

PREFACE

The ultimate goal of water resources planning, development and management is to solve all water related problems and to serve the public well-being to ensure that desired quality of water will be available. Some of the water related issues and problems, the country is likely to tackle are: the inter basin water transfer, artificial recharge, drinking water problem, safeguarding coastal aquifers from saline intrusion, control of surface and groundwater pollution, water supply during drought situation, watershed management and flood control. Adequate and accurate hydrologic data are of paramount importance for solving all these hydrological problems and conducting hydrological research. The availability of high speed computers have provided excellent capabilities for quality control, storage and retrieval of hydrological data.

It is against this background, the World Bank has funded the Hydrology Project in India and has entrusted with the responsibility of training the concerned Central and State organisations for use of computers for handling the large volume and variety of data that is expected to be generated by the improved network of automated and semi-automated observation sites for hydrological parameters. This would, naturally, require appropriate comprehensive and versatile computer software.

The Scientists of National Institute of Hydrology, Roorkee, which have a wide range of experience in the use of advance software have prepared the course material for the training course on ***SOFTWARE FOR GROUND WATER DATA MANAGEMENT*** in a modular structure with relevant examples wherever necessary. In this course, emphasis has been laid on the application of computer softwares for the management of ground water data pertaining to hydrogeological parameters estimation, groundwater assessment and groundwater modelling. This material would not only be useful for the training course but would also be a good reference material for practising hydrologists and engineers.

It is expected that the participants of this training course would not only make the best use of this course, but also would disseminate the subject matter among other interested colleagues in their respective organisations.

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