



Nishant Rishav

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Summary

Senior business leader with 13 years of experience across energy and infrastructure, combining large-scale capital investment, project execution, enterprise transformation, and strategic leadership.

Led techno-commercial appraisal of ~₹3,500 Cr of capital projects, supporting board-level investment decisions. Led complex, multi-stakeholder initiatives from feasibility and planning through engineering, contracting, and execution, including contributing to the successful delivery of India's largest public-sector coal washery. Beyond project delivery, shaped CIL-wide tender and contracting reforms, contributed to enterprise-level coal beneficiation strategy, and drove circular-economy initiatives—translating strategic priorities into scalable and commercially viable programs.

Recognized with the CIL Award of Excellence for Best Infrastructural Planning, rated Outstanding for five consecutive performance cycles, and qualified the highly competitive UPSC Engineering Services Examination. Brings a strong combination of strategic thinking, commercial judgement, stakeholder leadership, and execution discipline to senior General Management, Business Leadership, and Transformation roles.

Professional Experience

Central Mine Planning & Design Institute Limited (CMPDI), Ranchi

Manager, Coal & Mineral Preparation (CMP) Division

- Led techno-economic appraisal for 6+ coal washery capex projects (₹250–1,200 Cr each), building integrated models across process design, capex/opex, and DCF-based investment analysis — outputs directly informed board-level sanctions.
- Lead author of feasibility reports for 3 major washeries — Balram (15 MTPA), New Sawang (1.5 MTPA), New Moonidih (2.5 MTPA) — ensuring engineering quality, process integrity, and on-time delivery.
- Steered CIL-wide reform of coal washery tender frameworks (BOM, BOO, EPC) — streamlined eligibility norms, improving bidder participation and cutting tender cancellations across CIL subsidiaries.
- Core committee member shaping CIL's non-coking coal beneficiation strategy — led field assessments, technology evaluation, and techno-economic feasibility for 5 proposed plants (~40+ MTPA) .
- Conducted techno-commercial bid evaluation for coal washery tenders — including Moonidih (2.5 MTPA), New Sawang (1.5 MTPA), and Basantpur-Tapin (4 MTPA) — informing bidder selection for award decisions.

Central Mine Planning & Design Institute Limited (CMPDI), Ranchi

Deputy Manager, Coal & Mineral Preparation (CMP) Division

- Drove technical design reviews, trial runs, and Performance Guarantee tests for India's largest public-sector coal washery — 10 MTPA Ib Valley, Mahanadi Coalfields Limited — contributing to successful commissioning and over ₹12 Cr in consultancy income for CMPDI.
- Independently scrutinized 400+ engineering drawings across 4 concurrent washery projects (Bhojudih, Patherdih, Ib Valley, Moonidih) spanning 2–10 MTPA capacity, consistently exceeding drawing-review targets by 100–280%.
- Driving execution of "Overburden-to-Sand" circular economy initiative across 5 mine sites (Manikpur, Amlai, Amadand, Johilla, Gevra)— converting waste rock into manufactured sand to substitute river-bed mining.

Central Mine Planning & Design Institute Limited (CMPDI), Ranchi

Assistant Manager, Regional Institute-I / E&M Division

- Managed project planning, engineering, and design of Coal Handling Plants (CHPs), underground transport systems, workshops, and dewatering systems across 10+ ISO 9001-compliant mine project reports, achieving a 95%+ client satisfaction rating.
- Coordinated plant mechanization and process engineering support for more than 6 customized industrial Effluent Treatment Plant (ETP) schemes to ensure total environmental compliance.
- Governed third-party pre-despatch inspections for mining and industrial equipment against strict BIS standards across major supplier consignments, reducing delivery defect rates below 2%.
- Supervised regional vehicle fleet operations, preventive maintenance schedules, and specialized non-destructive testing (NDT) services to ensure core operational asset reliability and zero downtime.

Reliance Power Limited, Samarlkota

Graduate Engineer Trainee, Operations Department

- Monitored operational and safety parameters at 220 MW Samarlkota Combined Cycle Gas-based Power Plant, identified technical anomalies, and supported the shift team in ensuring safe and reliable plant operations.

Accomplishments

- Qualified the Engineering Services Examination conducted by UPSC in 2012, with a selection rate of less than 0.37%.
- CIL Excellence Award: Conferred with the 'CIL Award of Excellence for Best Infrastructural Planning' (2023) by the CMD, CMPDI, for leading the revival planning of the defunct Moonidih Washery circuit and engineering critical modifications to the Bina Deshaling Plant.
- Performance Ratings - Coal India Performance Appraisal: Rated Outstanding, the highest performance grade for the last 5 consecutive annual performance cycles; consistently rated 'Exceeds Expectations' on all personal quality dimensions.
- Certificate of merit by CBSE: Awarded certificate of merit by CBSE for outstanding academic performance in AISSE-2004. (top 0.1% in English)

Education

Bachelor of Engineering (Mechanical Engineering), Birla Institute of Technology, Mesra (2007-2011)

Certifications

- Business Valuation Certificate-Corporate Finance Institute
- Contract Management: Procurement of Works-Indian Institute of Coal Management (IICM), Ranchi
- General Management Programme for Executives-Indian Institute of Management, Lucknow
- Excel Skills for Business: Advanced- Macquarie University

Extra-Curriculars

- Co-authored research on India's coking coal self-sufficiency, accepted at the International Coal Preparation Congress (ICPC XXI), 2025, South Africa; authored technical articles in MINETECH Journal on intelligent ETP control systems and modular washeries.
- Winner, State-level Yoga Championship-National Institute of Yoga.
- National Service Scheme (NSS) volunteer - taught in government schools, organized blood donation camps and college events, and conducted door-to-door relief collection for Bihar flood victims.

Functions List

- General Management
- Consulting & Strategy
- Project & Program Management

Sectors List

- Energy & Utilities
- Government & PSUs
- Infrastructure & Logistics