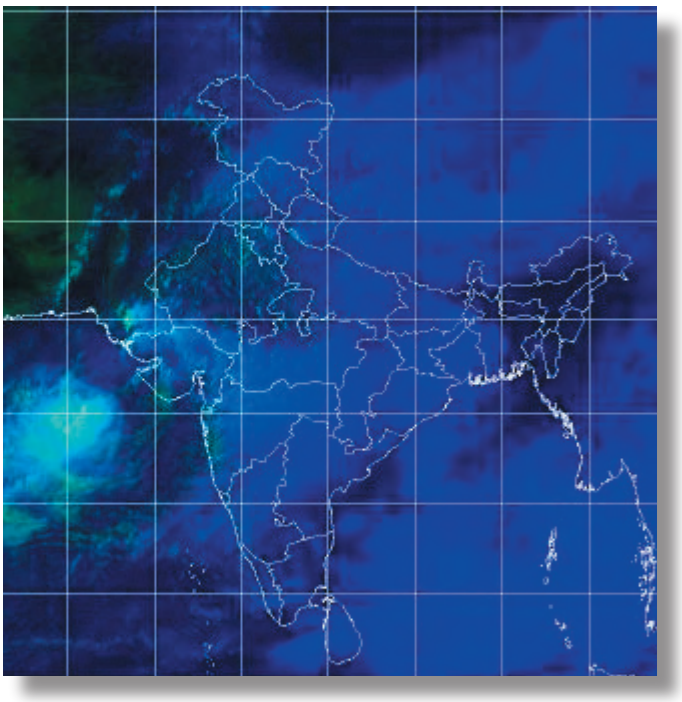
ANDHRA PRADESH, INDIA FLOOD WARNING SYSTEM

7/5/2006

PROJECT
ANDHRA PRADESH HAZARD MITIGATION AND EMERGENCY CYCLONE RECOVERY

INTERNATIONAL BANK FOR REDEVELOPMENT, THE INTERNATIONAL DEVELOPMENT ASSOCIATION AND THE GOVERNMENT OF ANDHRA PRADESH, INDIA



Owner:	The Government of Andhra Pradesh
Purpose:	Watershed and Delta Management, Flood Modelling and Coastal Zone Management including Modelling of Wind, Rainfall and Storm Surge
Equipment:	78 Rainfall and water level monitoring stations, INSAT satellite telemetry, 2 Digital Direct Readout Ground Stations
Value:	$1.8 Million
Completed: 2003	

As a result of the devastating cyclones that hit India in 1996, the International Bank for Redevelopment and the International Development Association granted funds to the Government of Andhra Pradesh to be used to restore India's damaged infrastructure and to implement a hazard management program. The Andhra Pradesh Hazard Mitigation and Emergency Cyclone Recovery Project (APHMECRP), which evolved from the restoration program, subsequently commissioned the following two studies:

- Study A - Watershed and Delta Management including Flood Modelling
- Study B - Coastal Zone Management including Modelling of Wind, Rainfall and Storm Surge

Sutron Corporation was awarded a $1,753,074 contract to provide a total of 78 Rainfall and Water Level Monitoring Stations throughout India's Andhra Pradesh. The hydrological/meteorological system acquires and transmits real-time data using cutting-edge equipment designed, built, installed and supported by Sutron Corporation.

Sutron Corporation provided

- 5 Coastal Remote Stations for measurement of tide height, wind speed, wind direction, atmospheric pressure, rainfall, temperature, humidity, etc. Data is transmitted using DRT transponder of INSAT Satellite to Central Receive site (DDRGS) installed at the Planning Department Building in AP Secretariat.
- 2 Satellite Receive Stations (Digital Direct Readout Ground Stations) installed for reception of remote site data from 5 Coastal Stations and 78 Field Gauging Stations at various locations on major rivers and tributaries of Andhra Pradesh.
- 78 Rainfall and Water Level Monitoring Stations.

India was the first developing country in the world to have its own geostationary satellite, INSAT, for continuous weather monitoring of this part of the globe, particularly for cyclone warning. The new weather monitoring system will rely on Sutron's SatLink High Data Rate Transmitter/ Logger equipped with INSAT Satellite telemetry and two Earth Receive Ground Stations (Sutron's DDRGS) to transmit real-time data from the remote monitoring stations to the modeling centers. Sutron expects to complete the project by Novembe, 2003.

Sutron is the only company certified by India's prestigious Met department (IMD) to transmit over their INSAT Satellites.

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