

SITE INSPECTION OF EARTHEN DAMS OF RELAMPADU AND MUCHONIPALLY BALANCING RESERVOIRS, TELANGANA



STUDY OVERVIEW

- The Jawahar Nettempadu Lift Irrigation Scheme (JNLIS) envisages lifting of 21.425 TMC of water from the Priyadarshini Jurala Project (PJP) for fulfilling irrigation and drinking water needs of drought prone areas of Telangana. Relampadu and Muchonipally reservoirs are part of this project.
- Due to various seepage and stability issues, earthen dams of these reservoirs lead to underutilization of their capacity and posed risk to safety of the dams.
- Team of CWPRS officers visited the dam sites to have comprehensive understanding of site conditions and decide scope of further studies to recommend suitable remedial measures.

APPROACH

- All critical accessible locations of the dam sites were inspected to assess the extent of damages and their probable causes.
- Available project data was studied and discussions were held with project authorities.
- Temporary remedial measures for some distresses were recommended
- Multidisciplinary studies involving investigatory techniques, geotechnical studies, determination of suitable concrete repair material and dam break studies were recommended to suggest remedial measures.

KEY FINDINGS

- The dams faced seepage and stability issues.
- Various distresses such as seepage through dam body and foundation, sand boils, erosion of downstream slope, damages to concrete of sluice barrel, etc. were observed.
- Need to implement rehabilitation measures to ensure safety and stability of the dams was emphasized.

SIGNIFICANCE

- The visit helped to assess extent of damages to the earthen dams.
- Further course of action for safeguarding safety of the dams could be formulated.