

VIPAN KUMAR

Senior Civil Superintendent – Infrastructure / Bridges / Precast Concrete / Metro / Highways / Construction Management

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PROFESSIONAL SUMMARY

Senior Civil Supervisor with 21 years of experience in large-scale infrastructure and construction management across India and GCC countries; expertise includes precast concrete production and segmental bridge construction. Revamped production workflows, resulting in a 15% upswing in team productivity and slashing material waste by 8% while upholding a perfect safety record spanning 21 years. Recognized with the NEOM Safety Excellence Award for exemplary safety leadership and promoted within two years for consistent Project delivery ahead of schedule.

SKILLS

Core Engineering Skills: Precast Concrete Production, Segmental Bridge Construction, Post-Tensioning, Structural Rehabilitation, Reinforced Concrete, Grouting, Cable Threading, Segment Alignment, Tolerance Management, Road Construction, Bridge Construction, MSE / RE Wall Construction, Soil Reinforcement (Geogrid / Geostrip) Installation

Project Execution & Management: Construction Management, Site Supervision, Client Coordination, Consultant Liaison, Workforce Planning, Resource Allocation, Schedule Adherence, Milestone Tracking, Quantity Surveying

Compliance & Quality Assurance: HSE Management, OSHA Compliance, NEOM Standards, Risk Assessment, Permit to Work Systems, Lifting Audits, Inspection Approvals, Material Testing, Quality Control

Technical Proficiency: Shop Drawings Review, Method Statements, Inspection Test Plans (ITP), Bar Bending Schedules (BBS), Constructability Analysis, Crane Coordination

WORK EXPERIENCE

Production Superintendent — NEOM — El Seif Engineering Contracting Co., Saudi Arabia

Aug 2023 – Dec 2025

Project: NEOM Water Transmission Pipeline (Oxagon–Gayal), Design & Build

- Directed precast production of 500+ pipe culverts with 100% compliance to approved drawings and QA/QC standards.
- Engineered a streamlined production schedule, allocating tasks to 30+ workers, resulting in a 20% upswing in overall output of precast components while upholding superior quality standards.
- Spearheaded pre-pour assessments of 500+ pipe culverts, personally rectifying three recurring defects in gasket installation, guaranteeing 100% compliance with quality assurance standards.
- Reduced rework by 25% through strict control of pouring, curing, and demolding.
- Championed HSE initiatives, performing 60+ hours of safety training and delivering toolbox talks, achieving zero work related incidents and fostering a culture of safety awareness across Project teams.

Supervisor – Precast Division — Larsen & Toubro, India

Sep 2021 – Jun 2023

Project: Dhubri–Phulbari River Bridge (19 km)

- Supervised full-cycle precast production of curved and straight box girder segments, achieving consistent geometric accuracy within ± 1 mm tolerances and 100% compliance with segmental bridge design standards and specifications.
- Managed casting yard operations for segments ranging 12.5–28.5 m in length, optimizing mould utilization and production flow to support continuous output while securing 100% QA/QC approvals on all cast elements.
- Expedited dispatch of precast segments to launching gantry erection fronts, achieving 99.9% successful dispatches and enabling continuous operations for complex geometry segments, with zero delays.
- Prepared Bar Bending Schedules (BBS), calculated precise concrete volume requirements for each pour, managed shuttering/ formwork systems, and maintained comprehensive project documentation to facilitate smooth audits and approvals.
- Championed rigorous HSE compliance through 200+ daily toolbox talks, hazard assessments, and safety checks; improved safety culture awareness, achieving a 40% reduction in near-miss incidents.
- Championed the use of digital tools for resource planning that improved material usage, reduced waste of concrete by 12% and increased on-time delivery of precast segments by 15%.

Foreman – Casting Yard Operations — APCO Infratech, India

Jul 2020 – Aug 2021

Project: Delhi–Meerut RRTS Viaduct

- Pioneered the setup of a new precast yard, streamlining operations and implemented improved workflows, culminating in the successful creation and dispatch of over 400 segments within 15 months.
- Overhauled the concrete curing cycle, diminishing the curing time by 7% and augmenting weekly segment output by 12%, outpacing initial milestones and **Project** goals in the casting yard.
- Implemented three new safety protocols in the precast yard, leading to a sustained period of 60 days without any reported safety incidents, improving overall team safety.

Civil Works Supervisor — Al Balagh Trading, Qatar

Mar 2019 – Apr 2020

Project: Qatar Academy expansion

- Directed the Qatar Academy expansion Project, which involved placing over 6000 cubic meters of reinforced concrete, ensuring compliance with stringent Qatar construction standards.

- Administered a \$50k budget for sewer and storm water network developments, optimizing resource allocation and delivering **Projects** under budget, exceeding stakeholder expectations.
- Boosted subcontractor compliance with safety regulations by 30% through regular site inspections and implementing corrective actions addressing potential hazards, sustaining zero safety incidents during construction.

Site Supervisor – Viaduct — Rizzani De Eccher, UAE

May 2018 – Feb 2019

Project: Viaduct Superstructure Works for Dubai Metro Red Line

- Guided a team of 15+ workers in the assembly of precast segments where the 'most junior member on the team' was assigned to mentor a new hire, improving team efficiency by 10%.
- Masterminded a revised post-tensioning procedure that launched grouting pressure consistency by 12%, leading to a stronger bond between the tendons and concrete, enhancing the viaduct's long-term durability.

Site Supervisor — Afcons Middle East, UAE

Feb 2017 – Apr 2018

Project: Al Awir Road, Bridge & Entrances of International City

- Orchestrated erection of RMDK formwork, achieving 100% alignment accuracy, enabling consistent placement of 130 m of concrete weekly, and cutting material waste by 12% for post-tensioned box slabs.
- Executed complete post-tensioning sequence (duct installation, cable threading, stressing, grouting) across 500+ tendons, ensuring 100% compliance with design profiles and stressing records, resulting in zero grouting defects and enhanced long-term structural durability with lowest rework rate on the project.
- Enforced strict HSE compliance during lifting, formwork, and PT operations through 80+ toolbox talks and daily hazard checks, maintaining zero lost-time incidents over 14 months and securing 100% approval in all RTA/DM safety audits and inspections.

Precast Supervisor — Afcons Infrastructure, India

Jan 2014 – Oct 2016

Project: Design & Construction of Elevated Metro - CC15 Line 8 (Janakpuri West to Botanical Garden)

- Revamped the precasting process by fixing the three biggest causes of stoppages, which included material shortages and machinery maintenance, and revitalized production by 17% within six months.

Viaduct Supervisor — Afcons Infrastructure, India

Jul 2012 – Dec 2013

Project: Rehabilitation, Strengthening & Four-Lanning of Jammu to Udhampur Section (Km 15.00 to Km 67.00) of NH-1A, Jammu & Kashmir

- Designed cast-in-situ retaining walls, RCC culverts, and foundation works in hilly terrain, managing formwork, reinforcement, excavation, and concrete operations to deliver 150–200 m³ daily placement while achieving full compliance with NHA1 specifications and design standards.
- Optimized material usage, manpower (40+ workers), and equipment deployment, reducing material wastage by 15% and enabling consistent progress reporting and schedule adherence, contributing to timely completion of critical viaduct and road segments.

Casting Yard Foreman — C&C Construction Ltd., India

Jul 2010 – Apr 2012

Project: Construction of the 4/6 Lane Zirakpur–Parwano Section of NH-5 (Old NH-22) Road and Bridge Project

- Supervised precast MSE/RE wall panel works, including reinforcement fixing, shuttering, concreting, and curing activities for **150+ panels per month**, ensuring on-time delivery to erection fronts with zero major quality rejections.
- Ensured dimensional accuracy within ± 3 mm tolerances, superior surface finish quality, and correct embed placement in all precast elements as per approved drawings, achieving **100% QA/QC approval** rate across 1,800+ panels produced during tenure.
- Restructured the manufacturing of 90 pre-stressed concrete (PSC) girders monthly, streamlining the RCC work and achieving the mandated structural integrity regulations, plus increased overall Project delivery timelines.

Structure Supervisor — SP Singla Construction, India

Feb 2004 – Jun 2010

Project 1: Two Lane High-Level Bridge over River Sutlej at Bunga Sahib, Sarai Ka Pattan

Project 2: Railway Over Bridges Infrastructure (ROB's) Project

- Masterminded structural RCC operations, ensuring compliance with the latest IS codes and safety regulations on 2 infrastructure Projects, thus achieving zero major incident rate.
- Steered daily operations of teams completing post-tensioning and structural RCC works, boosting stakeholder satisfaction scores to the highest level in the company through clear communication.

EDUCATION

Diploma in Civil Engineering — Delhi Institute of Engineering Studies, New Delhi

CERTIFICATIONS

- First Aid & CPR Certification - Emergency Response Preparedness
- Confined Space Safety & Working at Heights - Safe Operations Compliance
- Lifting Supervisor Training – Heavy Equipment & Rigging Safety
- NEOM HSE Safety Standards Certification - Health Safety & Environment Excellence
- Permit-to-Work Systems & Risk Assessment Training - Hazard Identification & Risk Mitigation