

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

UNSTARRED QUESTION NO. 454

ANSWERED ON 03.02.2022

JAL SHAKTI ABHIYAN

454. SHRI G.M. SIDDESHWAR

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

- (a) whether Jal Shakti Abhiyan has led to an increase in ground water level, surface water storage capacity, soil moisture in farmlands and increased plant cover;
- (b) if so, the details thereof including the national and State-wise data on the said parameters;
- (c) if not, the reasons therefor;
- (d) whether the Government has commissioned a study of the water scarcity crisis in the country; and
- (e) if so, the details thereof and if not, the reasons therefor?

ANSWER

THE MINISTER OF STATE FOR JAL SHAKTI

(SHRI BISHWESWAR TUDU)

(a) & (b) Jal Shakti Abhiyan (JSA), a time-bound, mission mode water conservation campaign, was implemented in the July - November 2019 period, in only 1,592 blocks out of 2,836 blocks of 256 water-stressed districts of the country. These blocks fell under critical or over-exploited groundwater category, where groundwater was being exploited faster than it could be replenished. During JSA, five target interventions to promote water conservation and water resource management, viz. water conservation & rainwater harvesting, renovation of traditional & other water-bodies/tanks, reuse and recharge of bore-wells, watershed development and intensive afforestation etc were implemented. Huge public awareness in water conservation/harvesting was generated due to JSA and further, it has been observed that various stakeholders, viz. Government departments/agencies, NGOs, Panchayats, individuals etc. have started taking steps towards water conservation. The outcome of JSA is improved water conservation.

The “Jal Shakti Abhiyan: Catch The Rain” (JSA:CTR) campaign was launched by Hon’ble Prime Minister on 22 March 2021, the World Water Day, with the theme – “Catch The Rain, Where it falls, When it falls”. JSA:CTR was taken up in all districts (rural as well as urban areas) of the country during the pre-monsoon and monsoon period in the country i.e. from March 2021 to 30 November 2021. JSA:CTR has been implemented with five focused interventions- (1) intensive rainwater harvesting and water conservation (2) enumerating, geo-tagging & making inventory of all water bodies; preparation of scientific plans for water conservation based on it (3) *Setting up of Jal*

Shakti Kendras in all districts (4) intensive afforestation and (5) awareness generation. Intervention wise progress during the campaign period is as per Annexure I.

Further, Central Ground Water Board is periodically monitoring the ground water levels throughout the Country on a regional scale, through a network of monitoring wells. A comparison of ground water level of the country during last three years viz. November, 2021, 2020 and 2019 is given below-

SI. No.	Year	Wells analysed	0-2 mbgl (%)	2-5 mbgl (%)	5-10 mbgl (%)	10-20 mbgl (%)	20-40 mbgl (%)	>40 mbgl (%)
1.	Nov 2021	14470	29.00	39.80	20.20	7.00	2.70	1.40
2.	Nov 2020	16569	29.30	38.60	20.40	7.30	2.90	1.50
3.	Nov 2019	14827	27.50	38.52	21.25	7.70	3.45	1.60

The data indicates that there has been overall improvement in ground water level in the country during November 2021 and 2020 when compared to November 2019 which is the cumulative impact of natural and several interventions of both State and Central Government including Jal Shakti Abhiyan. The State-wise Ground water level data of country during November 2021, 2020 and 2019 are given as Annexures II, III and IV.

(c) Does not arise.

(d) & (e) No specific study has been commissioned by this Ministry for the water scarcity crisis in the country. However, The Dynamic Ground Water Resources of the country are being periodically assessed jointly by Central Ground Water Board (CGWB) and State Governments. As per the 2020 assessment, Total Annual Ground Water Recharge is 436 Billion Cubic Meter (BCM) and the Annual Extractable Ground Water Resource is 398 BCM. The Annual Ground Water Extraction for all uses is 245 BCM. 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 Resources is 62% for the country as a whole.

ANNEXURE REFERRED TO IN REPLY TO PART (A) & (B) OF UNSTARRED QUESTION No. 454 TO BE ANSWERED IN LOK SABHA ON 03.02.2022 REGARDING “JAL SHAKTI ABHIYAN”.

Jal Shakti Abhiyan: Catch the Rain

Intervention –Wise Progress Report

Status : From 22-03-2021 To 30-11-2021

JSA:CTR											
S. N.	Jal Shakti Abhiyan	Water Conservation and Rain Water Harvesting Structures		Renovation of Traditional Water Bodies		Reuse and Recharge Structures	Watershed Development	Total Water Related Works		Intensive Afforestation	Training Programmes/ Kisan Melas
		Rural	Urban	Rural	Urban			Rural	Urban		
1. A	Total Nos. of Work Completed	7,61,020	1,97,591	1,58,996	2,478			23,52,156	2,00,069	36,02,82,099	42,564
		9,58,611		1,61,474				4,68,827	9,63,313		
1. B	Total Nos. of Works Ongoing	5,16,983		1,16,348		2,65,139	7,38,926	16,37,396		8,36,159	-
2	Total of Completed and Ongoing Works	14,75,594		2,77,822		7,33,966	17,02,239	41,89,621		36,11,18,258	
3	Expenditure in Rs Crores*	21,970		9,367		1,130	18,413	50,880		7,902	-
4	Total Expenditure Including Water related works and Afforestation (In Rs Crores)*								58,782		

* Expenditure is given only for the works carried out by DoRD under MGNREGS

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State-wise Depth to water Level and Distribution of Percentage of Wells for the Period of November, 2019

S. No.	Name of State	No. of wells Analyzed	Depth to Water Level (mbgl)		Number & Percentage of Wells Showing Depth to Water Level (mbgl) in the Range of											
					0-2		2-5		5-10		10-20		20-40		> 40	
			Min	Max	No	%	No	%	No	%	No	%	No	%	No	%
1	Andaman & Nicobar Islands	90	0.36	10.04	59	65.56	29	32.22	1	1.1	1	1.11	0	0.00	0	0.00
2	Andhra Pradesh	708	0.00	58.04	343	48.45	203	28.67	103	14.5	48	6.78	9	1.27	2	0.28
3	Arunachal Pradesh	8	2.10	7.43	0	0.00	6	75.00	2	25.00	0	0.00	0	0.00	0	0.00
4	Assam	119	0.00	18.32	56	47.06	51	42.86	10	8.40	2	1.68	0	0.00	0	0.00
5	Bihar	628	0.02	14.00	182	28.98	340	54.14	101	16.08	5	0.80	0	0.00	0	0.00
6	Chandigarh	8	2.87	18.97	0	0.00	2	25.00	2	25.00	4	50.00	0	0.00	0	0.00
7	Chhattisgarh	569	0.48	21.35	74	13.01	361	63.44	115	20.21	18	3.16	1	0.18	0	0.00
8	Dadra & Nagar Haveli	17	1.03	7.60	6	35.29	10	58.82	1	5.88	0	0.00	0	0.00	0	0.00
9	Daman & Diu	9	3.92	6.08	3	33.33	5	55.56	1	11.11	0	0.00	0	0.00	0	0.00
10	Delhi	85	0.30	63.15	7	8.24	13	15.29	20	23.53	23	27.06	15	17.65	7	8.24
11	Goa	69	0.04	14.67	17	24.64	31	44.93	17	24.64	4	5.80	0	0.00	0	0.00
12	Gujarat	811	0.08	50.62	224	27.62	311	38.35	178	21.95	65	8.01	31	3.82	2	0.25
13	Haryana	288	0.57	77.00	32	11.11	55	19.10	69	23.96	61	21.18	60	20.83	11	3.82
14	Himachal Pradesh	103	0.38	30.43	29	28.16	35	33.98	22	21.36	14	13.59	3	2.91	0	0.00
15	Jammu & Kashmir	204	0.10	28.26	72	35.29	87	42.65	32	15.69	7	3.43	6	2.94	0	0.00

16	Jharkhand	274	0.3 5	15.00	74	27.0 1	153	55.8 4	42	15.3 3	5	1.82	0	0.00	0	0.00
17	Karnataka	1231	0.0 0	30.70	402	32.6 6	435	35.3 4	328	26.6 5	61	4.96	5	0.41	0	0.00
18	Kerala	1428	0.0 8	34.33	312	21.8 5	476	33.3 3	534	37.3 9	99	6.93	7	0.49	0	0.00
19	Madhya Pradesh	1364	0.0 0	37.14	339	24.8 5	609	44.6 5	319	23.3 9	80	5.87	17	1.25	0	0.00
20	Maharashtra	1644	0.0 1	53.20	502	30.5 4	687	41.7 9	339	20.6 2	84	5.11	31	1.89	1	0.06
21	Meghalaya	13	0.1 5	4.90	6	46.1 5	7	53.8 5	0	0.00	0	0.00	0	0.00	0	0.00
22	Nagaland	3	1.3 2	6.60	1	33.3 3	1	33.3 3	1	33.3 3	0	0.00	0	0.00	0	0.00
23	Odisha	1238	0.0 1	12.00	521	42.0 8	605	48.8 7	108	8.72	4	0.32	0	0.00	0	0.00
24	Pondicherry	4	1.3 1	2.85	3	75.0 0	1	25.0 0	0	0.00	0	0.00	0	0.00	0	0.00
25	Punjab	222	0.5 9	44.80	9	4.05	51	22.9 7	41	18.4 7	53	23.8 7	65	29.2 8	3	1.35
26	Rajasthan	1023	0.1 0	121.2 8	123	12.0 2	200	19.5 5	179	17.5 0	158	15.4 4	17 0	16.6 2	19 3	18.8 7
27	Tamil Nadu	655	0.0 0	105.3 6	177	27.0 2	188	28.7 0	190	29.0 1	75	11.4 5	18	2.75	7	1.07
28	Telangana	565	0.0 0	69.35	178	31.5 0	165	29.2 0	114	20.1 8	83	14.6 9	22	3.89	3	0.53
29	Tripura	21	0.5 5	6.38	8	38.1 0	12	57.1 4	1	4.76	0	0.00	0	0.00	0	0.00
30	Uttar Pradesh	660	0.0 2	44.05	149	22.5 8	249	37.7 3	136	20.6 1	100	15.1 5	24	3.64	2	0.30
31	Uttarakhand	49	1.3 8	61.81	7	14.2 9	10	20.4 1	15	30.6 1	10	20.4 1	4	8.16	3	6.12
32	West Bengal	717	0.0 0	32.61	162	22.5 9	323	45.0 5	130	18.1 3	78	10.8 8	24	3.35	0	0.00
Total		14827	0.0 0	121.2 8	407 7	27.5 0	571 1	38.5 2	315 1	21.2 5	114 2	7.70	51 2	3.45	23 4	1.6

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S. No.	Name of State	No. of wells Analysed	Depth to Water Level (mbgl)		Number & Percentage of Wells Showing Depth to Water Level (mbgl) in the Range of											
					0-2		2-5		5-10		10-20		20-40		> 40	
			Min	Max	No	%	No	%	No	%	No	%	No	%	No	%
1	Andhra Pradesh	717	0.00	75.65	377	52.6	221	30.8	80	11.2	26	3.6	10	1.4	3	0.4
2	Arunachal Pradesh	3	0.80	6.47	1	33.3	1	33.3	1	33.3	0	0.0	0	0.0	0	0.0
3	Assam	160	0.05	15.84	94	58.8	54	33.8	10	6.3	2	1.3	0	0.0	0	0.0
4	Bihar	548	0.25	15.00	132	24.1	348	63.5	58	10.6	10	1.8	0	0.0	0	0.0
5	Chandigarh	12	2.74	53.64	0	0.0	3	25.0	1	8.3	4	33.3	3	25.0	1	8.3
6	Chhattisgarh	721	0.07	29.57	46	6.4	476	66.0	172	23.9	24	3.3	3	0.4	0	0.0
7	Dadra & Nagar Haveli *	17	1.03	7.60	6	35.3	10	58.8	1	5.9	0	0.0	0	0.0	0	0.0
8	Daman & Diu	9	1.30	4.60	1	11.1	7	77.8	1	11.1	0	0.0	0	0.0	0	0.0
9	Delhi	81	1.61	65.16	1	1.2	18	22.2	21	25.9	21	25.9	14	17.3	6	7.4
10	Goa	65	1.32	13.58	8	12.3	31	47.7	22	33.8	4	6.2	0	0.0	0	0.0
11	Gujarat	742	0.00	44.20	136	18.3	288	38.8	204	27.5	79	10.6	34	4.6	1	0.1
12	Haryana	315	0.10	108.00	24	7.6	66	21.0	52	16.5	77	24.4	66	21.0	30	9.5
13	Himachal Pradesh	89	0.41	29.02	18	20.2	30	33.7	21	23.6	17	19.1	3	3.4	0	0.0
14	Jammu & Kashmir	163	0.09	34.50	34	20.9	86	52.8	29	17.8	8	4.9	6	3.7	0	0.0

15	Jharkhand	279	0.00	14.05	61	21.9	171	61.3	44	15.8	3	1.1	0	0.0	0	0.0
16	Karnataka	1318	0.01	32.50	440	33.4	470	35.7	322	24.4	82	6.2	4	0.3	0	0.0
17	Kerala	1334	0.18	31.35	243	18.2	416	31.2	561	42.1	109	8.2	5	0.4	0	0.0
18	Madhya Pradesh	1296	0.00	54.10	155	12.0	525	40.5	470	36.3	127	9.8	18	1.4	1	0.1
19	Maharashtra**	3701	0.05	39.50	1859	50.2	1293	34.9	431	11.6	95	2.6	23	0.6	0	0.0
20	Meghalaya	24	0.18	4.80	11	45.8	13	54.2	0	0.0	0	0.0	0	0.0	0	0.0
21	Nagaland	2	4.21	6.37	0	0.0	1	50.0	1	50.0	0	0.0	0	0.0	0	0.0
22	Odisha	1220	0.01	12.76	543	44.5	582	47.7	93	7.6	2	0.2	0	0.0	0	0.0
23	Pondicherry	6	1.36	6.78	1	16.7	4	66.7	1	16.7	0	0.0	0	0.0	0	0.0
24	Punjab	250	0.28	70.00	20	8.0	38	15.2	47	18.8	65	26.0	60	24.0	20	8.0
25	Rajasthan	968	0.17	119.02	50	5.2	217	22.4	193	19.9	158	16.3	171	17.7	179	18.5
26	Tamil Nadu	640	0.00	67.42	114	17.8	208	32.5	196	30.6	95	14.8	20	3.1	7	1.1
27	Telangana	549	0.00	67.00	208	37.9	218	39.7	92	16.8	24	4.4	6	1.1	1	0.2
28	Tripura	21	0.24	6.12	9	42.9	10	47.6	2	9.5	0	0.0	0	0.0	0	0.0
29	Uttar Pradesh	634	0.00	44.21	117	18.5	273	43.1	126	19.9	97	15.3	18	2.8	3	0.5
30	Uttarakhand	47	0.98	60.00	6	12.8	13	27.7	17	36.2	6	12.8	3	6.4	2	4.3
31	West Bengal	638	0.00	29.38	140	21.9	300	47.0	107	16.8	78	12.2	13	2.0	0	0.0
Total		16569	0.00	119.02	4855	29.3	6391	38.6	3376	20.4	1213	7.3	480	2.9	254	1.5

** State Govt Data used in respect of Maharashtra

*November 2019 data used in respect of Dadra Nagar Haveli

Annexure IV

ANNEXURE REFERRED TO IN REPLY TO PART (A) & (B) OF UNSTARRED QUESTION No. 454 TO BE ANSWERED IN LOK SABHA ON 03.02.2022 REGARDING “JAL SHAKTI ABHIYAN”.

State-wise Depth to water Level and Distribution of Percentage of Wells for the Period of November, 2021

S. No.	Name of State	No. of wells Analysed	Depth to Water Level (mbgl)		Number & Percentage of Wells Showing Depth to Water Level (mbgl) in the Range of											
					0-2		2-5		5-10		10-20		20-40		> 40	
			Min	Max	No	%	No	%	No	%	No	%	No	%	No	%
1	Andaman & Nicobar	94	0.07	7.04	82	87.2	10	10.6	2	2.1	0	0.0	0	0.0	0	0.0
2	Andhra Pradesh	724	0.00	49.99	367	50.7	225	31.1	98	13.5	27	3.7	6	0.8	1	0.1
3	Arunachal Pradesh	10	1.25	6.80	1	10.0	8	80.0	1	10.0	0	0.0	0	0.0	0	0.0
4	Assam	169	0.02	16.67	65	38.5	84	49.7	17	10.1	3	1.8	0	0.0	0	0.0
5	Bihar	593	0.00	10.69	232	39.1	326	55.0	33	5.6	2	0.3	0	0.0	0	0.0
6	Chandigarh	12	2.80	51.31	0	0.0	3	25.0	1	8.3	4	33.3	3	25.0	1	8.3
7	Chhattisgarh	694	0.31	22.00	110	15.9	390	56.2	162	23.3	29	4.2	3	0.4	0	0.0
8	Dadra & Nagar Haveli	17	1.17	7.05	4	23.5	11	64.7	2	11.8	0	0.0	0	0.0	0	0.0
9	Daman & Diu	5	0.14	6.35	1	20.0	2	40.0	2	40.0	0	0.0	0	0.0	0	0.0
10	Delhi	87	0.14	65.67	15	17.2	18	20.7	23	26.4	15	17.2	8	9.2	8	9.2
11	Goa	68	1.10	15.70	6	8.8	32	47.1	24	35.3	6	8.8	0	0.0	0	0.0
12	Gujarat	747	0.00	52.33	170	22.8	276	36.9	177	23.7	88	11.8	33	4.4	3	0.4
13	Haryana	183	0.63	76.50	14	7.7	40	21.9	34	18.6	50	27.3	35	19.1	10	5.5

14	Himachal Pradesh	86	0.24	32.85	23	26.7	29	33.7	18	20.9	14	16.3	2	2.3	0	0.0
15	Jammu & Kashmir	213	0.32	31.80	79	37.1	80	37.6	39	18.3	9	4.2	6	2.8	0	0.0
16	Jharkhand	205	0.35	10.09	26	12.7	145	70.7	33	16.1	1	0.5	0	0.0	0	0.0
17	Karnataka	1290	0.01	26.58	502	38.9	454	35.2	287	22.2	46	3.6	1	0.1	0	0.0
18	Kerala	1304	0.01	53.60	330	25.3	459	35.2	425	32.6	83	6.4	6	0.5	1	0.1
19	Madhya Pradesh	1296	0.08	37.76	168	13.0	588	45.4	422	32.6	105	8.1	13	1.0	0	0.0
20	Maharashtra	1757	0.01	54.70	512	29.1	839	47.8	315	17.9	71	4.0	18	1.0	2	0.1
21	Meghalaya	24	0.20	4.80	10	41.7	14	58.3	0	0.0	0	0.0	0	0.0	0	0.0
22	Nagaland	2	3.58	6.05	0	0.0	1	50.0	1	50.0	0	0.0	0	0.0	0	0.0
23	Odisha	1253	0.06	13.60	503	40.1	602	48.0	139	11.1	9	0.7	0	0.0	0	0.0
24	Pondicherry	6	0.83	2.50	4	66.7	2	33.3	0	0.0	0	0.0	0	0.0	0	0.0
25	Punjab	176	0.02	42.00	13	7.4	43	24.4	34	19.3	48	27.3	36	20.5	2	1.1
26	Rajasthan	919	0.25	116.98	59	6.4	171	18.6	185	20.1	177	19.3	162	17.6	165	18.0
27	Tamil Nadu	541	0.05	62.50	230	42.5	142	26.2	113	20.9	42	7.8	7	1.3	7	1.3
28	Telangana	545	0.00	50.14	154	28.3	252	46.2	100	18.3	29	5.3	9	1.7	1	0.2
29	Tripura	22	0.31	6.58	6	27.3	13	59.1	3	13.6	0	0.0	0	0.0	0	0.0
30	Uttar Pradesh	650	0.00	43.95	233	35.8	202	31.1	115	17.7	81	12.5	16	2.5	3	0.5
31	Uttarakhand	45	0.04	55.16	7	15.6	11	24.4	15	33.3	6	13.3	4	8.9	2	4.4
32	West Bengal	733	0.14	29.35	265	36.2	283	38.6	103	14.1	66	9.0	16	2.2	0	0.0
Total		14470	0.00	116.98	4191	29.0	5755	39.8	2923	20.2	1011	7.0	384	2.7	206	1.4