

# Citizens Charter

## Hydrology Project (SW), Nashik

### 1.0 Hydrology Project Phase I :

Hydrology Project (SW) Phase I started with the assistance of World Bank, IDA credit 2774-IN since November 1995 and successfully completed with Hydrological Information System (HIS) in place in December 2003. The main objective of HP is to improve the institutional and organisational as well as technical capabilities and physical facilities for measurements, collection, analysis, validation, transfer, storage and dissemination of hydrometeorological and Water Quality data which in turn will be used for evaluation of basic water resources and development works. Nine states in India and six central agencies participated in National Hydrology Project Phase I. A good network of hydrometeorological stations with modern equipments was established throughout the state under this project. For this project, the financial aid of Rs. 63.11 crores was provided by World Bank.

#### Aims of the Hydrology Project Phase I :

- To improve hydrological database in terms of coverage and accuracy.
- To improve capabilities for storage, retrieval, and interpretation by means of computerization and advance software.
- To enhance publication and access of information to eligible data users.
- To impart training to the officers and all relevant staff under Hydrology project.

### 2.0 Hydrology Project Phase II :

Hydrology Project Phase II loan agreement is signed on Jan.19, 2006 with World Bank. The agreement is effective from April 05, 2006. Expected expenditure for Maharashtra (SW) is Rs.9.81 crores. Amount of loan allocated is Rs. 8.73 crores. Project period is 6 years. Under this project, special hydrological studies will be carried out with the help of N.I.H. Roorkee. Thirteen states and Nine central agencies in India are participating in HP II.

#### Aims of the Hydrology Project Phase II:

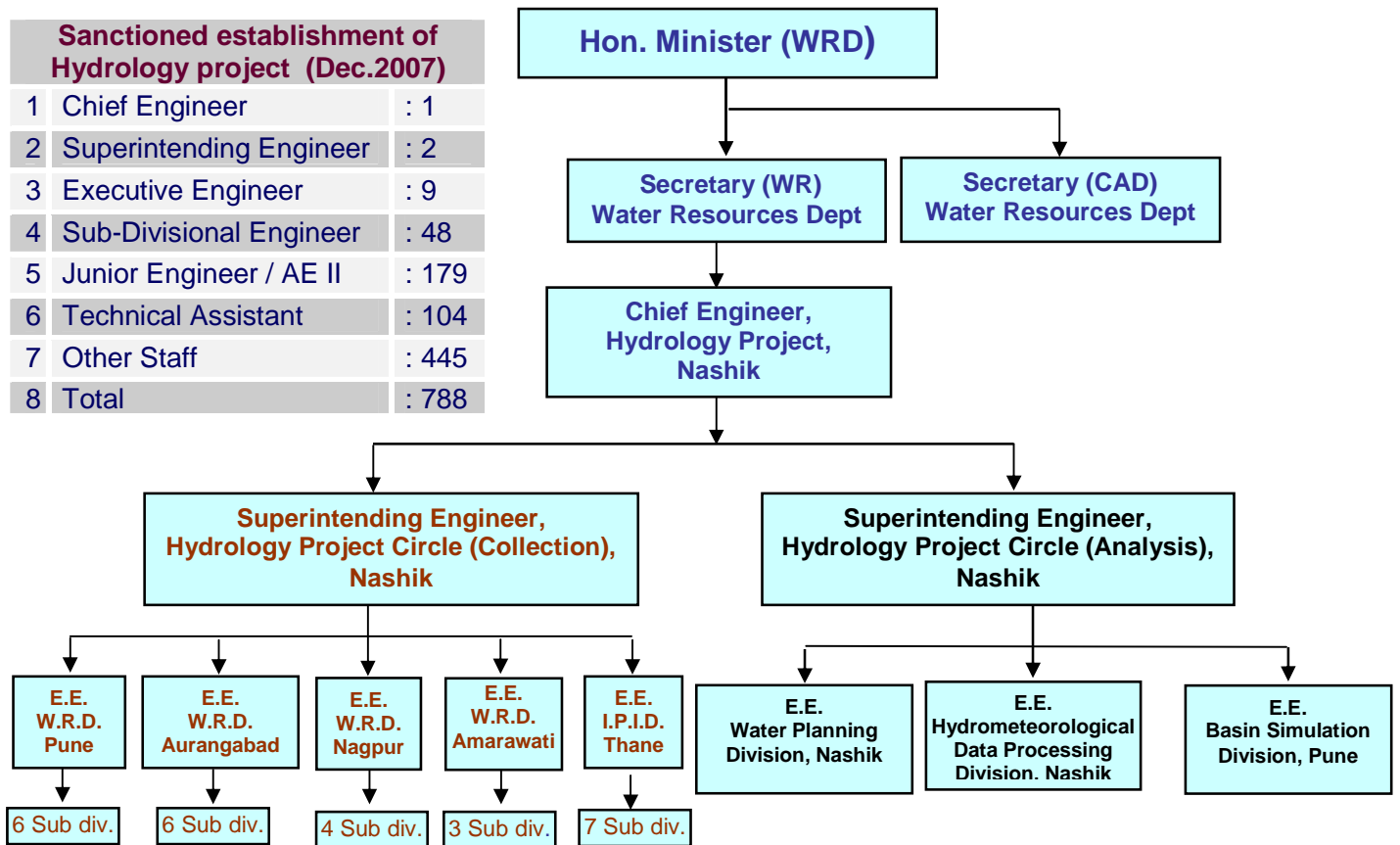
1. Institutional Strengthening:
  - Consolidation of HP I activities
  - Awareness raising, dissemination and knowledge sharing.
  - Implementing knowledge/experience sharing and interagency collaboration.
2. Vertical extension:
  - Development of hydrological design aids.
  - Development of decision support systems.
  - Implementation of purpose driven studies.
3. Horizontal Expansion.
  - This is for new participating states and central agencies.

### 3.0 Water Availability Studies:

Considering the reliable and quality hydrometeorological data generated with HP and trained manpower in HIS, data processing, associated softwares provided in HP I (SWDES, HYMOS, WISDOM), Government of Maharashtra has assigned the responsibility of issuing water availability certificates of new water resources and conservation projects having capacity more than 5 Mcft (150 TCum) to Chief Engineer, Hydrology Project, Nashik. This certificate is made mandatory requirement for according administrative approval to the project.

#### 4.0 Hydrology Project Organisational Chart

Sanctioned establishment of Hydrology project (Dec.2007)		
1	Chief Engineer	: 1
2	Superintending Engineer	: 2
3	Executive Engineer	: 9
4	Sub-Divisional Engineer	: 48
5	Junior Engineer / AE II	: 179
6	Technical Assistant	: 104
7	Other Staff	: 445
8	Total	: 788



#### 5.0 Hydrometeorological Parameters measured in HP

Sr. No.	Parameter	Frequency of measurement
1	Rainfall	Hourly (ARG), Daily (SRG)
2	Maximum Temperature	Twice Daily
3	Minimum Temperature	Twice Daily
4	Dry Bulb Temperature	Twice Daily
5	Wet Bulb Temperature	Twice Daily
6	Pan Evaporation	Twice Daily
7	Pan Water temperature	Twice Daily
8	Relative Humidity	Twice Daily
9	Wind Direction	Twice Daily
10	Wind Velocity	Twice Daily
11	Sun Shine Duration	Twice Daily
12	River Water levels	Hourly (AWLR), Multiple times a day (Staff gauge)
13	River Stage Discharge	Twice Daily

## 6.0 Hydrometeorological Network in Maharashtra:

Sr. No.	Type of Station	Pune	A'bad	A'wati	Nagpur	Thane	No. Of Stations
1	Standard Raingauge	128	184	72	65	94	543
2	Autographic Raingauge	32	31	40	45	86	234
3	Full Climatic Station	45	34	13	34	26	152
4	Gauge Discharge	52	41	41	51	67	252
5	Water Quality Level I Lab	4	6	8	12	8	38
6	Water Quality Level II Lab	2	2	0	1	0	5
7	Water Quality Sampling	33	25	18	17	34	127
8	Sedimentation Sampling	50	27	26	12	4	119

## 7.0 Publications of Hydrology Project:

Hydrology Project publishes Water Year Book every year. Up till now, Water Year Book for 2002-2003 and 2003-2004 are published. Water Year Book 2004-05 is also finalised. Data book containing information about the network stations under Hydrology Project is also published.

## 8.0 Hydrological Data Users group (HDUG):

It is a State or National Level representative Group of data users who have a stake in water resources utilisation, assessment & management. HDUG is required to identify the potential data users and regularly analyze their data needs and to ensure that the HIS output remains at all times 'demand driven'.

### Purpose of establishing HDUG:

























- To provide a common platform for discussion between hydrometeorological data users & data provider.
- To create awareness amongst users about Hydrological Information System (HIS) & educate them.
- To understand, analyze & update information on the changing needs of data users.
- To review & recommend addition/ deletion in the data collection networks related to HIS, if appropriate.

Various institutes are taking advantage of hydrometeorological data e.g. Water Resources Deptt., Water Supply Deptt., Water Conservation Deptt., Public Works Deptt., Railway, Forest, Pollution Control Board, Private institutes, Educational institutes, students, Researchers, State and Central institutes etc.

Hydrometeorological data is supplied to HDUG members only. The registration for membership of the HDUG is open to all by paying Rs.500/- as a membership fee for duration of 5 years, which can be renewed and Rs. 2500/- for life membership.

The data is supplied to HDUG members with price. Details regarding pricing of data, discount thereof, Registration Form for membership and data request form are available on website.

## 9.0 Hydrology Project contact information:

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