

GOVERNMENT OF INDIA
MINISTRY OF JAL SHAKTI,
DEPARTMENT OF WATER RESOURCES, RIVER DEVELOPMENT & GANGA REJUVENATION
LOK SABHA

UNSTARRED QUESTION NO. 236

ANSWERED ON 08.12.2022

DYNAMIC GROUND WATER RESOURCE ASSESSMENT REPORT

236 SHRI RAJVEER SINGH (RAJU BHAIYA)
SHRI VINOD KUMAR SONKAR
SHRI BHOLA SINGH: DR. SUKANTA MAJUMDAR
SHRI RAJA AMARESHWARA NAIK

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

- (a) whether the Ministry has released the report of Dynamic Ground Water Resource Assessment of the country, 2022;
- (b) if so, the details thereof including major findings of the report;
- (c) whether the increase in ground water recharge in the country is reported in this assessment report;
- (d) if so, whether the analysis indicates improvement in ground water conditions compared with 2017 assessment data;
- (e) if so, the details thereof;
- (f) the details of over exploited water zones in the country, State-wise; and
- (g) the other steps being taken by the Government for improving water availability in the country?

ANSWER

THE MINISTER OF STATE FOR JAL SHAKTI
(SHRI BISHWESWAR TUDU)

(a) Yes sir.

(b) The Dynamic Ground Water Resource Assessment of the country is done periodically by Central Ground Water Board (CGWB) in collaboration with States/UTs. As per the 2022 assessment, total annual ground water recharge, annual extractable ground water resource, annual ground water extraction (for all uses) are 437.60 Billion Cubic Meter (BCM), 398.08 BCM and 239.16 BCM respectively. The Stage of ground water extraction, which is a measure of annual ground water extraction for all uses (irrigation, industrial and domestic uses) over annual extractable ground water resource is 60.08% for the country as a whole.

Further, as per the 2022 assessment, out of the total 7089 assessment units in the country, 1006 units (14%) have been categorized as 'Over-exploited' where the annual ground water extraction is more than annual extractable ground water resource.

The detailed report can be accessed at <http://cgwb.gov.in/documents/2022-11-11-GWRA%202022.pdf>.

(c) Yes sir.

(d) & (e) Yes sir. As per assessment 2022, the total annual ground water recharge for the country is 437.6 billion cubic meters (BCM), which is 5.74 bcm more as compared to the 2017 assessment (431.86 BCM). Further, the annual ground water extraction has been assessed as 239.16 BCM in the 2022 assessment which is approximately 9.53 BCM less as compared to the 2017 assessment (248.69 BCM). The average 'Stage of Extraction' for the country as a whole works out to be 60.08 % which is 3.25 % less as compared to 2017 (63.33%). A detailed analysis indicates improvement in groundwater conditions in 909 assessment units in the country as compared to 2017 assessment.

(f) The State-wise details of over exploited assessment units in the country as per 2022 assessment is given at **Annexure**.

(g) Water being State subject, the rainwater harvesting/water conservation for improved water availability in the country falls within States' mandate, however, Central Government has taken a number of initiatives in this regard which can be accessed at web-link:

http://jalshaktidowr.gov.in/sites/default/files/Steps%20taken%20by%20the%20Central%20Govt%20for%20water_depletion_july2022.pdf.

Further, Central Government works in close collaboration with States/UTs through various initiatives/schemes like Jal Shakti Abhiyan (JSA), Atal Bhujal Yojana, MGNREGA, PMKSY-Watershed development etc. to supplement the efforts of States/UTs for sustainable management of groundwater. The JSA was launched in 2019 with the primary aim to effectively harvest the monsoon rainfall through creation of artificial recharge structures, watershed management, recharge and reuse structures, intensive afforestation and awareness generation etc. The JSA has continued during 2021 and 2022 which were launched by the Hon'ble Prime Minister and Hon'ble President of India respectively.

Further, Hon'ble Prime Minister launched Amrit Sarovar Mission on 24th April 2022. The Mission is aimed at developing and rejuvenating 75 water bodies in each district of the country as a part of celebration of Azadi ka Amrit Mahotsav.

ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO PART (f) OF UNSTARRED QUESTION NO. 236 TO BE ANSWERED IN LOK SABHA ON 08.12.2022 REGARDING “DYNAMIC GROUND WATER RESOURCE ASSESSMENT REPORT”.

S.No.	State/Union Territories	Total No. of Assessed Units	Over-Exploited Assessment Units	
			Nos.	%
	States			
1	Andhra Pradesh	667	6	0.9
2	Arunachal Pradesh	11		
3	Assam	28		
4	Bihar	535	8	1.50
5	Chhattisgarh	146		
6	Delhi	34	15	44.12
7	Goa	12		
8	Gujarat	252	23	9.13
9	Haryana	143	88	61.54
10	Himachal Pradesh	10		
11	Jharkhand	263	5	1.90
12	Karnataka	234	49	20.94
13	Kerala	152		
14	Madhya Pradesh	317	26	8.20
15	Maharashtra	353	11	3.12
16	Manipur	9		
17	Meghalaya	12		
18	Mizoram	26		
19	Nagaland	11		
20	Odisha	314		
21	Punjab	153	117	76.47
22	Rajasthan	302	219	72.52
23	Sikkim	6		
24	Tamil Nadu	1166	360	30.87
25	Telangana	594	13	2.20
26	Tripura	59		
27	Uttar Pradesh	836	63	7.54
28	Uttarakhand	18		
29	West Bengal	345		
30	Andaman and Nicobar	36		
31	Chandigarh	1		
32	Dadra & Nagar Haveli	1	1	100.00
	Daman & Diu	2	2	100.00
33	Jammu and Kashmir	20		
34	Ladakh	8		
35	Lakshadweep	9		
36	Puducherry	4		
	Grand Total	7089	1006	14.19

Note-

Blocks- Bihar, Chhatisgarh, Haryana, Jharkhand, Kerala, Madhya Pradesh, Manipur, Mizoram, Odisha, Punjab, Rajasthan, Tripura, Uttar Pradesh, Uttarakhand, West Bengal

Taluks- Goa, Gujarat, Karnataka, Maharashtra

Mandals- Andhra Pradesh, Telangana

District- Arunachal Pradesh, Assam, Meghalaya, Nagaland, Sikkim, Dadra & Nagar Haveli, Daman & Diu, Jammu & Kashmir

Valley- Himachal Pradesh, Ladakh

Islands- Andaman & Nicobar, Lakshadweep

Firka- Tamil Nadu

Region- Puducherry

UT- Chandigarh

Tehsil- Delhi