

GOVERNMENT OF INDIA
MINISTRY OF JAL SHAKTI

DEPARTMENT OF WATER RESOURCES, RIVER DEVELOPMENT & GANGA REJUVENATION
RAJYA SABHA

UNSTARRED QUESTION NO. 95

ANSWERED ON 20.07.2026

NATIONAL AQUIFER MAPPING MANAGEMENT (NAQUIM) PROGRAMME 2.0

95. Shri ANIL KUMAR YADAV MANDADI:

Will the Minister of **Jal Shakti** be pleased to state:

- (a) whether it is a fact that Central Ground Water Board (CGWB) had initiated National Aquifer Mapping Management (NAQUIM) 2.0 under which State of the Art Technologies are being used for generation of aquifer information of high granularity; and
- (b) if so, the details thereof and the details of broad contours under which generation of aquifer information of high granularity had been initiated?

ANSWER

THE MINISTER OF STATE FOR JAL SHAKTI

(SHRI RAJ BHUSHAN CHOUDHARY)

(a) & (b) Yes, Central Ground Water Board (CGWB) under the Ministry of Jal Shakti launched the National Aquifer Mapping and Management (NAQUIM) 1.0 Programme in 2012 under the Ground Water Management and Regulation (GWMR) Scheme. Under the programme, aquifer mapping covering the entire identified mappable area of about 25 lakh sq. km of the country has been completed at regional scale.

Building on the achievements of NAQUIM 1.0, NAQUIM 2.0 was launched in 2023 to generate high resolution aquifer information for scientific groundwater management at the local level. The programme aims to provide issue-specific scientific inputs for groundwater management up to the Panchayat level in prioritised areas, in consultation with the respective State Governments. It focuses on water-stressed regions, coastal areas, urban agglomerations, springsheds, industrial and mining areas, deep-seated aquifers and areas affected by poor groundwater quality to support sustainable groundwater management.

To generate high resolution aquifer information, the Government is leveraging advanced technologies and digital platforms including Remote Sensing (RS) and Geographic Information System (GIS) technologies for aquifer mapping, high resolution Heliborne Geophysical Surveys for subsurface aquifer characterization, creation of a nationwide network of Digital Water Level Recorders (DWLRs) with telemetry for real-time groundwater monitoring and dissemination of groundwater data, web based INGRESS platform for groundwater assessment. and collaboration with BISAG-N and the Space Applications Centre (SAC), Ahmedabad for preparation of detailed aquifer maps and identification of groundwater recharge zones.

These initiatives strengthen scientific understanding of aquifer systems and support evidence based planning for sustainable groundwater.
