

**Minutes of the Fifth Meeting of the Virtual Centre of Excellence named as “Water for Welfare: An Uttarakhand Initiative” held on April 15, 2008 at IITR, Roorkee**

Following attended:

S. No.	Name	Designation	Organisation
1	Prof. S.C. Saxena	Director & Chairman	IIT Roorkee
	<b>Core Group</b>		
2	Prof. G.L. Asawa	Head	Deptt. of Civil Engg., IIT Roorkee
3	Prof. R.P. Singh	Head	WRDM, IIT Roorkee
4	Prof. Ashwani Kumar	Head	Earthquake Engg, IIT Roorkee
5	Prof. N.K. Goel	Head	Deptt. Of Hydrology, IIT Roorkee
6	Shri Arun Kumar	Head & Member Secretary	AHEC, IIT Roorkee
7	Shri S.C. Gupta	Associate Professor	University of Petroleum & Energy Studies, Dehradun
8	Shri N.C. Sharma	Chief Engineer	Irrigation Design Organisation Roorkee
9	Dr. S.V.N. Rao	Scientist ‘F’	National Institute of Hydrology, Roorkee
10	Dr. S.K. Bartarya	Scientist ‘E’	Wadia Instt. Of Himalayan Geology, Dehradun
11	Shri Akhilesh Verma	Deputy Secretary	Uttarakhand Board of Technical Education, Roorkee
12	Shri SK Vaish	Works Manager	Govt. Irrigation Workshop, Roorkee
13	Shri R.R. Bhatt	Deputy Director	State Engineers Academy, Kalagarh, Dehradun
	<b>Associate Group</b>		
14	Shri A.K. Jain	Senior Geologist	Geological Survey of India, Dehradun
	<b>User Group</b>		
15	Shri R.N. Verma	Chief Engineer	Uttarakhand Peyjal Nigam, Dehradun
16	Shri Arun Gupta	Director	Jaiprakash Power Venture Ltd., Jaypee Group, Noida
17	Shri S.C. Agarwal	Addl. General Manager	Sutluj Jal Vidyut Nigam Ltd., Dehradun
18	Shri R.S. Negi	Deputy Director	Watershed Management Directorate, Dehradun
19	Shri Debashish Sen	Director, CPWD	People’s Science Institute, Dehradun
20	Shri Vivek Gupta	AGM-Projects	GMR Group, Dehradun
21	Shri P.K. Agarwal	Sr. Manager	Tehri Hydro Development Corporation, Dehradun
22	Shri D. K. Govil	General Manager(CP)	Tehri Hydro Development Corporation, Rishikesh
23	Shri Ram Kumar	Chief Project Officer	Uttaranchal Infrastructure Projects Company Private Ltd., Dehradun
24	Shri Sunil Kumar	Project Officer	Uttaranchal Infrastructure Projects Company Private Ltd., Dehradun
25	Shri Manoj Kr. Garnayak	Deputy General Manager	L&T-ECC Division, Rudraprayag
26	Shri D.K. Joshi	Chief Manager (Hydro)	Reliance Energy Ltd., Noida
27	Shri B.K. Mishra	Addl. Manager	Reliance Energy Ltd., Noida

After welcoming the participants representing different participating organizations of core group, associate group and user group and their introduction, Prof. S C Saxena, Director, IIT Roorkee and Chairman of the Virtual Centre as the opening remarks, highlighted the importance of water resources in the economy and development of the state of Uttarakhand and initiative of Virtual Centre of excellence in the form of the federation “Water for Welfare : An Uttarakhand Initiative” taken by Uttarakhand Govt.

Shri Arun Kumar, Member Secretary & Head, AHEC briefed the members present, specifically those who were attending the meeting for the first time, the objectives of this initiative.

The agenda wise item were taken for discussion and decisions are as follows:

### **Agenda Item: No 1**

#### **To report the achievements of this virtual centre in the form of federation**

The achievements of the virtual centre is summarized below:

1. Compendium of Expertise and Facilities Feb 2005
2. Setting up of the Corpus April 2005
3. Release of working funds from User Groups May 2005
4. Curriculum Development for implementation Oct 2006  
by State Engg. Colleges, Universities, Poly-technics & Degree Colleges
5. New web site for “Water for Welfare- an Uttarakhand Initiative” was created. The site has been hosted on Govt. of Uttarakhand Portal known as Uttara ( [www.uttara.in](http://www.uttara.in) ) : <http://www.uttara.in/initiatives/wfw/intro.htm>
6. Rules for virtual center of excellence in form of federation Water for Welfare- an Uttarakhand Initiative” were finalized. The rules have been designed on pattern of society but operation in the project mode to have a wider flexibility
7. Special publications on case studies and promotion material were prepared for following and have been pasted on web site
  - Rehabilitation of Tehri dam and lessons learnt
  - Public perception of water and hydropower projects-problems and analysis – case of Bhillangana SHP
  - Sensitizing the masses and creating awareness for water conservation and avoidance wastage of water
  - Bottlenecks In Hydro Power Development
8. In order to provide greater impetus to the work being carried out as was decided in the federation’s fourth meeting held on 26.07.2007 to focus the activities of the center. Accordingly a brainstorming meeting of all Nodal Officers was organized at Dehradun on Oct 16, 2007. Two committees were constituted with their scope of work.
  - 1) **Committee for assessing the Manpower requirements of development of Water Resources / Hydro Power / Drinking water in the State of Uttarakhand**

#### Scope

- To assess the requirement of manpower at different levels for Water Resources / Hydropower / Developing Water Projects in the state of Uttarakhand.
- Steps required to meet the manpower requirement.

**2) Committee for assessing the Manpower requirements for carrying out Environmental Impact Assessment (EIA) for Water Resources / Hydro Projects / other infrastructure project in the state Uttarakhand.**

Scope

- a. To assess the manpower requirement at different levels for carrying out EIA of various Water Resources / Hydropower / Urban development and other Engineering projects.
  - b. Steps required for meeting the manpower requirement including strengthening required in existing facilities/ institution.
9. The committee on EIA chaired by Prof G L Asawa, Head CED conducted two meetings on Jan 05, 2008 (Dehradun) and Jan 23, 2008 (Roorkee).

Recommended to have a Virtual Cell consisting of senior personnel - one each from IIT, Roorkee, IRI Roorkee, NIH Roorkee, University of Petroleum & Energy Studies at Dehradun, Wadia Institute of Himalayan Geology at Dehradun, Forest Research Institute at Dehradun, People's Science Institute and H.N.B. University at Garhwal

Database about availability of the expertise and infrastructure (for the EIA related matters of Uttarakhand projects) in different organizations/Institutes of Uttarakhand was prepared and circulated to state degree colleges, polytechnics and user organizations.

Functional area			Capacity building required for strengthening	
			Man power training	Equip ment (name of equip ment, its cost estimat es and use
land use	No. of experts and no of support staff available, if any	Facilities available at the Institute with name instrument s available		
Air pollution monitoring				
Air pollution control and prediction of impacts				
Meteorology observations				
Water pollution monitoring				
Water Pollution control and prediction of impacts				
Noise and vibration measurement				
Ecology and biodiversity observations and impact analysis				
Ground water quality and quantity monitoring				
Hydrology and impact assessment				
Socio economy observation and analysis				
Geology and soil Measurement and analysis				
Risks and hazard management				
Other expertise related to EIA				

10. The Committee for assessing the Manpower requirements of development chaired by Shri Ramesh Chandra (has been transferred to Delhi in Jan 2008) also held meetings in Dehradun. We requested (Feb 08, 2008) to NHPC to send the report of the committee and is awaited.
11. Sequel to decision taken in the meeting held at chief secretary committee room Dehradun on July 26, 2007 following publication were prepared, printed and distributed by post among the Secretaries, District Magistrate, Chief Development Officers, District Information Officers, Executive Officers of Municipalities, Members of CORE group, Associate group

and user group of water for welfare, State polytechnics and all Degree colleges in the state in March 2008. This also has been pasted on the website.

- A. Water Policy and Water Conservation**
- B. Hydropower Policies and Guidelines**
- C. Impact of Tehri Dam – Lessons Learnt**

## **Agenda Item 2**

**To consider the recommendation of this centre to the state government for increasing the employability in water resources sector**

Presentation on the bottlenecks and barriers being faced in utilization / support of virtual centre was made and thereafter the following recommendations were made for consideration by state government at the highest level for issuing the necessary executive instructions to different concerned organizations.

1. Provide special budget to the institutions / departments for providing the necessary tender cost, earnest money and security for participating and securing the government work
2. The company (both private and government sector) may take the expertise from the different institutions with in the state on preference basis.
3. While allotting the sites for water resources and hydropower projects the company (both private and government sector) may take the students who have undergone special courses in water resources and hydropower from different polytechnics, Degree colleges, professional colleges such as Engineering, Management placement of the state by certain percentage on their employment.
4. The students and common man may be allowed to visit the water resources and hydropower stations to limited area to make them feel close to the subject. For the sensitive projects / stations, from security consideration, some good quality photographs and sketches may be placed on the web as well as at a view point of the respective project/station for the common visitor where one may be allowed to take picture from outside only. For other projects which are not sensitive permission for taking photography from outside granted easily by the respective authority.
5. Special budget allocation be made to the different polytechnics, Degree colleges, professional colleges such as Engineering, Management for offering the courses in water resources, EIA and management related subjects, silt quantity and analysis specially for capacity building, strengthen of library and laboratory facility, visits to nearby stations.
6. Establish the agency for monitoring and management of Ground water at state level
7. Establish the agency for study on glaciers and their monitoring.
8. Establish the agency for providing and/ or EIA services.

Further representatives of L&T and THDC mentioned that they have placed some of the students of state polytechnics and state degree colleges

## **Agenda No.3**

**To set the targets for the year with proposed activities and budget**

Activities planned for the year 2008-09 were as follows:

**Brain Storming Meetings (Proposed to be held at different locations in the state)**

- User needs
- Availability of Expertise and Use
- Drinking Water

- Hydropower
- Environment Impact Assessment

### **Publications**

#### Hydropower

Existing Project Profiles, On going Project Profiles

#### Water Resources

Existing Project Profiles,

#### Drinking Water

Existing Project Profiles,

#### Water Conservation

#### Environment

Networking of the Institutions/Organisations

Seminar

It was requested to the state irrigation department, private hydropower developer, THDC representatives to prepare the details on their existing projects which could be pasted on the web site as well as circulated to various stake holders to make aware the positive aspects of water. Shri R.N. Verma of Pey Jal Nigam mentioned the positive aspects of Tehri Dam in the form of aquifer recharged at Jollygrant area in Dehradun district. The members requested to send such information with data and pictures for circulation among the state. Members assured to send these details to the secretariat.

The expenditure incurred during the year 2007-08 was noted and budget for the year 2008-09 was approved as presented.

### **Agenda No. 4**

Under any other item, it was requested to all members present to popularize the objectives of the virtual centre within their organizations and use the opportunity created by this federation.

The meeting ended with a vote of thanks to the chair.