



Rakhi Saxena

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Summary

Results-driven energy sector professional with a proven track record of delivering value across capital projects, digital transformation, supply chain optimization and operations. Adept at driving cost saving initiatives, process improvements, and coordinating cross-functional teams to foster sustainable growth. Recognised by leadership for delivering strategic impact along the value chain of projects.

Professional Experience

Manager | Oil and Natural Gas Corporation Limited| Mehsana

- Spearheaded \$10M+ P2P processes by integrating diverse portals such as SAP, government tender portals and internal systems, reducing lead time by 45 days and achieving 10-12% cost savings.
- Led a team of 15 personnel and managed field operations across 14+ drilling and well services rigs, improving crew readiness, inter-shift coordination, real-time maintenance resolution and daily throughput increase by 10%.
- Architected cloud-native IoT PoC for rig monitoring; integrated sensor data into centralized Lakehouse for predictive maintenance.
- Achieved outstanding performance ratings consistently, leading to two promotions within the organization. Ranked consistently in the top 10% of professionals based on adherence to timelines, quality of deliverables, and contribution to projects.

Executive Engineer | Oil and Natural Gas Corporation Limited| Mumbai| Mehsana

- Drove key workflows in \$250M+ capex projects (e.g., KG-DWN-98/2, Neelam Redevelopment Project, HRP-III, PRP-VI, R-Series 5 WPP, MHN TCPP PGC BGC, Cluster-9), leading cross-functional teams of 25-30 personnel during bid preparation to commissioning, ensuring technical rigor, cost efficiency, and timely execution.
- Supported strategic shift from Lumpsum Turnkey tendering by playing a key role in selection of EPMC, improving cost transparency and reducing project delivery risk.
- Acted as Chief of Staff to Head of Project Design, driving cross-functional coordination and resource optimization for 60–70 staff; contributed to BCG-led PMO transformation focused on CAPEX governance and organisational structure.
- Led evaluation of IOPS architecture and enabled cloud-based sensor data ingestion and analytics pipeline in KG-DWN-98/2 project.
- Developed Power BI dashboards for Executive Director reviews, enabling automated, consolidated reporting across projects.
- Implemented design standardization, leading to footprint reduction and \$4M CAPEX savings per offshore asset through space optimization and streamlined equipment architecture.
- Developed a business case and delivered a hybrid wind-solar PoC at Dahej as part of ONGC's renewable task force, reducing reliance on conventional energy and supporting ONGC's long-term decarbonization roadmap.
- Integrated engineering data into AVEVA Digital Twin systems (NRDP, HRP-III, R-Series 5 WPP), improving cross-functional asset visibility.
- Achieved cost savings of \$70,000 in KG-DWN-98/2 project by revising the control scheme and spearheading techno-contractual negotiations.
- Coordinated project completion activities at global work centres (Lumut Malaysia, KHI Japan, Aker Malaysia), ensuring compliance and integration readiness.

Assistant Executive Engineer | Oil and Natural Gas Corporation Limited| Mumbai

- Reduced marine logistics cost by \$400K by optimizing hook-up sequencing in a \$100M+ pipeline project.
- Contributed financial inputs for CAPEX planning to improve forecasting accuracy and ROI visibility across capital projects.
- Re-structured Bid Evaluation Criteria (BEC) to accommodate single entities/ consortiums/ joint ventures, improving market competition and bid responsiveness.
- Conducted techno-commercial study for replacing ultrasonic with thermal mass flowmeters, achieving 30% cost savings with better maintainability.
- Enabled vendor base expansion by onboarding Indian OEMs aligned with Make in India strategy.
- Institutionalized lessons learned, improving risk, cost, and time assumptions in future tenders, resulting in a 30% reduction in bidder clarifications across comparable EPC tenders.

Engineering Officer (Retail Automation) | Indian Oil Corporation Limited | Amritsar

- Led rollout of automation of Retail Outlets in Amritsar, streamlining system integration and enhancing operational uptime through cross-functional coordination and rapid issue resolution.
- Collaborated with internal teams, retail outlet owners and external partners to troubleshoot engineering issues and ensure smooth operation.

Education

- M.Tech (Process Control) - NSIT, University of Delhi
- B.Tech (Instrumentation & Control Engineering) - PDM College of Engineering, MD University (Rohtak)

Accomplishments and Awards

- Awarded by Chairman, ONGC Ltd. for ‘Exemplary efforts in completing Neelam Redevelopment and B173AC Projects and all Production related facilities, ahead of schedule’.
- Awarded by Executive Director - Chief Offshore Engineering Services, ONGC Ltd. for outstanding performance.
- Awarded by Executive Director - Chief Offshore Engineering Services, ONGC Ltd. for ‘Exemplary efforts in completion of R Series 5 Well Platforms and Pipeline Project and all Production related facilities of the Project’.
- Published an IEEE paper titled ‘A hybrid Lyapunov Fuzzy Reinforcement Learning Controller’ during the proceedings of International Conference on Computing for Sustainable Global Development, New Delhi.
- Secured All India Rank-29 in GATE-2015 (IN).
- Secured 5th rank in university during B.Tech, with consistent top ranks in 3rd, 4th, 7th, and 8th semesters.

License & Certifications

- Lean Six Sigma Certification by KPMG.
- Understanding Cloud Computing by Datacamp.
- Renewable Energy Technologies and Strategies by IIT-Bombay.

Co/Extra-curricular

- Secured National Runner-up position in ONGC Business Games, a competitive event focused on real-world business strategy and decision-making.
- Selected for ONGC’s Renewable Energy Taskforce; evaluated and recommended projects aligned with company’s net-zero objectives.