



**Subrota Mahato**  
**Manager - (Geology)**  
**Energy Infratech Private Limited**

**Profile**

Masters in Geology with 15+ yrs. of experience, particularly in Engineering Geology, Planning & Execution for Geotechnical Investigations, Collection of Geotechnical field data & their analysis for civil design and tunneling in Himalayan terrain by full face, multi drift and NATM method. Preparation of blasting pattern and optimal usage of explosive in underground excavation for different types of media to minimize blasting damage. Construction activities supervision of Hydropower Projects, analysis of lab test results for feasibility of construction material, evaluation of rock class (Q, RMR, GSI and RSR) for designing of various support systems for underground operations, stability analysis of slope and underground cavern with the help of geotechnical software viz Dips, Swedge, Unwedge, Slide RS2 and Rockplane. Preparation of Pre-feasibility Report (PFR), Detailed Project Report (DPR), Basic Design Report (BDR) and Geological baseline Report (GBR). Have working experience in nearly 30 Hydropower projects. Review of drawing/documents related to Geology with reference to civil design, instrumentation planning and grouting related issues as an owner's engineer in International projects like Karuma HPP (600MW) and Isimba HPP (183MW) in Uganda.

**Professional Summary**

**Energy Infratech Private  
Limited**  
Manager (Geology)

- **Republic of Uganda:** Karuma HPP (600MW), Isimba HPP (183MW), Kiba HPP (PFR)
- **Republic of Tanzania:** Hale HPP (Rehabilitation)
- **Republic of Ethiopia:** Dabus HPP
- **Bhutan:** Kuri-I HEP (1125 MW), Kurichu HEP (60MW)
- **India:** Mawphu HEP (85MW-Meghalaya), Saptadhara HEP (Orissa), Isharda (Rajasthan)

## **SNC-LAVALIN ENG. INDIA PVT. LTD**

Manager - Geology

- **Himachal Pradesh:** Chattru HEP (120MW), Chanju-II HEP (19.8MW), Tandi, Rashil and Bardang HEP
- **Uttarakhand:** Jalam Tanak (128MW), Malari Jalam (120MW), Tehri PSP (1000MW)
- **Arunachal Pradesh:** Etalin (3097MW), Attunli (680MW), Anonpani (22MW), Rho (140MW), Papu valley (48MW), Bana, Saskanrang (45MW), Papu, Pichang (12MW), Phangchung (56 MW), Tharang Warang (36MW), Dinchang (256MW) and Lower Yamne Stage-I & II (75 & 87 MW),
- **Nepal:** Bheri-I & II (620 MW) and Tila-I & II (440MW)

## **SANCO (PATEL ENG.LTD.) GEOLOGIST (RESIDENT)**

- Kameng Hydroelectric Project (660MW)

## **INTEGRITY GEOSCIENCES PVT. LTD. GEOLOGIST**

- **Dibbin HEP (120MW):** Surface Geological mapping and supervision of Geotechnical Investigation work including preparation of report
- **Geological and Structural mapping for Geopetrol International:** Was a member of the team that carried out the Geological and structural mapping in **block AA-ONN-2003/02** in **Changlong** Dist. of **Arunachal Pradesh** under IGPL for **Geopetrol International**.
- **Geotechnical investigation for National Highway Authority of India:** Worked as a Geologist and site-in-charge for Subsoil Investigation work for Construction of proposed road at Belgaum-Goa border section under IGPL for **National Highway Authority of India** in **Maharashtra**.
- **Geotechnical investigation for NTPC:** Worked as a Geologist and site-in-charge for Subsoil Investigation work for Construction of Power House under IGPL for **NTPC** at Badarpur, **New Ddhi**.
- **Geotechnical investigation for RITES:** Worked as Geologist and site-in-charge for Geotechnical Investigation for B.G Line from Jiribam to Tupal in **Manipur** under IGPL for **RITES**.
- **Geotechnical investigation for Tisco:** Worked as Geologist and site-in-charge for Geotechnical Investigation for Railway Siding at Kalinga Nagar under IGPL for **TISCO** in **Orissa**.

## **Professional Highlights**

M.Sc in Geology, 2000, The University of Burdwan.

Software proficiency: **Dips, Swedge, Unwedge, RS2, Slide, Rocplane, etc.**

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