

# **HYDROLOGY PROJECT PHASE-II**

## **MAIN OBJECTIVES**

- 1. To improve the organizational arrangements for measurements, validation, collation & analysis of hydrological, hydrometeorological & water quality data.**
- 2. To strengthen institutional & technical capabilities, improve physical facilities & hydrological services for data measurements.**
- 3. To develop mechanism to promote coordination & use of available hydrological, hydrometeorological data by all the stake holders and for research & development studies.**
- 4. To have proper policy for dissemination and transfer of data.**

## **BENEFITS**

- Improvement in infrastructure for HIS Data Collection.**
- Automatic recording of river gauge, rainfall, ground water level, quality data.**
- Development of comprehensive, easily accessed and user friendly data basis covering all important aspects of hydrological cycle.**
- Storage of validated data for all hydrological parameters in a single building.**
- Computerization of validated data and its free access to general public and Water Resources Project Planners.**
- Enhancing technical capabilities of data collection staff by proper training.**
- Improvement in communication facilities which will further help in flood alarming system for safety of people.**
- Proper water resources evaluation.**
- Improved long planning, management and development of water resources and environment.**

- **Proper economical and efficient designing and implementation of future hydrological projects.**

### **MAIN GOAL**

- **To have a reliable and comprehensive Hydrological Information System (HIS) for efficient dissemination and transfer of data to the users by making it demand driven and improving its access and use by private sector and civil society.**
- **Use of HIS through the Creation/development of Standardized hydrologic design aids.**
- **Create awareness amongst the users of HIS data and for its proper use at District/Block/Panchayat level in addition to identifying the users of the data.**
- **State Data Center storing HIS data, will act as a library for hydrological data with following functions:**
  - ✓ **Store and administer field and authenticated hydrologic data**
  - ✓ **Ensure compatible database configuration and protocols by agencies**
  - ✓ **Maintain a professional data security system**
  - ✓ **Make authenticated Hydrological data available online/offline for data Users**
  - ✓ **Preparation of Hydrological Reports**
  - ✓ **Backup of historical data**

### **DATA USES**

- **Proper Planning of Irrigation Projects.**
- **Improved long planning, management and development of water resources and environment.**
- **Water allowance fixation in command areas.**
- **Proper water resources evaluation.**
- **Reduce Energy Costs and Cost of Cultivation.**

- **Control of floods caused by excessive monsoon.**
- **Proper economical and efficient designing and implementation of future hydrological projects.**
- **Increase Employment potential and per capita income.**
- **Reduce water disputes and create awareness for conservation.**
- **Poverty Alleviation/Economic Benefits.**
- **Water quality aspect related to Public Health.**
- **Development of consistent & scientifically based tools and design aids.**
- **Forecasting System**
- **Warning of Response System**
- **Operational maintenance of Reservoirs.**
- **Drought Management.**
- **Conjunctive use of Surface and Ground Water.**
- **Watershed management including Rain Water Harvesting/Recharge**
- **Improved norms for GW resource assessment.**