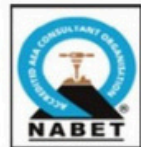


NOVOMINE INDIA PRIVATE LIMITED

"ALL CREATION IS A MINE, AND EVERY MAN A MINER"
- ABRAHAM LINCOLN



OUR SERVICES:



Exploration &
Mining



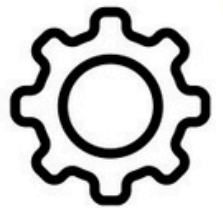
Hydrogeology



Geospatial



Environment



Geotechnical
& DGPS



www.novomineindia.com



novomineceo@gmail.com
hrrnovomine@gmail.com



+91-94365 16901
+91-82400 14632



Mr. Palash Chakraborty
(Founder & CEO)

The Indian mining consulting market has seen remarkable growth, driven by government initiatives like the National Mineral Policy 2019 and Atmanirbhar Bharat. These policies have boosted domestic mining, foreign investment, and exploration activities, creating a strong demand for consulting services. However, customers face unique challenges, including diverse land tenures, Sixth Schedule legal complexities, and a lack of scientific mining practices. Novomine India is a QCI-NABET accredited consulting firm specializing in comprehensive mining services, including Survey, Exploration, Geological Modeling, Mine Planning, and Environmental Impact Assessments.

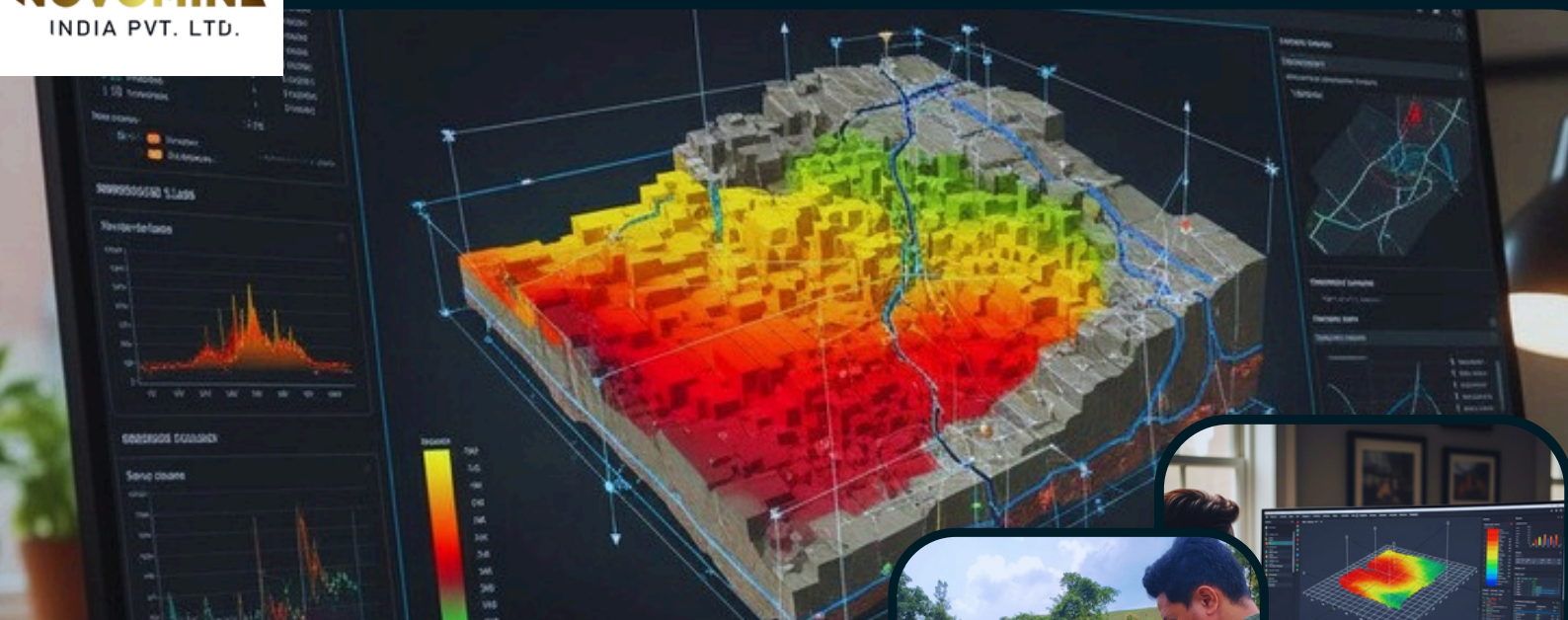
Since its establishment, Novomine India has swiftly become a leader in mining consulting, specializing in services throughout the mining lifecycle. The company has collaborated on several blocks of minor & major minerals and engaged in diverse coal and non-coal projects all over India. The company has also successfully completed large-scale mineral exploration projects across complex terrains in North East India, focusing on coal, iron ore, limestone, and rare earth minerals, reflecting its dedication to excellence in the mining sector. "The firm has secured approval from the Ministry of Coal for multiple mining plans, similar such projects are ongoing at the IBM, MOEF&CC as well as the state departments, all over India ", says Palash Chakraborty, Founder & CEO, Novomine India.



Our Key Consulting Services

From exploration to closure, we deliver precision-driven mining solutions that protect communities and the planet.





NOVOMINE INDIA: PIONEERING FUTURE- FOCUSED CONSULTING

Novomine India is a forward-thinking consulting firm that provides integrated solutions in geology, mining, and environmental sectors. With QCI-NABET accreditation, UDYAM Registration, and ISO 9001:2015 certification, Novomine is committed to redefining precision mining through regulatory integrity and technical excellence.

Specialized Services: We are designed to offer a variety of specialized services in exploration, geology, mining, and environmental management. Our team comprises a dynamic blend of enthusiastic young professionals, guided by experienced and highly qualified experts who have excelled in numerous exploration projects, including Mining Plans, Geological Reports, and the preparation and approval of EIA-EMP reports throughout India.



OUR VISION

Our vision is to be the go-to geological and mining advisory partner bridging Indian mineral expertise to international exploration and development projects.

Predictive Science Approach: Utilizing the "Mineral Systems Analysis framework," Novomine India views exploration as a predictive science. We decode the geological processes that influence mineral formation, allowing us to target deposits with both precision and efficiency.

Commitment to Quality: Since our establishment, Novomine has earned a reputation for technical reliability, field efficiency, and data integrity. We assist clients across India in converting raw geological data into actionable resource intelligence.

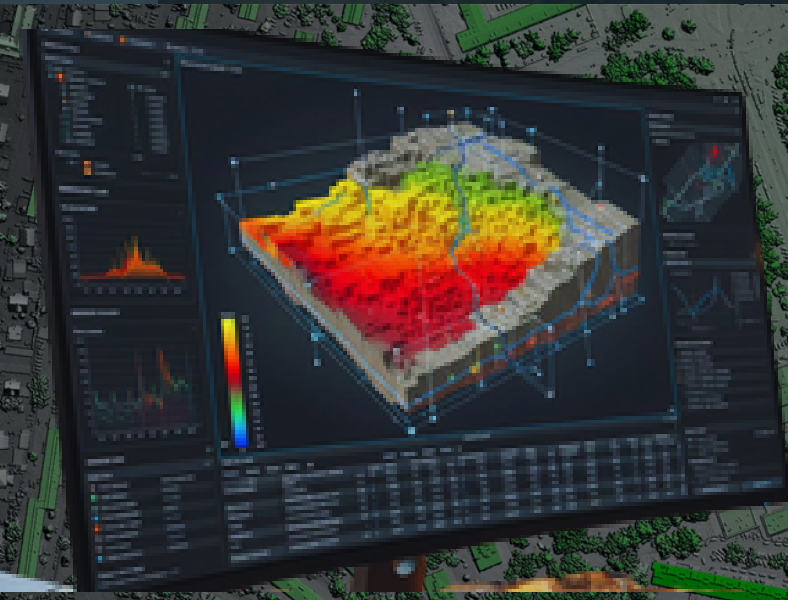
DGPS & GPS Survey

- **GPS Mapping:** Uses satellite signals to record exact geographic coordinates for mapping land, boundaries, and features.
- **Establishment of Control Points:** Sets up fixed, highly precise reference points across a site to anchor all subsequent survey measurements.
- **Contour by using DGPS:** Collects elevation data across terrain using Differential GPS to map elevation contour lines.
- **RTK Survey:** Delivers real-time, centimeter-level positioning accuracy by continuously receiving correction data from a ground base station.
- **Baseline Survey:** Measures a precise, high-accuracy reference line between two known control points to serve as the foundation for broader survey networks.
- **Triangulation Survey:** Determines unknown locations by forming a network of connected triangles and measuring their interior angles from a baseline.
- **Centerline Marking:** Stakes out the exact center axis on the ground for roads, pipelines, or utility corridors.



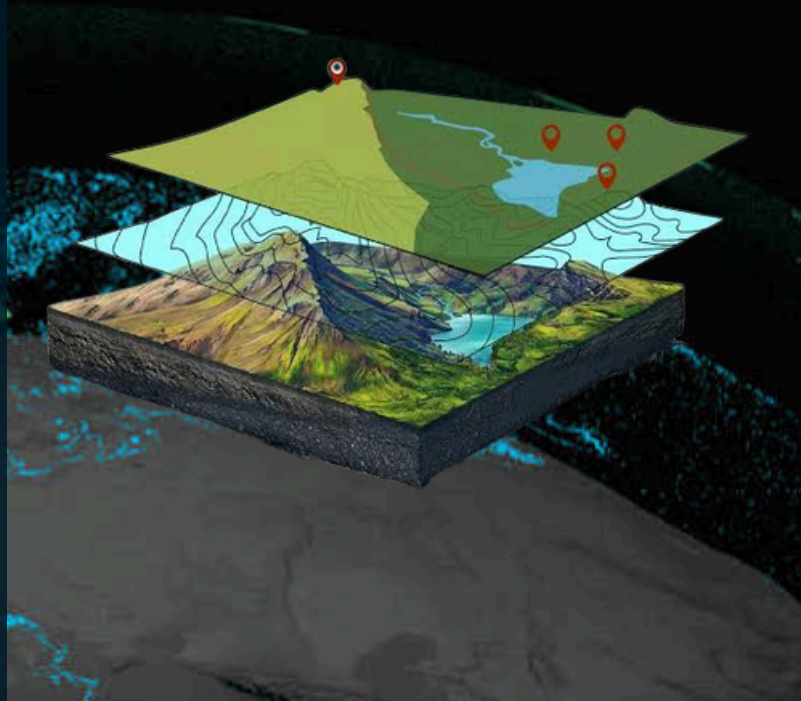
Mapping Solution

- **Digitization of maps / GIS and related project:** Converts physical paper maps, aerial images, and spatial data into structured, interactive vector layers for geographical analysis and database management.
- **Cad Drawing:** Creates precise 2D and 3D computer-aided technical drawings and blueprints for structural, architectural, or civil engineering implementation.



GIS & Remote Sensing

- **GIS Analysis:** Overlays spatial data to locate prospective mineral deposits, plan optimal haul routes, and run environmental impact assessments.
- **Image Processing:** Processes satellite and drone imagery to track surface disturbance, land cover changes, and open-pit expansion.
- **Surface Modeling:** Creates 3D terrain models (DEM/DTM) to calculate topsoil/overburden excavation volumes, track pit depth, and design dump slopes.
- **Digitization:** Converts paper geology maps, old mine plans, and borehole logs into digital spatial vector layers.



WHY NOVOMINE?

- Full-spectrum capability: one partner covering survey → drilling → lab → modelling → planning
- Technically aware & field-experienced: strong & agile team handling India's challenging mineral terrains
- Accredited & compliant: certified for mineral exploration, GR & mine planning and environmental services
- Sustainability anchored: committed to environmentally sensitive mining and circular-economy thinking
- Global readiness: outputs designed following international reporting norms and overseas clients

Full-spectrum capability

Technically aware & field-experienced

Accredited & compliant

Sustainability anchored

Global readiness



Commitment to Quality

Since its establishment, Novomine has earned a reputation for technical reliability, field efficiency, and data integrity.

OUR CREDENTIALS

ISO



ISO 9001:2015
CERTIFIED

APA-
MPPA



QA-NABET
CERTIFICATE OF
ACCREDITATION FOR
APA-MPPA

AEA



QA-NABET
CERTIFICATE OF
ACCREDITATION FOR
AEA

EIA-CO



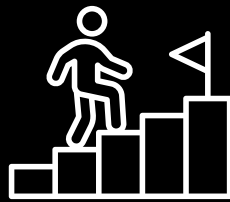
QA-NABET
CERTIFICATE OF
ACCREDITATION FOR
EIA-CO

UDYAM
MSME



UDYAM MSME
REGISTRATION
CERTIFICATE

Our Success Story



Novomine India stands as a shining example of growth, excellence, and innovation in the mining consultancy sector. Our strength lies in the perfect synergy of energetic young professionals working under the guidance of dynamic, pragmatic, and highly qualified advisors who have proven their expertise across numerous exploration projects, Mining Plans, Geological Reports, and EIA-EMP report preparations and approvals throughout India.

“The firm has earned approvals from the Ministry of Coal for several mining plans, with many more projects currently under review at IBM, MoEF&CC, and various State Departments,” says Palash Chakraborty, CEO & Director, Novomine India. The company has successfully completed over 130 minor mineral projects and participated in multiple coal and non-coal initiatives across Meghalaya and West Bengal.

We specialize in planning and executing large-scale mineral exploration programs across India’s diverse geological terrains, with capabilities extending to international projects. Our expertise covers critical and strategic minerals as well as major and minor commodity groups. These achievements reflect our sustained commitment to advancing mineral discovery, resource development, and the overall growth of India’s exploration industry.



We take immense pride in being the only firm from the North-Eastern Region (NER) accredited by QCI-NABET as a Prospecting Agency (APA), Mining Plan Preparing Agency (MPPA), and Exploration Agency (AEA). In addition, Novomine India is ISO 9001:2015 certified and Udyam registered (No. UDY-AM-ML-04-0000904)—further solidifying our credibility and commitment to quality and compliance.



Our recent achievements include securing two base metal exploration projects from the Ministry of Mines under the NMEDT Fund in Odisha—an acknowledgment of our technical capabilities and trustworthiness. Since its inception, Novomine India has rapidly emerged as a leader in mining consultancy, offering end-to-end solutions across the entire mining lifecycle.



Our team played a significant role in planning two of India’s largest mining projects: Gevra (25 MTPA) & Dipka (20 MTPA). These projects were groundbreaking for being the first in India to utilize 42 cubic meter shovels and 240-ton dumpers. Our experts have also contributed to many other mines with capacities up to 20 MTPA, incorporating the use of Draglines.

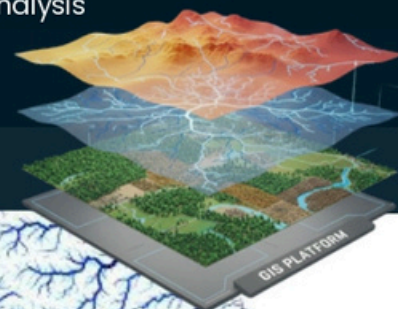
HYDROLOGICAL, REMOTE SENSING & GIS BASED SUPPORT

Water

- Water Resource Planning & Security
- Water Quality Management
- Mine Hydrogeology & Dewatering
- Urban Water System
- Watershed Management
- Regulatory Compliance & Certification
- Groundwater Investigation
- Ecosystem Water

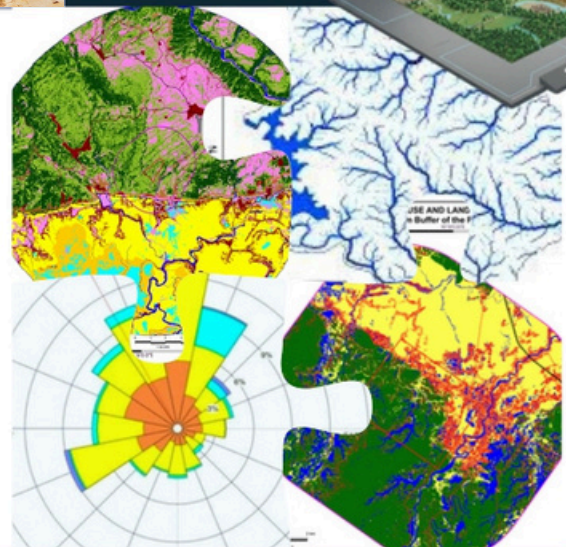
Geospatial

- Terrain & Drainage Model
- Multi-temporal satellite data detecting ecosystem change, vegetation stress & anthropogenic impacts
- Satellite & hyperspectral analysis
- Monitoring land-use, erosion, surface water variability for adaptive management
- Database Management & Analysis



Auction Support

- Support for Critical Mineral and Coal Block Auctions, including shortlisting and securing high-potential blocks.
- Detailed evaluation of RFP documents, with comprehensive risk identification and mitigation inputs.
- Technical assessment of the block, covering geology, mining methodology, and mineral processing aspects.
- Conceptualization and design inputs for CHP / mineral processing plants and all associated infrastructure.
- Activity-wise estimation of CAPEX and OPEX, aligned with project execution strategies.
- Transaction advisory services, including selection of Mining Contractor / MDO, preparation of detailed tender documents, and drafting of Long-term offtake/LoM service agreements.
- Development of robust financial models, including sensitivity and scenario analysis.
- End-to-end bid documentation support for competitive and compliant submissions.



Geotechnical Services

- Subsurface investigation: Borehole drilling, coring, in-situ testing (SPT, CPT, vane shear, pressure-meter)
- Slope Stability & Rock Mechanics:
- Foundation Engineering
- Ground Improvement Solutions
- Instrumentation & Monitoring
- Laboratory Analytics

Renowned for solving environmental challenges while minimizing liabilities and ensuring regulatory compliance, Novomine enhances environmental performance and support clients in achieving sustainable resource management and compliance objectives.

Accredited as a Category 'A' EIA Consultant by QCI-NABET, we provide technical guidance on pre- and post-mining regulatory compliance, environmental impact assessments, and implementation of site-specific Environmental Management Plans (EMP). We prepare EIA-EMP documentation and facilitate statutory environmental clearances from MoEF&CC and SEIAA for mining projects, integrating geospatial, hydrogeological, and ecological data to ensure compliance with national environmental standards and sustainable resource management practices.



Our Environmental Services Include:

- ✓ Environmental Impact Assessment (EIA)
- ✓ Social Impact Assessment (SIA)
- ✓ Ecology & Biodiversity Assessment
- ✓ Environmental & Disaster Management Plans
- ✓ Consent (CTE & CTO) & Compliance Assistance
- ✓ Project & Site Feasibility Reporting

Mine Closure, Reclamation & Rehabilitation

For mines in their final phases, we develop closure plans and obtain approvals, leaving sustainably rehabilitated landscapes beneficial to communities, ecosystems, and corporate reputation.

Through our experts, we prepare closure concepts with comprehensive assessment and management, including waste characterization, geochemical analysis, and earthwork design for stable landforms (waste dumps, tailings storage).



Closure Plan Development & Regulatory Approvals (MoC/IBM, State Authorities)



Waste Characterization & Geochemical Assessment



Earthwork & Landform Engineering (Waste Dumps, Tailings Storage)



Soil Cover Design & Reclamation Methodologies



Erosion Control & Water Quality Management (AMD Treatment Systems)



Afforestation & Vegetation Management

Inhouse Rig Capacity

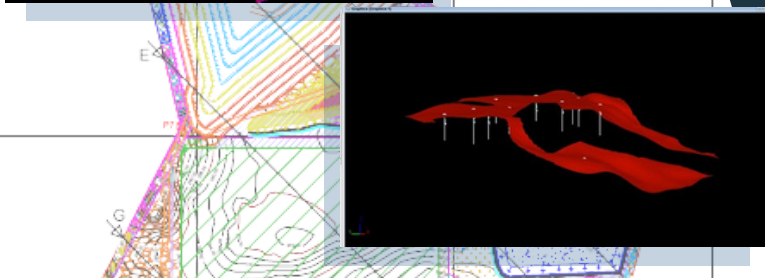
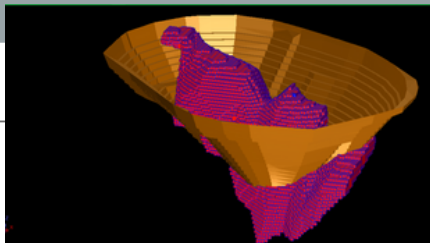
Novomine has **14 inhouse** drilling rigs with depth capacity of upto **1000 m.**

Key Technical Capabilities:

- Drilling Fluid Management
- Tool & bit optimization
- Additive & Lubricant Engineering
- Structural Core Orientation
- Recovery Audit & Gap Management
- Downhole Geophysical Logging & QA/QC

Mineral Exploration & Services

- Mineral Exploration Targeting: Identify prospective zones using integrated geological, geophysical, and geochemical data.
- Topographical Survey: Acquire accurate digital elevation models and terrain data for exploration planning.
- Geological Mapping: Characterize lithology, stratigraphy, and mineralized zones through detailed field studies.
- Remote Sensing Surveys: Use satellite imagery for alteration mapping and identifying mineralization indicators.
- Geophysical Exploration: Apply methods like resistivity and magnetic to characterize subsurface structures.
- Geochemical Analysis: Evaluate soils, sediments, and rocks to understand geochemical signatures related to ore.
- Exploratory Drilling: Execute drilling programs for subsurface data and mineralization evaluation.
- Feasibility Studies: Assess economic viability, deposit geometry, and environmental impacts of mining.
- Geological Report Preparation: Compile geological documentation, including methodology and resource estimates.
- Legal & Regulatory Clearances: Manage approvals and compliance with environmental and mining regulations.



Our Authorized Software



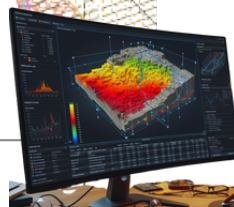
GEOVIA Minex Version 6.5.8



GEOVIA SURPAC 2025



AutoCAD



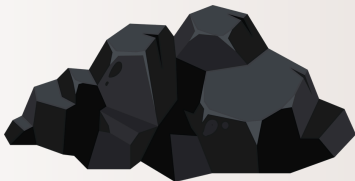
Resource Evaluation & Mine Planning

- Resource Evaluation & Reserve Estimation: Quantification of economically extractable mineral within 3D blocks using geostatistical modeling, block modeling, and classification under UNFC and JORC codes.
- Open Pit Mine Design: Development of pit layouts incorporating slope stability analysis, haulage geometry, and geotechnical domain modeling.
- Underground Mine Design: Effective planning for ventilation, and support systems for optimized underground extraction of structurally controlled orebodies.
- Mine Water Management: Hydrogeological assessment, dewatering design, and environmental water balance modeling.
- Mine Closure & Post-Closure Planning: Formulation of closure strategies including landform reconstruction, geochemical stabilization, and long-term environmental monitoring.

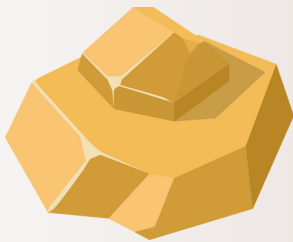
Novomine's Commodity Specialization in Exploration



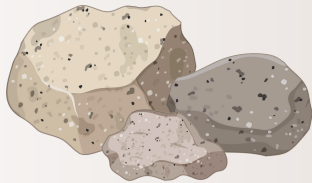
Bulk Commodity



- Iron Ore
- Bauxite
- Limestone
- Coal



- Copper
- Lead
- Zinc
- Gold
- REE
- PGE
- Nickel
- Chromite
- Manganese
- Graphite



Minor Minerals

- Black Stone
- Sand
- Clay
- Dimension Stone
- Wollastonite

OUR APPROACH

At Novomine India, we utilize the Mineral Systems Analysis (MSA) framework for predictive exploration, linking geological structures with mineralization signatures.

Key aspects of our approach include:

- Bridging regional understanding with project execution via geological mapping, sampling, and 3D modeling.
- Designing data-driven drilling programs to confirm orebody geometry while ensuring safety and compliance.
- Conducting environmental studies and securing regulatory clearances to streamline project approvals.
- Applying UNFC/JORC-compliant standards for transparent and accurate resource estimation.
- Integrating ESG principles to ensure sustainability and responsible land use.

Novomine maintains an uncompromising commitment to Health, Safety, and Environmental (HSE) excellence, aligned with globally recognized frameworks such as ISO 45001, ISO 14001, and IFC Performance Standards across all operations.

Our Esteemed Board Members

WE EMBRACE LIMITLESS CREATIVITY, FOSTER OPEN COLLABORATION, AND STAY COMMITTED TO SUSTAINABILITY, ENSURING INNOVATION THAT BENEFITS BOTH PEOPLE AND THE PLANET.



Director & CEO
PALASH CHAKRABORTY



Director
SOUMI CHAKRABORTY



Head of Operations (Coal)
DR. TAPAN K CHAKRAVARTY



Head of Operations (Non-Coal)
JADAB CHANDRA DUTTA



Chief Operating Officer
PULAK BARAN CHAKRABORTY

Meet Our Experts



RAJESH KUMAR CHOPRA
Chief Principal Advisor



ASHIQUE AHAMED
Technical Advisor (Mining)



RAKESH DWIVEDI
Technical Advisor
(Environment)



DR. OM PRAKASH SINGH
Deputy Director



DR. RAMANUJ DUTTA ROY
Principle Advisor (Geology)



SISIR MAJUMDER
Technical Advisor (Survey)



ANIRBAN NANDAY
General Manager - (Marketing)



MOHAMMAD ATIF
Senior Geologist



SOUMEN ROY
Senior Geologist



ANIRUDHA PAUL
Manager (Environment)



SAURAV JANA
Senior Mining Engineer
(Planning)



SHIBANJALI MAHANTA
Environmental Executive

AND MORE THAN 50+ EXPERIENCED PROFESSIONALS

Our Global Advisory & Executive Team



**DR. TAPAN K
CHAKRAVARTY**
Head of Operations
(Coal)



**PULAK BARAN
CHAKRABORTY**
Chief Operating
Officer



**ASHIQUE
AHAMED**
Technical Advisor
(Mining)



**DR. RAMANUJ
DUTTA ROY**
Principle Advisor
(Geology)



**MOHAMMAD
ATIF**
Senior Geologist

Novomine India is powered by an elite panel of internationally recognized geoscientists, mining engineers, and environmental strategists whose cumulative experience spans over a century across more than 16 countries. Guiding every phase of the mineral and engineering lifecycle—from greenfield exploration, JORC/NI 43-101 compliant resource reporting, and statutory environmental clearances to advanced geospatial surveying and international commodity trading—this distinguished leadership team drives our core operations with technical mastery and strategic foresight.



Our Global Advisory & Executive Team



Leading our coal division, Dr. T. K. Chakravarty serves as Head of Operations (Coal). A pioneer in environmental geology with a distinguished 30-year career at CMPDI where he retired as General Manager, he has formulated over 50 EIA-EMP reports, co-founded UIEPL, and led coal exploration across India, Indonesia, Australia, the UK, Canada, and Tanzania. Strengthening our strategic and commercial vision, Dr. R. Dutta Roy brings over three decades of global experience bridging geological expertise with commercial acumen. Having held senior leadership roles at Tata Steel, IMR Metallurgical Resources AG, and India Power Corporation Ltd., he has operated across 16 countries, acquiring over a dozen international coal blocks and spearheading major iron ore export operations.

On the exploration and technical front, Our Senior Geological Professional with 17 years of experience in mineral exploration, mine planning, and JORC-compliant resource management across global territories for industry leaders like Gemfields, JSW Steel, and Tata Steel. His expertise covers critical commodities including gold, iron ore, coal, lithium, REE, and gemstones. Overseeing hydrogeology and spatial data, Mr. M. Atif brings 13 years of cross-border experience specializing in CGWA/PWRDA compliance, artificial recharge design, and Ground Penetrating Radar (GPR) utility detection for major industrial clients like Tata Motors, Infosys, and Shree Cements. Complementing this team, Our advisor delivers over 14 years of geotechnical and detailed engineering expertise, proficient in DGPS, Total Station, and advanced 3D terrain modeling (Civil 3D, ArcGIS) to manage complex site surveys, geophysical mapping, and geo-hazard evaluations.





Global Reach & Commodity Portfolio

At Novomine India Private Limited, our technical presence spans major mineralized terranes and active mining jurisdictions across four continents. Combining deep regional geological knowledge with international evaluation standards, we deliver end-to-end exploration management, deposit modeling, statutory planning, and resource audits worldwide.

Our cross-border project portfolio encompasses the entire value chain of critical and battery minerals, precious metals, bulk energy resources, and industrial minerals.

Global Operations & Key Commodities

- **West & East Africa:** Active across key mining hubs including Ghana, Togo, Sierra Leone, Guinea, Mali, Mozambique, Rwanda, Tanzania, DRC, Kenya, Zambia, South Africa, and Botswana. Our project portfolio covers Gold, Iron Ore, Rutile/Ilmenite, Li-Nb-Ta Pegmatites, Heavy Mineral Sands (HMS), and Gemstones.
- **Asia-Pacific (APAC):** Supporting strategic energy and metal projects in Papua New Guinea, Indonesia, Mongolia, and Australia across Coal, Copper, and Gold deposits.
- **Middle East:** Managing resource evaluations in UAE, Iran, and Oman with a focus on Chromite, Coal, and Dimension Stone.
- **South Asia:** Core operations across India, Sri Lanka, Bangladesh, Afghanistan, and Myanmar, addressing regional demand for Coal, Iron Ore, Rare Earth Elements (REE), Limestone, and Heavy Mineral Sands (HMS).



Professional Recognitions & Institutional Memberships

At Novomine India Private Limited, our technical excellence and operational integrity are reinforced by strong affiliations with leading statutory bodies and global professional associations. These recognitions ensure that our geological, exploration, and mine planning services strictly adhere to regulatory mandates and international best practices.



- **Recognised Qualified Person (RQP), Indian Bureau of Mines (IBM):** Formally certified to prepare, validate, and submit statutory Mining Plans, Scheme of Mining, and progressive mine closure plans in strict compliance with the Mineral Conservation and Development Rules (MCDR).
- **Australasian Institute of Mining and Metallurgy (AusIMM):** Affiliated with premier international standards for mineral exploration, resource estimation, and technical auditing under global reporting standards.
- **Mining Engineers' Association of India (MEAI):** Active member of India's apex professional body for mining engineers, contributing to sustainable mining frameworks, technology adoption, and ethical industry practices.
- **Indian Association of Sedimentologists (IAS):** Connected with advanced scientific research in sedimentary geology, stratigraphy, and basin analysis, strengthening our core geological modeling capabilities.

RECENT **ENGAGEMENTS** **Selected Project Highlights**

Novomine India Private Limited continues to reinforce its global reputation through a track record of high-impact technical engagements across key mining jurisdictions. Our recent portfolio highlights our multi-commodity expertise, spanning precious, base, battery, and industrial mineral assets:

In West and Central Africa, our teams executed gold exploration campaigns and technical due diligence in Ghana, conducted due diligence for high-grade ilmenite and rutile heavy mineral sand assets across Togo and Sierra Leone, and led core iron ore exploration programs in Sierra Leone. Across East Africa, we completed pegmatite-hosted lithium assessments in Mozambique, managed multi-commodity exploration initiatives in Tanzania, and delivered full-scale iron ore drilling management and resource estimation in Rwanda. Expanding our footprint into the Asia-Pacific region, we performed technical due diligence on massive copper-gold systems in Bougainville (Papua New Guinea) and the DRC, while advancing critical mineral strategic capabilities at home through Rare Earth Element (REE) placer reconnaissance across Gujarat, India.



Our Activities



Some of Our Esteemed Clients and Partners



NOVOMINE INDIA

Key to Achieving Sustainability



Address

HeadOffice: 4th Floor, Building No.65,
opposite to Children Hospital, Pohkseh,
Central, Shillong, Meghalaya 793006

Corporate Office: Unit Number 7WS5D,
7th Floor, West Block, Mani Casadona IT
Building, Action Area II, Rajarhat, New
Town, Kolkata, West Bengal 700156



www.novomineindia.com



novomineceo@gmail.com
hrnovomine@gmail.com



+91-8240014632
+91-9436516901