

**Minutes of the Second Meeting of the Virtual Centre of Excellence in the form of  
“Federation of Existing Institutions in Uttarakhand for Leveraging Water/  
Hydropower Resources” held on Feb. 15, 2005 at Dehradun**

Following attended:

<b>S. No.</b>	<b>Name</b>	<b>Designation</b>	<b>Organisation</b>
1.	Prof. Prem Vrat	Director	IIT Roorkee Chairman of the Federation <b>(In Chair)</b>
2.	Shri M. Ramachandran	Additional Chief Secretary and Infrastructure Development Commissioner	Government of Uttarakhand
3.	Shri N. Ravi Shanker	Secretary (Irrigation, Power)	Government of Uttarakhand
4.	Prof. R.C. Pant	Vice Chancellor	Kumaon University
5.	Prof. N. Natarajan	Vice Chancellor	HNB Garhwal University, Srinagar
6.	Prof. Satyendra P. Gupta	Director	ICFAI Tech. Jaipur
7.	Dr. Parag Diwan	Vice Chancellor	University of Petroleum & Energy Studies, Dehradun
8.	Prof. Himmat Singh	Distinguished Professor	University of Petroleum & Energy Studies, Dehradun
9.	Shri S.M. Saxena	Chief Engineer & HOD	Uttarakhand Irrigation Department, Dehradun
10.	Shri B.B.L. Mittal	Chief Engineer & Director	State Engineer's Academy, Kalagarh
11.	Shri D.C. Sharma	Superintending Engineer	Irrigation Research Institute, Roorkee
12.	Dr. O.P. Dubey	Research Officer	Irrigation Research Institute, Roorkee
13.	Shri M.P. Gupta	Director	Technical Education Department, Uttarakhand
14.	Shri Suresh Vaish	Works Manager	Govt. Irrigation Workshop, Roorkee
15.	Shri V.K. Sharma	Asstt. Engineer	Govt. Irrigation Workshop, Roorkee
16.	Dr. M.P. Khali	Project Manager UIRD	Uttarakhand Academy of Administration, Nainital
17.	Shri R.D. Singh	Scientist `F`	National Institute of Hydrology, Roorkee
18.	Shri Rakesh Kumar	Scientist `E1`	National Institute of Hydrology, Roorkee
19.	Dr. S.K. Bartarya	Scientist `D`	Wadia Institute of Himalayan Geology, Dehradun
20.	Shri K.N. Shukla	Dean	College of Tech., Pantnagar
21.	Shri K.S. Tyagi	Head	Rural Development Deptt., Development Sanskriti Vishva Vidyalaya, Hardwar

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22.	Shri Agam Vir Singh		Rural Management Deptt., Development Sanskriti Vishva Vidyalaya, Hardwar
23.	Dr. J.P. Tiwari	Dean(PGS) Registrar	G.B.P. University of Agriculture and Technology, Pantnagar
24.	Shri Arjesh Sharma	Manager	Pollution Control Research Institute, Bharat Heavy Electrical Ltd., Hardwar
25.	Shri S.P. Singh Raghav	Chairman cum Managing Director	Uttaranchal Power Corpn. Ltd., Dehradun
26.	Shri Awadh Bihari Giri	Chairman cum Managing Director	Uttaranchal Jal Vidyut Nigam, Dehradun
27.	Shri R.K. Sharma	Chairman cum Managing Director	THDC, Dehradun
28.	Dr. M.C. Joshi	Additional Secretary Energy and Director, UREDA	Government of Uttaranchal
29.	Shri R. Krishnamurthy	General Manager, Loharinag-Pala HPP	National Thermal Power Corpn.
30.	Shri M. Chatterjee	Deputy General Manager, Tapovan-Vishnupad, HPP	National Thermal Power Corpn.
31.	Shri H.P. Uniyal	Chief General Manager	Uttaranchal Jal Sansthan, Dehradun
32.	Shri S.K Semwal	DMA	Uttaranchal Peyjal Nigam
33.	Shri Vinay Prakash	Superintending Engineer	Irrigation Construction Circle, Dehradun
34.	Shri S.M. Joshi	Deputy Conservator of Forests, Mussoorie	Forest Department
35.	Shri S.K. Gupta	Advisor	Jai Prakash Power Ventures Ltd., Dehradun
36.	Shri M.M. Singhal	Resident Engineer	Synergies Hydro India Ltd.
37.	Shri Ranjana Kala	Project Director (Admn.)	Watershed Management Directorate
38.	Shri Sumer Singh	Director Technical	Swasti Power Engg. Ltd.
39.	Shri S.K. Goyal	General Manager (Engg.)	Bharat Heavy Electrical Ltd., Hardwar
40.	Prof. A.K. Pant	Professor	Coordinator, UDC
41.	Prof. C.S.P. Ojha	Professor	Civil Engg. Deptt.
42.	Prof. N.K. Goel	Professor	Hydrology Department
43.	Shri R.N. Dubey	Asstt. Professor	Earthquake Engg. Deptt.,
44.	Prof. S.K. Tripathi	Professor & Head	WRDM
45.	Prof. Gopal Chauhan	Professor	WRDM
46.	Sh. Arun Kumar	Head & Member Secretary	AHEC

Prof. A.K. Pant, Coordinator, Uttaranchal Development Cell, IIT Roorkee welcomed the participants and gave a brief background of the Federation. He specially welcomed the Vice Chancellors of the Universities of the state who grace the meeting at the request of Shri M. Ramchandran.

After the introduction of the participants Prof. Prem Vrat highlighted the importance of water resources in the economy and development of the state. Besides power generation, Irrigation, and household uses, water sports and related tourism could be a great asset in his remarks.

Shri Ramchandran, emphasized the benefits of networking of expert and user organizations, which is being sought through this unique forum. He said that development of water resources would result in significant employment generation as about 3 persons per MW are directly employed in power projects besides indirect employment generation. For this there is need for building technical capacities within the state. For this a concerted effort is required at all levels from Engineering Colleges to ITIs and from universities to schools.

Dr. Natrajan outlined the efforts being made by Garhwal University in creating jobs oriented courses. Dr. R.C. Pant assured the support of Kumaon University in capacity building. He also emphasized the need for courses on ecotourism. Dr. Parag Diwan of Petroleum University mentioned that the university is evolving the jobs oriented courses related to energy sector. Prof. Shukla representing Pantnagar University offered the facilities of infrastructure and faculty in capacity building and preparation of syllabi. Shri K.S. Tyagi from Sanskrit Vishva Vidyala Hardwar informed that village level management programmes are organized by them.

Shri Awadh B. Giri of UJVNL mentioned the need for skill development of existing staff in power stations. He suggested an arrangement with neighbouring ITIs and Polytechnics for this purpose. The Academy of Administration, Nainital and State Engineering Academy, Kalagarh placed their excellent infrastructure for organising HRD programmes of all kinds.

Many related points concerning data related to water were raised by the participants. The state government was requested to help in release of restricted maps, discharge data of gauge rivers/streams and data for work related to utilization of water resources. It was also felt that different agencies should coordinate and avoid duplication in acquiring expensive data. Such data could be acquired in the name of Chief Secretary of the State Government. Since discharge is the basic data for any water related development work the state government was requested to invest in gauging the maximum number of streams as a future investment for effective and integrated and optimum development of water resources. The density of meteorological stations in the state is too meager.

It was also agreed that a common comprehensive GIS platform should be evolved. The efforts already made by AHEC, IIT Roorkee was appreciated and it was agreed this could be base for such an effort. The action items and targets as agreed in the meeting of Jan. 18, 2005 were presented and discussed as the agenda and has been taken up as follows:

1. **Release of Compendium of Expertise and Facilities:** Prof Prem Vrat released the expertise and facilities compendium and presented the first copy to Shri Ramchandran. Shri Arun Kumar briefly highlighted the contents and requested all members to update the contents and fill up the gaps so that a revised edition could be released in the next two months. It was appreciated that the AHEC, IIT Roorkee could bring out such compendium within the target date inspite of resource constraints.

2. **Setting up of the Corpus:** Shri Ramchandran informed that an amount of Rupees one crore is being provided by the GoU for setting up the corpus fund. The return on the investments of the corpus fund will be available for meeting establishment needs of the federation and will also enable it to take up some activities on its own. The corpus shall be built up further by charging some agreed amount from the user agencies for the services provided through the federation.
3. **Release of working funds from User Groups:** It had been agreed in the meeting under the chairman ship of Shri Ramchandran on 18<sup>th</sup> December, 2004 that user organizations under GoU will provide Rs. one lac. each for meeting the running expenses of the federation till money from investments of the corpus accrues to the federation. Shri M. C. Joshi, Director UREDA informed that their draft is ready. Jal Nigam, UJVNL, UPCL, and Jalagam Prabandhan assured that the funds would be released within the target date of 28<sup>th</sup> February, 2005. Shri Uniyal also volunteered to contribute from Uttaranchal Jal Sansthan, which was very much appreciated. THDC and NTPC were also requested to make their contribution towards establishment needs of the federation.
4. **Curriculum Development:** The IIT Roorkee had submitted a proposal for developing curriculum for all levels of technical manpower so that necessary competence is built within the state for fulfilling the skilled manpower needs of Hydropower and other water related projects. Shri Ramchandran asked the Director Technical Education to immediately provide the funds so that the activity could be initiated without delay. As a part of this the first workshop of Academics, User organizations, Administrators and Professionals is planned in April 2005 so that some syllabi could be finalized and summer schools for teachers of Engineering colleges and Diploma Polytechnics could be organized. This will, in turn, enable these institutions to immediately offer new specialized courses, within the existing programmes of respective institutions, pertaining to development of water resources immediately. These could be offered as electives or special courses during winter and summer vacations.
5. **Name for the Federation:** It was realized that this virtual centre of excellence needs a suitable name. Many names were floated notably by Shri N. Ravishanker, Secretary Energy and Irrigation. After a detailed discussion the name "Water for Welfare- an Uttaranchal Initiative" was adopted.

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