

## Civil Engineers (JE/AE/AEE/EE)

<b>Job Title</b>	Civil Engineers
<b>Position Level</b>	Supervisory/Managerial
<b>Reports to</b>	Director, Projects Department
<b>Function</b>	Design and engineering for the preparation of Detailed Project Report (DPR) of the hydropower projects, preparation for pre-construction works and also for the detailed design for the construction of the hydropower projects and ancillary components
<b>Location</b>	CO/Projects & Subsidiaries

<b>Purpose of the Job</b>
<p>To carry out the design and engineering for the preparation of DPR for the upcoming hydropower projects, which includes hydraulic and structural design of the project component, preparation of cost estimation, construction methodology and schedule, preparation of preconstruction works and tender documents for implementation of construction of hydropower projects.</p> <p>Further, detailed design and engineering for the on-going hydropower construction needs to be carried out, with main emphasis on the structural design of powerhouse, anchor blocks and headworks.</p>

<b>Functional Dimensions Contextual Information</b>
<p><b>Duties, Responsibilities and Accountabilities (DRA):</b></p> <ol style="list-style-type: none"><li>1. Performing desktop studies prior to field investigations for planning of hydropower projects.</li><li>2. Planning of various alternatives of layout and optimization of project layout based on topography and geological conditions of the site.</li><li>3. Define scope of work for the topography and geological investigation.</li><li>4. Carry out reviews of the design notes, drawings and specifications of the consultants.</li><li>5. Detailed design and engineering for the construction of the on-going hydropower construction</li><li>6. Prepare construction drawings for the DPR and for the construction of hydropower projects</li><li>7. Closely associate with works of Druk Green Project pertaining to technical and contractual issues as well as monitoring progress and schedules.</li><li>8. Planning and costing for infrastructure works for the development of hydropower projects</li><li>9. Support in preparation of technical specification, BoQs, analysing rates and contract specifications for hydropower studies and construction.</li><li>10. Coordinate and preparation of different tender documents for the project preconstruction activities.</li><li>11. Work in close association with the Director (Projects), Hydropower specialist and other Projects staffs towards achieving the important mandate of Druk Green in Human Resource capacity development to establish strong human resources base in planning, survey</li></ol>

& investigation and detail engineering & design of hydropower projects.	
<b>Internal/External Roles</b>	<p><b>Internal:</b></p> <p>Work closely with all the officers and staffs in Projects Department and Druk Green as a whole.</p> <p><b>External:</b></p> <ul style="list-style-type: none"> <li>• Coordinate with subsidiary companies/monitor on the status of priority works.</li> <li>• Work closely with the relevant RGoB agencies to ensure that the works are executed in compliance with the relevant rules and regulations in practice</li> </ul>
<b>Qualification, Knowledge, Skills, Abilities and Experience</b>	<p><b>Diploma in Civil Engineering:</b> JE/AE: Minimum of 10/15 Years of experience in Hydropower Development related experiences.</p> <p><b>Bachelor's Degree in Civil Engineering:</b> AEE/EE: Minimum of 5/10 Years of experience in Hydropower Development related experiences.</p> <p><b>Knowledge and Skills:</b></p> <ul style="list-style-type: none"> <li>• Good knowledge in detail planning and design of Hydropower projects.</li> <li>• Good knowledge in planning and execution of all project preconstruction activities such as roads and other infrastructure. Planning, scoping, preparation, evaluation and award of tenders.</li> <li>• Planning on geotechnical investigations of underground structures. Organizing and planning skills. Work management and prioritizing skills. Good verbal and written communication skills.</li> <li>• Physically fit as the work requires extensive walking and climbing over the depressions and rugged terrain, exploring the project sites.</li> </ul>

<b>Key Performance Measures</b>
<ol style="list-style-type: none"> <li>1. Successful and timely completion of design and engineering for the hydropower projects</li> <li>2. Review and approval of construction designs and drawings for relevant projects to ensure that the project does not suffer time and cost overrun.</li> <li>3. Reviewing design drawings, schedules and work progress of the ongoing projects</li> </ol>