



भारत सरकार
Government of India
जल शक्ति मंत्रालय
Ministry of Jal Shakti
जल संसाधन, नदी विकास और गंगा संरक्षण विभाग
Department of Water Resources, River
Development and Ganga Rejuvenation

केंद्रीय भूजल बोर्ड
Central Ground Water Board

वार्षिक कार्य योजना Annual Action Plan 2025-26

Faridabad
April 2025



Government of India
Ministry of Jal Shakti
Department of Water Resources, River Development
Central Ground Water Board

Annual Action Plan

2025-26

Faridabad
April 2025

डॉ. सुनील कुमार अम्बष्ट
अध्यक्ष
Dr. Sunil Kumar Ambast
Chairman



भारत सरकार
जल शक्ति मंत्रालय
जल संसाधन,
नदी विकास और गंगा संरक्षण विभाग
केन्द्रीय भूमि जल बोर्ड
Government of India
Ministry of Jal Shakti
Department of Water Resources,
River Development & Ganga Rejuvenation
Central Ground Water Board

Message

The increasing dependence on groundwater, coupled with emerging challenges in its management, underscores the need for a dynamic and proactive approach. The Central Ground Water Board (CGWB) remains steadfast in its mission to ensure sustainable groundwater development through scientific assessment, monitoring, and conservation efforts.

With the Annual Action Plan 2025-26, we set out to further strengthen our initiatives. This year's roadmap includes key interventions such as groundwater level and quality monitoring, aquifer mapping, and resource assessment. Additionally, we will expand efforts under NAQUIM and other flagship programs, incorporating the construction of exploratory wells, installation of Digital Water Level Recorders (DWLRs), and large-scale geophysical surveys. These initiatives will provide critical insights for informed decision-making and policy formulation.

Realizing these objectives requires not just planning but also seamless execution. I appreciate the dedicated efforts of the team in shaping this document and urge all members to ensure efficient implementation by aligning resources, enhancing coordination, and maintaining a close watch on progress. Our success depends on collective commitment and collaboration at all levels.

I am confident that with our shared vision and dedication, we will make significant strides in groundwater conservation and management this year, taking CGWB's mission to greater heights.

(Dr. Sunil Kumar Ambast)

Faridabad
16th April, 2025

डॉ. ए. असोकन
सदस्य
Dr. A. Asokan
Member



भारत सरकार
जल शक्ति मंत्रालय
जल संसाधन, नदी विकास
और गंगा संरक्षण विभाग
केंद्रीय भूमि जल बोर्ड
Government of India
Ministry of Jal Shakti
Department of Water Resources,
River Development and Ganga Rejuvenation
Central Ground Water Board

16th April 2025

FOREWORD

Groundwater management is a dynamic and evolving challenge, demanding strategic planning, rigorous execution, and cross-sectoral collaboration. The Annual Action Plan 2025-26 is a testament to the Central Ground Water Board's (CGWB) unwavering commitment to addressing these challenges with a scientific and data-driven approach.

This year, we are focusing on enhancing groundwater monitoring, strengthening aquifer mapping, and expanding high-frequency data collection through Digital Water Level Recorders (DWLRs) and advanced geophysical surveys. At the same time, on-field interventions will be prioritized to ensure that our efforts translate into measurable outcomes for groundwater sustainability. A clear roadmap has been laid out, outlining region-wise targets, major schemes, and key deliverables, ensuring better alignment with national water resource strategies.

The success of this plan hinges on the collective efforts of all stakeholders—Regional Offices, Scientists, Engineers, and field teams—who play a crucial role in translating plans into action. I extend my appreciation to everyone involved in preparing this document and urge all members to remain proactive in implementing the outlined initiatives with precision and commitment.

Together, let us take CGWB's mission forward, ensuring sustainable and resilient groundwater resources for the future.

(Dr A Asokan)
Member



वसुधैव कुटुम्बकम्
ONE EARTH • ONE FAMILY • ONE FUTURE

Table of Contents

| | |
|--|----------|
| 1. Introduction | 1 |
| 2. Schemes and Activities | 1 |
| 2.1 Ground Water Management and Regulation Scheme:..... | 1 |
| 2.2 NAQUIM Project | 3 |
| 2.3 Training and Capacity Building (RGNGWTRI) | 3 |
| 2.4 Other Activities..... | 3 |
| 3. Major Goals for the Next Five Years (2024-29) | 4 |
| 4. Goals for the year 2025-26..... | 6 |
| 5. Activities and Targets for 2025-26 | 7 |
| 5.1 Ground Water Management and Regulation Scheme..... | 7 |
| 5.1.1 Ground Water Level Monitoring-..... | 7 |
| 5.1.2 Ground Water Quality Monitoring- State wise targets | 8 |
| 5.1.3 Exploratory Drilling | 9 |
| 5.1.4 Geophysical Studies | 9 |
| 5.1.5 Ground Water Quality Sample Analysis (target for chemical labs)..... | 10 |
| 5.1.6 Ground Water Resource Assessment..... | 11 |
| 5.1.7 Artificial Recharge | 11 |
| 5.1.8 Outreach Activities | 12 |
| 5.1.9 NAQUIM 2.0 studies | 13 |
| 5.1.10 Priority area wise NAQUIM 2.0 studies for AAP 2025-26..... | 15 |
| 5.1.11 Finalisation and sharing of Reports of Studies taken up during 2024-25..... | 16 |
| 5.1.12 Special Studies/Collaborative Studies..... | 17 |
| 5.1.13 Data Integration..... | 19 |
| 5.1.14 New MoUs to be signed | 19 |
| 5.1.15 Central Ground Water Authority - Regulation and control of ground water extraction | 19 |
| 5.2 NAQUIM Project - PIB..... | 20 |
| 5.2.1 Construction of Piezometers and Installation of DWLRs | 20 |
| 5.2.2 Construction of EWs and OWs for data generation for aquifer mapping. | 21 |
| 5.2.3 State-wise details of 7000 Pz under PIB | 21 |
| 5.2.4 State-wise details of 1135 EW& OW under PIB..... | 22 |

| | | |
|-------|--|-----------|
| 5.3 | Rajiv Gandhi National Ground Water Training and Research Institute – Training and capacity building | 22 |
| 5.4 | Technical Assistance to other Schemes | 24 |
| 5.4.1 | Jal Shakthi Abhiyan..... | 24 |
| 5.4.2 | Technical Assistance to Government Agencies | 24 |
| 5.4.3 | Sharing of outputs with State Government and Quarterly meetings with allied agencies. | 24 |
| 5.4.4 | Other activities | 24 |

Annual Action Plan – 2025-26

1. Introduction

Central Ground Water Board (CGWB) is a scientific organisation with its headquarters at Faridabad. The Board is headed by the Chairman and has five Members. The Board also functions as Central Ground Water Authority (CGWA) with its office at New Delhi. CGWB operates through its 18 Regional Offices, 10 Unit Offices, 17 Divisions, 16 Chemical laboratories and a Training Institute.

Most of the activities of the Board are undertaken as a part of the Central Sector Scheme titled 'Ground Water Management and Regulation (GWMR) scheme'. In addition to above, CGWB also is an implementing agency of National Hydrology Project (NHP). CGWB also implements specific components of other schemes of DoWR, RD & GR like i) RGNGWTRI ii) Ground Water component of the PMKSY – HKKP scheme, iii) supporting implementation of Atal Bhujal Yojana.

The Annual Action Plan of CGWB for 2025-26 (AAP 2025-26) is a compilation of activities that the Board has planned to carry out during the financial year 2025-26 (1st April 2025 to 31st March 2026). The AAP has been prepared with inputs from field offices and after wider consultation within the CGWB.

2. Schemes and Activities

2.1 Ground Water Management and Regulation Scheme:

Ground Water Management and Regulation (GWMR) is a central sector scheme. The scheme has been approved for continuation till 2026. Aim of the scheme is to provide scientific inputs for the sustainable development and management of ground water resources in the country. Total Outlay of the scheme for the period 2021-26 is Rs 997 cr. Aligned with the stated aim, the ground water management and regulation plan scheme has been devised with the following objectives:

- Periodic monitoring of ground water levels and ground water quality.
- Periodic assessment of ground water resources in association with State Governments.
- Regulation and control of ground water development/extraction.
- Preparation of ground water management plans.
- Implementing demonstrative projects on aquifer rejuvenation and springshed mapping in identified areas.
- Capacity building of ground water professionals of CGWB through training in reputed Indian and international training Institutes.
- Upgradation of technological capabilities and infrastructure of the Central Ground Water Board to meet the upcoming challenges in ground water field.

Financial outlays and major activities along with their targets projected in the EFC memo of GWMR scheme for the period 2021-26 are summarised in the following tables (2.1 and 2.2)

| Table 2.1: Components and financial outlay of Ground Water Management and Regulation (GWMR) Scheme | | | | | | | |
|---|--------------------------|---|---------------------------|--------------|--------------|--------------|--------------|
| S.No | Revenue / Capital | Components/ Activities | Outlay (Rs in Cr.) | | | | |
| | | | 21-22 | 22-23 | 23-24 | 24-25 | 25-26 |
| 1 | Capital | Component I: Monitoring, Assessment, Management and Regulation | 136 | 76 | 27 | 27 | 28 |
| | | Data acquisition for Aquifer Mapping (inhouse), Interventions for Aquifer Rejuvenation, Construction of Piezometers (inhouse), Committed liabilities towards activities sanctioned during previous years, | | | | | |
| 2 | Revenue | Ground Water monitoring, resource assessment, Regulation, information dissemination etc | 82 | 86 | 90 | 95 | 100 |
| 3 | Capital | Component II: Strengthening of Infrastructure for Technological upgradation (Machinery and Equipment) | 40 | 145 | 26 | 29 | 10 |
| Total (1+2+3) | | | 258 | 307 | 143 | 151 | 138 |
| | | | | | | | 997 |

| Table 2.2: Major Activities projected under the GWMR Scheme | |
|---|------------------------|
| Activities | Targets |
| VES/TEM | 2600 per year |
| Drilling | 650 per year |
| WQ analysis | 38000 per year |
| NAQUIM | 8.5 lakh sq km (total) |
| FTE | 75 persons (total) |
| Monitoring | 23,000 per year |
| Year book | 23 per year |
| GWRA | 1 per year |
| Profiling, Logging, Infiltration studies, Aquifer wise water level monitoring, Aquifer Rejuvenation, Technical Assistance, Outreach, Regulation | Need based |
| DWLR installation | 2000 (total) |

2.2 NAQUIM Project

Public Investment Board (PIB) has approved a project for National Aquifer Mapping to be implemented during 2022 to 2026. The Project is part of GWMR scheme. Salient features of the project are given below.

| Activity | Physical Target | Estimated Cost (Rs in cr) |
|--|---|---------------------------------|
| Construction of Piezometers | 7000 units (1000+3000+3000+0) | 384 (25+150+150+59) |
| Installation of DWLRs with telemetry | 7000 units (0+1000+3000+3000) | 145 (0+21+62+62) |
| Heli-borne Geophysical Surveys | 2.93 sq km (0.62+1.33+0.98+0) | 151 (45+45+61+0) |
| Data generation | 1135 wells (1135+0+0+0) | 125 (55+70+0+0) |
| | | 805 (125+286+273+121) |
| <i>Numbers in bracket indicate break up for four years since the inception of the project (2022)</i> | | |

2.3 Training and Capacity Building (RGNGWTRI)

Rajiv Gandhi National Ground Water Training and Research Institute (RGNGWTRI), Raipur, Chhattisgarh is the training institute of CGWB dedicated to groundwater. RGNGWTRI implements a three-tiered training programme in association with the regional offices of CGWB.

2.4 Other Activities

In addition to the schemes and programmes listed above, CGWB also carries out activities under National Hydrology Project, other activities under other schemes and programmes. Major activities are listed below.

- Jal Shakti Abhiyan
- Atal Bhujal Yojana

3. Major Goals for the Next Five Years (2024-29)

| Survey Assessment and Monitoring | |
|---|---|
| 1. Strengthening and Automation of Ground Water Monitoring | <ul style="list-style-type: none">• Additional Piezometers and DWLRs: 12000• (PIB-7000+GWMR-2000+@1000 per year after 2026) |
| 2. Integration of Ground Water Quality Data | <ul style="list-style-type: none">• Designing of standard format and platforms.• Integration of quality data from CGWB, States, JJM, CPCB etc.• Development of web-based application and mobile app. |
| 3. Dissemination of usable information | |
| Ground Water Exploration | |
| 1. Innovative Ground Water Exploration Units | <ul style="list-style-type: none">• Advanced exploration units including equipment for drilling, pumping test, water quality sampling, logging, borehole camera etc. for detailed aquifer mapping |
| 2. Climate Change- mitigation: Exploring carbon sequestration in deep aquifer (Saline) as an alternative sink | <ul style="list-style-type: none">• Pilot field study• Drilling of 6 wells (up to 1500 m) in northern & NW alluvial zone• Proposed under India EU WP |
| Water Quality | |
| <ul style="list-style-type: none">• Mapping and Management of seawater ingress | <ul style="list-style-type: none">• Airborne TEM survey along the coast to mark extent of saline ingress as on date.• In-fill Surveys in vulnerable areas• Management plan preparation |
| <ul style="list-style-type: none">• Prevention of contamination and restoration of aquifers. | <ul style="list-style-type: none">• Monitoring and Management of vadose zone• Strengthening of laboratories• Regulation for protection of aquifers against contamination• Guidelines for use of treated wastewater• Interventions for Prevention of ground water contamination• Introducing guidelines for regulation:<ul style="list-style-type: none">○ Protection of aquifers against contamination○ Prevention of salinity ingress in aquifers○ Use of treated water |
| <ul style="list-style-type: none">• Centre of Excellence | <ul style="list-style-type: none">• Centre of Excellence for Aquifer Mapping (proposed in collaboration with Denmark. Proposal submitted to DoWR.) |
| Sustainable Management | |
| <ul style="list-style-type: none">• Managed aquifer recharge in priority areas | <ul style="list-style-type: none">100 priority areas (to be saturated)• MAR (RWH) demo projects• Impact assessment of projects |

| | |
|---|--|
| <ul style="list-style-type: none"> • Rejuvenation of Palaeochannels | <ul style="list-style-type: none"> • Feasibility Study – upto 2026. • Provision in EFC memo for rejuvenation of identified palaeochannels – 2026-29 |
| <ul style="list-style-type: none"> • Increasing groundwater use efficiency and optimization of groundwater use. | <ul style="list-style-type: none"> • Metering of ground water draft for irrigation • Surveys for assessing ground water use efficiency • Preparation and implementation of plans for increasing water use efficiency • New Guidelines <ul style="list-style-type: none"> ○ Reducing virtual water transfer |
| <ul style="list-style-type: none"> • Ground Water Development and Springshed Management in Hilly areas (PMKSY-HKKP-GW) | <ul style="list-style-type: none"> • Implementation of the scheme |
| Research, Training and Outreach | |
| <ul style="list-style-type: none"> • Trainings by RGNGWTRI | <ul style="list-style-type: none"> • Training Plan: Integrated Training Strategy is being worked out. • Introduce Certificate Courses in ground water • Introduction of online training and exams • Learning Management System (LMS) to be made operational. • Online training modules in Mission Karmayogi's Integrated Government Online Training platform (iGOT) |
| <ul style="list-style-type: none"> • Indigenous Technology and Tools Development | <ul style="list-style-type: none"> • Software and Hardware Solutions to be developed under SIH • Startup handholding for developing tools and solutions for groundwater management. |
| <ul style="list-style-type: none"> • Development of Earthquake early warning System | <ul style="list-style-type: none"> • Study initiated in 2024-25 in collaboration with Ministry of Mines and Ministry of Earth Science |
| <ul style="list-style-type: none"> • Outreach | <ul style="list-style-type: none"> • 1000 programmes and 1 lakh persons • Standardisation of study material • Online platform for outreach activities |
| <ul style="list-style-type: none"> • Applied research in the field of ground water | <ul style="list-style-type: none"> • Collaborative Research • Research activities are proposed primarily through collaboration with leading Indian and foreign institutes. |

4. Goals for the year 2025-26

| | Goals |
|---|---|
| 1 | Completion of PIB approved project for NAQUIM data generation <ol style="list-style-type: none"> 1. Completion of construction of remaining 4174 (out of 7000 total) piezometers by 30th September 2025 2. Completion of installation of 7000 DWLRs by 31st December, 2025 3. Completion of construction of remaining 568 EWs/OWs (out of 1135 total) by 30th Sept 2025. 4. Commencement/ Initiation of ground implementation of Heli-borne geophysical survey(Phase-II) by 30th June 2025. |
| 2 | Leveraging advanced technologies for improving NAQUIM studies <ol style="list-style-type: none"> 5. Signing of MoU with Space Application Centre (SAC), Ahmedabad to promote application of remote sensing in NAQUIM studies - by 30th June 2025 6. Establishment of stable isotope in CGWB for taking up various isotope studies pertaining to ground water recharge and flow -by 30th Sept. 2025 |
| 3 | Development of practical models for using high frequency ground water data <ol style="list-style-type: none"> 7. Finalization of SoP for DWLR data Validation, Integration, Dissemination, Use and Reporting (DWLR-VIDUR) - by 30th June 2025 |
| 4 | Introducing new guidelines / revision of existing ones under CGWA <ol style="list-style-type: none"> 8. Guidelines for use of treated wastewater for artificial recharge – 30th June. 2025 9. Submission of report of the Committee on guidelines for regulation and control of groundwater extraction – 31st May. 2025 |
| 5 | Research and Innovation <ol style="list-style-type: none"> 10. Development of equipment for measurement of water levels in flowing wells- based on SIH 2024 11. Development of an educational game on groundwater conservation and management- based on SIH 2024. 12. Software application for analysis of DWLR data and raise alarms in respect of anomalous values, faulty DWLRs etc.– based on SIH 2024. |
| 6 | Timely completion of regime monitoring studies and releasing reports <ol style="list-style-type: none"> 13. Release of ground water level year book of India – by 30th Sept. 2025 14. Issuance of four GW level Bulletins (State-wise and national)- by 15th February, 30th June, 15th September and 15th December. 15. Release of ground water quality year book of India – by 30th Sept. 2025. 16. Issuance of two (Pre-Monsoon & Post Monsoon) GW Quality Bulletins (State wise and national)- by 15th December and 15th April respectively. 17. Issue of fortnightly ground water quality alerts – total 24 alerts to be issued in a year. 18. Assessment of dynamic ground water resources 2025 and release of the National compilation. – by 30th Sept. 2025 |

5.

5. Activities and Targets for 2025-26

Major Activities and their quantitative targets are outlined in this section.

5.1 Ground Water Management and Regulation Scheme

5.1.1 Ground Water Level Monitoring-

| S.No. | Region | State | Number of monitoring to be done per year | | Number of reports to be issued per year | |
|-------|--------|---------------|--|------------------------------------|---|-------------------------|
| | | | Manual Monitoring | Manual Monitoring of DWLR stations | Water Level Bulletin | Ground Water Year Books |
| 1 | CR | Maharashtra | 4 | 1 | 4 | 1 |
| 2 | ER | Andaman & | 2 | 0 | 2 | 1 |
| 3 | | Sikkim | 4 | 0 | | |
| 4 | | West Bengal | 4 | 1 | | |
| 5 | KR, | Kerala | 4 | 1 | 4 | 1 |
| 6 | | Lakshadweep | 4 | 0 | | |
| 7 | MER | Bihar | 4 | 1 | 4 | 1 |
| 8 | | Jharkhand | 4 | 1 | 4 | 1 |
| 9 | NCCR | Chhattisgarh | 4 | 1 | 4 | 1 |
| 10 | NCR | Madhya | 4 | 1 | 4 | 1 |
| 11 | NER | Arunachal | 4 | 1 | 4 | 1 |
| 12 | | Assam | 4 | 1 | | |
| 13 | | Manipur | 4 | 0 | | |
| 14 | | Meghalaya | 4 | 1 | | |
| 15 | | Mizoram | 4 | 0 | | |
| 16 | | Nagaland | 4 | 1 | | |
| 17 | | Tripura | 4 | 1 | | |
| 18 | NHR | Himachal | 4 | 1 | 4 | 1 |
| 19 | NR | Uttar Pradesh | 4 | 1 | 4 | 1 |
| 20 | NWHR | Jammu & | 4 | 1 | 4 | 1 |
| 21 | | Ladakh | 4 | 1 | | |
| 22 | NWR | Chandigarh | 4 | 1 | 4 | 1 |
| 23 | | Punjab | 4 | 1 | | |
| 24 | | Haryana | 4 | 1 | | |
| 25 | SECR | Puducherry | 4 | 1 | 4 | 1 |
| 26 | | Tamil Nadu | 4 | 1 | | |
| 27 | SER | Odisha | 4 | 1 | 4 | 1 |
| 28 | SR | Andhra | 4 | 1 | 4 | 1 |
| 29 | | Telangana | 4 | 1 | 4 | 1 |
| 30 | SUO | Delhi | 4 | 1 | 4 | 1 |
| 31 | SWR | Goa | 4 | 1 | 4 | 1 |
| 32 | | Karnataka | 4 | 1 | 4 | 1 |
| 33 | UR | Uttarakhand | 4 | 1 | 4 | 1 |
| 34 | WCR | D&NH, D& | 4 | 1 | 4 | 1 |
| 35 | | Gujarat | 4 | 1 | | |
| 36 | WR | Rajasthan | 4 | 1 | 4 | 1 |
| | | TOTAL | | | | 23 |

5.1.2 Ground Water Quality Monitoring- State wise targets

| S.No | Region | State | Sampling Type | | Number of alerts/reports to be issued | |
|------|--------|----------------------|---------------|--------------|---|--------------------------------|
| | | | Pre-monsoon | Post-monsoon | Fortnightly Ground Water Quality Alerts | Ground Water Quality Year Book |
| 1 | CR | Maharashtra | Background | Trend | 24 | 1 |
| 2 | ER | Andaman & Nicobar UT | Background | Trend | 24 | 1 |
| 3 | | Sikkim | Background | Trend | | |
| 4 | | West Bengal | Background | Trend | | |
| 5 | KR | Kerala | Background | Trend | 24 | 1 |
| 6 | | Lakshadweep | Background | Trend | | |
| 7 | MER | Bihar | Background | Trend | 24 | 1 |
| 8 | | Jharkhand | Background | Trend | 24 | 1 |
| 9 | NCCR | Chhattisgarh | Background | Trend | 24 | 1 |
| 10 | NCR | Madhya | Background | Trend | 24 | 1 |
| 11 | NER | Arunachal | Background | Trend | | 1 |
| 12 | | Assam | Background | Trend | 24 | |
| 13 | | Manipur | Background | Trend | | |
| 14 | | Meghalaya | Background | Trend | | |
| 15 | | Mizoram | Background | Trend | | |
| 16 | | Nagaland | Background | Trend | | |
| 17 | | Tripura | Background | Trend | | |
| 18 | NHR | Himachal | Background | Trend | 24 | 1 |
| 19 | NR | Uttar Pradesh | Background | Trend | 24 | 1 |
| 20 | NWHR | Jammu & | Background | Trend | 24 | 1 |
| 21 | | Ladakh | Background | Trend | | |
| 22 | NWR | Chandigarh | Background | Trend | 02 | 1 |
| 23 | | Punjab | Background | Trend | 24 | |
| 24 | | Haryana | Background | Trend | 24 | 1 |
| 25 | SECR | Puducherry | Background | Trend | | 1 |
| 26 | | Tamil Nadu | Background | Trend | 24 | |
| 27 | SER | Odisha | Background | Trend | 24 | 1 |
| 28 | SR | Andhra | Background | Trend | 24 | 1 |
| 29 | | Telangana | Background | Trend | 24 | 1 |
| 30 | SUO | Delhi | Background | Trend | 0 | 1 |
| 31 | SWR | Goa | Background | Trend | 24 | 1 |
| 32 | | Karnataka | Background | Trend | 24 | 1 |
| 33 | UR | Uttarakhand | Background | Trend | 24 | 1 |
| 34 | WCR | D &NH, D&D | Background | Trend | | 1 |
| 35 | | Gujarat | Background | Trend | 24 | |
| 36 | WR | Rajasthan | Background | Trend | 24 | 1 |
| | | TOTAL | | | | 23 |

5.1.3 Exploratory Drilling

Division wise targets for different types of wells are given below.

(Norms: DTH- 20 wells; Direct Rotary: 06 wells, Dual Rotary: 05 wells)

| Division / Region / SUO | Operational Drilling Rigs | | Target 2025-26 (revised) | | |
|-------------------------|---------------------------|------------|--------------------------|-----------|--------------|
| | DTH | DR | Target_DTH | Target_DR | Total Target |
| Div. I Ahmedabad | 0 | 3 | 0 | 18 | 18 |
| Div. II Ambala | 0 | 1 | 0 | 6 | 6 |
| Div. III Varanasi | 0 | 2 | 0 | 12 | 12 |
| Div. IV Chennai | 2 | 1 | 40 | 6 | 46 |
| Div. V Ranchi | 1 | 1 | 20 | 6 | 26 |
| Div. VI Nagpur | 1 | 0 | 20 | 0 | 20 |
| Div. VII Guwathi | 1 | 0 | 20 | 0 | 20 |
| Div. VIII Jammu | 2 | 1 (DualR) | 20 | 5 | 25 |
| Div. IX Hyderabad | 4 | 0 | 80 | 0 | 80 |
| Div. X Bhubaneswar | 0 | 0 | 0 | 0 | 0 |
| Div. XI Jodhpur | 1 | 2 | 20 | 12 | 32 |
| Div. XII Bhopal | 0 | 0 | 0 | 0 | 0 |
| Div. XIII Raipur | 1 | 0 | 20 | 0 | 20 |
| Div. XIV Bangalore | 1 | 0 | 20 | 0 | 20 |
| Div. XV Kolkata | 1 | 1 | 20 | 6 | 26 |
| Div. XVI Bareilly | 0 | 3+1(DualR) | 0 | 23 | 23 |
| Div. XVII Dharmshala | 2 | 0 | 20 | 0 | 20 |
| Total | 17 | 16 | 300 | 94 | 394 |

5.1.4 Geophysical Studies

Geophysical studies to be carried out for NAQUIM 2.0, special studies and other priority areas.

| S.No | Region | State | Number of Studies to be carried out | | |
|------|--------|----------------------|-------------------------------------|-----|-------|
| | | | VES | TEM | Total |
| 1 | CR | Maharashtra | 110 | 0 | 110 |
| 2 | ER | Andaman & Nicobar UT | 30 | 0 | 30 |
| 3 | | Sikkim | 0 | 75 | 75 |
| 4 | | West Bengal | 100 | 75 | 175 |
| 5 | KR | Kerala | 125 | 150 | 275 |
| 6 | MER | Bihar | 75 | 100 | 175 |
| 7 | | Jharkhand | 75 | 50 | 125 |
| 8 | NCCR | Chhattisgarh | 50 | 75 | 125 |
| 9 | NCR | Madhya Pradesh | 150 | | 150 |
| 10 | NER | Assam | 75 | 0 | 75 |
| 11 | | Nagaland | 25 | 0 | 25 |
| 12 | NHR | Himachal Pradesh | | 0 | 0 |

| S.No | Region | State | Number of Studies to be carried out | | |
|------|--------|-----------------|-------------------------------------|-------------|-------------|
| | | | VES | TEM | Total |
| 13 | NR | Uttar Pradesh | 25 | 150 | 175 |
| 14 | NWHR | Jammu & Kashmir | 75 | 0 | 75 |
| 15 | NWR | Haryana | 50 | 0 | 50 |
| 16 | | Punjab | 10 | 0 | 10 |
| 17 | SECR | Tamil Nadu | 200 | 75 | 275 |
| 18 | SER | Odisha | 225 | 0 | 225 |
| 19 | SR | Andhra Pradesh | 125 | 75 | 200 |
| 20 | | Telangana | 125 | 75 | 200 |
| 21 | SUO | Delhi | 50 | 0 | 50 |
| 22 | SWR | Goa | 25 | 0 | 25 |
| 23 | | Karnataka | 100 | 150 | 250 |
| 24 | UR | Uttarakhand | 75 | 0 | 75 |
| 25 | WCR | Gujarat | 100 | 0 | 100 |
| 26 | WR | Rajasthan | 50 | 150 | 200 |
| | | Total | 2050 | 1200 | 3250 |

5.1.5 Ground Water Quality Sample Analysis (target for chemical labs)

| SI No | Region | State/UT | Total Number of Samples to be analysed | | | |
|-------|--------|----------------------|--|-------------|-------------------|-------|
| | | | NHS | | Others | Total |
| | | | Basic | Heavy Metal | Basic&Heavy Metal | |
| 1 | CR | Maharashtra | 3125 | 3125 | 225 | 6475 |
| 2 | ER | Andaman & Nicobar UT | 143 | 143 | 90 | 376 |
| 3 | | Sikkim | 8 | 8 | 60 | 76 |
| 4 | | West Bengal | 1365 | 1365 | 1310 | 4040 |
| 5 | KR | Kerala | 916 | 916 | 210 | 2042 |
| 6 | | Lakshadweep | 0 | 0 | 0 | 0 |
| 7 | MER | Bihar | 1227 | 1227 | 396 | 2850 |
| 8 | | Jharkhand | 676 | 676 | 261 | 1613 |
| 9 | NCCR | Chhattisgarh | 1000 | 1000 | 412 | 2412 |
| 10 | NCR | Madhya Pradesh | 2500 | 2500 | 430 | 5430 |
| 11 | NER | Arunachal Pradesh | 75 | 75 | 0 | 150 |
| 12 | | Assam | 1228 | 1228 | 600 | 3056 |
| 13 | | Manipur | 9 | 9 | 0 | 18 |
| 14 | | Meghalaya | 194 | 194 | 80 | 468 |
| 15 | | Mizoram | 42 | 42 | 0 | 84 |
| 16 | | Nagaland | 88 | 88 | 322 | 498 |
| 17 | | Tripura | 125 | 125 | 300 | 550 |
| 18 | NHR | Himachal Pradesh | 221 | 221 | 66 | 508 |
| 19 | NR | Uttar Pradesh | 1990 | 1990 | 1204 | 5184 |
| 20 | NWHR | Jammu & Kashmir | 346 | 346 | 15 | 707 |
| 21 | | Ladakh | | | 0 | 0 |
| 22 | NWR | Chandigarh | 16 | 16 | 0 | 32 |

| SI No | Region | State/UT | Total Number of Samples to be analysed | | | |
|-------|--------|-----------------|--|--------------|-------------------|--------------|
| | | | NHS | | Others | Total |
| | | | Basic | Heavy Metal | Basic&Heavy Metal | |
| 23 | SECR | Haryana | 1105 | 1105 | 20 | 2230 |
| 24 | | Punjab | 1175 | 1175 | 300 | 2650 |
| 25 | | Puducherry (UT) | 11 | 11 | 205 | 227 |
| 26 | | Tamil Nadu | 918 | 918 | 545 | 2381 |
| 27 | SER | Odisha | 1750 | 1750 | 600 | 4100 |
| 28 | SR | Andhra Pradesh | 1265 | 1265 | 912 | 3442 |
| 29 | | Telangana | 1265 | 1265 | 448 | 2978 |
| 30 | SUO | Delhi | 200 | 200 | 0 | 400 |
| 31 | SWR | Goa | 135 | 135 | 491 | 761 |
| 32 | | Karnataka | 1600 | 1600 | 1701 | 4901 |
| 33 | | Uttarakhand | 381 | 381 | 0 | 762 |
| 34 | WCR | D &NH D& D (UT) | 17 | | 0 | 17 |
| 35 | | Gujarat | 1010 | 1010 | 800 | 2820 |
| 36 | WR | Rajasthan | 3975 | | 25 | 4000 |
| | | | 30601 | 26609 | 11928 | 69138 |

5.1.6 Ground Water Resource Assessment

- All assessment units in all States
- Refinement of parameters for Recharge/Draft estimation as a part of NAQUIM2.0 studies.
- Preparation and release of State and National level GWRA 2025 reports.

5.1.7 Artificial Recharge

| Name of Project | | Details of the Project | Targets for AAP 2025-26 |
|---|-----------|---|--|
| Artificial Recharge Project in Water stressed Districts of Rajasthan | Phase-I | Construction of Zone earth fill clay core dam at Indroka, Jodhpur | Final closure of the Project |
| | | Construction of Concrete Gravity Dam at Bastawa Mata, Jodhpur | <ul style="list-style-type: none"> • Completion of Remaining ancillary work and • final closure of the project |
| | Phase-II | Construction of 101 WHS | <ul style="list-style-type: none"> • Final closure of the project |
| | Phase-III | Construction of 53 WHS | <ul style="list-style-type: none"> • Final closure of the project |
| Artificial Recharge Project in Kala Amb Valley, Sirmaur District, Himachal Pradesh | | Construction of 07 concrete Check Dams and 12 Recharge Wells | <ul style="list-style-type: none"> • Redesign of AR structures (CD) and revising of DPR with WAPCOS • Finalization of Tender document • Floating of Tender • Award of Work • Execution of AR Structures |

Artificial Recharge Plan of Gurgaon and Faridabad, NWR.

5.1.8 Outreach Activities

Public Interaction Programme (PIP): Public Interaction Programme (PIP) are conducted to disseminate findings of NAQUIM studies at grassroots level. It is targeted to conduct one PIP in each of the NAQUIM 2.0 study area in which studies have been carried out during the previous AAP (2024-25) to disseminate the findings.

| S.No. | Region | State | Number of Public Interaction Programmes (PIP) to be conducted |
|--------------|--------|----------------------|---|
| 1 | CR | Maharashtra | 4 |
| 2 | ER | Andaman & Nicobar UT | 1 |
| 3 | | Sikkim | 1 |
| 4 | | West Bengal | 0 |
| 5 | KR | Kerala | 2 |
| 6 | MER | Bihar | 1 |
| 7 | | Jharkhand | 1 |
| 8 | NCCR | Chhattisgarh | 3 |
| 9 | NCR | Madhya Pradesh | 1 |
| 10 | NER | Nagaland | 1 |
| 11 | | Tripura | 1 |
| 12 | NR | Uttar Pradesh | 1 |
| 13 | NWHR | Jammu & Kashmir | 0 |
| 14 | NWR | Haryana | 2 |
| 15 | SECR | Tamil Nadu | 2 |
| 16 | SER | Odisha | 2 |
| 17 | SR | Andhra Pradesh | 1 |
| 18 | | Telangana | 2 |
| 19 | SUO | Delhi | 2 |
| 20 | SWR | Goa | 0 |
| 21 | | Karnataka | 2 |
| 22 | UR | Uttarakhand | 2 |
| 23 | WCR | Gujarat | 2 |
| TOTAL | | | 34 |

5.1.9 NAQUIM 2.0 studies

The current year focus for NAQUIM 2.0 studies will be on Urban agglomerate studies in the capital cities of all the States and UTs, which are not covered previously. A total of 25 such studies have been identified for this year, bringing the total to 42 studies, including other proposed studies.

| Sl | Region | State | Area (sq km) | District (s) | Title of the study / Priority Type |
|----|--------|---------------------------|--------------|--------------------------|--|
| 1 | CR | Maharashtra | 80 | Nanded | Impact of Urbanization & Industrialization on GW regime in NWMC area with respect to previous studies/ Urban Agglomeration. |
| 2 | | Bihar | 452.94 | Patna | Aquifer Management Plan of Patna Urban Area/ Urban Agglomeration. |
| 3 | MER | Jharkhand | 305 | Ranchi | Aquifer Management Plan of Ranchi Urban Area/ Urban Agglomeration. |
| 4 | NCR | Madhya Pradesh | 150 | Chhatarpur and Tikamgarh | Source Sustainability Study in Water Stressed Gram Panchayats of Chhatarpur and Tikamgarh district/ Water stressed Areas |
| 5 | | Telangana | 684 | Nalgonda | Contamination of fluoride in groundwater and its effect on human health in parts of Nalgonda/ Poor Ground Water Quality |
| 6 | SR | Andhra Pradesh | 520 | Palnadu | Hydrogeological Study for Delineation of Potential Aquifers in parts of Water-Stressed (Veldurthy Mandal)/ Water stressed Areas |
| 7 | | Andhra Pradesh | 602 | Tirupati | Urbanization and Its Effects on Groundwater Regime and Quality in Tirupati/ Urban Agglomeration. |
| 8 | | West Bengal | 125 | Kolkata | Aquifer Management Plan of Kolkata Urban Area/ Urban Agglomeration. |
| 9 | ER | Sikkim | 15 | Soreng | Spring shed management & delineation of area feasible for Rainwater Harvesting & Artificial Recharge in Soreng Block, Soreng district, State of Sikkim/ Springshed |
| 10 | | Andaman & Nicobar Islands | 71 | North & Middle Andaman | Detailed hydrogeological & geophysical study to delineate potential aquifers in water stressed areas of Middle Andaman, North & Middle Andaman district, UT of Andaman & Nicobar Islands/ Water stressed area |
| 11 | | Karnataka | 639.58 | Kolar | Impact Assessment of Tank Filling Scheme by treated water/ Poor Ground Water Quality Area |
| 12 | | Karnataka | 792.97 | Chikballapur** | Impact Assessment of Tank Filling Scheme by treated water/ Poor Ground Water Quality Area |
| 13 | SWR | Karnataka | 1244.22 | Bellary | Impact of Mining on ground water regime in Sondur taluk/ Industrial Clusters and Mining Areas |
| 14 | | Goa | 478 | Panaji** (North Goa) | Urban Agglomerate study along with North Goa Coastal study |

| Sl | Region | State | Area (sq km) | District (s) | Title of the study / Priority Type |
|----|-----------|---------------------------|--------------|-----------------------|--|
| 15 | UR | Uttarakhand | 200 | Dehradun | Urbanization and Its Effects on Groundwater Regime in Dehradun Urban Area/ Urban Agglomeration. |
| 16 | NWHR | UT OF J&K | 200 | Kathua** | Aquifer Management Plan in Parts of Barnoti, Nagri, and Kathua block in Kathua district, UT of J&K/ |
| 17 | | | | Jammu | Urban Agglomerate study |
| 18 | | Ladakh | | Leh | Urban Agglomerate study |
| 19 | NHR | Himachal Pradesh | | Shimla | Urban Agglomerate study |
| 20 | NWR | Chandigarh Haryana Punjab | | Chandigarh | Urban Agglomerate study (including Mohali and Panchkula) |
| 21 | SUO-Delhi | Delhi | | New Delhi | Urban Agglomerate study (Based on previous studies) |
| 22 | SER | Odisha | 200 | Bhubaneswar | The Impact of Rapid Urbanization on Groundwater Recharge and Sustainability in and around Bhubaneswar/ Urban Agglomeration. |
| 23 | | Odisha | 250 | Jajpur | The impact of industrialisation on Groundwater in Kalinganagar Industrial Area, Jajpur/ Industrial Clusters and Mining Areas. |
| 24 | WR | Rajasthan | 200 | Udaipur | Ground Water Management in Udaipur/ Urban Agglomerates |
| 25 | NER | Assam | 500 | Dima Hasao | Spring studies in Dima Hasao district/ Springshed |
| 26 | | Assam | | Guwahati | Urban Agglomerate study |
| 27 | | Nagaland | 470 | Dimapur & Chumukidima | Water stressed areas of Dimapur & Chumukidima Districts/ Water stressed Areas |
| 28 | | Nagaland | | Kohima | Urban Agglomerate study |
| 29 | | Tripura | 458 | West Tripura | Haora Basin with special emphasis on Agartala city/ Urban Agglomerates |
| 30 | | Tripura | | Agartala | Urban Agglomerates |
| 31 | | Mizoram | | Aizwal | Urban Agglomerate study |
| 32 | | Manipur | | Imphal | Urban Agglomerate Study |
| 33 | NCCR | Meghalaya | 50 | West Jaintia | Spring studies in and around Jowai Township/ Springshed |
| 34 | | Chhattisgarh | 200 | Bilaspur | Water stressed areas |
| 35 | | Kerala | 1195 | Alappuzha** | Ground water quality management interventions and demarcation of safer aquifers/ Poor Ground Water Quality Area |

| Sl | Region | State | Area (sq km) | District (s) | Title of the study / Priority Type |
|----|--------|---------------|--------------|----------------------|--|
| 36 | | Lakshadweep | | Kavaratti | Urban Agglomerate study |
| 37 | NR | Uttar Pradesh | 581 | Sonbhadra | Aquifer Management Plans of Chopan and Kone Blocks, District Sonbhadra, Uttar Pradesh/ Poor Ground Water Quality Area |
| 38 | | Uttar Pradesh | 310 | Lucknow | Aquifer Management Plans of Lucknow City/ Urban Agglomerates |
| 39 | SECR | Tamil Nadu | 760 | Tirunelvel/Tuticorin | Aquifer Management plan for Teri Sand/ Coastal study |
| 40 | | Tamil Nadu | 2880 | Chennai | Urban Agglomerate study |
| 41 | | Puducherry | 1047 | Puducherry | Urban Agglomeratesstudy |
| 42 | WCR | Gujarat | 687 | Rajkot | Study on urban agglomerates in Rajkot City/ Urban Agglomerates |

**** Studies are continuing from previous year**

5.1.10 Priority area wise NAQUIM 2.0 studies for AAP 2025-26

| S.No. | Region | State | Priority Type | | | | | | Total |
|-------|--------|------------|--------------------------|-----------------|---------------|--------------------|--------------|--------------|-------|
| | | | Water stressed area/ OCS | Poor GW quality | Ind. clusters | Urban Agglom erate | Springs -hed | Coastal area | |
| 1 | CR | Mahar | | | | 1 | | | 1 |
| 2 | ER | Andam an & | 1 | | | | | | 1 |
| 3 | | Sikkim | | | | | 1 | | 1 |
| 4 | | West | | | | 1 | | | 1 |
| 5 | KR | Kerala | | 1 | | | | | 1 |
| 6 | | Laksha | | | | 1 | | | 1 |
| 7 | MER | Bihar | | | | 1 | | | 1 |
| 8 | | Jharkh | | | | 1 | | | 1 |
| 9 | NCCR | Chhatti | 1 | 1 | | | | | 2 |
| 10 | NCR | Madhy | 1 | | | | | | 1 |
| 11 | NER | Assam | | | | 1 | 1 | | 2 |
| 12 | | Nagala | 1 | | | 1 | | | 2 |
| 13 | | Tripur | | | | 2 | | | 2 |
| 14 | | Megha | | | | | 1 | | 1 |
| 15 | | Mizora | | | | 1 | | | 1 |
| 16 | NR | Uttar | | 1 | | 1 | | | 2 |
| 17 | NHR | Himac | | | | 1 | | | 1 |
| 18 | NWHR | Jammu | | 1 | | 1 | | | 2 |
| 19 | | Leh | | | | 1 | | | 1 |
| 20 | NWR | Chandi | | | | 1 | | | 1 |
| 21 | SECR | Tamil | | | | 1 | | 1 | 2 |
| 22 | | Puduc | | | | 1 | | | 1 |
| 23 | SER | Odisha | | | 1 | 1 | | | 2 |
| 24 | SR | Andhr | 1 | | | 1 | | | 2 |

| S.No. | Region | State | Priority Type | | | | | | Total |
|-------|--------|--------|--------------------------|-----------------|---------------|-------------------|--------------|--------------|-------|
| | | | Water stressed area/ OCS | Poor GW quality | Ind. clusters | Urban Agglomerate | Springs -hed | Coastal area | |
| 25 | SWR | Telang | | 1 | | | | | 1 |
| 26 | | Goa | | | | 1 | | | 1 |
| 27 | | Karnat | | 1 | 1 | 1 | | | 3 |
| 28 | SUO | Delhi | | | | 1 | | | 1 |
| 29 | UR | Uttara | | | | 1 | | | 1 |
| 30 | WCR | Gujara | | | | 1 | | | 1 |
| 31 | WR | Rajast | | | | 1 | | | 1 |
| | | TOTA | 5 | 6 | 2 | 25 | 3 | 1 | 42 |

5.1.11 Finalisation and sharing of Reports of Studies taken up during 2024-25

| S.No. | Region | State | Number of reports to be finalised and shared with State Government including District Authorities |
|-------|--------|----------------------|---|
| 1 | CR | Maharashtra | 4 |
| 2 | ER | Andaman & Nicobar UT | 1 |
| 3 | | Sikkim | 1 |
| 4 | | West Bengal | 1 |
| 5 | KR | Kerala | 2 |
| 6 | MER | Bihar | 1 |
| 7 | | Jharkhand | 1 |
| 8 | NCCR | Chhattisgarh | 3 |
| 9 | NCR | Madhya | 1 |
| 10 | NER | Nagaland | 1 |
| 11 | | Tripura | 1 |
| 12 | NR | Uttar Pradesh | 1 |
| 13 | NWHR | Jammu & | 0 |
| 14 | NWR | Haryana | 2 |
| 15 | SECR | Tamil Nadu | 2 |
| 16 | SER | Odisha | 2 |
| 17 | SR | Andhra | 1 |
| 18 | | Telangana | 2 |
| 19 | SUO | Delhi | 2 |
| 20 | SWR | Goa | 0 |
| 21 | | Karnataka | 2 |
| 22 | UR | Uttarakhand | 2 |
| 23 | WCR | Gujarat | 2 |
| | | TOTAL | 35 |

5.1.12 Special Studies/Collaborative Studies

| S. No | Region | State | District | Title of the study | Collaborating Agency, if any |
|-------|--------|-------------------|--|--|---|
| 1 | CR | Maharashtra | Osmanabad (281 km ²) | Impact assessment study of Artificial Recharge project of MR-12 and MR-13 Watersheds of Osmanabad taluk, Osmanabad District. | |
| 2 | NCR | Madhya Pradesh | Gwalior (400 km ²) | An Investigation and assessment of source and Mobilisation of Uranium and other contaminants in Ground Water of Gwalior District | GSI |
| 3 | SR | Andhra Pradesh** | YSR Kadapa & Anantapur (1000 km ²) | Geo-environmental appraisal in parts of Kadapa & Anantapur districts, Andhra Pradesh with special emphasis on uranium & other elemental contamination in water. | GSI |
| 4 | UR | Uttarakhand** | Rudraprayag (1049 km ²) | Springshed Management in Ukhimath Block, Rudraprayag District | NIH, Roorkee |
| 5 | ER | West Bengal | Malda (166 km ²) | Assessment of Fluoride, Arsenic and other Heavy Metal contamination in water, soil, vegetation and geo-hydrological study in Ratua-II Block. | GSI |
| 6 | SWR | Karnataka** | Cauvery Basin (34273 km ²) | Ground Water Mathematical Modelling of Cauvery Basin, Parts of Mysuru, Mandya, Kodagu, Chamrajnagara, Hassan, Chikmagalur, Tumkur, Bengaluru Urban, Bengaluru Rural, Ramnagara | |
| 7 | SWR | Karnataka | Benguluru Urban (711 km ²) | Isotope Study to demarcate recharge discharge zones | BARC, Mumbai |
| 8 | SWR | Karnataka | Chikballapur, Kolar (793 km ²) | Study on the occurrence of Uranium, Fluoride and REE in rock samples in Chikballapur and Kolar districts | GSI |
| 9 | WR | Rajasthan | Jaipur (850 km ²) | Study on Uranium. Lead. Arsenic, Fluoride and Mercury Contamination | GSI |
| 10 | NER | Assam** | Parts of Morigaon and Nagaon (1366 km ²) | Assessment the precursor, co-seismic and post seismic aquifer responses in ground water level & quality of deeper aquifers along Kopili fault | GSI, RGI & National Centre for Seismology (NCS) |
| 11 | NER | Assam | Sribhumii & Hailakandi districts (2726 km ²) | Study on U, Pb, As, F & Hg contamination of G.W. in parts of industrial areas | GSI |
| 12 | NER | Arunachal Pradesh | Papum Pare district | Springshed Management Study | GB Pant National Institute of Himalayan Environment (GBP-NIHE) and North East Initiative Development Agency (NEIDA) |
| 13 | NCCR | Chhattisgarh | Gariyabandh (670 km ²) | Quality issues in Mainpur Block, Gariyabandh district, Chhattisgarh | |
| 14 | KR | Kerala | Idukki (599 km ²) | Collaborative Study on Ground water Pollution due to Fertilizers and | (ICAR-IISR) |

| S. No | Region | State | District | Title of the study | Collaborating Agency, if any |
|-------|--------|-----------------|--|---|---|
| | | | | Pesticides Application in the Cardamom Plantations of Idukki District, Kerala | |
| 15 | NR | Uttar Pradesh** | Varuna River Basin (Varanasi, Jaunpur, Prayagraj, and Sant Ravidas Nagar) (3664 km ²) | Geophysical survey and real time field measurement and data collection for river-aquifer flow dynamics modelling | IIT-BHU |
| 16 | NR | Uttar Pradesh** | Sonbhadra (1317 km ²) | Hydrogeological Evaluation, Mapping of contaminated Groundwater and induced Fluorosis in parts of Sonbhadra, District, Uttar Pradesh, India (Babhan, Chopan, Dudhi, Kone, and Myorpur blocks) | MNNIT Allahabad and IMS BHU |
| 17 | NR | Uttar Pradesh | Khadra Area of Lucknow City | Bacteriological Study of Groundwater quality in and around Khadra region | CWC |
| 18 | WCR | Gujarat | Ahmedabad (250 km ²) | A Mechanistic Approach to Model Aquifer Compaction Dynamics to Assess Long-Term Subsidence and its Implications | IIT Roorkee |
| 19 | WCR | Gujarat | North Gujarat Alluvium (Banaskantha, Patan, Mehsana, Gandhinagar, Ahmedabad, Kheda, Anand Sabarkantha) | Understanding the Hydrodynamics of the deeper aquifers & approximation of the GW Flow/flux | GWRDC Limited, NWRWS & Kalpsar Department, Government of Gujarat. |
| 20 | WCR | Gujarat | Banaskantha (1000 km ²) | Identification of Fluoride Contamination in Ground Water in Eastern Banaskantha District | Inhouse |
| 21 | NWR | Punjab** | Parts of Amritsar District (675 km ²) | Special Study in areas with transboundary aquifers (674.64 sq. km) | Special Study |
| 22 | NWR | Haryana** | Parts of Bhiwani and Rohtak Districts (1344 km ²) | Ground Water Contamination Study in collaboration with GSI as per recently signed MoU | GSI |
| 23 | NWR | Haryana** | Yamunanagar (1088 km ²) | To delineate Autoflow Aquifer in parts of Radaur, Jagadhri, Chachhrauli, Khizrabad blocks of Yamunanagar District | BARC |
| 24 | NWR | Haryana** | Yamunanagar (1088 km ²) | To delineate Autoflow Aquifer in parts of Radaur, Jagadhri, Chachhrauli, Khizrabad blocks of Yamunanagar District | BARC |

** Studies are continuing from previous year

5.1.13 Data Integration

| S.No | Activity | Section with resource persons |
|------|---|--|
| 1 | Updating the data on Water Level, Water Quality, Exploration and Geophysical data in GRASP platform | All Region/Division/Unit Offices and Technical Cell – Member (NW) |

5.1.14 New MoUs to be signed

1. MoU with IIRS for Land subsidence studies in Ludhiana, Kanpur-Hamirpur area (UP), Ahmedabad-Gandhinagar (GJ), Chennai (TN), Vijayawada (AP), Bengaluru (Karnataka), Mumbai (MH), Kolkata (WB), Guwahati (Assam).
2. MoU between RGNGWTRI, BARC, GSI, NCS – Early warning system for earthquakes.
3. MoU with SAC, Ahmedabad for leveraging satellite technologies and collaborative research in the field of Groundwater Assessment, Monitoring and Management.
4. MoU with National Institute of Urban Affairs (NIUA) for aquifer mapping and capacity building.

5.1.15 Central Ground Water Authority - Regulation and control of ground water extraction

The Central Ground Water Authority deals with regulation of ground water . Authority issues No Objection Certificate (NOC) for ground water abstraction. The Ministry of Jal Shakti has notified the guidelines on 24.09.2020 (SO No. 3289(E)) for regulation and control of ground water development in the country. These guidelines have Pan India applicability. CGWA is pursuing with State Authorities to adopt these guidelines. Amendment to guidelines have also been issued vide notification dated 29.03.2023 (SO No. 1509(E)).

During the AAP 2025-26 following items are proposed

| Goals 2025-26 | Activities/indicators | Annual Target |
|--|---|--|
| Regulation and Control of Ground Water Resources --Pan India Implementation of the guidelines for regulation and control of ground water extraction | BhuNeer APP portal And NOCAP portal | <ul style="list-style-type: none"> • BhuNeer APP Phase-II & III software development • Maintenance of NOCAP portal |
| | NOC application processing and compliance monitoring | <ul style="list-style-type: none"> • 3,500 |
| | Improving the reach- NOC applications in respect of 10,000 more users to be processed | <ul style="list-style-type: none"> • 10,000 |
| | Renewal of NOCs that are due for renewal till 31 st March 2026. | <ul style="list-style-type: none"> • 3,000 |
| | Number of annual compliance reports | <ul style="list-style-type: none"> • 1500 |

| Goals 2025-26 | Activities/indicators | Annual Target |
|--------------------------------------|--|--|
| Formulation of NEW guidelines | Formation of Inter-departmental committees, Issuance of OM, Preparation and circulation of guidelines and consultation with various concerned Ministries | <ul style="list-style-type: none"> • Reuse of treated waste water • (Continuation of previous AAP target in 2025-26) • Protection of aquifers against anthropogenic contamination(new target for 2025-26) |

5.2 NAQUIM Project - PIB:

5.2.1 Construction of Piezometers and Installation of DWLRs

Total 7000 piezometers are targeted to be constructed and total 7000 DWLRs are targeted to be installed under the NAQUIM-PIB Project in the entire project period. During the current Annual Action Plan it is targeted to construct 1600 piezometers and install 1200 DWLRs.

| S. No. | Package | Name of States | Total No. of Piezometers | Number of DWLRs | | |
|-----------------------------------|-----------|---|--------------------------|-----------------------|--------------------|-------------|
| | | | | Without Quality probe | With Quality probe | Total |
| 1 | Package 1 | Andhra Pradesh, Telangana, Tamil Nadu, Kerela | 768 | 716 | 52 | 768 |
| 2 | Package 2 | Maharashtra, Gujarat | 1011 | 999 | 12 | 1011 |
| 3 | Package 3 | M.P, Chhattisgarh | 1612 | 1,612 | 0 | 1612 |
| 4 | Package 4 | Delhi, Punjab, Haryana, Uttarakhand, Himachal Pradesh | 1004 | 1,004 | 0 | 1004 |
| 5 | Package 5 | Rajasthan | 1508 | 1,508 | 0 | 1508 |
| 6 | Package 6 | UP, Bihar, Jharkhand, West Bengal, Odisha | 810 | 790 | 20 | 810 |
| 7 | Package 7 | Assam, Nagaland, Meghalaya, Tripura, Manipur, Arunachal Pradesh | 37 | 37 | 0 | 37 |
| 8 | Package 8 | Jammu & Kashmir, Ladakh | 250 | 250 | 0 | 250 |
| Total | | | 7000 | 6916 | 84 | 7000 |
| (Target for 2025-26: 3200) | | | | | | |

5.2.2 Construction of EWs and OWs for data generation for aquifer mapping.

| S. No. | Package | Name of States | Total No. of wells |
|-----------------------------------|-----------|-----------------------------------|--------------------|
| 1 | Package 1 | Assam, West Bengal, Bihar, Odisha | 271 |
| 2 | Package 2 | Andhra Pradesh, Karnataka | 149 |
| 3 | Package 3 | Chhattisgarh, Madhya Pradesh | 254 |
| 4 | Package 4 | Rajasthan, Gujarat | 305 |
| 5 | Package 5 | Uttar Pradesh | 156 |
| Total | | | 1135 |
| (Target for 2025-26 : 570) | | | |

5.2.3 State-wise details of 7000 Pz under PIB

| Sr. No. | State | Number of Pz with DWLR |
|-----------------------------------|-------------------|------------------------|
| 1 | Andhra Pradesh | 223 |
| 2 | Arunachal Pradesh | 4 |
| 3 | Assam | 15 |
| 4 | Bihar | 75 |
| 5 | Chhattisgarh | 212 |
| 6 | Delhi | 109 |
| 7 | Gujarat | 117 |
| 8 | Haryana | 276 |
| 9 | Himachal Pradesh | 205 |
| 10 | Jharkhand | 85 |
| 11 | Kerala | 55 |
| 12 | Madhya Pradesh | 1400 |
| 13 | Maharashtra | 894 |
| 14 | Manipur | 5 |
| 15 | Meghalaya | 5 |
| 16 | Nagaland | 4 |
| 17 | Odisha | 34 |
| 18 | Punjab | 305 |
| 19 | Rajasthan | 1508 |
| 20 | Tamil Nadu | 303 |
| 21 | Telangana | 187 |
| 22 | Tripura | 4 |
| 23 | UT OF J&K | 189 |
| 24 | UT of Ladakh | 61 |
| 25 | Uttar Pradesh | 467 |
| 26 | Uttarakhand | 109 |
| 27 | West Bengal | 149 |
| Total | | 7000 |
| (Target for 2025-26: 3200) | | |

5.2.4 State-wise details of 1135 EW& OW under PIB

| Sr. No. | State | Total Wells (EW& OW) |
|--------------|----------------|--|
| 1 | Andhra Pradesh | 99 |
| 2 | Assam | 36 |
| 3 | Bihar | 57 |
| 4 | Chhattisgarh | 64 |
| 5 | Gujarat | 135 |
| 6 | Karnataka | 50 |
| 7 | Madhya Pradesh | 190 |
| 8 | Odisha | 56 |
| 9 | Rajasthan | 170 |
| 10 | Uttar Pradesh | 156 |
| 11 | West Bengal | 122 |
| Total | | 1135 (Target for 2025-26:570) |

5.3 Rajiv Gandhi National Ground Water Training and Research Institute – Training and capacity building

- Training calendar for Tier-I trainings

| S. No | From | To | Training Title | Duration |
|-------|----------|----------|--|----------|
| 1 | 15.04.25 | 17.04.25 | eGovernance(eOffice, eHRMS, Sparrow, eBill)* | 3-Days |
| 2 | 21.04.25 | 23.04.25 | Office Procedures(GFR, Adminsitrative & Financial Rules)* | 3-Days |
| 3 | 28.04.25 | 23.05.25 | Induction Level Training Programme for STAs of CGWB | 4-Weeks |
| 4 | 28.04.25 | 30.04.25 | Application of AI & ML in GW(Basic) | 3-Days |
| 5 | 05.05.25 | 16.05.25 | Awareness of Chemical Laboratory | 2-Weeks |
| 6 | 05.05.25 | 16.05.25 | Management Principles & Practices* | 2-Weeks |
| 7 | 05.05.25 | 30.05.25 | Water Well Construction Techniques & Equipment(Level-1) | 4-Weeks |
| 8 | 26.05.25 | 30.05.25 | Ground Water Resource Estimation & Introduction to INGRES Software | 1-Week |
| 9 | 02.06.25 | 13.06.25 | Enabling Administrative Rules | 2-Weeks |
| 10 | 02.06.25 | 06.06.25 | Rockworks Software | 1-Week |
| 11 | 02.06.25 | 13.06.25 | Administration & Finance* | 2-Weeks |
| 12 | 09.06.25 | 13.06.25 | Urban Aquifer Management* | 1-Week |
| 13 | 09.06.25 | 20.06.25 | Operation & Maintenance of Vehicles | 2-Weeks |
| 14 | 16.06.25 | 27.06.25 | Water Well Construction Technology & Management | 2-Weeks |
| 15 | 23.06.25 | 04.07.25 | Operation & Maintenance of Vehicles | 2-Weeks |
| 16 | 30.06.25 | 04.07.25 | Ground Water Resource Estimation & Introduction to INGRES Software | 1-Week |
| 17 | 07.07.25 | 01.08.25 | Water Well Construction Techniques & Equipment(Level-1) | 4-Weeks |
| 18 | 14.07.25 | 25.07.25 | Training for MTS | 2-Weeks |
| 19 | 14.07.25 | 25.07.25 | Materials Management | 2-Weeks |
| 20 | 28.07.25 | 08.08.25 | Water Well Construction Techniques & Equipment(Level-2) | 2-Weeks |
| 21 | 28.07.25 | 01.08.25 | Innovations & Recent Developments in Water Resource Management* | 1-Week |
| 22 | 11.08.25 | 13.08.25 | Welding Technology | 3-Days |
| 23 | 18.08.25 | 20.08.25 | Sustainable Ground Water Development & Management | 3-Days |
| 24 | 18.08.25 | 29.08.25 | Maintenance Management | 2-Weeks |
| 25 | 01.09.25 | 26.09.25 | Water Well Construction Techniques & Equipment(Level-1) | 4-Weeks |
| 26 | 15.09.25 | 19.09.25 | Mathematical Modelling of Groundwater System | 1-Week |

| S. No | From | To | Training Title | Duration |
|-------|---------------|----------|---|----------|
| 27 | 22.09.25 | 26.09.25 | Procurement & Contract Management* | 1-Week |
| 28 | 13.10.25 | 17.10.25 | Interpretation of high resolution water level and water quality data and predictive data analysis | 1-Week |
| 29 | 10.11.25 | 14.11.25 | Introduction to Python Programming & its Application in GW Data Analysis | 1-Week |
| 30 | 10.11.25 | 21.11.25 | Maintenance Management | 2-Weeks |
| 31 | 17.11.25 | 21.11.25 | Rockworks Software | 1-Week |
| 32 | 17.11.25 | 13.11.26 | One Year Induction Level Training Course | 1-Year |
| 33 | 24.11.25 | 05.12.25 | Water Well Construction Techniques & Equipment's-Level-3 | 2-Weeks |
| 34 | 01.12.25 | 12.12.25 | Mandatory Training for Cleaners | 2-Weeks |
| 35 | 01.12.25 | 12.12.25 | Material Handling, Storekeeping and Store Accounting(Level 3) | 2-Weeks |
| 36 | 01.12.25 | 24.12.25 | Water Well Construction Techniques & Equipment(Level-1) | 4-Weeks |
| 37 | 01.12.25 | 12.12.25 | Material Handling, Storekeeping and Store Accounting(Level 2) | 2-Weeks |
| 38 | 15.12.25 | 17.12.25 | Application of AI & ML in GW(Advanced) | 3-Days |
| 39 | 15.12.25 | 24.12.25 | Maintenance of Drilling & Ancillary Equipments(Level-2) | 2-Weeks |
| 40 | 05.01.26 | 16.01.26 | Water Well Construction Techniques & Equipment(Level-2) | 2-Weeks |
| 41 | 12.01.26 | 16.01.26 | Training on ArcGIS Software | 1-Week |
| 42 | 19.01.26 | 30.01.26 | Material Handling, Storekeeping and Store Accounting(Level 1) | 2-Weeks |
| 43 | 02.02.26 | 06.02.26 | Arsenic & Fluoride - Contamination & remediation | 1-Week |
| 44 | 09.02.26 | 13.02.26 | Water Resources Management - Best Practices across Asia & Africa* | 1 Week |
| 45 | 18.02.26 | 20.02.26 | RTI Training for CPIO* | 3-Days |
| 46 | 23.02.26 | 25.02.26 | Role of Nodal Officer(Rajbhasa) | 3-Days |
| 47 | 09.03.26 | 11.03.26 | Stress Management | 3-Days |
| 48 | To be decided | | Secretariat Practices Training | 2-Weeks |
| 49 | To be decided | | Customized Training on Groundwater Development and Management | 1-Week |
| 50 | To be decided | | Customized Training on Groundwater Development and Management | 1-Week |
| 51 | 14.08.24 | 14.08.25 | Induction Level Training Course(Batch 2) | 1-Year |
| 52 | 14.08.24 | 14.08.25 | Induction Level Training Course(Batch 3) | 1-Year |
| 53 | 14.11.24 | 14.11.25 | Induction Level Training Course(Batch 4) | 1-Year |

*** Trainings will be conducted Online**

- Region-wise targets for Tier-II and Tier-III are provided below.

| Sl. No | Office | Total Target | |
|--------|-----------------|--------------|-------|
| | | T-II | T-III |
| 1 | NR, Lucknow | 1 | 3 |
| 2 | NWR, Chandigarh | 1 | 3 |
| 3 | NCR, Bhopal | 1 | 3 |
| 4 | WR, Jaipur | 1 | 3 |
| 5 | CR, Nagpur | 1 | 3 |
| 6 | WCR, Ahmedabad | 1 | 2 |
| 7 | ER, Kolkata | 1 | 3 |
| 8 | SR, Hyderabad | 2 | 4 |
| 9 | SWR, Bangalore | 1 | 3 |

| Sl. No | Office | Total Target | |
|--------|------------------|--------------|-------|
| | | T-II | T-III |
| 10 | SER, Bhubaneswar | 1 | 3 |
| 11 | NER, Guwahati | 1 | 4 |
| 12 | KR, Trivandrum | 1 | 3 |
| 13 | MER, Patna | 2 | 3 |
| 14 | SECR, Chennai | 1 | 3 |
| 15 | NWHR, Jammu | 1 | 1 |
| 16 | NCCR, Raipur | 1 | 3 |
| 17 | SUO, New Delhi | 0 | 1 |
| 18 | NHR, Dharamsala | 1 | 1 |
| 19 | UR, Dehradun | 1 | 1 |
| | | 20 | 50 |

5.4 Technical Assistance to other Schemes

5.4.1 *Jal Shakthi Abhiyan*

The fifth edition of Jal Shakthi Abhiyan, Catch the Rain 2024 will be carried out during the year 2025-26. Current year event is under the theme 'Peoples' Action for Water Conservation - Towards Intensified Community Connect '.The current year campaign will be taken up in 148 Districts for which officers from CGWB will be deputed as Technical Officers.

5.4.2 *Technical Assistance to Government Agencies*

Technical assistance to Defense Establishments and Government Agencies is provided through Short Term Investigations aimed at addressing their immediate water supply/artificial recharge issues. These investigations are request based and involve identification of suitable sites for the construction of ground water abstraction structures and artificial recharge structures.

5.4.3 *Sharing of outputs with State Government and Quarterly meetings with allied agencies.*

The quarterly dialogue will be organized alternatively by CWC and CGWB with CWC Regional Offices organizing 1st& 3rd event in a Financial Year and CGWB Regional Offices organizing the 2nd& 4th event.

5.4.4 *Other activities*

- Organizing Exhibitions and IEC activities.
- National Water Awards.
- Parliamentary affairs and VIP references etc.

