



MR. SATISH CHANDRA RAI

Energy Infratech Pvt. Ltd

Deputy General Manager

Email:- satish.rai@energyinfratech.com

Contact Detail:- 0120-4672356

PROFILE

Satish Chandra Rai after obtaining his bachelor's degree in Civil Engineering from NIT Hamirpur had started his career with Jai Prakash Industries Ltd. Mr. Rai has over 16 years of experience in Indian Power Sector executing different Hydro Power Project of various Capacities. The projects with which Mr. Rai has been associated are enlisted below:-

- 1500MW – Nathpa-Jhakri Hydroelectric Power Project, Himachal Pradesh, India.
- 1200MW- Teesta- III Hydroelectric Power Project, Sikkim, India.
- 800MW - Parbati Stage-II Hydroelectric Power Project, Himachal Pradesh, India.
- 300MW - Baspa II Hydroelectric Power Project, Himachal Pradesh, India.
- 183.2MW- Isimba Hydroelectric Power Project, Uganda.

Professional Highlights

➤ 1500MW Nathpa-Jhakri Hydroelectric Power Project

JOB RESPONSIBILITY:

- Shuttering, Reinforcement & Concreting in Dam blocks & Underground Desilting Chambers
- Consolidation & Curtain grouting in foundation gallery, inspection gallery & Dam Blocks.
- Stabilization of river banks upstream & downstream by means of rock bolts, Cladding walls & Cable anchors.
- Water pressure testing in blocks & galleries.
- Underground excavation in different classes of rock for Adits, Intakes & Desilting Chambers.
- Rock stabilization & support by means of rock bolts, cable anchors, welded wire mesh, steel fiber reinforced shotcrete (SFERS), Rib installation & backfill Concrete.
- Preparation of daily progress report at site.
- Maintaining the quality of work & the safety of manpower & machineries as per ISO specifications.



➤ **1200MW- Teesta- III Hydroelectric Power Project**

JOB RESPONSIBILITY:

- Land acquisition
- Explosive licensing and Management of entire Project
- Road survey
- Coordination with State Govt.
- EIA study
- Forest clearances
- Survey and Calculations of Construction materials of total project,
- Calculation of muck generation of the project & selection of suitable sites for dumping
- Construction supervision of Concrete Face Rock Fill Dam, Chute Spillway, Diversion Tunnels, Desilting chambers.
- Construction of Cutoff wall for CFRD
- Curtain Grouting along the Cutoff wall
- Rock Stabilization & support by means of rock bolts, cable anchors, welded wire mesh, steel fiber reinforced shotcrete (SFRS), Rib Installation & backfill concrete.
- Construction activities planning
- Local authorities & local people dealing

➤ **800MW - Parbati Stage-II Hydroelectric Power Project**

JOB RESPONSIBILITY:

- Underground excavation in different classes of rock for Adits, Penstocks, Caverns & Pressure shaft.
- Rock stabilization & support by means of rock bolts, rock anchors, welded wire mesh, shotcrete (dry & wet), rib installation & backfill concrete.
- Steel liner erection & concreting in penstock & pressure shaft.
- Contact grouting & pressure relief holes in tunnel.
- Shuttering & reinforcement in tunnel for various structures.
- Excavation by T.B.M for inclined pressure shaft.
- Preparation of daily progress report at site.
- Site billing.
- Maintaining the quality of work & the safety of manpower & machineries as per ISO specifications.

➤ **300MW - Baspa II Hydroelectric Power Project**

JOB RESPONSIBILITY:

- Underground excavation of inclined Pressure Shaft , HRT & Surge Shaft
- Rock stabilization & support by means of rock bolts, welded wire mesh, shotcrete (dry), rib installation & backfill concrete.
- Surveying & complete layout.
- Estimation of construction materials at site.
- Rail line laying, steel liner erection & concreting in inclined pressure shaft
- Invert & overt concreting in HRT.
- Preparation of daily progress report at site.
- Shuttering & reinforcement work in HRT.



➤ **183.2MW- Isimba Hydroelectric Power Project**

JOB RESPONSIBILITY:

- Coordinating various project activities between client and the contractors involved in the project.
- Establishing milestones, dates and events that will mark the progress of the Project.
- Supervision of all construction activities of civil structures, control survey, establishment of permanent survey bench marks by contractor and site investigation of quarry and barrow areas at Project site.
- Check and supervise the contractor's survey related to excavated and final ground surface on completion of excavation prior to commencement of placing of concrete and on completion of placing concrete.
- Certify all invoice submitted by contractor and recommend for payment.
- Monitor and witness material field and laboratory testing works carried out by contractor.
- Carry out claim assessment
- Review and update the Master Project Schedule
- Quality assurance of construction and installation works at the Project site

Educational Qualification

- B. Tech- Civil Engineering from NIT Hamirpur (formerly known as Regional Engineering college).
- MBA-Marketing from Andhra University.

Professional Membership

- Institution of Engineers (India)