

Central Water Commission (CWC) of India Flood Forecasting System

The Central Water Commission of India Awarded to Sutron-India a Contract to Provide a Turn-Key Flood Forecasting System Covering 6 River Basins.

OWNER: Central Water Commission of India, CWC
Upper Godavari Division

PROJECT: Flood Forecasting Project for 6 River Basins (14 States in India)
168 Remote Satellite-Based Sites and 12 Modeling/
Flood Forecasting Centers
Supply, Installation, Testing, Commissioning & Maintenance of Real-Time Data Acquisition Network for Collection, Transmission & Processing of Hydro Meteorological Data, Gauging Equipment, Satellite Telemetry & Associated Systems.

DATES: 2006/2007 with 4 year Maintenance Agreement

CONTACT: Executive Engineer
Krishna Godavari Bhawan
H.No 11-4-648, 3rd Floor, A.C. Guard
Hyderabad 500 004 INDIA
Tel # 040-23308651

VALUE: @\$4,700,000 with on-going support

TELEMETRY: INSAT Satellite Communications for Stations. VSAT Communications between Existing Digital Direct Readout Ground Station Facilities located at Burla & Jaipur & various locations in Krishna & Godavari Basin, Brahmaputra & Barak Basin Organization, Mahanadi & Eastern Rivers, Lower Ganga Basin & Yamuna Basin.

EQUIPMENT: 30 Rainfall Only Stations
127 River Water Level & Rain Gauge Stations
6 Reservoir & Rain Gauge Stations 5
River Water Level & Rain Gauge & Meteorological sensors (Air Temperature, Relative Humidity, Evaporation, Sunshine Duration & Wind Speed/ Direction)
12 Regional Flood Forecasting Centers Equipment
XConnect Hydro-Met Data Handling Software
INSAT Satellite Transmitters



Equipment Installation at HFL

1. Sutron India was awarded a turnkey Flood Forecasting Project for 168 remote satellite based telemetry sites and 11 Modeling Centers for Regional Flood Forecasting in 6 river basins including :
 - Krishna Basin (KGB0)
 - Godawari Basin (KGB0)
 - Yamuna Basin (YBO)
 - Mahanadi & Eastern River basin (MERO)
 - Lower Ganga Basin (LGBO)
 - Bhramputra Barak Basin (BBBO)

The 6 basins are spread across 14 States in India.

2. Project included a warranty period of 2 years and annual maintenance contracts for 4 years.
3. Project cost is INR 21.14 Crores (US\$ 4.7 million).
4. 12 Modeling Centres have been set up using state-of-the-art technology with specially customized software version of Sutron's X-Connect for data collection, data processing and data input to a special CWC Model – MIKE-11.



SUTRON CORPORATION

22400 Davis Drive
GS-25F604D SBSA

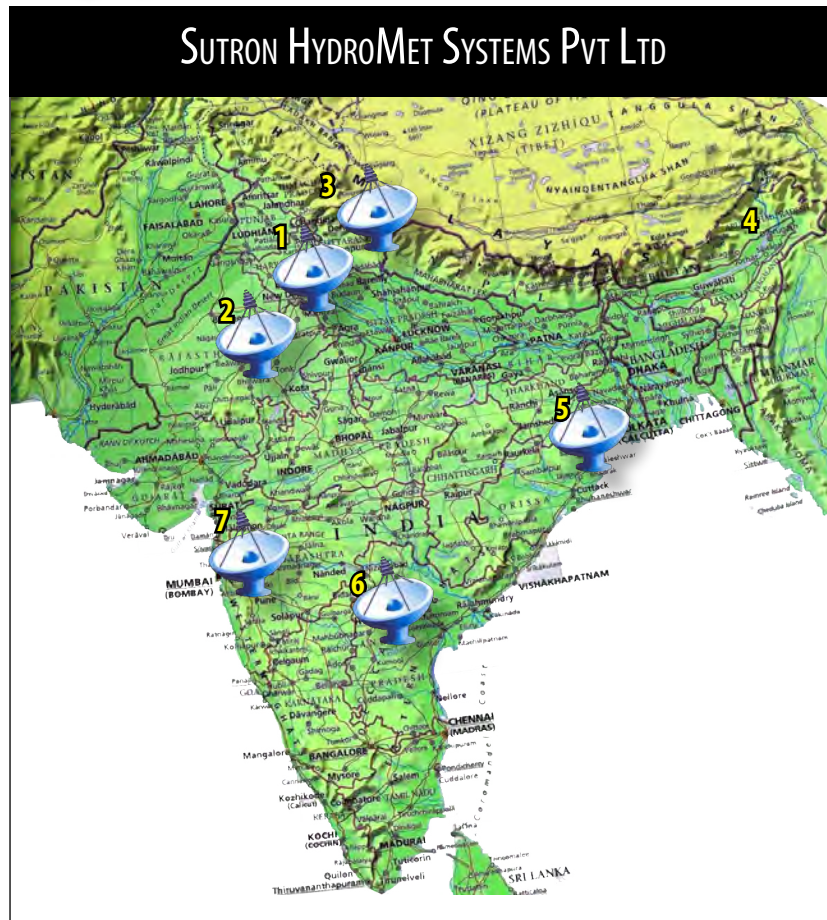
Sterling, VA 20164
NESDIS Certified

(703) 406-2800
ISO Certified

(703) 406-2801 Fax : www.sutron.com : sales@sutron.com
Sutron is an authorized Iridium Value Added Reseller (VAR).

page 1
12/6/2011

Central Water Commission (CWC) of India Flood Forecasting System



5. The network uses 2 Digital Earth Receive Stations at Jaipur (Rajasthan) & Burla (Orissa). 11 VSATs are at the following Modeling Centers :

- Hyderabad (2 VSATs: 1 for Krishna Basin & 1 for Godawari Basin)
- Kurnool
- Bhadrachalam
- New Delhi
- Agra
- Bhubneshwar
- Maithon
- Asansol
- Guwahati
- Dibrugarh

6. This is Sutron's 2nd flood forecasting project for Central Water Commission, Government of India. The first project was commissioned in 1998-99 in Chambal and Mahanadi basins. All telemetry stations in the two river basins are fully functional for last 10 years and still under AMC till 2011 and extendable up to 2014, i.e. the system functionality is guaranteed for over 15 years.

7. 4 different type of stations have been used in this project : Rain Gauge Stations, Water Level Measurement Stations, Meteorological Stations and Shaft Encoder Stations for Dam Site Water Level Measurement.



SUTRON CORPORATION

22400 Davis Drive
GS-25F604D SBSA

Sterling, VA 20164
NESDIS Certified

(703) 406-2800
ISO Certified

(703) 406-2801 Fax : www.sutron.com : sales@sutron.com
Sutron is an authorized Iridium Value Added Reseller (VAR).

page 2
12/6/2011