

**GOVERNMENT OF INDIA  
WATER RESOURCES  
LOK SABHA**

UNSTARRED QUESTION NO:3616

ANSWERED ON:01.12.2010

HYDROLOGY PROJECT PHASE-II

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**Will the Minister of WATER RESOURCES be pleased to state:**

(a) the amount of funds received/loans sanctioned from the International Bank for Reconstruction and Development (IBRD) for Hydrology Project Phase-II during each of the last three years and the current year;

(b) the terms of the said project; and

(c) the achievements made thereunder so far?

**Answer**

THE MINISTER OF STATE IN THE MINISTRY OF WATER RESOURCES(SHRI VINCENT H. PALA)

(a) The loan agreement for Hydrology Project Phase-II (HP-II) was signed on 19th January, 2006. The amount of funds received/loans sanctioned under the International Bank for Reconstruction and Development (IBRD) assistance for HP-II (LOAN NUMBER 4749-IN) is as below:

(Amount in US \$ Million)

Funds received/loans sanctioned under HP-II

up to 2007-08 during2008-09 during2009-10 during 2010-11 (up to October 2010)

13.79 3.86 6.77 8.04

(b) The Project is being implemented by 8 Central Agencies and 13 States. The external assistance received from the World Bank is utilized by the concerned Central and State Implementing Agencies in accordance with the standard terms and conditions laid down for the Loans/Credits from World Bank.

(c) The achievements made so far under Hydrology Project Phase-II are given in Annexure-I.

Annexure-I

Achievements made under Hydrology Project Phase- II so far

For successful implementation of the project, a Project Coordination Secretariat (PCS) under Ministry of Water Resources was set up, which is responsible for monitoring and coordination of the project at national level. Consultants have been appointed by PCS for providing technical and management support to PCS and all Implementing Agencies.

(1) Decision Support System (Planning) [DSS (Planning)] component is being implemented by National Institute of Hydrology (NIH) for development of Decision Support System (Planning) for efficient planning and management of water resources in the river basins in 9 States, which were part of Hydrology Project-I (HP-I). Consultants have been appointed to assist NIH in implementing this component. So far (a) Inception Report, (b) Needs Assessment Report, (c) Model Conceptualization Report and (d) Database Development Report have been prepared. The development of Generic Model for Upper Bhima Basin is nearing completion. The States have collected most of the data and made it available for development of customized models for the selected basins in their States.

(2) Decision Support System (Real Time) [DSS (Real Time)] is being implemented by Bhakra Beas Management Board (BBMB) for development of Decision Support System (Real Time) for BBMB. This will be used as decision support by BBMB for reservoir releases and running hydropower turbines, operation of spillway gates, issue of flood warnings and deployment of areas evacuation measures by concerned authorities on real time basis. Consultants have been appointed to assist BBMB in implementing this component. So far (a) Needs Assessment Report and (b) Report on specifications for Database, Hardware, Modeling Software and operating software, and Data Acquisition System (DAS) equipment have been prepared.

(3) Hydrologic Design Aids (Surface Water) [HDA (SW)] is being implemented by Central Water Commission (CWC) for development of Design Aids for surface water resources. This will help in standardizing hydrological design practices (being used by States and Central Organizations) in the form of Hydrological Design Aids by using 'State of the Art' knowledge in this field. So far State-of-Art Report on the Hydrological Design Aids has been prepared.

(4) The States and Central Government agencies are in the process of procurement of various equipments on State specific needs under different components of the Project. The progress made by participating agencies under HP-II on some of the key activities is as given below:

i). For establishment of HIS in the new States, which were not part of HP-I, namely Himachal Pradesh, Punjab, Goa and Puducherry, network of Hydro-meteorological and Water Quality Sites have been finalized.

ii). Construction of State Data Centre buildings has been completed in Himachal Pradesh & Goa, and the same is under progress in Puducherry.

iii). Construction work of 5 Divisional Data Centre building and 12 Sub-divisional Data Centre buildings and 2 laboratory buildings are under progress in Himachal Pradesh.

iv). Various Data Centres, Hydro-meteorological and Water Quality network established by HP-I States are being up-graded/optimized through procurement of hardware, software and modernization of Data Centres.

v). A total of forty (40) Purpose Driven Studies (PDS) have been taken up by the Implementing Agencies in water resources sector as pilot projects, which may be replicated by other Implementing Agencies as and when required.

vi). All the States have formed the Hydrological Data User Groups (HDUG), which serve as a common platform for discussions between data users and data providers as per needs of users (Stakeholders). Workshops and trainings have been conducted to provide guidance to States in awareness raising about the hydrological data availability and use.