

## **1. Chief Engineer (Hydropower)**

**Title of Position:** Chief Engineer (Hydropower)

**Division:** Design and Engineering Division

**Reports to:** Head, Design and Engineering Division

**Function:** Responsible for overall planning, coordination, execution and monitoring of hydropower-specific civil works including intake structures, head race tunnel, powerhouse and other associated hydraulic and structural components.

**Location:** Dorjilung Hydropower Project, Thimphu

### **Responsibilities and Accountabilities**

#### **I. Planning and Coordination**

- Develop detailed planning of all hydropower-related civil components in coordination with design consultant and internal divisions.
- Coordinate with the different divisions to ensure smooth integration of project components.
- Coordination between management and contractor on the issues related to the construction of different components of hydropower.
- Forecast potential project risks and advise mitigation strategies accordingly.

#### **II. Project Execution and Supervision**

- Overall supervision and monitoring of the construction activities of major hydropower civil components.
- Review and approve project execution schedules and ensure timely mobilization of resources.
- Monitor the progress of the construction works to meet the specific datelines, take actions and integrate the remedial measures to deal with the results of the delayed activities.
- Ensure that the construction works are carried out within the schedule and within the approved budget.
- Ensure that the construction works are carried out as per the approved construction drawings, standard norms and generally accepted procedure.

#### **III. Quality Assurance**

- Develop and implement robust quality assurance/ quality control programs.

- Ensure that construction meets the technical standards, contractual obligations and EHS (Environment, Health & Safety) guidelines.

#### **IV. Design & Technical Support**

- Provide expert guidance on design issues and approve modifications where necessary.
- Verify geotechnical, hydraulic and structural aspects of designs prior to execution.

#### **V. Contract Management**

- Participate in the tendering, bid evaluation, negotiation and award of contracts for hydropower works.
- Monitor contract implementation and resolve disputes in consultation with legal and procurement team.
- Evaluate contractor's performance and provide feedback on improvements to be done on the construction activities.
- Approve and process RA bills/ Interim Payment Certificates and verify measurement books.

#### **VI. Team Management**

- Interact with co-workers and educate them on construction quality standards, measures and practices.

#### **VII. Documentation**

- Supervise the preparation and maintenance of comprehensive project documentation, including progress reports, construction schedules, safety protocols and environment management.
- Ensure accurate and up-to-date documentation of all inspections, testing and approvals to verify compliance with relevant standards and regulations.

#### **VIII. Reporting**

- Prepare Consolidated Progress Report of the construction activities on daily, weekly or monthly, quarterly and yearly basis.
- Highlight challenges and proposed mitigation strategies.
- 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**

- Minimum of Bachelor Degree in Civil Engineering.