

GOVERNMENT OF INDIA
MINISTRY OF JAL SHAKTI

DEPARTMENT OF WATER RESOURCES, RIVER DEVELOPMENT & GANGA REJUVENATION

RAJYA SABHA

UNSTARRED QUESTION NO. 88

ANSWERED ON 03.02.2025

GROUNDWATER DEPLETION AND MANAGEMENT

88. MS. SUSHMITA DEV

Will the Minister of **Jal Shakti** be pleased to state:

- (a) the current status of groundwater depletion across the country during the last five years, State-wise;
- (b) the status of the ongoing groundwater recharge projects across the country, along with the funds allocated and utilised during the last five years; and
- (c) the progress of the National Aquifer Mapping and Management Program (NAQUIM), and the number of aquifers that have been mapped and assessed for sustainable use so far, State-wise and the implementation, so far?

ANSWER

THE MINISTER OF STATE FOR JAL SHAKTI

(SHRI RAJ BHUSHAN CHOUDHARY)

(a) Central Ground Water Board (CGWB) monitors groundwater levels throughout the country on a regional scale, four times in every year. In order to assess the long term fluctuation in ground water, the Post-Monsoon 2024 water level data is compared with the Mean of the last 5 years (2019-23) post-monsoon water level data. Such analysis shows that 54.4 % of analyzed wells show rising water levels. The State-wise Water Level Fluctuation (in meters) on comparison between Mean (Post-Monsoon 2019 to 2023) and Post-Monsoon 2024 is presented in **Annexure-I**.

(b) Taking up the construction of ground water recharge projects is mainly the mandate of State Governments under the Constitutional scheme of things. The State governments have been doing so with financial and technical assistance from the Centre under various Schemes like MGNREGS, PMKSY-WDC etc. which are in addition to their own Schemes and projects. The Union Government, on its part is, *inter alia*, implementing Jal Shakti Abhiyan (JSA) since 2019 which is a mission mode and time bound programme to boost the rain water harvesting and artificial recharge activities in the country. JSA is an umbrella campaign under which various ground water recharge and conservation related works are being taken up in convergence with various central and state schemes. As per the available information, since the inception of JSA in 2019, construction/restoration of around 1.66 cr. water conservation and rain water harvesting structures have been completed/ongoing in the country and an expenditure of Rs. 1.16 lakh cr has been incurred though convergence with MGNREGS alone.

(c) NAQUIM programme/studies have been taken up for delineation and characterisation of aquifers and development of plans for ground water management. Out of ~33 lakh sq. km of the entire geographical area of the country, the entire mappable area of ~25 lakh sq. km has been covered under NAQUIM programme. Ground water management plans have also been prepared for the entire mapped area across the country and shared with concerned State/District administrations. The state-wise coverage under NAQUIM is presented in **Annexure-II**.

ANNEXURE REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 88 TO BE ANSWERED IN RAJYA SABHA ON 03.02.2025 REGARDING “GROUNDWATER DEPLETION AND MANAGEMENT”.

State-wise Water Level Fluctuation (in meters) with Mean (Post-Monsoon 2019 to 2023) and Post-Monsoon 2024 (Unconfined Aquifer)

*S. No	State/ UT Name	No of wells analysed	No. of wells in different fluctuation ranges in meters												Total No. of wells**			
			Rise						Fall						Rise		Fall	
			0 to 2 (m)	%	2 to 4 (m)	%	> 4 (m)	%	0 to 2 (m)	%	2 to 4 (m)	%	> 4 (m)	%	Rise	%	Fall	%
1	Andaman & Nicobar	101	70	69.3	0	0.0	0	0.0	31	30.7	0	0.0	0	0.0	70	69.3	31	30.7
2	Andhra Pradesh	603	288	47.8	49	8.1	22	3.6	200	33.2	29	4.8	13	2.2	359	59.5	242	40.1
3	Arunachal Pradesh	20	12	60.0	2	10.0	0	0.0	6	30.0	0	0.0	0	0.0	14	70.0	6	30.0
4	Assam	201	124	61.7	5	2.5	1	0.5	61	30.3	8	4.0	2	1.0	130	64.7	71	35.3
5	Bihar	556	125	22.5	16	2.9	3	0.5	347	62.4	53	9.5	8	1.4	144	25.9	408	73.4
6	Chandigarh	7	6	85.7	0	0.0	0	0.0	1	14.3	0	0.0	0	0.0	6	85.7	1	14.3
7	Chhattisgarh	761	427	56.1	75	9.9	15	2.0	206	27.1	30	3.9	7	0.9	517	67.9	243	31.9
8	Delhi	68	27	39.7	14	20.6	9	13.2	14	20.6	3	4.4	1	1.5	50	73.5	18	26.5
9	Goa	73	49	67.1	5	6.8	0	0.0	19	26.0	0	0.0	0	0.0	54	74.0	19	26.0
10	Gujarat	598	308	51.5	117	19.6	55	9.2	92	15.4	16	2.7	10	1.7	480	80.3	118	19.7
11	Haryana	163	61	37.4	11	6.7	7	4.3	57	35.0	19	11.7	8	4.9	79	48.5	84	51.5
12	Himachal Pradesh	92	23	25.0	1	1.1	2	2.2	57	62.0	5	5.4	4	4.3	26	28.3	66	71.7
13	Jammu and Kashmir	196	56	28.6	1	0.5	1	0.5	124	63.3	9	4.6	4	2.0	58	29.6	137	69.9
14	Jharkhand	290	144	49.7	18	6.2	6	2.1	100	34.5	19	6.6	2	0.7	168	57.9	121	41.7
15	Karnataka	1072	615	57.4	76	7.1	28	2.6	300	28.0	42	3.9	8	0.7	719	67.1	350	32.6
16	Kerala	1346	567	42.1	68	5.1	18	1.3	583	43.3	90	6.7	19	1.4	653	48.5	692	51.4
17	Madhya Pradesh	1044	454	43.5	77	7.4	34	3.3	376	36.0	62	5.9	34	3.3	565	54.1	472	45.2
18	Maharashtra	1597	812	50.8	154	9.6	42	2.6	481	30.1	81	5.1	20	1.3	1008	63.1	582	36.4
19	Meghalaya	38	9	23.7	0	0.0	0	0.0	29	76.3	0	0.0	0	0.0	9	23.7	29	76.3
20	Nagaland	11	3	27.3	1	9.1	0	0.0	3	27.3	1	9.1	3	27.3	4	36.4	7	63.6
21	Odisha	1249	277	22.2	11	0.9	3	0.2	826	66.1	110	8.8	16	1.3	291	23.3	952	76.2
22	Puducherry	6	3	50.0	0	0.0	0	0.0	3	50.0	0	0.0	0	0.0	3	50.0	3	50.0
23	Punjab	174	43	24.7	9	5.2	4	2.3	74	42.5	30	17.2	13	7.5	56	32.2	117	67.2
24	Rajasthan	824	263	31.9	120	14.6	132	16.0	163	19.8	61	7.4	85	10.3	515	62.5	309	37.5
25	Tamil Nadu	566	238	42.0	55	9.7	28	4.9	194	34.3	34	6.0	13	2.3	321	56.7	241	42.6
26	Telangana	248	93	37.5	32	12.9	15	6.0	83	33.5	18	7.3	7	2.8	140	56.5	108	43.5
27	DNH & Daman-Diu	11	5	45.5	3	27.3	0	0.0	2	18.2	1	9.1	0	0.0	8	72.7	3	27.3
28	Tripura	78	56	71.8	4	5.1	0	0.0	17	21.8	0	0.0	0	0.0	60	76.9	17	21.8
29	Uttar Pradesh	421	151	35.9	13	3.1	8	1.9	212	50.4	30	7.1	7	1.7	172	40.9	249	59.1
30	Uttarakhand	155	51	32.9	6	3.9	12	7.7	64	41.3	9	5.8	12	7.7	69	44.5	85	54.8
31	West Bengal	636	409	64.3	16	2.5	4	0.6	185	29.1	10	1.6	8	1.3	429	67.5	203	31.9
	Total	13205	5769	43.7	959	7.3	449	3.4	4910	37.2	770	5.8	304	2.3	7177	54.4	5984	45.3

*Data from the States/UTs of Manipur, Mizoram, Lakshadweep, Ladakh, Sikkim is not available.

** 44 (0.3%) sites not showing rise or fall.

ANNEXURE REFERRED TO IN REPLY TO PART (c) OF UNSTARRED QUESTION NO. 88 TO BE ANSWERED IN RAJYA SABHA ON 03.02.2025 REGARDING “GROUNDWATER DEPLETION AND MANAGEMENT”.

The state-wise coverage under NAQUIM

Sl. No.	State/UT	Total Area (Sq.km)	Area targeted for coverage (sq. km)	Coverage till March 2023 (sq. km)
1	Andaman & Nicobar UT	8,249	1,774	1,774
2	Andhra Pradesh	1,63,900	1,41,784	1,41,784
3	Arunachal Pradesh	83,743	4,703	4,703
4	Assam	78,438	61,826	61,826
5	Bihar	94,163	90,567	90,567
6	Chandigarh UT	115	115	115
7	Chhattisgarh	1,36,034	96,000	96,000
8	Dadra & Nagar Haveli,	602	602	602
9	Daman & Diu UT	1,483	1,483	1,483
10	Goa	3,702	3,702	3,702
11	Gujarat	1,96,024	1,60,978	1,60,978
12	Haryana	44,212	44,179	44,179
13	Himachal Pradesh	55,673	8,020	8,020
14	Jammu & Kashmir UT	1,67,396	9,506	9,506
15	Jharkhand	79,714	76,705	76,705
16	Karnataka	1,91,808	1,91,719	1,91,719
17	Kerala	38,863	28,088	28,088
18	Lakshadweep UT	32	32	32
19	Ladakh UT	54,840	963	963
20	Madhya Pradesh	3,08,000	2,69,349	2,69,349
21	Maharashtra	3,07,713	2,59,914	2,59,914
22	Manipur	22,327	2,559	2,559
23	Meghalaya	22,429	10,645	10,645
24	Mizoram	21,081	700	700
25	Nagaland	16,579	910	910
26	Odisha	1,55,707	1,19,636	1,19,636
27	Puducherry UT	479	454	454
28	Punjab	50,368	50,368	50,368
29	Rajasthan	3,42,239	3,34,152	3,34,152
30	Sikkim	7,096	1,496	1,496
31	Tamil Nadu	1,30,058	1,05,829	1,05,829
32	Telangana	1,11,940	1,04,824	1,04,824
33	Tripura	10,492	6,757	6,757
34	Uttar Pradesh	2,46,387	2,40,649	2,40,649
35	Uttarakhand	53,484	11,430	11,430
36	West Bengal	88,752	71,947	71,947
	Total	3294105	2514437	2514437
