

**Training Program on**  
**“Hydro-met Network Design under National Hydrology Project”**

**29 June - 3 July 2015, HIPA, Shimla**

**Background:**

Under proposed National Hydrology Project, The Ministry of Water Resources (MOWR), New Delhi in collaboration with Himachal Pradesh Institute of Public Administration (HIPA), Shimla will conduct a 5 day Hydro-met design training course followed by field visits to various hydro-met stations (telemetry and non-telemetry) in Himachal Pradesh which have been installed by BBMB, Government of Himachal Pradesh and CWC.

The proposed training/workshop is the third in series and will be conducted by MOWR, HIPA, CWC, NIH, and World Bank experts. It will be hosted by Himachal Pradesh Institute of Public Administration (HIPA), Shimla, Himachal Pradesh. The training is supported by the World Bank.

**Objective:**

This course will provide participants practical training on meteorological instrumentation, ground water levels, water quality & sediments and discharge measurements etc.

The aim of this training program will be to equip the implementing agencies for design, procurement, installation and commissioning of hydrological information system.

Case studies will be used to illustrate the design of network, the optimal density of network, suitability and limitations of each type of sensor, the options available for telemetry network via GSM and satellite technologies, examples of field installations of sensors for various conditions, important considerations for inspection and maintenance of the system, the options for various types of reservoir monitoring systems, the SCADA systems for GATE operations.

**Dates:** 29 June – 3 July, 2015

**Venue:** Himachal Pradesh Institute of Public Administration (HIPA), Shimla, Himachal Pradesh

**Resource Persons:**

- Two experts from Central Water Commission
- Two Experts from National Institute of Hydrology
- Mr. J.K. Trivedi, Gujarat Water Resources Department
- Mr. R. K. Sharma, Irrigation and Water Ways Department West Bengal.
- Dr. Anish Kumar, The World Bank

**Target Group:**

The training is designed for engineers/scientists from central and state implementing agencies who will be responsible for Hydro-met implementation in the project. Each agency is required to nominate not more than two candidates while avoiding officers who has already attended training at Kolkata in April 2015. New agencies will be given preference. The preferred candidates

would be the officers involved in Data Monitoring, flood forecasting and Hydrological Information System.

**Participation and Registration:**

*The nomination of the officers fitting the target profile may directly register in the website latest by 20 June 2015. Please be informed that due to logistic limitations, the workshop can accommodate only 18 participants. Henceforth, the participants are advised to wait for the confirmation notification from the organizers before they start making their travel plan. The confirmation email will be sent out latest by 25 June 2015.*

There will be no registration fee, however participants will be responsible for making their own travel and accommodation while Government of Himachal Pradesh has kindly agreed to assist in arrangements. Kindly contact the below given Officials for further information. Visit [HP3.Indiawrm.org](http://HP3.Indiawrm.org) website for online registration.

**Contact Details:**

For any further queries, kindly contact:

Mr. Avanish Kant MOWR

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Dr. Anish Kumar, World Bank

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## Details Program

### Training Workshop on Hydro-met Network Design under National Hydrology Project Shimla, 29 June - 3 July 2015

Day & Date	Time	Details	Resource Persons	Halt
<b>Monday June 29, 2015</b>		Arrival of the participants, assemble at RT-DSS Center, BBMB, Chandigarh at 11 AM & visit to the facility. Chandigarh to Shimla at 2PM by bus (arranged by MOWR/WB) arrival Shimla at 6PM.		<b>Shimla (HIPA)</b>
<b>Tuesday June 30, 2015</b>		Training on Hydro met design		<b>Shimla (HIPA)</b>
<b>Wednesday July 01, 2015</b>		Modules for Hydro-met Instrument Selection, Specification and Installation. Shimla to Mandi at 2PM by bus arranged by (MOWR/WB)	<i>NIH/CWC/ /Gujarat/ West Bengal/ World Bank</i>	<b>Mandi, Training Institute of PHED</b>
<b>Thursday July 02, 2015</b>	Full Day	Field visit to various hydro-met network stations around Kullu, Pandoh Dam etc. Visit to AWS, Snow Gauge, Boc etc. ADCP functioning etc. by bus arranged by (MOWR/WB).		<b>Mandi, Training Institute of PHED</b>
<b>Friday July 03, 2015</b>		Field visit to various Hydro-met network stations around Kullu, visit to Bhakhra Dam. Visit to AWS, Snow Gauge, Boc etc. ADCP functioning etc. by bus arranged by (MOWR/WB).		