

GOVERNMENT OF INDIA

MINISTRY OF JAL SHAKTI

DEPARTMENT OF WATER RESOURCES, RIVER DEVELOPMENT & GANGA REJUVENATION

RAJYA SABHA

UNSTARRED QUESTION NO. 2006

ANSWERED ON 07.08.2023

NATIONAL AQUIFER MAPPING PROGRAM

2006. SHRI PARIMAL NATHWANI

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

- (a) the benefits of the National Aquifer Mapping Program in terms of groundwater management;
- (b) the current status of the program in Andhra Pradesh and Gujarat, district-wise, and the details thereof; and
- (c) the details of the funds disbursed, and utilized for the National Aquifer Mapping Program in the States of Andhra Pradesh and Gujarat?

ANSWER

THE MINISTER OF STATE FOR JAL SHAKTI

(SHRI BISHWESWAR TUDU)

(a) National Aquifer Mapping and Management Programme (NAQUIM) was taken up by the Central Ground Water board (CGWB) with the objectives of delineation and characterization of aquifer systems in the country and preparation of aquifer management plans through scientific means. Major benefits of NAQUIM studies are that, they have provided better insights into the occurrence and disposition of aquifer systems and thereby helping in formulation of suitable ground water management strategies for overall sustainable ground water management in the country.

Further, these outputs of NAQUIM studies are being used in planning of activities like safe drinking water source finding & source sustainability, interventions for rainwater harvesting/groundwater recharge and water conservation, assured irrigation through ground water in areas that have adequate ground water potential, ground water regulation, participatory groundwater management etc.

(b) In Andhra Pradesh, the NAQUIM studies have been completed in all the 26 districts covering a mappable area of around 1.40Lakh Sq. Km. Details are given at **Annexure I**.

Further, in Gujarat, the NAQUIM studies have been completed in all the 33 districts covering a mappable area of around 1.62Lakh Sq. Km. Details are given at **Annexure II**.

(c) Major activities being taken up under the GWM&R scheme include aquifer mapping for the entire country (NAQUIM) and other activities of CGWB such as ground water level & quality monitoring on regular basis, periodic assessment of dynamic ground water resources in collaboration with States/UTs, regulation and control of ground water withdrawal in certain States/UTs, taking up few demonstrative recharge projects in selected water stressed areas, strengthening of scientific infrastructure for technological upgradation etc.

CGWB undertakes all the works through a common Regional office in the States of Andhra Pradesh & Telangana and Gujarat & Daman & Diu therefore, the combined funds allocation/expenditure in these States (cumulative figures since 2012-13) are given as under.

State	Allocation and Expenditure under the GWMR scheme including NAQUIM (Rs in Crore)	
	Allocation	Expenditure
Andhra Pradesh including Telangana	74.82	70.74
Gujarat including Daman & Diu	75.27	70.07

ANNEXURE REFERRED TO IN REPLY TO PART (b) OF UNSTARRED QUESTION NO. 2006 TO BE ANSWERED IN RAJYA SABHA ON 07.08.2023 REGARDING “NATIONAL AQUIFER MAPPING PROGRAM”

DISTRICT WISE AREA MAPPED UNDER NAQIM IN THE STATE OF ANDHRA PRADESH

S.No.	Reorganized District	Carved from the erstwhile district	Mappable area of the Reorganized district (Sq.km.)	Status of NAQIM
1	Alluri Sitharama Raju	Parts of East Godavari and Visakhapatnam	6392	Completed
2	Anakapalli	Visakhapatnam	3455	Completed
3	Ananthapuramu	Anantapuram	9465	Completed
4	Annamayya	Parts of Chittoor and YSR Kadapa	6654	Completed
5	Bapatla	Guntur	3801	Completed
6	Chittoor	Chittoor	6017	Completed
7	East Godavari	East Godavari	2546	Completed
8	Eluru	West Godavari	6592	Completed
9	Guntur	Guntur	2423	Completed
10	Kakinada	East Godavari	2881	Completed
11	Konaseema	East Godavari	2080	Completed
12	Krishna	Krishna	3881	Completed
13	Kurnool	Kurnool	7559	Completed
14	Nandyal	Kurnool	7062	Completed
15	NTR	Krishna	3063	Completed
16	Palnadu	Guntur	6517	Completed
17	Parvathipuram Manyam	Parts of Vizianagaram and Srikakulam	3298	Completed
18	Prakasam	Prakasam	11382	Completed
19	SPSR Nellore	SPSR Nellore	9942	Completed
20	Sri Sathya Sai	Anantapuram	7636	Completed
21	Srikakulam	Srikakulam	4467	Completed
22	Tirupati	Parts of SPSR Nellore and Chittoor	7625	Completed
23	Visakhapatnam	Visakhapatnam	1002	Completed
24	Vizianagaram	Vizianagaram	4013	Completed
25	West Godavari	West Godavari	2178	Completed
26	Y.S.R Kadapa	Y.S.R Kadapa	8789	Completed
Total			140720	Completed

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DISTRICT WISE AREA MAPPED UNDER NAQUIM IN THE STATE OF GUJARAT

Sl No	District	Mappable area of district (Sq.kms)	Status of NAQUIM
1	AHMEDABAD	7077	Completed
2	AMRELI	7478	Completed
3	ANAND	3041	Completed
4	ARVALLI	3104	Completed
5	BANASKANTHA	10501	Completed
6	BHARUCH	5463	Completed
7	BHAVNAGAR	7281	Completed
8	BOTAD	2485	Completed
9	CHHOTA UDEPUR	3265	Completed
10	DAHOD	3520	Completed
11	DANG	1449	Completed
12	DEVBHUMI DWARKA	4206	Completed
13	GANDHINAGAR	2155	Completed
14	GIR SOMNATH	3286	Completed
15	JAMNAGAR	6423	Completed
16	JUNAGADH	5471	Completed
17	KACHCHH	20491	Completed
18	KHEDA	3438	Completed
19	MAHESANA	4407	Completed
20	MAHISAGAR	2459	Completed
21	MORBI	4993	Completed
22	NARMADA	2510	Completed
23	NAVSARI	2168	Completed
24	PANCHMAHAL	3255	Completed
25	PATAN	5687	Completed
26	PORBANDAR	2305	Completed
27	RAJKOT	7763	Completed
28	SABARKANTHA	4074	Completed
29	SURAT	4212	Completed
30	SURENDRANAGAR	9276	Completed
31	TAPI	3086	Completed
32	VADODARA	4064	Completed
33	VALSAD	2384	Completed
Total		162777	Completed
