



Anweshha Sarkar

E-Mail: x26anweshas@iima.ac.in Mobile: +91 9445005574 LinkedIn: www.linkedin.com/in/anweshha-sarkar-652b5a161

Summary

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

Professional Experience

8.8 years

Manager | Oil and Natural Gas Corporation Limited | Rajahmundry, Andhra Pradesh

Digital Workflows & Technology

- Served as the domain Subject Matter Expert (SME) guiding the development of an agentic AI proof-of-concept (PoC) for high-resolution geological interpretation, providing the domain-specific understanding needed for fine-scale stratigraphic correlation and formation evaluation.
- Introduced AI-assisted tools to shorten analysis that once took weeks, and digitised scattered legacy data into a single, searchable reference the team could rely on.

Project Management & Asset Valuation

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

Senior Officer | Oil and Natural Gas Corporation Limited | Chennai, Tamil Nadu / Rajahmundry, Andhra Pradesh

Project Management & Capital Execution

- Developed the commercial business case for a \$13B capital programme in India's eastern deepwater frontier (Cauvery Basin), coordinating cross-functional teams from scratch to secure Board approval for 3 exploration locations and delivering a successful gas discovery valued at \$95M.
- Secured Board approval for 5 development projects worth ~\$6.5B in total lifecycle capital across two offshore assets (~100 MMT to E in-place volume), through commercial evaluation and cross-functional negotiations.
- Led the cross-functional re-evaluation of a 493 sq. km offshore block in the KG Basin (Deen Dayal field), 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

- Designed price-sensitivity, cost-variation, and risk-scenario analyses across commodity price bands, giving the board quantified frameworks for investment and divestment decisions.
- Managed vendor sourcing for high-complexity drilling, floating Expressions of Interest (EoI) and evaluating commercial proposals to support a \$200M+ capital-protection decision.
- Served as ONGC's core operational interface with ExxonMobil under a strategic MoU for deep-water collaboration, ran benchmarking discussions with Shell, and coordinated joint evaluations and data-exchange workflows with Vedanta, BP, and GSPC.
- Managed regulatory license compliance for a key asset approaching expiry, securing a re-grant that preserved crucial operating rights.

Officer | Oil and Natural Gas Corporation Limited | Chennai, Tamil Nadu

Project Execution & Revenue Generation

- 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 (~1.5 MMT recoverable oil and 3 BCM recoverable gas), representing \$1.2B in projected gross revenue.
- Formulated and led a team to re-evaluate overlooked zones in legacy assets after the TNPAZD Act, 2020 regulatory changes, identifying 3 MMT oil and 5 BCM gas within 6 months and unlocking ~\$400M+ in incremental asset value.

Operations & Technical Appraisal

- Maintained control-room operations and provided real-time support during high-pressure drilling campaigns, interpreting live data to guide technical decisions through pandemic-related staffing constraints.

- Coordinated procurement planning and inter-asset resource allocation across simultaneous exploration campaigns, keeping project timelines aligned with regulatory deadlines.
- Managed a team to assess the resource potential and commercial viability of unexplored offshore areas, informing ONGC’s entry strategy for the Cauvery offshore basin.
- 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 (June 2015– May 2017)
B.Sc. (Geology), *Presidency University, Kolkata* | India (June 2012– May 2015)

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: Officer to Senior Officer (January 2022) and Senior Officer to Manager E3 (January 2026), both supported by consistent A+ annual performance ratings across all years of service.

Licence & Certifications

- **Lean Six Sigma Green Belt** – KPMG India Services LLP (2026). Completed a 32-hour certification programme in process improvement and operational excellence.
- **Career Essentials in Generative AI** – Microsoft and LinkedIn (2026). Learning path covering Microsoft Copilot, generative-AI applications, and responsible-AI practices.

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.