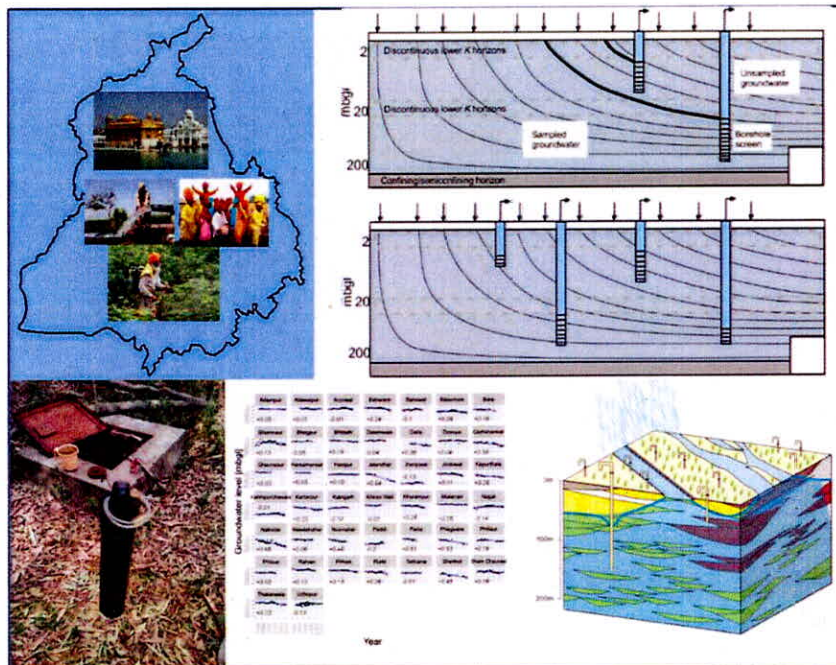


Training Course on Groundwater issues of Punjab with special emphasis on groundwater salinity

(July 16-18, 2019)

at

Forest Complex, Mohali



Organized by:



National Institute of Hydrology
 (Under NHP)
 Roorkee - 247 667
 (Uttarakhand)

CONTENTS

Section No.	Description	Resource Person	Page No.
	Acknowledgement		
	Preface		
L1	Challenges and issues of depleting groundwater and agricultural scenario in Punjab state	Rajesh Vasisth	1
L2	Application of RS & GIS in salinity assessment	Sanjay Kumar Jain	4
L3	Concepts of Groundwater hydrology	Sumant Kumar	19
L4	Hydrological data processing and soft computing techniques in GW studies	Anil Kumar Lohani	26
L5	Groundwater salinity	Gopal Krishan	45
L6	Hydrogeology and salinity issues in Punjab	Anoop Nagar, ML Angurala, Rakesh Rana	48
L7	Groundwater recharge potential in Punjab	SK Saigal	61
L8	Emerging water insecurity in Punjab	RS Ghumman	63
L9	Assessment of groundwater potential	CP Kumar	69
L10	Measures of salinity remediation	Gopal Krishan	100
L11	Uses of environmental tracer in field investigations: examples from Punjab studies	Gopal Krishan	102
L12	Groundwater data requirement and analysis	CP Kumar	113
L13	GW level fluctuations: A Case Study of Punjab	Gopal Krishan	131
T1	Demonstration/Tutorial on Remote Sensing	Sanjay Kumar Jain	136
T2	Aquifer parameter estimation	Sumant Kumar	137
T3	Salinity experiment demonstration	Gopal Krishan	144
T4	GW measurement techniques and data analysis – practical demo	Gopal Krishan	145
T5	Groundwater balance	CP Kumar	148