

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

UNSTARRED QUESTION NO. 722

ANSWERED ON 07.12.2023

GROUNDWATER IN MADHYA PRADESH

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

- (a) the details of total quantity of groundwater in Madhya Pradesh and the quantity of water that can be used for drinking purpose, district-wise;
- (b) the details of the places in Seoni Balaghat district of Madhya Pradesh where Piezometer/ Automatic Water Level Recorders have been installed, location and district-wise;
- (c) the availability and quality of ground water in Seoni Balaghat districts of Madhya Pradesh; and
- (d) the details and the number of villages in Seoni Balaghat districts of Madhya Pradesh where the work of surface water source and groundwater source based schemes has been completed to provide tap water to every house under Jal Jeevan Mission and the number of villages in which tap water is being supplied through these schemes, scheme and district-wise?

ANSWER

THE MINISTER OF STATE FOR JAL SHAKTI

(SHRI BISHWESWAR TUDU)

(a) The Dynamic Ground Water Resources of the country are being periodically assessed jointly by Central Ground Water Board and State Nodal/Ground Water Department. As per the Ground Water Resource Assessment-2023 (latest), the assessment in respect of Madhya Pradesh State is as given below: -

- i. the total Annual Ground Water Recharge - 35.47 billion cubic meter (bcm).
- ii. the total Annual Extractable Ground Water Resource estimated - 32.85 bcm which can be utilized for irrigation, drinking, domestic purpose and industrial purpose.
- iii. the total Annual Groundwater Extraction -19.3 billion cubic meter (bcm), out of which, 1.72 bcm ground water is used as drinking and domestic purpose.

The district wise details are given in **Annexure -I.**

(b) The details of the places in Seoni and Balaghat districts of Madhya Pradesh where Piezometer/ Piezometer with Automatic/ Digital Water level Recorders have been installed by the Government are given in **Annexure -II.**

(c) Based on the Ground Water Resource Assessment-2023 (latest), the details of total Annual Ground Water Recharge, total amount of Annual Extractable Ground Water and total Annual Groundwater Extraction along with the amount of extraction for drinking and domestic purposes for the districts of Balaghat & Seoni are given in **Annexure -I**.

Central Ground Water Board (CGWB) generates ground water quality data of the country including Madhya Pradesh on a regional scale as part of its ground water quality monitoring program and various scientific studies. These studies indicate, out of the samples collected and analysed from 79 locations of Balaghat District, the occurrence of contaminants such as Nitrate at 18 locations and Iron at 12 locations, beyond permissible limits (as per BIS) for human consumption, has been found; Similarly, out of the samples collected and analysed from 86 locations of Seoni District, Nitrate at 20 locations and fluoride at 5 locations has been found.

(d) As reported by State Govt. of Madhya Pradesh on JJM-IMIS portal, the number of villages in Seoni and Balaghat districts of Madhya Pradesh where water is being supplied through completed surface water source and groundwater source-based schemes are given below:

Sr.No.	District	Water is being supplied through surface water source-based schemes. (No of villages)	Water is being supplied through ground water source-based schemes. (No of villages)
1	Balaghat	51	302
2	Seoni	181	123

ANNEXURE REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 722 TO BE ANSWERED IN LOK SABHA ON 07.12.2023 REGARDING “GROUNDWATER IN MADHYA PRADESH”.

DYNAMIC GROUND WATER RESOURCES OF MADHYA PRADESH, 2023 (in HAM)

S.NO	Name of District	Total Annual Ground Water Recharge	Annual Extractable Ground Water Resource	Total Annual Ground Water Extraction	Current Annual Ground Water Extraction for domestic purpose
1	2	3	4	5	6
1	AGAR MALWA	43548.8	40403.21	36336.96	1666.65
2	ALIRAJPUR	21490.07	19930.2	8633.15	1910.82
3	ANUPPUR	28826.36	26993.74	6349.33	1562.47
4	ASHOKNAGAR	39493.05	36824.34	23207.03	1824.21
5	BALAGHAT	77153.99	71949.04	16909.36	3851.18
6	BARWANI	55841.78	52036.18	37143.14	3727.85
7	BETUL	104898.72	97750.31	48528.3	3726.52
8	BHIND	98040.22	89953.59	29373.62	3562.49
9	BHOPAL	40750.43	37948.75	29712.91	5110.13
10	BURHANPUR	36681.41	33962.85	23704.63	1728.73
11	CHHATARPUR	86761.39	80899.76	52923.58	3105.27
12	CHHINDWARA	104808.74	97605.19	61722.98	5400.1
13	DAMOH	39378.78	36576.17	21388.93	2331.94
14	DATIA	43075.86	40122.32	14464.77	1766.56
15	DEWAS	86549.72	80944.58	64753.63	4300.72
16	DHAR	138460.44	127766.67	83557.97	6069.37
17	DINDORI	35008.2	33257.8	4164.57	1848.41
18	GUNA	81681.71	77314.59	50219.89	2532.84
19	GWALIOR	82244.87	75773.72	23807.29	5484.37
20	HARDA	46956.92	43947.6	15665.19	1243.99
21	HOSHANGABAD	179273.66	163696.36	42335.23	2251.42
22	INDORE	58749.02	53436.36	63792.93	7870.51
23	JABALPUR	66729.2	61296.83	31449.17	5834.34
24	JHABUA	26083.34	24280.48	10876.28	2810.21
25	KATNI	40925.41	38029.19	17917.68	2786.79
26	KHANDWA	113892.37	105196.25	43636.4	3025.19
27	KHARGONE	97502.54	92147.84	42322.26	4518.09
28	MANDLA	49234.12	46772.43	9546.28	2537.96
29	MANDSAUR	69895.39	63181.48	66067.55	3105.12
30	MORENA	69811.31	64615.54	25930.52	5881.03
31	NARSINGHPUR	123928.4	112762.33	75495.2	2347.59
32	NEEMUCH	40165.14	36148.63	35871.88	1769.05
33	NIWARI	19643.67	18120.11	12656.29	1130.38
34	PANNA	54661.53	50601.49	18459.75	2477.82
35	RAISEN	93397.9	86813.92	46593.92	3417.8
36	RAJGARH	91863.24	86524.22	77683.72	4120.76
37	RATLAM	85016.42	76902.67	103925.81	4450.12
38	REWA	54582.07	49820.96	27226.55	5668.63
39	SAGAR	110798.9	102371.34	60695.66	3807.91
40	SATNA	74470.57	69018.27	45269.69	4766.96
41	SEHORE	73967.94	67494.59	41699.87	2527.11
42	SEONI	72428.5	68393.52	28298.24	3328.53
43	SHAHDOL	55970.79	53172.26	7105.33	2307.45
44	SHAJAPUR	55704.05	51468.21	55019.46	2182.07
45	SHEOPUR	55831.52	50674.57	19493.95	1817.82
46	SHIVPURI	85427.78	78319.96	53000.39	4668.71
47	SIDHI	31369.7	29212.27	10549.05	2908.38
48	SINGRAULI	37323.32	35457.15	13856.77	2657.3
49	TIKAMGARH	39943.53	36428.83	29808.19	3074.02
50	UJJAIN	99698.18	91373.06	99439.27	3895.58
51	UMARIA	36573.58	34239.35	6406.36	1571.36
52	VIDISHA	90893.85	85443.85	55029.63	3969.72
	Total(Ham)	3547408.4	3285374.93	1930026.51	172240.36
	Total(Bcm)	35.47	32.85	19.3	1.72

ANNEXURE REFERRED TO IN REPLY TO PART (b) OF UNSTARRED QUESTION NO. 722 TO BE ANSWERED IN LOK SABHA ON 07.12.2023 REGARDING “GROUNDWATER IN MADHYA PRADESH”.

District-Wise Details of Piezometer/ Piezometer with Automatic/ Digital Water Level Recorder installed by the Government

Sl. No.	Balaghat District		Seoni District	
	Piezometer	Piezometer with Automatic Water Level Recorder	Piezometer	Piezometer with Automatic Water Level Recorder
1	Katangi-S	Katangi-S	Barghat	Barghat
2	Katangi	Damoh	Nagadahar	Seoni
3	Baihar	Baihar	Khadsi	Bakhari
4	Waraseoni	Waraseoni	Raichor Mal	Bandol
5	Damoh	Sijhora (Khajra)	Sukkam	Chapara
6	---	Sijhora (Khajra)	Jawara	Gopalganj
7	---	Balaghat	Dungariya	Ari
8	----	Saleteka	Baragour	Geneshganj
9	----	Rajegaon	Gehra Nallah	Kahani (30)
10	----	Kirnapur	Karithoon	Kedarpur
11	----	Lanji	Saidalpur Mal	Kahani (60)
12	----	Jamuniya	Saliwada	Kahani (90)
13	----	Lalbarra	Andiya	Kahani (120)
14	-----	Dhuty	Anjaniya	Suktara
15	----	Budbuda	Nai Tola	Khawasa
16	-----	Rampayli	Padiwada	Mugawani
17	-----	----	Khamariya Ryt	Bhimgarh
18	----	----	Khirkhiri	Dhanora
19	---	----	Patan Ryt	Ugli
20	----	----	Bordai	---
21	----	---	Chakki Tola	---
22	---	----	Amoda	---
23	--	-----	Boriya	---
24	----	----	Batwani	---
25	---	---	Karanpur	---
