

Hydrological Year Book of Mayurakshi Basin 1976-77

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ABSTRACT

Hydrological and hydro-meteorological data are the prime input for planning and management of all water resources projects. In India hydrological and hydro-meteorological data are being collected by various central government organisations such as India Meteorological Department (I .M.D.), Central Water Commission (C.W .C.), Central Ground Water Board (C.G .W.B.) etc. , some other state government organisations and research institutions are also collecting the hydrological data as per their requirement. The data collected by such organisations are generally stored in registers which are not very easily assessable. At the same time a planner or researcher lost their valuable time in collecting such data from various organisations. Therefore, to overcome from such difficulties, National Institute of Hydrology has taken up a task for the preparation of Model Hydrological Year Books of various basins of the country.

The main objective of hydrological year book is to produce all available hydrological data of a basin such as daily rainfall, hourly rainfall, daily temperature, wind speed, vapour pressure, evaporation, daily gauge and discharge, ground water level etc. collected by various organisations in such a form so that these data can be used directly by managers, planners and scientists. The Ganga Plains Regional Centre of National Institute of Hydrology has taken up the task jointly with Central Design Office, Irrigation & Waterways Department, West Bengal to prepare Hydrological Year Book of Mayurakshi Basin. The Mayurakshi river has its origin on the slopes of Tirhut hills about 43 km. upstream from Dumka in Bihar. Total catchment area of the river up to Tilpara barrage is 3213 sq. km.. Hydrological year book of Mayurakshi basin includes physiographic and topographical informations, agroclimatology, water resources development in the basin, daily rainfall data of twenty four stations, hourly rain fall data of Sriniketan, daily temperature data of Suri and Sriniketan, daily vapour pressure and evaporation of Sriniketan for the year 1976-77. It also includes monthly ground water level of seventeen stations in the basin.