

**DRUK HYDRO ENERGY LIMITED**  
**TERMS OF REFERENCE**  
**FOR**  
**GEOLOGIST**

<b>Job Title:</b>	<b>Geologist</b>
<b>Reports to:</b>	Project Director/EIC
<b>Office:</b>	HPP, DHyE
<b>Function:</b>	To oversee the overall geological and geophysical aspects of the respective project.
<b>Job Summary:</b>	
Has the responsibility for mappers related to geology, geotechnical and geophysical aspects of the HPP.	
<b>Responsibilities and Accountabilities:</b>	
<ul style="list-style-type: none"> <li>▪ Maintain Geotechnical Data in the form of Geological Face Logs/3D Logs of the Tunnels/Surface.</li> <li>▪ Carry out Rock Mass Classification of the tunnels/surface tunnels to provide adequate rock support measures.</li> <li>▪ Preparation of geotechnical appraisal, geotechnical assessment, geological plan, and geological sections wherever necessary in order to adhere to the geological adversaries.</li> <li>▪ Provide geotechnical information on the shear zone, faults, and folds during excavation so that remedial/mitigation measures can be taken up prior to excavation.</li> <li>▪ Monitoring of geotechnical instrumentations reading vis-à-vis excavation sequence so as to evaluate, interpret and suggest a re-evaluation of support measures if required.</li> <li>▪ Monitor excavation sequence, excavation methodology, and effectiveness of installation of support measures.</li> <li>▪ Carry out Geological assessment by probing, core drilling, geophysical investigations, etc. to forecast possible geological adversaries prior to any underground excavation advancement and plan the excavation methodology accordingly.</li> <li>▪ Prepare Geological Cross/Longitudinal Sections of the Project Components on a requirement basis.</li> <li>▪ Carryout/Supervise Water Permeability Test in Dam/Head Works Foundations.</li> <li>▪ Prepare monthly progress Geological Report.</li> <li>▪ Carry out a Geological Assessment of the Settlement above the tunnel which may have an impact during the excavation/construction.</li> <li>▪ Any other work assigned from time to time.</li> </ul>	
<b>Reporting</b>	
<ul style="list-style-type: none"> <li>▪ Report directly to the Engineer-In-Charge and attend regular Progress Review Meetings at the Project level.</li> </ul>	

- Submit monthly Progress Geologist Reports of the construction works carried out by the Contractor and also underscore issues that may require the intervention of the EIC or Project Director.

**Key Performance Measures:**

- Achievement of yearly targets.
- Reduction of geological adversities and surprises through a database of geological information.
- Timely classification of rock mass for expeditious recommendation on excavation sequence, methodology, and support system.
- Proper vibration monitoring system to avoid social issues.
- Any other measures as determined by Management.

**Qualification, Key Skills, and Competencies**

**Qualification:** The candidate for the position should be a graduate of geological engineering/science or equivalence.

**Key skills and Competencies:**

- Must have sound knowledge of a range of sciences and their applications.
- Good computer literacy and the ability to analyze numerical and graphical data.
- Ability to work within a multidisciplinary team of scientists and engineers and good subject knowledge in the project area.
- Excellent time management skills to ensure project deadlines are met.
- Ability to think methodically and manage project's problem-solving skills.
- Excellent verbal and written communication skills, negotiating, supervisory, and leadership skills.
- Respect, integrity, commitment, diversity, stress tolerance, excellence, and building partnerships/teamwork.