

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

UNSTARRED QUESTION NO. 1363

ANSWERED ON 09.02.2023

DEPLETION OF GROUND WATER

1363. SHRI GIRISH CHANDRA

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

- (a) whether it is a fact that in some parts of the country there has been serious depletion of ground water and if so, the details thereof, along with the reasons therefor?
- (b) whether any study/research have been conducted on the reasons and consequential effects of decrease in groundwater level and, if so, the details thereof; and
- (c) the steps taken/proposed to be taken by the Government to mitigate the problem?

ANSWER

THE MINISTER OF STATE FOR JAL SHAKTI

(SHRI BISHWESWAR TUDU)

(a) Central Ground Water Board (CGWB) is periodically monitoring the ground water levels throughout the country on a regional scale, through a network of monitoring wells. In order to assess the long term fluctuation in ground water levels, the water level data collected by CGWB during November 2022 have been compared with the decadal mean of November (2012-2021). Analysis of water level data indicates that about 61.10 % wells have registered rise (in ground water levels). The State-wise details in this regard are given at **Annexure**.

(b) CGWB has not conducted any specific study on the reasons and consequential effects of decrease in ground water level, however, ground water levels in some parts of the country appear to decline mainly because of continuous withdrawal due to reasons such as increased demand for freshwater for various uses, vagaries of rainfall, increased population, industrialization & urbanization etc.

Further, CGWB periodically assess the groundwater resources of the entire country in collaboration with States/UTs which after detailed analysis indicate the groundwater resources' trend vis-à-vis previous resource assessments. Further, National Aquifer Mapping (NAQUIM) is being implemented in the country by the CGWB which brings out the aquifer characteristics and suggest their possible utilization and recharge based on the detailed analysis.

(c) Though water is a State subject, Central Government has taken a number of important measures for conservation, management of ground water including effective implementation of rain water harvesting in the country, which can be seen at

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

Government of India is implementing Jal Shakti Abhiyan (JSA) in the country. First JSA was launched in 2019 in water stressed blocks of 256 districts which continued during the year 2021 (across entire country both rural and urban areas) also 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. JSA for the year 2021 and 2022 were launched by Hon'ble Prime Minister and Hon'ble President on 22.03.2021 and 29.03.2022 respectively.

In addition a number of States have done notable work in the field of water conservation/harvesting such as 'Mukhyamantri Jal Swavlamban Abhiyan' in Rajasthan, 'JalyuktShibar' in Maharashtra, 'SujalamSufalam Abhiyan' in Gujarat, 'Mission Kakatiya' in Telangana, NeeruChettu' in Andhra Pradesh, Jal Jeevan Hariyali in Bihar, 'Jal Hi Jeevan' in Haryana, and Kudimaramath scheme in Tamil Nadu.

ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 1363 TO BE ANSWERED IN LOK SABHA ON 09.02.2023 REGARDING “DEPLETION OF GROUND WATER”.

State-wise Decadal Water Level Fluctuation with Mean [November (2012 to 2021)] and November 2022

S. No.	Name of State	No. of wells Analysed	Rise						Fall						Rise		Fall		Wells showing no change	
			0-2 m		2-4 m		>4 m		0-2 m		2-4 m		>4 m		No	%	No	%	No	%
			No	%	No	%	No	%	No	%	No	%	No	%	No	%	No	%	No	%
1	Andaman and Nicobar	99	70	70.7	2	2.0	0	0.0	26	26.3	0	0.0	0	0.0	72	72.7	26	26.3	1	1.0
2	Andhra Pradesh	662	335	50.6	91	13.7	65	9.8	157	23.7	11	1.7	3	0.5	491	74.2	171	25.8	0	0.0
3	Arunachal Pradesh	9	1	11.1	0	0.0	0	0.0	7	77.8	1	11.1	0	0.0	1	11.1	8	88.9	0	0.0
4	Assam	163	84	51.5	2	1.2	1	0.6	72	44.2	2	1.2	2	1.2	87	53.4	76	46.6	0	0.0
5	Bihar	638	291	45.6	19	3.0	4	0.6	279	43.7	36	5.6	9	1.4	314	49.2	324	50.8	0	0.0
6	Chandigarh	14	4	28.6	1	7.1	0	0.0	5	35.7	2	14.3	2	14.3	5	35.7	9	64.3	0	0.0
7	Chhattisgarh	757	386	51.0	86	11.4	20	2.6	214	28.3	36	4.8	14	1.8	492	65.0	264	34.9	1	0.1
8	Dadra & Nagar Haveli	15	9	60.0	0	0.0	0	0.0	5	33.3	1	6.7	0	0.0	9	60.0	6	40.0	0	0.0
9	Daman & Diu	7	4	57.1	0	0.0	0	0.0	3	42.9	0	0.0	0	0.0	4	57.1	3	42.9	0	0.0
10	Delhi	84	31	36.9	11	13.1	18	21.4	12	14.3	6	7.1	6	7.1	60	71.4	24	28.6	0	0.0
11	Goa	63	10	15.9	0	0.0	0	0.0	47	74.6	5	7.9	1	1.6	10	15.9	53	84.1	0	0.0
12	Gujarat	709	287	40.5	113	15.9	76	10.7	169	23.8	35	4.9	29	4.1	476	67.1	233	32.9	0	0.0
13	Haryana	258	102	39.5	24	9.3	18	7.0	65	25.2	22	8.5	27	10.5	144	55.8	114	44.2	0	0.0
14	Himachal Pradesh	84	23	27.4	4	4.8	0	0.0	52	61.9	3	3.6	2	2.4	27	32.1	57	67.9	0	0.0
15	Jammu & Kashmir	271	102	37.6	6	2.2	3	1.1	150	55.4	10	3.7	0	0.0	111	41.0	160	59.0	0	0.0
16	Jharkhand	173	73	42.2	8	4.6	5	2.9	70	40.5	15	8.7	1	0.6	86	49.7	86	49.7	1	0.6
17	Karnataka	1328	545	41.0	188	14.2	157	11.8	395	29.7	27	2.0	15	1.1	890	67.0	437	32.9	1	0.1
18	Kerala	1410	602	42.7	35	2.5	7	0.5	718	50.9	35	2.5	12	0.9	644	45.7	765	54.3	1	0.1
19	Madhya Pradesh	1259	650	51.6	262	20.8	92	7.3	199	15.8	40	3.2	16	1.3	100	79.7	255	20.3	0	0.0
20	Maharashtra	1474	661	44.8	231	15.7	105	7.1	394	26.7	62	4.2	19	1.3	997	67.6	475	32.2	2	0.1
21	Meghalaya	24	12	50.0	1	4.2	0	0.0	11	45.8	0	0.0	0	0.0	13	54.2	11	45.8	0	0.0
22	Nagaland	4	0	0.0	2	50.0	0	0.0	1	25.0	1	25.0	0	0.0	2	50.0	2	50.0	0	0.0
23	Odisha	1211	686	56.6	29	2.4	3	0.2	465	38.4	26	2.1	2	0.2	718	59.3	493	40.7	0	0.0
24	Pondicherry	4	3	75.0	0	0.0	0	0.0	1	25.0	0	0.0	0	0.0	3	75.0	1	25.0	0	0.0
25	Punjab	230	54	23.5	2	0.9	2	0.9	89	38.7	47	20.4	36	15.7	58	25.2	172	74.8	0	0.0
26	Rajasthan	889	270	30.4	114	12.8	88	9.9	249	28.0	82	9.2	86	9.7	472	53.1	417	46.9	0	0.0
27	Tamil Nadu	620	220	35.5	160	25.8	136	21.9	86	13.9	11	1.8	7	1.1	516	83.2	104	16.8	0	0.0
28	Telangana	512	217	42.4	106	20.7	135	26.4	44	8.6	4	0.8	6	1.2	458	89.5	54	10.5	0	0.0
29	Tripura	20	7	35.0	1	5.0	0	0.0	10	50.0	2	10.0	0	0.0	8	40.0	12	60.0	0	0.0
30	Uttar Pradesh	631	341	54.0	45	7.1	10	1.6	189	30.0	28	4.4	18	2.9	396	62.8	235	37.2	0	0.0
31	Uttarakhand	45	21	46.7	6	13.3	2	4.4	10	22.2	3	6.7	3	6.7	29	64.4	16	35.6	0	0.0
32	West Bengal	762	180	23.6	23	3.0	13	1.7	352	46.2	105	13.8	89	11.7	216	28.3	546	71.7	0	0.0
	TOTAL	14429	6281	43.5	1572	10.9	960	6.7	4546	31.5	658	4.6	405	2.8	881	61.1	560	38.9	7	0.0

