

GOVERNMENT OF INDIA
MINISTRY OF JAL SHAKTI

DEPARTMENT OF WATER RESOURCES, RIVER DEVELOPMENT & GANGA REJUVENATION

LOK SABHA

UNSTARRED QUESTION NO. 1028

ANSWERED ON 08.02.2024

PER CAPITA WASTAGE OF WATER

†1028. SHRIMATI KESHARI DEVI PATEL

Will the Minister of **JAL SHAKTI** be pleased to state:

- (a) whether any assessment has been carried out by the Government to assess the per capita wastage of water in the country;
- (b) if so, the estimated volume of the per capita availability of water (in cubic meters) left in the country;
- (c) whether any assessment has been carried out by the Government to assess the shortage of water in the country and if so, the details thereof, Statewise;
- (d) the names of districts of the States which are deeply affected by water crisis; and
- (e) the details of the measures taken/proposed to be taken in the future to overcome the shortage of water in such districts of States where water crisis still persists?

ANSWER

THE MINISTER OF STATE FOR JAL SHAKTI

(SHRI BISHWESWAR TUDU)

(a) & (b) Based on the study titled “Reassessment of Water Availability in India using Space Inputs, 2019” conducted by Central Water Commission, the average annual precipitation is estimated as 3880 Billion Cubic Meter (BCM) in the country. After accounting for the natural processes evaporation etc, the average annual water availability in the country is assessed as 1999.20 BCM. The assessment of available water has been made river basin-wise. Due to topographical, hydrological and other constraints, the utilizable water availability is limited to 1139 BCM per annum comprising 690 BCM of surface water and 449 BCM of replenishable ground water.

The average annual water availability of any region or country is largely dependent upon hydro-meteorological and geological factors, however, water availability per person is dependent on population of a country. The per capita water availability in the country is reducing due to increase in population. Based on the study titled “Reassessment of Water Availability in India using Space Inputs, 2019” conducted by Central Water Commission, the average annual per capita water availability for year 2021 and 2031 has been assessed as 1486 cubic meter and 1367 cubic meter respectively.

(c) & (d) Assessment of Dynamic Ground Water Resources of each State/UT is being carried out jointly by Central Ground Water Board and State Nodal/Ground Water Department annually. As per the Ground Water Resource Assessment report for the year 2023, the total annual groundwater recharge in the country has been assessed as 449.08 billion cubic metre (BCM). Keeping an allocation for natural discharge, the annual extractable ground water resource has been assessed as 407.21 BCM. The annual groundwater extraction is 241.34 BCM. The average stage of groundwater extraction i.e. the ratio of ‘Annual Ground Water Extraction’

with respect to 'Annual Extractable Ground Water Resource,' for the country as a whole works out to be about 59.26 %.

Based on the stage of extraction, the assessment units are categorized as Safe (≤ 70 %), Semi-Critical (>70 % and ≤ 90 %), Critical (>90 % and ≤ 100 %) and Over-Exploited (>100 %). Out of the total 6553 assessment units in the country, 736 units (11.23%) have been categorized as 'Over-exploited' ,199 units (3.04 %) as 'Critical', 698 units (10.65 %) as 'Semi-critical' and 4793 units (73.14 %) as 'Safe' units and 127 units (1.94%) as 'saline'.

Names of the districts in which assessment units are falling under the Over-exploited, Critical and Semi-critical (OCS) categories is provided in **Annexure**.

(e) 'Water' being a State subject, steps for augmentation, conservation and efficient management of water resources which positively impact over the issue of per capita water availability 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 Ground Water Board (CGWB) has completed the National Aquifer Mapping (NAQUIM) Project in the entire mappable area of about 25 Lakh sq. km. The Aquifer maps and management plans have been prepared and shared with the respective State agencies for implementation. The management plans include various water conservation measures through recharge structures.

Government of India, in partnership with State, is implementing Jal Jeevan Mission (JJM) to make provision of tap water supply to every rural household of the country by 2024.

Government of India has launched AMRUT 2.0 on 1st October 2021, covering all the statutory towns of the country to ensure universal coverage of water supply & make cities 'water secure'.

To ensure optimum utilization of water, Government of India has been implementing Pradhan Mantri Krishi Sinchayee Yojna (PMKSY) from 2015-16 onwards. Under PMKSY-Accelerated Irrigation Benefit Programme (AIBP), 99 ongoing major/medium irrigation projects and 7 phases were prioritized during 2016-17, in consultation with States, out of which AIBP works of 58 prioritized projects have been reported to be completed as on date. The extension of PMKSY for the period 2021-22 to 2025-26 has been approved by Government of India, with an overall outlay of Rs.93,068.56 crore.

The Command Area Development and Water Management (CADWM) Programme has been brought under PMKSY - Har Khet Ko Pani from 2015-16 onwards. The main objective of taking up CAD works is to enhance utilisation of irrigation potential created and improve agriculture production on a sustainable basis through Participatory Irrigation Management (PIM).

The Bureau of Water Use Efficiency (BWUE) has been set up for promotion, regulation and control of efficient use of water in irrigation, industrial and domestic sector. The Bureau will be a facilitator for promotion of improving water use efficiency across various sectors namely irrigation, drinking water supply, power generation, industries, etc. in the country.

"Sahi Fasal" campaign was launched to nudge farmers in the water stressed areas to grow crops which are not water intensive but use water very efficiently; and are economically remunerative; are healthy and nutritious; suited to the agro-climatic-hydro characteristics of the area; and are environmentally friendly.

The Mission Amrit Sarovar was launched on National Panchayati Raj Day on 24th April 2022 as a part of celebration of Azadi ka Amrit Mahotsav with an objective to conserve water for future. The Mission is aimed at developing and rejuvenating 75 water bodies in each district of the country.

Jal Shakti Abhiyan: Catch the Rain” (JSA: CTR) - 2023 campaign, the fourth in the series of JSAs, was launched by Hon'ble President on 04.03.2023 in all districts (rural as well as urban areas) across the country for implementation from 04 March 2023 to 30 November 2023 - the pre-monsoon and monsoon period. The campaign was implemented across the country with the main theme "Source Sustainability for Drinking Water. The focused interventions of the campaign include (1) water conservation and rainwater harvesting; (2) enumerating, geo-tagging & making inventory of all water bodies; preparation of scientific plans for water conservation based on it; (3) Setting up of Jal Shakti Kendras in all districts; (4) intensive afforestation; and (5) awareness generation.

The other important steps taken by the Central Government to control water depletion and promote rain water harvesting/conservation are available at the URL: <https://cdnbbsr.s3waas.gov.in/s3a70dc40477bc2adceef4d2c90f47eb82/uploads/2023/02/2023021742.pdf>

ANNEXURE REFERRED TO IN REPLY TO PART (c) & (d) OF UNSTARRED QUESTION NO. 1028 TO BE ANSWERED IN LOK SABHA ON 08.02.2024 REGARDING “PER CAPITA WASTAGE OF WATER”.

District wise number of assessment units falling under the OCS category in different States/UTs

	Number of assessment units in the district falling under OCS Category				
	Name of District	Over-Exploited	Critical	Semi-Critical	Total
ANDHRA PRADESH	ANANTHAPURAMU			1	1
	ANNAMAYYA			2	2
	CHITTOOR			7	7
	EAST GODAVARI			1	1
	PALNADU	1	1		2
	PRAKASAM	3		2	5
	SRI SATHYA SAI	4	1	3	8
	SRIKAKULAM	1	1	1	3
	Y.S.R KADAPA	1		1	2
ASSAM	KAMRUP (M) URBAN			1	1
BIHAR	BEGUSARAI			4	4
	BHOJPUR			4	4
	GAYA			4	4
	JEHANABAD	2		3	5
	KAIMUR			1	1
	MUZAFFARPUR	1	1	7	9
	NALANDA	1	1	10	12
	NAWADA			5	5
	PATNA	1	1	6	8
	ROHTAS			2	2
	SAMASTIPUR	1	1	5	7
	SHEIKHPURA		1		1
	VAISHALI	2	2	2	6
CHANDIGARH	CHANDIGARH			1	1
CHHATTISGARH	BALOD		1	2	3
	BEMETARA		3	1	4
	BILASPUR			2	2
	DHAMTARI			2	2
	DURG			2	2
	GARIABAND			1	1
	KABIRDHAM			1	1
	KANKER			1	1
	KHAIRAGARH- CHHUIKHADAN_GANDAI			1	1
	KORBA			1	1
	MAHASAMUND			1	1
	RAIGARH			2	2
	RAIPUR		1		1
	RAJNANDGAON			3	3
	SARANGARH-BILAIRAGH			1	1
SURAJPUR			1	1	
DADRA & NAGAR HAVELI and DAMAN & DIU	DADRA AND NAGAR HAVELI	1			1
	DAMAN	1			1
	DIU	1			1

DELHI	CENTRAL	1	1		2
	EAST		3		3
	NEW DELHI	3			3
	NORTH	1	1	1	3
	NORTH EAST	2		1	3
	NORTH WEST			1	1
	SHAHDARA	2	1		3
	SOUTH	2	1		3
	SOUTH EAST		3		3
	SOUTH WEST	1	1		2
	WEST	1	1	1	3
GUJARAT	AHMEDABAD	1	2	1	4
	AMRELI			1	1
	BANASKANTHA	8		1	9
	GANDHINAGAR	2		2	4
	KACHCHH	2	1		3
	MAHESANA	6	1	3	10
	NARMADA			1	1
	PATAN	2	1	1	4
	RAJKOT		1	4	5
	SABARKANTHA	1		3	4
	SURAT	1			1
	SURENDRANAGAR			1	1
VADODARA		2	2	4	
HARYANA	AMBALA	3	1	2	6
	BHIWANI	4			4
	CHARKHI DADRI	2			2
	FARIDABAD	4			4
	FATEHABAD	5	2		7
	GURGAON	5			5
	HISAR	1	1	1	3
	JIND	5		1	6
	KAITHAL	7			7
	KARNAL	7	1		8
	KURUKSHETRA	7			7
	MAHENDRAGARH	6	2		8
	MEWAT	2	1	1	4
	PALWAL	2	1	1	4
	PANCHKULA		1		1
	PANIPAT	6			6
	REWARI	6	1		7
	SIRSA	6		1	7
SONIPAT	5			5	
YAMUNA NAGAR	5		2	7	
JAMMU AND KASHMIR	SRINAGAR URBAN			1	1
JHARKHAND	BOKARO	1			1
	DEOGHAR			3	3
	DHANBAD	1	2	2	5
	EAST SINGHBHUM	2			2
	GARHWA			1	1
	GIRIDIH			1	1
	HAZARIBAGH			1	1
	KODERMA		1	1	2

	RAMGARH	1	1		2
	RANCHI		2	2	4
KARNATAKA	BAGALKOT	1	1	5	7
	BELAGAVI	1	2	5	8
	BENGALURU (RURAL)	4			4
	BENGALURU (URBAN)	6			6
	BIDAR			2	2
	CHAMARAJANAGARA	1	1	3	5
	CHIKKABALLAPURA	6			6
	CHIKKAMAGALURU	2			2
	CHITRADURGA	5			5
	DAVANAGERE	2	1		3
	GADAG	1	1	2	4
	HASSAN	1	1		2
	HAVERI			3	3
	KALBURGI			1	1
	KOLARA	6			6
	KOPPAL		1	2	3
	MANDYA			1	1
	RAICHUR			1	1
	RAMANAGARA	1	2	2	5
	TUMAKURU	5	1	1	7
	VIJAYANAGARA	2	1	1	4
VIJAYAPURA			1	1	
YADGIR			2	2	
KERALA	IDUKKI			2	2
	KANNUR			3	3
	KASARGOD		1	1	2
	KOLLAM			2	2
	KOZHIKKODE			3	3
	MALAPPURAM			8	8
	PALAKKAD		2	2	4
	THIRUVANANTHAPURAM			6	6
	THRISSUR			3	3
LADAKH	LEH			6	6
LAKSHADWEEP	LAKSHADWEEP			1	1
MADHYA PRADESH	AGAR MALWA	2		1	3
	ANUPPUR			1	1
	ASHOKNAGAR			2	2
	BARWANI	1		1	2
	BETUL			2	2
	BHOPAL			3	3
	BURHANPUR			1	1
	CHHATARPUR			4	4
	CHHINDWARA		1	2	3
	DAMOH			1	1
	DEWAS	2		1	3
	DHAR	3	1		4
	GWALIOR			1	1
	HOSHANGABAD			1	1
	INDORE	3	1	1	5
	JABALPUR			1	1
	JHABUA			1	1
KHANDWA			1	1	

	KHARGONE			1	1
	MANDSAUR	2		3	5
	NARSINGHPUR			1	1
	NEEMUCH	2		1	3
	NIWARI			1	1
	RAISEN			1	1
	RAJGARH	1	1	4	6
	RATLAM	4		2	6
	REWA			1	1
	SATNA			4	4
	SEHORE		1		1
	SHAJAPUR	3		1	4
	SHEOPUR			1	1
	SHIVPURI			5	5
	TIKAMGARH			4	4
	UJJAIN	3		3	6
	VIDISHA			2	2
MAHARASHTRA	AHMEDNAGAR	1	4	5	10
	AKOLA			1	1
	AMRAVATI	3	1	3	7
	AURANGABAD			7	7
	BULDHANA	2		7	9
	JALGAON	2		10	12
	LATUR			1	1
	NAGPUR			1	1
	NASHIK		3	3	6
	OSMANABAD			2	2
	PUNE		1	7	8
	SANGLI			1	1
	SATARA			2	2
	SOLAPUR	1		7	8
ODISHA	ANGUL			1	1
	BALASORE			1	1
	JAJPUR			1	1
	JHARSUGUDA			1	1
	KHURDA			3	3
	NAYAGARH			1	1
	NUAPADA			1	1
PUDUCHERRY	PUDUCHERRY	1		3	4
PUNJAB	AMRITSAR	10			10
	BARNALA	3			3
	BATHINDA	5	1	1	7
	FARIDKOT	3			3
	FATEHGARH SAHIB	5			5
	FAZILKA	1		1	2
	FIROZPUR	4		2	6
	GURDASPUR	9		1	10
	HOSHIARPUR	6		3	9
	JALANDHAR	12			12
	KAPURTHALA	5			5
	LUDHIANA	14			14
	MALERKOTLA	2			2
	MANSA	2		1	3
MOGA	5			5	

	PATHANKOT			2	2
	PATIALA	9			9
	RUPNAGAR	2		1	3
	SANGRUR	8			8
	SAS NAGAR	1	1	1	3
	SBS NAGAR	3	1		4
	TARN TARAN	8			8
RAJASTHAN	AJMER	10			10
	ALWAR	14			14
	BANSWARA			5	5
	BARAN	4	2	1	7
	BARMER	14		2	16
	BHARATPUR	10			10
	BHILWARA	12			12
	BIKANER	3		1	4
	BUNDI	3		1	4
	CHITTAURGARH	11			11
	CHURU	5			5
	DAUSA	6			6
	DHAULPUR	5			5
	DUNGARPUR			2	2
	HANUMANGARH			1	1
	JAIPUR	16			16
	JAISALMER	4			4
	JALOR	7	1		8
	JHALAWAR	5	2		7
	JHUNJHUNU	8			8
	JODHPUR	15	1	1	17
	KARAULI	5		1	6
	KOTA	4		2	6
	NAGAUR	13	1		14
	PALI	8		1	9
	PRATAPGARH	3	1		4
	RAJSAMAND	5	2		7
	SAWAI MADHOPUR	6			6
	SIKAR	8		1	9
	SIROHI	3	1	1	5
TONK	3	1	1	5	
UDAIPUR	6	11	1	18	
TAMILNADU	ARIYALUR			1	1
	CHENGALPATTU			3	3
	CHENNAI	13		1	14
	COIMBATORE	7	2	1	10
	CUDDALORE	3	2		5
	DHARMAPURI	4	1	1	6
	DINDIGUL	7	1		8
	ERODE	3	1	4	8
	KALLAKURICHCHI		2	1	3
	KANCHEEPURAM			1	1
	KARUR	4	2	1	7
	KRISHNAGIRI	2	2	1	5
	MADURAI		1	3	4
	MAYILADUTHURAI	4			4
	NAMAKKAL	6		1	7

	PERAMBALUR	3		3
	PUDUKKOTTAI		3	3
	RANIPET	1	1	4
	SALEM	12	1	13
	TENKASI	2		3
	THANJAVUR	4	4	1
	THENI		1	2
	THIRUVARUR	3		
	THOOTHUKUDI			1
	TIRUCHIRAPPALLI	4		1
	TIRUNELVELI			2
	TIRUPATHUR	4		
	TIRUPPUR	3	2	4
	TIRUVALLUR			2
	TIRUVANNAMALAI	2	2	6
	VELLORE	5		1
	VILLUPURAM	4	1	2
	VIRUDHUNAGAR		1	5
TELANGANA	ADILABAD	1	1	
	BHADRADRI			
	KOTHAGUDEM			3
	HANUMAKONDA		1	4
	HYDERABAD	6	6	4
	JAGTIAL			2
	JANGAON			1
	JOGULAMBA GADWAL			1
	KAMAREDDY			4
	KARIMNAGAR			1
	KHAMMAM			1
	MAHABUBABAD			1
	MAHABUBNAGAR			2
	MEDAK			3
	MEDCHAL MALKAJGIRI	3		2
	NAGARKURNOOL			1
	NALGONDA			7
	NIZAMABAD	1		6
	RAJANNA SIRICILLA			3
	RANGAREDDY			4
SANGAREDDY		1	4	
SIDDIPET		1	6	
YADADRI BHUVANAGIRI			1	
UTTAR PRADESH	AGRA	10	1	5
	ALIGARH	1	1	6
	AMBEDKAR NAGAR			1
	AMETHI			1
	AMROHA	1	2	3
	BAGPAT	3		3
	BANDA			4
	BAREILLY	1		4
	BIJNOR		1	4
	BUDAUN	2	2	6
	BULANDSHAHR	6	4	5
	CHITRAKOOT		1	3
	ETAH			5

	FARRUKHABAD			4	4
	FATEHPUR	1		5	6
	FIROZABAD	5	1	3	9
	G.B.NAGAR	1	1	1	3
	GHAZIABAD	4		1	5
	GHAZIPUR			1	1
	HAMIRPUR			2	2
	HAPUR	1	2	1	4
	HATHRAS	3	1	2	6
	JAUNPUR		2	7	9
	JHANSI			4	4
	KANNAUJ	2	1	2	5
	KANPUR DEHAT			7	7
	KANPUR NAGAR		2	6	8
	KASGANJ			3	3
	KAUSHAMBI	2		4	6
	LALITPUR			6	6
	LUCKNOW	1			1
	MAHOBA	2		2	4
	MAINPURI	1		2	3
	MATHURA	1	2		3
	MEERUT	1	2	6	9
	MIRZAPUR	1	1	3	5
	MORADABAD	1	1	6	8
	MUZAFFARNAGAR	1	2	2	5
	PRATAPGARH		4	9	13
	PRAYAGRAJ	1	2	8	11
	RAMPUR			5	5
	SAHARANPUR	4		6	10
	SAMBHAL		4	3	7
	SANT RAVIDAS NAGAR			6	6
	SHAMLI	2	2	1	5
	SONBHADRA			1	1
	VARANASI	3	1	3	7
UTTARAKHAND	HARIDWAR			2	2
	NAINITAL			1	1
	UDHAMSINGH NAGAR			1	1
WEST BENGAL	DAKSHIN DINAJPUR			2	2
	HUGLI			3	3
	MALDA			1	1
	MURSHIDABAD		1	5	6
	NADIA		8	8	16
	NORTH 24 PARGANAS		3	5	8
	PASCHIM BARDDHAMAN			1	1
	PASCHIM MEDINIPUR			3	3
	PURBA BARDDHAMAN			4	4
Total		736	199	698	1633
