

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

RAJYA SABHA

UNSTARRED QUESTION NO. 720

ANSWERED ON 10.02.2025

GROUNDWATER QUALITY

720. SHRI MOHAMMED NADIMUL HAQUE

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

- (a) the details of the increase in the number of districts with excessive Nitrate in groundwater from 2017 to 2023 and the current percentage of districts affected, Statewise; and
- (b) the current status of groundwater replenishment and extraction levels across the country, including the percentage of blocks categorized as safe, semi-critical, critical, and over-exploited?

ANSWER

THE MINISTER OF STATE FOR JAL SHAKTI

(SHRI RAJ BHUSHAN CHOUDHARY)

(a) As per the Ground Water Quality Reports prepared by the Central Ground Water Board (CGWB) from time to time, state-wise details of number of districts reporting localised occurrence of Nitrates beyond permissible limits in isolated pockets from 2017 to 2023 are provided at **Annexure –I**.

(b) Assessment of Dynamic groundwater resources of each State/UT is being carried out on annual basis jointly by the Central Ground Water Board and the concerned State Nodal/Ground Water Departments. As per the report of “National Compilation of Dynamic Ground Water Resources of India, 2024”, the total annual groundwater recharge in the country has been assessed as 446.9 billion cubic metres (bcm). Total annual extractable groundwater resource has been assessed as 406.19 bcm and the total annual groundwater extraction for all purposes (like domestic, industrial, agricultural uses etc) is estimated as 245.64 bcm. The Stage of groundwater Extraction (SoE), which is defined as a ratio of Annual Ground Water Extraction over Annual Extractable Ground Water Resource for the whole country is arrived at 60.47 %.

Further, out of the total 6746 assessment units (Blocks/Taluks/Mandals) in the country, 4951 (73.39 %) units are categorized as “safe”, 711 units (10.54 %) as “Semi-critical”, 206 units (3.05 %) as “Critical”, 751 units (11.13%) as “Over-Exploited and remaining 127 assessment units (1.88%) are placed under “Saline” category.

ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 720 TO BE ANSWERED IN RAJYA SABHA ON 10.02.2025 REGARDING “GROUNDWATER QUALITY”.

Number of districts (State-Wise) reporting occurrence of Nitrate beyond permissible limit in Ground Water for Year 2017 and 2023

S.No.	State	Year 2023	Year 2017
		No. of districts reporting Nitrate beyond permissible limit in isolated pockets (> 45 mg/L)	No. of districts reporting Nitrate beyond permissible limit in isolated pockets (> 45 mg/L)
1	Andhra Pradesh	26	13
2	Bihar	15	20
3	Chhattisgarh	20	0
4	Delhi	7	0
5	Goa	0	2
6	Gujarat	23	30
7	Haryana	21	18
8	Himachal Pradesh	6	1
9	Jammu & Kashmir	6	6
10	Jharkhand	9	17
11	Karnataka	27	27
12	Kerala	10	13
13	Madhya Pradesh	39	48
14	Maharashtra	32	32
15	ODISHA	15	0
16	Pondicherry	1	0
17	Punjab	20	17
18	RAJASTHAN	30	29
19	Tamil Nadu	31	20
20	Telangana	32	10
21	Tripura	2	0
22	Uttar Pradesh	48	44
23	Uttarakhand	5	0
24	West Bengal	18	12
	Grand Total	443	359
