

Both these projects have been implemented and are operational.

In February 1996, the Government of India and Government of Nepal signed the Mahakali Treaty. The center piece of the Treaty is implementation of Pancheshwar Multipurpose Project on Mahakali river (Sharda in India). The implementation of the project is under discussion between the two countries.

Quantity of water stored in reservoirs

†766. SHRI RAMCHANDRA PRASAD SINGH:

SHRI RAM JETHMALANI:

Will the Minister of WATER RESOURCES be pleased to state:

- (a) whether it is a fact that rainfall during the last monsoon is estimated to be three per cent more in the country;
- (b) if so, the quantum of water contributed by monsoon rains to the availability of water during the year 2011, 2010 and 2009 respectively;
- (c) the quantity of water stored in water reservoirs during the above said period; and
- (d) whether it is also a fact that due to lack of water harvesting system, water availability is unable to meet the consumption demand?

THE MINISTER OF STATE IN THE MINISTRY OF WATER RESOURCES (SHRI VINCENT PALA): (a) As per the information available with Indian Meteorological Department, the rainfall during monsoon, 2011 (June to September) in the country was 101% of its long period average.

(b) and (c) The average rainfall during South west monsoon (June to September) in 2009, 2010 and 2011 were 698.2 mm, 911.1 mm and 899.9 mm respectively. The geographical area of the country is 3287900 sq km. Thus the volume of water contributed by the rainfall during these years (monsoon period) were 2295.61, 2995.60 and 2958.78 Billion Cubic Metre (BCM) respectively.

Central Water Commission (CWC) monitors storage status of 81 important reservoirs spread across the country. The total live storage capacity of these 81 reservoirs is 151.768 BCM. The live storages available in these reservoirs at the beginning of monsoon on 1st June and at the end of monsoon on 30th September during 2009, 2010 and 2011 is given in the following table.

†Original notice of the question was received in Hindi.

Period	1st June 2009	30th Sept. 2009	1st June, 2010	30th Sept., 2010	1st June, 2011	30th Sept., 2011
Cumulative live Storage of 81 reservoirs (BCM)	17.424	89.835	21.214	115.227	36.235	131.076
% storage w.r.t. total live storage capacity	11.5	59.2	14.0	75.9	23.9	86

(d) As per the information available from Indian Meteorological Department, the average normal rainfall in India is taken to be about 1196 mm which corresponds to annual precipitation of about 4000 BCM including snowfall. Nearly 75% of this i.e 3000 BCM occurs during the monsoon season confined to 3 to 4 months (June to September) in a year. After accounting for the natural process of evaporation, evapo-transpiration, use by natural vegetation, rainfed agriculture etc., the average annual water availability in the country is estimated as 1869 BCM. It is estimated that owing to topographic, hydrological and other constraints, the utilizable water is 1123 BCM, comprising of 690 BCM of surface water and 433 BCM from ground water resources. The National Commission for Integrated Water Resources Development (NCIWRD) in its report has projected total storage capacity requirement of about 458 BCM.

As per a tentative assessment made by the Central Water Commission, the live storage capacity created in the country is 225 BCM. Apart from it, projects with live storage capacity of 64 BCM are under construction and 108 BCM are under consideration for construction by the various State Governments.

Availability of natural water

†767. SHRI RAM JETHMALANI:

SHRI RAMCHANDRA PRASAD SINGH:

Will the Minister of WATER RESOURCES be pleased to state:

(a) whether it is a fact that, in view of existing situation of water availability in the country, a proposal to implement 'rationing' of water in the country has been moved by the Planning Commission;

(b) if so, the details thereof;

†Original notice of the question was received in Hindi.