

GOVERNMENT OF INDIA  
MINISTRY OF JAL SHAKTI  
DEPARTMENT OF DRINKING WATER AND SANITATION

**LOK SABHA**  
**UNSTARRED QUESTION NO. 1186**  
**ANSWERED ON 09.02.2023**

**Water Stressed Areas**

1186. SHRI L.S. TEJASVI SURYA:  
SHRI PRATHAP SIMHA:  
DR. UMESH G. JADHAV:  
SHRI SANGANNA AMARAPPA:  
SHRI SHA.BRA.DR.JAI SIDDESHWAR  
SHIVACHARYA MAHASWAMIJI:

Will the Minister of JAL SHAKTI be pleased to state:

- (a) the details of the water stressed areas in Karnataka and Maharashtra, district-wise;
- (b) whether the Government has taken any initiatives to boost the recharging process of the ground water and harvesting techniques of the rain water;
- (c) if so, the details thereof;
- (d) whether the Government has any proposal to build the rainwater harvesting structures such as percolation tanks and recharge wells in the rural areas; and
- (e) if so, the details thereof?

**ANSWER**

**MINISTER OF STATE FOR JAL SHAKTI**  
**(SHRI PRAHLAD SINGH PATEL)**

a) The Dynamic Ground Water Resources of the country are periodically assessed jointly by Central Ground Water Board (CGWB) and State Governments including Karnataka and Maharashtra. The State Wise details of districts having Over-Exploited, Semi Critical and Critical Assessment Units in Karnataka and Maharashtra is given in **Annexure I**.

b & c) CGWB under Ground Water Management and Regulation (GWM&R) scheme has implemented several successful artificial recharge projects in the country for demonstrative purpose. The details are as below:

**i.) Artificial Recharge work in Aspirational Districts (2018-2020):**

Under this activity, suitable site-specific structures like Check Dams, Piezometers, Recharge shaft, and Recharge wells were constructed to harvest runoff water to store at suitable locations for augmenting recharge to the groundwater through WAPCOS.

S.No	State / District / Block	Details	Fund Allocated
1	Maharashtra / Osmanabad / Osmanabad	Constructed 55 Check Dams, 20 Piezometers & 46 Recharge wells.	Rs. 54.38 Cr.
2	Andhra Pradesh / YSR Kadapa / Pulivendula	Constructed 16 Check dams, 4 Percolation tanks Sub-surface barriers and 36 Recharge shaft & 12 Piezometers.	
3	Telangana / Warangal / Bachennapet	Constructed 6 Check dams, 1 Sub-Subsurface barrier and 31 Recharge shaft & 9 Piezometers.	

**ii.) Construction of Bridge Cum Bandhara in Maharashtra (2018-2020):**

The government had allocated Rs. 30.29 Cr for the construction of Bridge cum Bandhara (BCB) by using state of art technology, which serves a dual purpose of transportation as well as storage of water on the upstream side for drinking and irrigational needs besides groundwater recharge as a pilot study at the following location:

1. Sarwadi village, Karanja Teshil, Wardha District
2. Deoli village, Deoli Tehsil, Wardha District
3. Jamni village, Selu Tehsil, Wardha District
4. Tiwasa village, Tiwasa Tehsil, Amravati District
5. Ajra Phata village, Samudrapur Tehsil, Wardha District

Automatic Radial Gates have been installed at Sarwadi, Tiwasa, Deoli & Jamni & Rubber dam at Ajra Phata to regulate the flow of water in the streams.

**iii.) Convergence with MGNREGS in Water Stressed areas:**

- CGWB is providing technical guidance in the site selection & design of artificial recharge structures and capacity building of MGNREGS officials in selected 09 Blocks of 08 States as a pilot study.
- The work has been initiated under the MGNREGS fund, so far completed in Andhra Pradesh, Telangana & Tamil Nadu (one block each) and the work is under progress in the rest of the blocks of the states.

**iv.) Groundwater augmentation through artificial recharge:**

- During 2021-22, CGWB has taken up the project on 'Groundwater augmentation through artificial recharge in identified water stressed areas of Rajasthan, comprising Jodhpur, Jaisalmer & Sikar districts of Rajasthan. The structures include check dams, anicuts and recharge shaft with ponds.

d & e) Master Plan for Artificial Recharge to Groundwater- 2020 has been prepared by CGWB in consultation with States/UTs which is a macro level plan indicating various structures for the

different terrain conditions of the country including estimated cost. The Master Plan envisages construction of about 1.42 crore Rain water harvesting and artificial recharge structures in the country to harness 185 Billion Cubic Metre (BCM) of monsoon rainfall. DPR has to be prepared by the concerned line department of the State Government at an implementable level like any other water supply project or city development project. Implementation has to be done through existing schemes of the State Government only and no separate scheme/fund has been envisaged for implementation. The Master Plan for Artificial Recharge to Groundwater- 2020 circulated to all the States/UTs for implementation and also hosted at the website of CGWB (<http://cgwb.gov.in/Master%20Plan%20to%20GW%20Recharge%202020.pdf>)

## Annexure-I

## State Wise details of districts having Over-Exploited, Semi Critical and Critical Assessment Units in Karnataka and Maharashtra

Categorization of Assessment Units (Taluks) in Karnataka and Maharashtra (2022)						
S.No	State	Name of District	Total No. of Assessed Units	No. of Semi Critical Assessment Units	No. of Critical Assessment Units	No. of Over Exploited Assessment Units
1	KARNATAKA	Bagalkot	9	3	1	2
2		Belagavi	15	5	2	1
3		Bengaluru	4			4
4		Bengaluru	6			6
5		Bidar	8	2		
6		Chamarajanagara	5	2	1	2
7		Chikkaballapura	6			6
8		Chikkamagaluru	9			2
9		Chitradurga	6			5
10		Davanagere	6	1	1	2
11		Gadag	7	3		2
12		Hassan	8		1	1
13		Haveri	8	3	1	
14		Kalburgi	11	1		
15		Kolara	6			6
16		Koppal	7	2	1	
17		Mandya	7	1		
18		Mysuru	8	1		
19		Raichur	7	1		
20		Ramanagara	5	2	1	2
21		Tumakuru	10	1	1	5
22		Vijayanagara	6	1		3
23		Vijayapura	13	4	1	
24		Yadgir	6	2		
		<b>Total</b>	<b>183</b>	<b>35</b>	<b>11</b>	<b>49</b>
1	MAHARASHTRA	Ahmednagar	14	5	4	1
2		Akola	7	1		
3		Amravati	14	4		4
4		Aurangabad	9	7		
5		Buldhana	13	9		2
6		Jalgaon	15	9		2
7		Latur	10	1		
8		Nagpur	13	2		
9		Nashik	15	3	2	1
10		Osmanabad	8	2		
11		Pune	13	7	1	
12		Sangli	10	1		
13		Satara	11	3		
14		Solapur	11	7		1
15		Wardha	8	1		
16			<b>Total</b>	<b>171</b>	<b>62</b>	<b>7</b>

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