



**Pradeep Kumar**  
**Manager (Civil)**

**Energy Infratech Private Limited**

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## PROFILE

- Mr. Pradeep Kumar has professional experience of more than 15 years in the field of Hydropower Projects development. He has experience in construction-planning & supervision of large hydropower structures for about 15 years which includes Concrete & concrete face rock fill dam (CFRD), chute spillway, flushing tunnel, power intake, power channel, bye pass channel, construction of cutoff wall for CFRD, curtain grouting along the cutoff wall, reservoir treatment, rock stabilization & support by means of rock bolts, cable anchors, rock anchor, self drilling anchor (SDA), welded wire mesh, shotcrete (dry & wet), steel fiber reinforced shotcrete (SFRS), underground excavation in different classes of rock, rib installation & backfill concrete, invert & overt concrete lining in HRT, contact, consolidation & curtain grouting, pressure relief holes in tunnel, water pressure testing, shuttering, reinforcement and concrete works in open and underground structures, desilting chambers, surge shaft , surge chamber, pressure shaft and power house, tailrace tunnel (TRT) etc.
- He has experience in Quality Control and Quality Assurance of civil works of large hydro power project which includes checking the reinforcement, form work, concrete as per drawing and Technical Specifications, designing of concrete mix of various grades as required on the basis of structural drawings and site condition, monitoring the production of mixes as per the specified requirements at batching plants, material testing such as cement, fine aggregates, coarse aggregates, concrete, shotcrete, rock bolt and CFRD field tests as per relevant IS / Technical specifications and ITP, knowledge regarding calibration of batching plant, prepare quality plan, ITP, work method statements and test formats as per the standard practice of the company, develop and execute a Project Quality Plan appropriate for the project phase. monitor and measure effectiveness of the



quality plan, support project QA/QC team to ensure that the project deliverables meet quality targets defined by the Project, implementation of Quality Management System including training, audits, NCR management, able to review and interpret quality records and determine associated compliance with requirements (performance data, test record, inspection record etc.

- He has experience in hydrological studies & preparation of hydrology chapter which includes computation of water availability, design flood and diversion flood, sediment analysis of the reservoir, dam-break analysis using HEC-RAS software, transient analysis for surge shaft using specialized software WHAMO, high flood level (HFL) computations using HEC-RAS software, head loss computation for the project, review of construction drawings etc.
- He has experience in construction-planning & supervision of large Nuclear Power Project which includes Reactor Building (3 & 4 = 540 MW each), internal walls like east cross wall, west cross wall, FM pedestals, south wall, north walls, staircases, EL. 115 FM Vault slab, S.G. Vault (N & S both), O.C. wall, I.C. wall, EL. 130 slab, approach roads, underground tunnels and trenches (CTL, PTL, CTR, PTR) and temporary jetty etc.
- Mr. Pradeep Kumar is associated with the company since 7<sup>th</sup> November 2013.

## PROFESSIONAL HIGHLIGHTS

During his service, he was associated with following important projects/works.

1. Selected through campus interview in the final year of engineering course (year 1999) by Larsen & Toubro Limited and he has started his career on 1<sup>st</sup> July, 2000 with Larsen & Toubro Limited and supervised the construction activities for Tarapur Nuclear Power Project Unit 3 & 4 (540 X 2 = 1080 MW). (3.5 Years)
2. While with Larsen & Toubro Limited he has supervised the construction activities for NHPC Lower Subansiri Hydro Electric Project – (250 X 8 = 2000 MW ) (2.5 Years)
3. While with Riba Construction Pvt. Limited he has supervised the construction activities for GVK-Alaknanda Hydro Power Project ( 82.5 X 4 = 330 MW ) (4.0 Years)
4. While with Energy Infratech Pvt. Limited he has supervised the QA/QC of the construction activities for Teesta Stage-III H.E. Project – (200 X 6 = 1200 MW) (1.5 Years)



5. While with Energy Infratech Pvt. Limited he has involved in the preparation of Hydrology Chapter for FSR & DPR of Mawphu II HEP, Meghalaya ( $2 \times 37.5 = 75$  MW), Hydrology Chapter for FSR & DPR of Dorjilung HPP, Bhutan ( $187.50 \times 6 = 1125$  MW), Review of Hydrology Chapter of Saptdhara SHEP, Odisha ( $6 \times 3 = 18$  MW), Review of Hydrology and Sedimentation Studies of GMR- Upper Karnali HEP, Bhutan ( $112.5 \times 8 = 900$  MW) (1.5 Years)
6. While with Energy Infratech Pvt. Limited presently he is supervising the construction activities for Karuma Hydro Power Project ( $100 \times 6 = 600$  MW). (Since February, 2016)

#### QUALIFICATION

Master of Technology – (Civil Engineering - Hydrology and Water Resources Engineering) + Bachelor of Technology (Civil Engineering) + Diploma (Civil Engineering – Construction Technology) + Certificate of Training (Business Skill Development Programme) Under MSME - Government of India

#### PROFESSIONAL MEMBERSHIP

1. Membership of “The Institute of Engineers (India)”, (membership no. AM-1671696)