temperature meter:** To monitor internal temperature in concrete dam body
- **Strain meter:** Strain meter group to monitor strain in concrete dam.
- **Stress meter:** Also called total stress cell to monitor total stress in concrete
- **Automatic data acquisition system:** For logging data from above sensors.