

P R E F A C E

In July 1987, an agreement was signed between the Commission of the European Communities (CEC) and the Republic of India for transfer of SHE Model to National Institute of Hydrology for application to Indian basins. This Model has been jointly developed by the Danish Hydraulic Institute, Denmark; SOGREAH, France; and Department of Civil Engineering, University of Newcastle upon Tyne, U.K. The project envisages the training of Scientists of the Institute at DHI, Denmark, and carry out simulation studies in basins in India, visit of consultants under the project to India and upgrading of the NIH Computer System to implement SHE Model.

The simulation studies have been conducted for 6 sub-basins of Narmada River system by collection of extensive data from the State and Central Government organisations. It is also proposed to carry out studies on return flow from irrigation in two commands - one in Madhya Pradesh and other in Karnataka, and study the effect of land use changes on hydrological regime.

The present workshop has the objective of acquainting the officers of various organisations with the SHE Model. its potential and results of the simulation studies conducted in the sub-basins of Narmada. The Consultants and the Scientists of NIH will interact with the participants of the workshop to make them conversant with the potential of SHE Model, its limitations and data requirement for handling problems of the river systems of the size of basins under Indian situations.

I am sure that this interaction between the Consultants, Scientists of the Institute and the participants of the workshop would make it possible for various organisations to reasonably understand the capabilities of the SHE Model system and the type of studies that could be conducted in future.

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