

1. Sr. Geologist

Title of position: Sr. Geologist

Division: Design and Engineering Division

Reports to: Head, Design and Engineering Division

Functions: Responsible for overseeing, reviewing and ensuring the adequacy of all geological investigations and analyses conducted by Consultants/Contractors. Ensure that geological investigations and assessments are effectively integrated into the engineering design of the hydropower project.

Location: Dorjilung Hydropower Project, Thimphu

Responsibilities and Accountabilities:

I. Planning and coordination:

- Plan, coordinate & supervise the implementation of detailed geological and geotechnical investigations required for dams, tunnels, powerhouse caverns and other major structures.
- Coordinate with internal design teams and external stakeholders to ensure geological consideration are fully integrated into the design process.
- Coordinate with construction and contract management teams to ensure geological considerations are addressed during implementation.

II. Technical Review and Design Support

- Provide/Evaluate geological and geotechnical reports submitted by Consultant/Contractor and verify interpretations and recommendations.
- Geological mapping and geological logging of all surface and underground works.
- Validate geological interpretations, mapping and design inputs for critical structures like dams, tunnels and caverns.
- Ensure consistency and reliability of geological data used for numerical modelling and geotechnical design.
- Provide expert geological inputs during design reviews related to tunnel alignment, slope stability, foundations treatment, and support systems etc.
- Recommend and ensure appropriate mitigation measures are incorporated into design documents.

III. Site Supervision and Field Validation

- Conduct site visits to monitor the progress and quality of geological investigations and ensure adherence to approved methods.
- Validate geological logging, sampling and mapping being carried out by Contractors/ Consultants.
- Ensure geological data collected from the field is consistent, reliable and appropriately archived.

IV. Quality Assurance and Compliance

- Ensure that all geological investigation activities comply with national and international geological & engineering standards.
- Oversee the implementation of EHS (Environment, Health & Safety) guidelines related to geological investigations.

V. Team management

- Supervise junior geologist and technical assistants.
- Provide technical guidance and capacity building to the team.

VI. Documentation and Reporting

- Maintain a well-organized repository of all geological and geotechnical records.
- Prepare and submit periodic geological status reports with update on investigations, risks and design implications.
- Ensure all geological reports conform to project documentation standards.
- Contribute to the preparation of contract documents with geological scope, technical specifications and baseline assumptions.
- Coordinate with management to ensure timely decisions and maintain work progress.

Any other/additional tasks assigned by the management of Dorjilung Hydropower Project.

Education Qualification and Experience

- Minimum of Bachelor Degree in Engineering Geology and with work experience of at least 5 years in Hydropower project.