



# Nishant Rishav

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## Summary

Business & Transformation leader with 13 years across Energy, Infrastructure & Industrials at CIL's planning & design arm. Driving strategy, policy advisory, investment appraisal, tender reforms, process & design engineering, project planning, stakeholder management, ESG, circular economy and enterprise transformation.

## 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

- 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.
- Secured AIR-52 in the UPSC Engineering Services Examination (2012).

## Education

**Bachelor of Engineering (Mechanical Engineering), Birla Institute of Technology, Mesra**

**(2007-2011)**

## Certifications

- Business Valuation Certificate-Corporate Finance Institute
- Lean Six Sigma Green Belt Certification-KPMG
- 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.
- Organized blood donation camp and conducted door-to-door relief collection for Bihar flood victims as part of National Service Scheme (NSS)

## Functions List

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

## Sectors List

- Energy & Utilities
- Government & PSUs