



Anwesha Sarkar

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Summary

Results-driven energy professional with 8+ years of experience at ONGC, combining expertise in technical operations, project management, and techno-commercial evaluation to support Board-approved capital investments exceeding \$20B and projects with projected revenues of approximately \$1.2B.

Professional Experience

8.8 years

Oil and Natural Gas Corporation Limited

Manager | Rajahmundry, Andhra Pradesh

Digital Workflows & Technology

- Analytical Platform Optimization: Deployed AI-assisted analytical platforms to compress manual analysis cycles. Built reusable commercial templates on industry-standard tools to establish a standardized digital workflow for cost benchmarking.

Project Management & Asset Valuation

- Capital Redeployment: Conducted a portfolio review of four legacy assets accruing recurring liabilities, recommending the cancellation of non-viable opportunities and freeing ~\$450M in capital for redeployment to higher-return assets.
- Asset Monetization: Drove the techno-commercial assessment of CO₂ storage potential across depleted reservoirs under CCUS, identifying pathways to monetize legacy assets.
- Regulatory Representation: Represented ONGC's position before the Directorate General of Hydrocarbons (DGH) on asset evaluations, licensing decisions, and regulatory policy matters.

Senior Geologist | Chennai, Tamil Nadu / Rajahmundry, Andhra Pradesh

Project Management & Capital Execution

- Greenfield Program Delivery: Developed the commercial business case for a \$13,000M capital program in India's eastern deepwater frontier. Coordinated cross-functional teams from scratch to secure Board approval for 3 exploration locations, leading to a successful gas discovery valued at \$95M.
- Capital Allocation & Negotiation: Secured Board approval for 5 development projects worth ~\$6,500M in total lifecycle capital across two offshore assets (~100 MMT_oE in-place volume) through commercial evaluation and cross-functional negotiations.
- Strategic Project De-risking: Led the cross-functional re-evaluation of a 493 sq. km offshore block in the KG Basin, identifying 7 new investment opportunities (15.75 BCM gas in-place) and building the case for a strategic exit that saved \$200M.

Commercial Frameworks & Operations

- Financial Risk Modeling: Designed price-sensitivity, cost-variation, and risk-scenario analyses across commodity price bands, providing quantified decision frameworks for board-level investment and divestment choices.
- Vendor Sourcing & Procurement: Managed vendor sourcing for high-complexity drilling. Floated Expressions of Interest (EoI) and evaluated commercial proposals to support a \$200M+ capital-protection decision.
- Joint Venture & Alliance Management: Served as ONGC's core operational interface with ExxonMobil under a strategic MoU for deep-water collaboration. Conducted benchmarking discussions with Shell, and coordinated joint evaluations and data-exchange workflows with Vedanta, BP, and GSPC.
- Asset Lifecycle Protection: Managed regulatory license compliance for a key asset approaching expiry, securing a re-grant that preserved crucial operating rights.

Geologist | Chennai, Tamil Nadu

Project Execution & Revenue Generation

- Resource Monetization: Led a team in opportunity identification and resource assessment across six mature onshore fields (including a joint-venture asset), identifying ~7 MMT in-place oil and ~11 BCM in-place gas, contributing to ~1.5 MMT recoverable oil and 3 BCM recoverable gas, representing \$1,200M in projected gross revenue.
- Asset Value Recovery: Formulated and led a team to re-evaluate overlooked zones in legacy assets following regulatory changes (TNPAZD Act, 2020). Identified 3 MMT oil and 5 BCM gas within 6 months, unlocking ~\$400M+ in incremental asset value.

Operations & Technical Appraisal

- Real-time Operational Control: Maintained control-room operations and provided real-time operational support during high-pressure drilling campaigns, interpreting live data to guide technical decisions during pandemic-related staffing constraints.
- Resource & Supply Chain Allocation: Coordinated procurement planning and inter-asset resource allocation across simultaneous exploration campaigns, ensuring project timelines aligned with regulatory deadlines.

- **Market Entry & Prioritization:** Managed a team to deliver comprehensive analysis assessing the resource potential and commercial viability of unexplored offshore areas, informing ONGC's entry strategy for the Cauvery offshore basin.
- **Investment Appraisal:** Assessed viability and risk across 30+ investment opportunities through data-driven analysis, supporting risk-weighted capital prioritization across competing exploration proposals.

Education

M.Sc. (Applied Geology), *Indian Institute of Technology (IIT), Bombay* | India

B.Sc. (Geology), *Presidency University, Kolkata* | India

Accomplishments and Awards

- Recipient of the IIMA PGPX 25% Entry Scholarship, awarded at the time of programme admission.
- ONGC Exploration Director Award (2024) for identifying 8 investment opportunities in a high-impact business area.
- ONGC Spot Award (2020) by Executive Director for maintaining operational continuity during the COVID-19 lockdown.
- ONGC Spot Award (2019) by Executive Director for opportunity identification and successful regulatory licence re-grant.
- Secured two fast-track promotions at ONGC: Geologist to Senior Geologist (January 2022) and Senior Geologist to Manager E3 (January 2026), both supported by consistent A+ annual performance ratings across all years of service.

Co/Extra-curricular

- Treasurer, Women Development Forum, ONGC, organised awareness programmes and medical camps for women employees and rural communities in Tamil Nadu, demonstrating community engagement beyond core responsibilities.
- Executive Member, Association of Petroleum Geologists (Southern Chapter), organised technical workshops, seminars, and geological fieldwork for professionals and university students.
- Alumni Secretary, Department of Earth Sciences, IIT Bombay, maintained alumni networks and coordinated engagement activities between alumni and current students.