

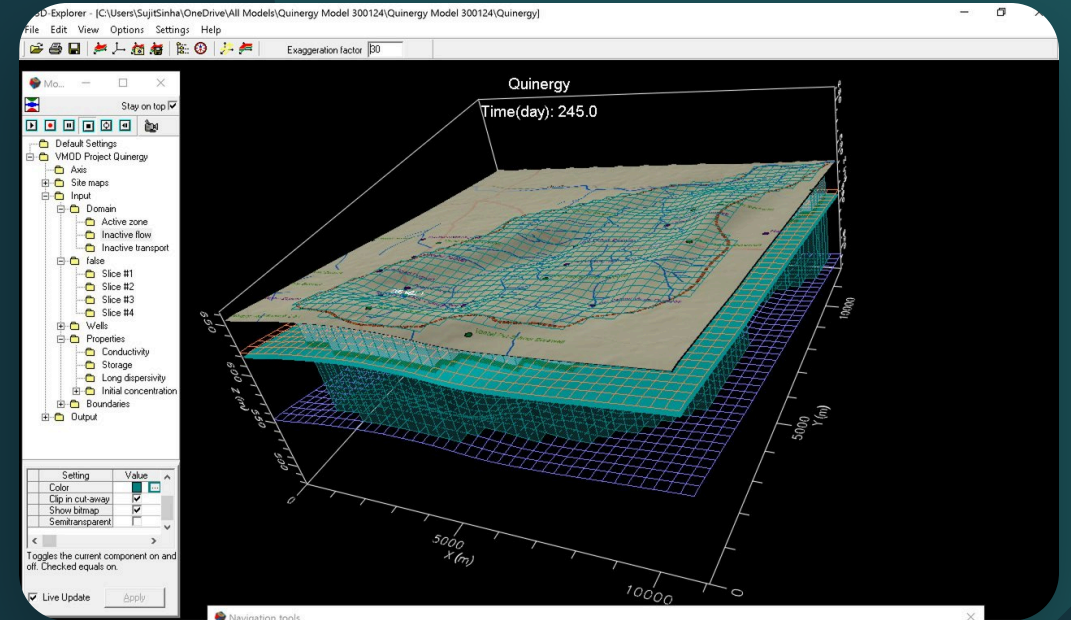


COMPANY PROFILE · 2026

Groundwater & water resources consultants

Former regulators, now on your side. CGWA NOC and impact assessment, groundwater modelling, mine hydrogeology, and specialist studies beyond the NOC.

Innovate, Conserve, Sustain



CGWA/RGI-accredited Ground Water Professional

RGI-certified Water Auditor

Led by former CGWB Chairmen

D-U-N-S 737781172

WHO WE ARE

Former regulators, now on your side of the table

Hydro Geo Solutions LLP is a consortium of scientists and engineers led by four former Chairmen of the Central Ground Water Board, with former CGWB and CGWA scientists. We help industries, mines, infrastructure developers and governments turn water constraints into workable plans: secure the approvals they need, use groundwater within what the aquifer can sustain, and put water back through recharge.

271

assignments on record

249+

completed

21

states & UTs, plus Nigeria

26

mine hydrogeology studies

40

water audits

Mission

Innovate, Conserve & Sustain.

Vision

Address groundwater challenges with advanced technology: remote sensing and GIS, geophysics, analytical tools and groundwater modelling.

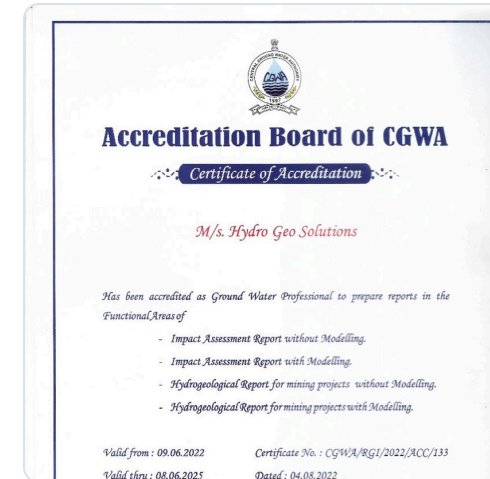
How we work

A named senior hydrogeologist is accountable for every report until the approval is issued. We tell clients what the aquifer and the rules allow, even when the answer is inconvenient.

CREDENTIALS & REGISTRATIONS

Accredited, certified, registered

CREDENTIAL	ISSUED BY	NUMBER
Ground Water Professional accreditation Impact Assessment Reports and mining Hydrogeological Reports, with and without modelling. Validity extended to December 2026.	Accreditation Board of CGWA	CGWA/RGI/2022/ACC/133
Certified Water Auditor Water audits for CGWA NOC compliance; valid five years from 19 June 2023.	RGNGWT&RI, Ministry of Jal Shakti	RGI/WA/2023-10
D-U-N-S® Number	Dun & Bradstreet	737781172
Limited Liability Partnership Incorporated 31 December 2021	Ministry of Corporate Affairs	LLPIN ABA-0787
GST registered, Haryana	Goods & Services Tax	06AA0FH5573K1ZU
Udyam registered, Micro enterprise Professional, scientific and technical services (NIC 74909)	Ministry of MSME	UDYAM-HR-05-0041129
Recognised startup Valid up to 30 December 2031	DPIIT, Startup India	DIPP112109



LEADERSHIP

Four former Chairmen of CGWB lead our work

- ✓ **Dr. P. Nandakumaran**, Advisor. Former Chairman, CGWB & CGWA; first Project Director, Atal Bhujal Yojana; National Geoscience Award 2019.
- ✓ **Sunil Kumar**, Advisor. Former Chairman, CGWB & CGWA; helped operationalise India's modified groundwater regulatory regime; sustainability and water neutrality.
- ✓ **Anand Kumar Agarwal**, Advisor. Former Chairman, CGWB; groundwater governance, stochastic hydrology, capacity building.
- ✓ **K. C. Naik**, Advisor. Former Chairman, CGWB (2017–2020); led the National Aquifer Mapping programme.
- ✓ **Dr. Uma Kapoor**, Director. Former Regional Director, CGWA; former member, Expert Appraisal Committee.
- ✓ **Durjoy Chakraborty**, Director. Former Senior Scientist, CGWB; 3-D ERT, mining hydrogeology.
- ✓ **S. K. Sinha**, Director. Former Senior Scientist, CGWB; groundwater modelling, Atal Bhujal Yojana team lead.
- ✓ **Anuradha Bhatia**, Hydrogeologist & certified Water Auditor. Former Senior Scientist, CGWB.

Supported by specialists in ESG, GIS and remote sensing, water resources, business development and finance.



Dr. P. Nandakumaran
Former Chairman,
CGWB & CGWA



Sunil Kumar
Former Chairman,
CGWB & CGWA



Anand Kumar Agarwal
Former Chairman,
CGWB



K. C. Naik
Former Chairman,
CGWB



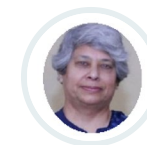
Dr. Uma Kapoor
Former Regional
Director, CGWA



Durjoy Chakraborty
Former Senior Scientist,
CGWB



S. K. Sinha
Former Senior Scientist,
CGWB



Anuradha Bhatia
Former Senior Scientist,
CGWB



Baldev Raj Chugh
Director, Business
Development



Rekha Singh
Senior ESG Expert



Manisha
Senior GIS & Remote
Sensing Expert



Sneha Mehta
Water Resources
Specialist



Dr. Ekbal
Water Resources
Specialist



Shikha Jaswal
Business Development
& Financial Expert



Dr. Sachin Kania
Water Expert



Dr. Firoz Khan
Water Expert

Every stage of a groundwater NOC, under one roof

For industries, mines and infrastructure: from the first check to the renewal three years later, including the difficult parts: queries, notices and environmental compensation.



Industry

Impact Assessment Reports, with analytical or numerical models as the 2023 amendment requires; water audits and 20% reduction plans.



Mines

Comprehensive Hydrogeological Reports with year-wise seepage, advanced dewatering plans and numerical models for CGWA and EAC.



Infrastructure

Dewatering NOCs for basements, tunnels and underpasses, with 5 km models and settlement risk.



Renewals & compliance

Meter, DWLR and telemetry networks with a live compliance dashboard, water quality and self-compliance filing.



Notices & EC

Technical replies to CGWA notices, EC computations, penalties and fast-track NOC applications.



EAC & CGWA queries

Point-by-point replies, model reviews and rebuilds until the approval is issued.



Saline groundwater

Saline-water abstraction strategies, exempt from abstraction charges, with disposal plans.



Recharge for rebate

Recharge designs that meet NOC conditions and earn the 50% rebate on abstraction charges.

Faster approvals through better science and our own tools



Models regulators can audit

Calibrated MODFLOW / Visual MODFLOW Flex models with drawdown, radius of influence and mass balance for every NOC period, plus recharge "resilience" scenarios.



In-house automation

Our own pre- and post-processor for Visual MODFLOW Flex turns model runs into CGWA-ready maps and tables in hours, consistently.



Isotope source tracing

Stable isotopes showed 70–80% of a coal mine's sump water is groundwater from fractured sandstone, settling a seepage estimate the regulator could accept.



ERT + VES in 3-D

Integrated resistivity imaging and soundings in 3-D fence diagrams to locate seepage paths and fracture zones before drilling.



Density-driven modelling

SEAWAT salt-transport models for coastal and saline sites: how far the seawater front moves under each pumping plan.



Client tools online

1-minute NOC check, environmental compensation calculator, NOC guide in English and Hindi, and free renewal reminders at hydrogeosolutions.in.

STEP 1

Scope

Authority, block category, quantity, model need.



STEP 2

Field data

Wells, pumping tests, ERT/VES, water quality.



STEP 3

Model & report

45–60 days from site data to final report.



STEP 4

File & reply

Application, queries, approval.



STEP 5

Comply & renew

Monitoring, audits, renewal 90 days ahead.

Specialist work that has nothing to do with a permit

Engineering, planning and investment questions where groundwater decides the answer.



Coastal aquifers

Seawater intrusion, aquifer tests and SEAWAT salt-transport models for a coastal industrial SEZ in Andhra Pradesh.



Township & city water security

Groundwater sustainability programme for Electronic City, Bengaluru: 82 borewells, 6 scenarios, phased roadmap.



Mine seepage engineering

Traced bench seepage to a perched zone and designed a five-tier control plan for an iron ore mine.



Source sustainability

Will the water last 20–25 years? Studies for CBG, ethanol and solar plants that lenders accept.



Geophysics & well siting

2-D/3-D ERT and VES to put wells on fractures in hard rock, and to map aquifer geometry.



Recharge & water bodies

Managed aquifer recharge, rainwater harvesting, lake and tank revival, water security plans.



Water neutrality & ESG

Water audits, water-risk assessment, neutrality roadmaps and ESG reporting support.



Flood, drainage & climate

Flood inundation and drainage studies, climate risk and vulnerability assessments.



Expert reports

Independent reports for High Courts, the NGT and expert committees, and reviews of opposing reports.



Water quality & contamination

BIS IS 10500 surveys, plume mapping, transport models and clean-up or containment plans.



Aquifer mapping & watersheds

Surveys, exploratory drilling, aquifer mapping, watershed and community groundwater management.

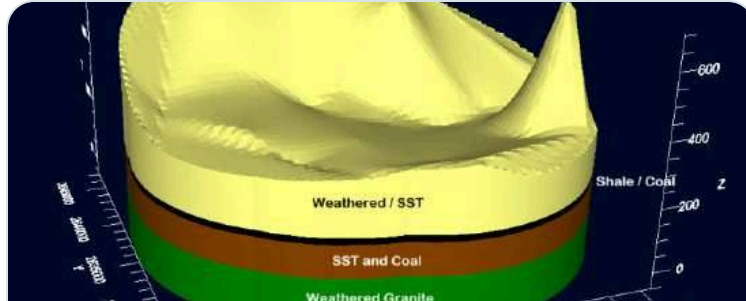


Training

Capacity building for industry teams, regulators and young professionals.

SELECTED WORK

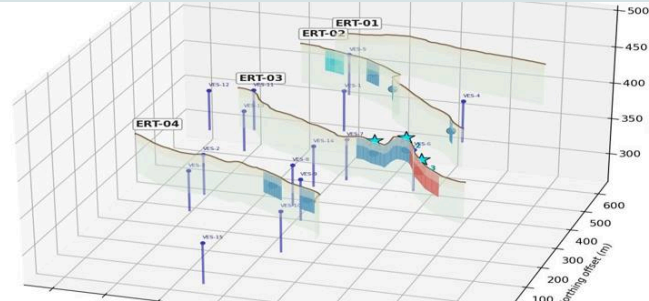
From field to report



MINE · JHARKHAND

Opencast coal mine, West Bokaro Coalfield

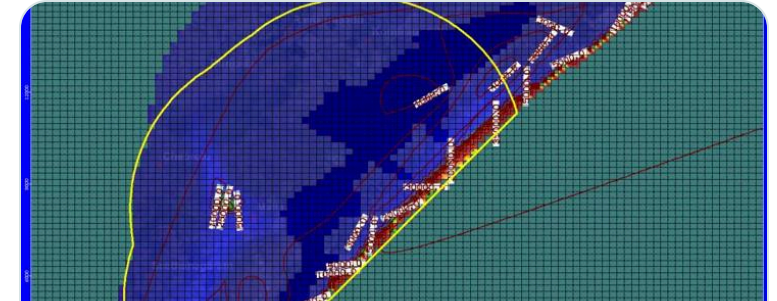
Comprehensive Hydrogeological Report with a numerical model: seepage by year, drawdown to 10 years, water balance.



SPECIAL STUDY · MAHARASHTRA

Iron ore mine: stopping seepage

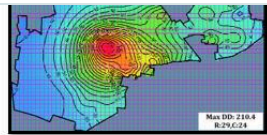
15 VES + 4 ERT lines, 3-D fence diagram and a five-tier seepage management plan.



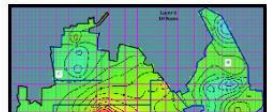
COASTAL · ANDHRA PRADESH

Industrial SEZ beside the sea

Five linked studies and a SEAWAT model set safe pumping limits against seawater intrusion.



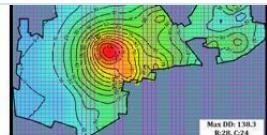
Scenario DR_01 - Draft 100% + Recharge (L3/L4)



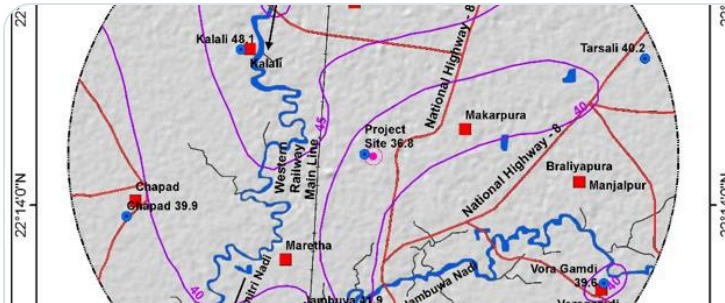
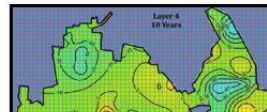
TOWNSHIP · KARNATAKA

Electronic City, Bengaluru

Reduced deep pumping plus managed recharge holds 10-year drawdown to ~35 m instead of ~210 m.



Scenario COMB - Draft 60% + Recharge (L3/L4)



INDUSTRY · GUJARAT

Engineering plant, Vadodara

Impact Assessment Report with analytical model, water-quality trend and water balance.



MINE · JHARKHAND

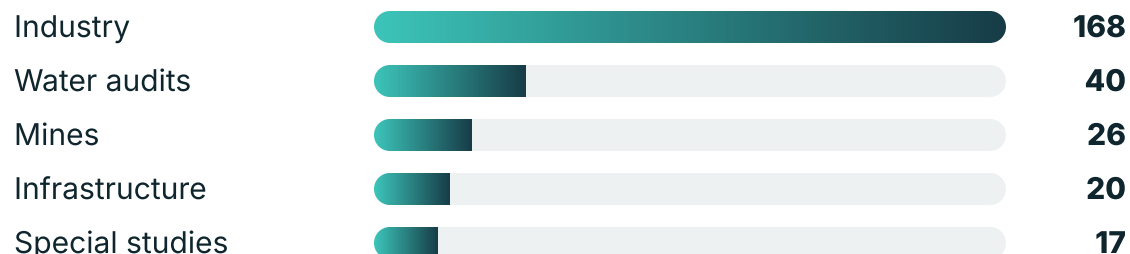
Coking coal mine, Jharia Coalfield

Isotopes showed 70–80% of sump water is groundwater; calibrated five-layer model for each mine stage.

FOOTPRINT

271 assignments across 21 states and UTs, and Nigeria

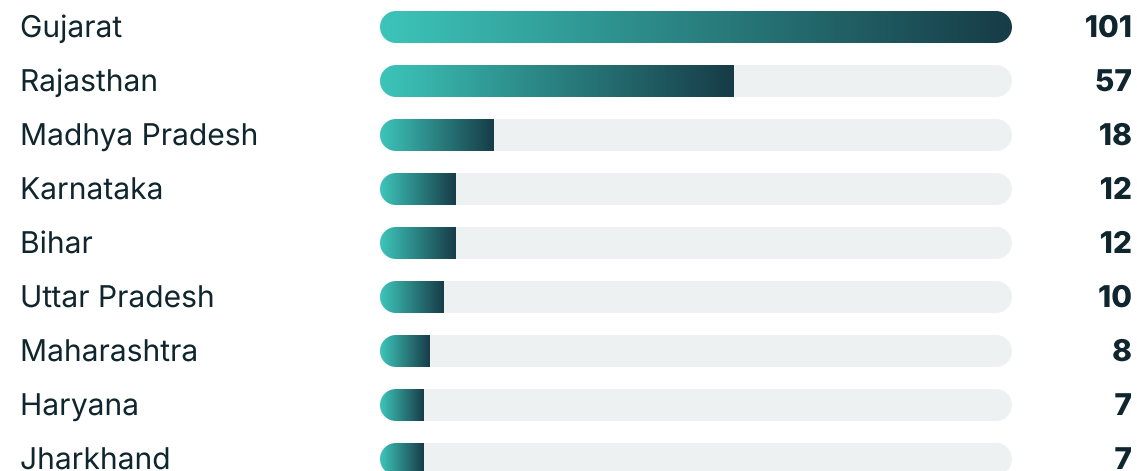
By sector



We serve

Breweries, distilleries and beverages · pharma and chemicals · textiles and dyeing · cement, steel and metals · CBG, ethanol and solar · power · real estate, townships and SEZs · coal, iron ore and limestone mines · government and urban water agencies

By state



Also Dadra & Nagar Haveli and Daman & Diu, Delhi, Uttarakhand, West Bengal, Chhattisgarh, Odisha, Himachal Pradesh, Andhra Pradesh, Tamil Nadu, Meghalaya, Sikkim, Telangana, and Nigeria.

CLIENTS & PARTNERS

Trusted by industry leaders



Partners: Ecomen Mining Pvt Ltd · BSJL Enviro Engineers LLP · Perfact Group · Prayukti International Limited · Water Lab · Cetizion Verifica Private Limited · CUBE IITM · Manish Gandhi, The Rain Water Harvester



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Tell us about your site. A senior hydrogeologist replies within one working day.

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