

## GOVERNMENT OF INDIA

## MINISTRY OF WATER RESOURCES, RIVER DEVELOPMENT AND GANAGA REJUVENATION

## LOK SABHA

UNSTARRED QUESTION NO: 2726

ANSWERED ON: 27.12.2018

## Per Capita Availability of Water

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ANANDRAO ADSUL

PRITAM GOPINATH MUNDE

Will the Minister of WATER RESOURCES, RIVER DEVELOPMENT AND GANAGA REJUVENATION be pleased to state:-

- (a) the per capita availability of water in the country at present;
- (b) whether the average annual per capita availability of water in the country has come down drastically as per the official data of the Government and if so, the details thereof;
- (c) whether the Government has conducted any study regarding the causes of this problem and if so, the details and the outcome thereof;
- (d) whether the Government is aware that 2/3 of the world population could be under stress due to water scarcity by 2025 as per various reports and if so, the details thereof;
- (e) whether the Government has made any study from the Indian point of view in this regard and if so, the outcome thereof; and
- (f) the measures taken or being taken by the Government in this regard?

**ANSWER**

THE MINISTER OF STATE FOR WATER RESOURCES, RIVER DEVELOPMENT AND GANGA REJUVENATION & PARLIAMENTARY AFFAIRS

(SHRI ARJUN RAM MEGHWAL)

(a) to (c) The average annual water availability of any region or country is largely dependent upon hydro-meteorological and geological factors and is generally constant. The average annual water potential in the country has been assessed as 1869 billion cubic meters (BCM). Due to topographical and other factors, the utilizable water availability is limited to 1137 BCM per annum, comprising of 690 BCM of surface water and 447 BCM of replenishable ground water.

However, water availability per person is dependent on population of the country and for India, per capita water availability in the country is reducing progressively due to increase in population. The average annual per capita water availability in the years 2001 and 2011 was assessed as 1816 cubic meters and 1545 cubic meters respectively which may reduce further to 1340 and 1140 in the years 2025 and 2050 respectively. Annual per-capita water availability of less than 1700 cubic meters is considered as water stressed condition, whereas annual per-capita water availability below 1000 cubic meters is considered as a water scarcity condition.

(d) & (e) As per the United Nations Report, "Coping with Water Scarcity – Challenge of the twenty-first century", two-thirds of the world population could be under conditions of water stress by 2025.

National Commission on Integrated Water Resources Development (NCIWRD) have mentioned in their report that taking into account the water availability and the requirements in India, which has been assessed as 843 BCM in the year 2025 and 1180 BCM in 2050, there is no need to take an alarmist view. However, due to high temporal and spatial variation of precipitation, the water availability of many regions of the country is much below the national average and can be considered as water stressed / water scarce.

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(f) Water being a State subject, steps for augmentation, conservation and efficient management of water resources are primarily undertaken by the respective State Governments. In order to supplement the efforts of the State Governments, Central Government provides technical and financial assistance to them through various schemes and programmes. Central Government has taken various steps to improve availability of water in the country.

Central Government has formulated a National Perspective Plan (NPP) for Water Resources Development which envisages transfer of water from water surplus basins to water deficit basins to improve availability of water.

Central Government has launched Pradhan Mantri Krishi Sinchayee Yojana (PMKSY) in 2015-16 which aims to enhance physical access of water on farm and expand cultivable area under assured irrigation, improve farm water use efficiency, introduce sustainable water conservation practices, etc. During 2016-17, 99 on-going Major/Medium irrigation projects under PMKSY-Accelerated Irrigation Benefits Programme (AIBP) having ultimate irrigation potential of 76.03 lakh hectares have been prioritized in consultation with States, for completion in phases up to December, 2019.

Central Government has formulated National Water Policy (NWP), 2012 which inter-alia recommends conservation, promotion and protection of water and highlights the need for augmenting the availability of water through rain water harvesting, direct use of rainfall and other management measures. The NWP, 2012 has been sent to all States/ Union Territories and the concerned Central Ministries for appropriate action.

Model Building Bye Laws 2016 circulated by Ministry of Housing and Urban Affairs include provisions for Rainwater Harvesting. As per these provisions, water harvesting through storing water runoff including rain water in all new buildings on plots of 100 sq. m and above will be mandatory. Further, all building having a minimum discharge of 10,000 litre and above per day shall have mandatory waste water recycling systems. Recycled water shall be used for horticultural purposes.

Some other initiatives/measures taken by the Central Government for conservation and improvement of availability of ground water are as under:

- Central Ground Water Board (CGWB) has prepared a conceptual document titled “Master Plan for Artificial Recharge to Ground Water in India” during the year 2013 envisaging construction of 1.11 crore Rainwater Harvesting and Artificial Recharge structures in urban and rural areas. The Master Plan has been circulated to all State Governments for implementation.
- CGWB has taken up Aquifer Mapping and Management (NAQUIM) programme from the XII Plan, under the scheme of Ground Water Management and Regulation. Aquifer Mapping is aimed at delineating aquifer disposition and their characterization for preparation of aquifer/area specific ground water management plans.
- The Ministry has circulated a Model Bill to all the States/UTs to enable them to enact suitable ground water legislation for regulation of its development, which includes provision of rain water harvesting. So far, 15 States/UTs have adopted and implemented the ground water legislation on the lines of Model Bill.
- Central Ground Water Authority (CGWA) has been constituted under Section 3 (3) of the “Environment (Protection) Act, 1986” for the purpose of regulation and control of ground water development and management in the Country. So far, CGWA has notified 162 areas in the country where ground water withdrawal through new abstraction structures is not permitted, except for drinking and domestic uses.

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