अनुसंधान के माध्यम से सेवा
Service Through Research

CENTRAL WATER AND POWER RESEARCH STATION,
PUNE - 411 024 , INDIA.

REMOTE SENSING APPLICATION DIVISION

In order to provide viable and economical solutions to various Coastal, River Morphology, Port and Reservoir Sedimentation studies, a need was felt to use the advanced technologies such as Remote Sensing Techniques and Geographical Information System (GIS). Realizing the importance and usefulness of the powerful tool of Remote Sensing in acquiring data and information for development and management of hydraulics and coastal engineering, the Remote Sensing Centre has been established at CWPRS.

FACILITIES

- **Remote Sensing Lab with Workstation**
- **GEOMATICA 2015 software**
- **A0 Colour Scanner**
- **Satellite Imageries**

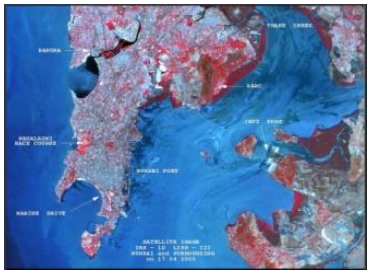
Developments of modules in Geomatica software

- Digitization of maps and bathymetry charts necessary for mathematical model inputs
- Development of vector utility function and successfully tested for various projects

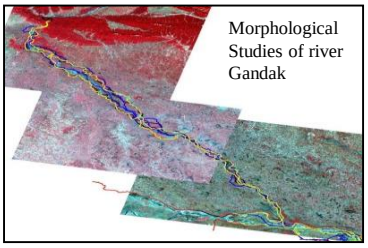
IMPORTANT PROJECTS CARRIED OUT - More than 30 Projects in

Coastal Studies

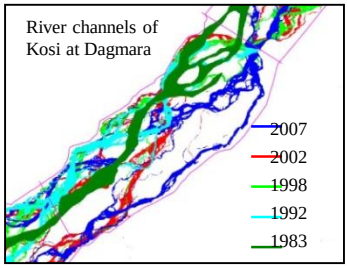
- Shoreline changes along the coast line of Mumbai for M/s JNPT
- Shoreline erosion along the Kerala Coast
- Shoreline stability studies for ONGC ,Andhra Pradesh
- Prediction of receding low water line at Trombay Power Generating Station, Mumbai
- Shoreline Changes For Kudankulam NPP, Tamil Nadu



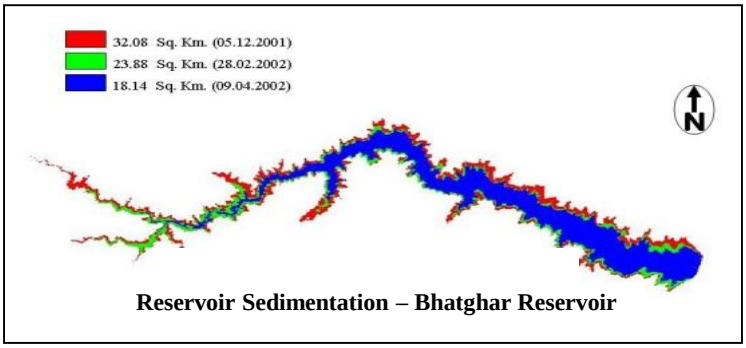
River morphological studies



- Brahmaputra at Dibrugarh, Guwahati
- Gandak
- Ganga at Farakka, West Bengal
  at Maharajpur, Jharkand
  at Barh, Bihar
- Mahanadi, Narmada, Kosi, Damodar



Reservoir sedimentation studies



Reservoir Sedimentation – Bhatghar Reservoir

Studies for 20 major reservoirs had been carried out using satellite remote sensing techniques at CWPRS