Training Course on

HYDROLOGICAL INVESTIGATION TECHNIQUES FOR WATER RESOURCES DEVELOPMENT & MANAGEMENT

(26-28 August 2012)

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National Institute of Hydrology

Training Course on
HYDROLOGICAL INVESTIGATION TECHNIQUES FOR WATER RESOURCES DEVELOPMENT & MANAGEMENT
(26-28 August 2012)

RESOURCE PERSONS

1. **Er. R. D. Singh**, Director, National Institute of Hydrology, Jalvighyan Bhawan, Roorkee- 247667 (Uttarakhand), E-mail:rds@nih.ernet.in

2. **Dr. C. K. Jain**, Scientist-F & Head, Environmental Hydrology Division, National Institute of Hydrology, Jalvighyan Bhawan, Roorkee- 247667 (Uttarakhand), E-mail: ckjain@nih.ernet.in

3. **Er. C. P. Kumar**, Scientist-F & Head, Hydrological Investigation Division, National Institute of Hydrology, Jalvighyan Bhawan, Roorkee- 247667 (Uttarakhand), E-mail: cpk@nih.ernet.in

4. **Dr. Sanjay K. Jain**, Scientist-F, Water Resources Systems Division, National Institute of Hydrology, Jalvighyan Bhawan, Roorkee- 247667 (Uttarakhand), E-mail: sjain@nih.ernet.in

5. **Dr. J. V. Tyagi**, Scientist-F, Surface Water Hydrology Division, National Institute of Hydrology, Jalvighyan Bhawan, Roorkee- 247667 (Uttarakhand), E-mail: tyagi@nih.ernet.in

6. **Dr. Sudhir Kumar**, Scientist-F, Hydrological Investigation Division, National Institute of Hydrology, Jalvighyan Bhawan, Roorkee- 247667 (Uttarakhand), E-mail: skumar@nih.ernet.in

7. **Dr. M. K. Goel**, Scientist-F, Water Resources Systems Division, National Institute of Hydrology, Jalvighyan Bhawan, Roorkee- 247667 (Uttarakhand), E-mail: mkg@nih.ernet.in

8. **Dr. A. K. Lohani**, Scientist-E2, Surface Water Hydrology Division, National Institute of Hydrology, Jalvighyan Bhawan, Roorkee- 247667 (Uttarakhand), E-mail: lohani@nih.ernet.in

9. **Dr. S. D. Khobragade**, Scientist-E1, Hydrological Investigation Division, National Institute of Hydrology, Jalvighyan Bhawan, Roorkee- 247667 (Uttarakhand), E-mail: suhas@nih.ernet.in

10. **Dr. Anupma Sharma**, Scientist-E1, Ground Water Hydrology Division, National Institute of Hydrology, Jalvighyan Bhawan, Roorkee- 247667 (Uttarakhand), E-mail: anupma@nih.ernet.in

11. **Dr. M. Someshwar Rao**, Scientist-E1, Hydrological Investigation Division, National Institute of Hydrology, Jalvighyan Bhawan, Roorkee- 247667 (Uttarakhand), E-mail: somesh@nih.ernet.in

12. **Dr. Surjeet Singh**, Scientist-E1, Ground Water Hydrology Division, National Institute of Hydrology, Jalvighyan Bhawan, Roorkee- 247667 (Uttarakhand), E-mail: surjeet@nih.ernet.in

13. **Dr. Manohar Arora**, Scientist-C, Surface Water Hydrology Division, National Institute of Hydrology, Jalvighyan Bhawan, Roorkee- 247667 (Uttarakhand), E-mail: arora@nih.ernet.in

Hydrological Investigation Techniques for Water Resource Development & Management at NIH, Roorkee under PDS

(August 27-30, 2012)

TRAINING SCHEDULE

Date/ Day	Time	Topic	Faculty
Day-1 27 August, 212 Monday	09:00-10:00 am	**Registration**	
	10:00-11:00 am	**Inaugural function/Tea**	
	11:00-11:15 am	**Tea break**	
	11:15-12:15 pm	Practicing hydrology-an overview	Er. R. D. Singh
	12:15-01:15 pm	Overview of project hydrology and data requirement	Dr. A. K. Lohani
	01:15-02:00 pm	**Lunch**	
	02:00-03:00 pm	Processing and analysis of precipitation data	Dr. Manohar Arora
	03:00-04:00 pm	Surface water data processing using SWDES	Dr. A. K. Lohani
	04:00-40:15 pm	**Tea break**	
	4.15-6.15 pm	Visit to Water Quality Lab	Dr. M. K. Sharma
Day-2 28 August, 212 Tuesday	09:00-10:00 am	Assessment of groundwater potential	Er. C. P. Kumar
	10:00-11:00 am	Groundwater data requirement and analysis	Er. C. P. Kumar
	11:00-11:15 am	**Tea break**	
	11:15-12:15 pm	Conjunctive use of surface water and groundwater resources-I	Dr. M. K. Goel
	12:15-01:15 pm	Conjunctive use of surface water and groundwater resources-II	Dr. M. K. Goel
	01:15-02:00 pm	**Lunch**	
	02:00-03:00 pm	Instruments and methods for hydro-meteorological observations	Dr. Manohar Arora
	03:00-04:00 pm	Instruments & methods for monitoring surface water and groundwater water system	Dr. Sudhir Kumar
	04:00-04:15 pm	**Tea break**	
	04:15-06:15 pm	**Field trip to Haridwar**	
Day-3 29 August, 212 Wednesday	09:00 -10:00 am	Techniques of soil moisture measurement	Dr. J. V. Tyagi
	10.00-11:00 am	Geophysical techniques for ground water exploration	Dr. Sudhir Kumar
	11:00-11:15 am	**Tea break**	
	11:15-12:15 pm	Water quality monitoring and assessment	Dr. C. K. Jain
	12:15-01:15 pm		
	01:15-02:00 pm	**Lunch**	
	02:00-03:00 pm	Environmental isotopes for hydrological investigations	Dr. M. S. Rao
	03:00-04:00 pm		
	04:00-04:15 pm	**Tea break**	
	04:15-06:15 pm	Visit to Nuclear Hydrology lab	Dr. M. S. Rao
Day-4 30 August, 212 Thursday	09:00-10:00 am	Application of remote sensing and GIS in Hydrological investigation	Dr. Sanjay K. Jain
	10:00-11:00 am	Conservation and management of lakes	Dr. S. D. Khobragade
	11:00-11:15 am	**Tea break**	
	11:15-12:15 pm	Concept and principles of watershed management	Dr. J. V. Tyagi
	12:15-01:15 pm	Groundwater development and management in coastal zones	Dr. Anupma Sharma
	01:15-02:00 pm	**Lunch**	
	02:00-03:00 pm	Impact of climate change on water resources	Dr. Surjeet Singh
	03:00-04:15 pm	**Panel Discussion**	
	04:15-06:15 pm	**Valedictory function**	

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