



Kunal Singh

E-Mail: x26kunal@iima.ac.in Mobile: +91 9869787184 LinkedIn: [linkedin.com/in/kunalvsingh/](https://www.linkedin.com/in/kunalvsingh/)

Summary

Infrastructure and Energy Professional with 6.7 years of experience across project execution, operations, procurement, commissioning, and technology development, driving large-scale infrastructure programs through stakeholder management, operational excellence, and cross functional leadership.

Professional Experience

Officer-D / Executive Engineer | NPCIL | Mumbai

- Managed a **₹10 Cr** strategic delivery partnership with **Tata Consulting Engineers (TCE)**, driving **digital transformation** of engineering delivery through 3D model-based (**Digital Twin**) workflows across **200+ multidisciplinary project deliverables**, expanding engineering execution capacity by **5×** while enabling an estimated **₹12.5 Cr** lower engineering execution cost and accelerating project delivery by **2 years** compared with an equivalent in-house execution model.
- Established robust deliverable tracking and engineering change-management mechanisms across large-scale infrastructure projects, enhancing stakeholder visibility, streamlining engineering coordination, and reducing approval-cycle delays by **50%**.
- Steered a **₹2.29 Cr** Prodok software program, driving **digital transformation** by replacing manual engineering drafting with software-enabled workflows, improving engineering productivity by **71%** and increasing engineering drawing throughput by **3.5×** using the same engineering workforce.
- Conducted techno-commercial evaluation for a **₹387 Cr** strategic infrastructure project, supporting procurement and investment decisions of **DAE review committees** through stakeholder management, achieving **>80% QMIS performance**.
- Spearheaded development of **70+ project deliverables** and **~20 bid documents** across engineering, procurement, and regulatory stakeholders, supporting project execution while reducing execution **time and costs by 10%**.
- Led a **6-member** team to deliver commissioning readiness for a **₹100 Cr** infrastructure package, managing cross-functional site, engineering, and operations stakeholders to support India's first indigenous 700 MWe reactor project.
- Drove enhancement of **30+ critical infrastructure systems** across fleet-mode reactor projects by integrating operational learnings and stakeholder inputs, improving deployment readiness, long-term system reliability, and reducing future fleet project timelines by an estimated **10%**.
- Coordinated cross-functional stakeholders across **two ₹10 Cr technology development programs**, delivering **50+ project, quality assurance, and compliance documents** to enable successful transition from design to prototype development, reducing development time by **5 months**.
- Executed end-to-end procurement and commissioning of safety-critical systems worth **₹1.14 Cr+**, managing vendor qualification, bid evaluations, commercial assessments, and contract recommendations to support critical project milestones.

Officer-C / Engineer | NPCIL | Mumbai

- Delivered a design optimization initiative across **70 safety-critical systems**, improving lifecycle reliability and long-term asset performance by extending asset life **2×** and avoiding an estimated **₹80 Cr** in lifecycle replacement and obsolescence costs
- Served as Member Secretary of a cross-functional task force driving the indigenization of a **First-of-a-Kind (FOAK)** seismic instrumentation system for **India's first indigenous 700 MWe reactor project**, delivering projected savings of **₹5.14 Cr** while enhancing supply chain resilience and self-reliance.
- Supported execution of a **₹125 Cr** strategic instrumentation project by coordinating procurement planning, vendor evaluation, and delivery of critical systems for **indigenous 700 MWe reactor projects**, achieving **90% KPI performance**.

Trainee Officer | NPCIL | Rajasthan

- Completed NPCIL's one-year Nuclear Power Orientation Training Program at Rajasthan Nuclear Training Centre (NTC), encompassing **28** technical modules, extensive field training at an operating nuclear power plant, and multiple qualifying evaluations.

Education

B.Tech (Electronics & Communication Engineering) – MNNIT Allahabad

June 2015- May 2019

Accomplishments and Awards

- Promoted to **Officer-D** and consistently received **Outstanding APAR** ratings through the end of tenure.
- Secured **All-India Rank 1** in the Electronics Engineering stream of NPCIL's Nuclear Training Program.

- Associated with the award-winning team that received the **Best Poster Award** at **Indian Nuclear Society's International Conference (INSIC-2023)**.
- Authored **two articles** in **Nuclear-Power international** magazine on advanced radiation monitoring techniques.
- Selected by **NPCIL** as a team member of **Computer and Information Security Advisory Group (CISAG)** in conducting IT security audits of **DCSEM**, supporting enterprise cybersecurity governance and risk management.

License & Certifications

- Artificial Intelligence CDAC Pune
- Machine Learning Specialization – Stanford/Coursera
- Pre-MBA Statistics – IIM Ahmedabad
- Excel Skills for Business: Advanced – Macquarie University

Co/Extra-curricular

- **Second Runner-Up**, Embedded Systems Competition, Techkriti (IIT Kanpur)
- **Second Runner-Up**, Embedded Systems Competition, Avishkar (MNNIT Allahabad)
- **Winner**, Inter-department Football Tournament, MNNIT Allahabad (2015)
- **Runner-Up**, Inter-department Football Tournament, MNNIT Allahabad (2019)