



Kunal Singh

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Summary

Strategic leader with 6.7 years of experience in energy and infrastructure, solving complex business and execution challenges across ₹387 Cr+ strategic and transformation initiatives, with experience in digital transformation, techno-commercial evaluation, cross-functional leadership and stakeholder management.

Professional Experience

Officer-D / Executive Engineer | NPCIL | Mumbai

- Led a ₹10 Cr TCE partnership, driving **digital transformation** by shifting engineering processes to Digital Twin workflows across **200+** engineering deliverables; increased capacity by **400%**, enabling **₹12.5 Cr lower cost** and 2-year faster delivery.
- Led deliverable tracking and engineering change-management across large-scale infrastructure projects, improving coordination and reducing approval-cycle **TAT by 50%**.
- Led a **6-member** team to deliver commissioning readiness for a ₹100 Cr infrastructure package, coordinating site, engineering and operations stakeholders for India's first indigenous 700 MWe reactor project.
- Spearheaded a **digital transformation** initiative to replace manual drafting with software-enabled workflows, releasing ~18.2k engineering hours annually (~1 Cr); improved productivity by **71%** and drawing throughput by **3.5×**.
- Coordinated stakeholders across two ₹10 Cr technology development programs, delivering **50+** quality and compliance documents to enable prototype development, reducing development time by **5 months**.
- Enhanced **30+** critical systems across fleet-mode reactor projects, integrating operational learnings and stakeholder inputs to improve deployment readiness and reliability while reducing future project timelines by **10% (~8 months)**.
- Spearheaded development of 70+ project deliverables and ~20 bid documents across engineering, procurement, and regulatory stakeholders, reducing project execution **TAT and OPEX by 10%**.
- Conducted techno-commercial evaluation of vendor bids for a ₹387 Cr strategic infrastructure project, supporting DAE review committees in vendor selection and PO placement decisions, delivering **₹62.04 Cr** in savings.
- Executed end-to-end procurement and commissioning of **₹1.14 Cr+** safety-critical systems, leading vendor qualification, bid evaluation, commercial assessment, and contract recommendations to meet critical project milestones.

Officer-C / Engineer | NPCIL | Mumbai

- Designed and optimized a thermal-management solution across 70 safety-critical systems, extending asset life **2×** and improving lifecycle reliability while avoiding an estimated **₹80 Cr** in replacement and obsolescence costs.
- Led a cross-functional task force to indigenize FOAK seismic instrumentation for India's first indigenous 700 MWe reactor, delivering **₹5.14 Cr** in projected savings and strengthening supply chain resilience.
- Managed procurement planning and site execution for a ₹125 Cr strategic instrumentation project, aligning vendors, engineering and site stakeholders to drive timely deployment of critical systems for indigenous 700 MWe reactor projects.

Trainee Officer | NPCIL | Rajasthan

- Completed NPCIL's one-year Officer Training Program, covering 28 modules and field training at an operating NPP.

Education

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

July 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 team receiving Best Poster Award at Indian Nuclear Society International Conference (INSIC-2023).
- Authored **two articles** in **Nuclear-Power international** magazine on advanced radiation monitoring techniques.
- Secured **AIR 969** in GATE 2019 (EC) among **1.04 lakh+ candidates**.

License & Certifications

- Artificial Intelligence CDAC Pune
- Machine Learning Specialization – Stanford/Coursera
- KPMG Lean Six Sigma Green belt
- 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)