

Terms of Reference for Engineer (Plumbing)

Job Title	Engineer (Plumbing)
Employment Type	Contract (2 Years)
Reports to	Gyalsung Project Officers
Location	NS-Project Sites

Background

His Majesty the King announced the institution of the sacred Gyalsung Project on 17th December 2019 during the 112th National Day. The project is currently under construction in the five Gyalsung Academy sites namely, Jamtsholing (Samtse), Tareythang (Sarpang), Pemathang (Samdrup Jongkhar), Khotokha (Wangdue Phodrang) and Bondeyma (Mongar). The objective of Gyalsung is to provide direction and encourage our youth to be strong, independent thinkers, capable of serving the country. The five Gyalsung Academies, once commissioned, will provide basic military training and skill development courses in agriculture sciences, entrepreneurship, computer and coding, and health sciences, etc. The training will make our young people understand what they want to do, and prepare them to achieve their dreams so that they are ultimately able to contribute to the nation-building process. It will bring the youth of Bhutan together in a shared experience and act as a rite of passage- irrespective of their economic or regional backgrounds.

1. Duties and Responsibilities

Site Plumbing Engineer is responsible for carrying out technical, organizational and supervisory role in plumbing construction projects.

- 1.1 Should be able to work independently on his assignment and should be comfortable in performing laborious work.
- 1.2 Shall support and assist the Gyalsung Project Officer (GPO) and the Project Manager (PM) in management and supervision of water supply and sanitation construction activities of the project;
- 1.3 Should be able read, expertly interpret construction, detail drawings and specifications;
- 1.4 Measurement and recording of the completed works at site.
- 1.5 Measurement of completed works for Bill payment.
- 1.6 Any other maintenance works thereafter under Gyalsung Infra project.
- 1.7 Be responsible for estimation, implementation, supervision, testing and commissioning of water supply and sanitation systems;
- 1.8 Water supply system includes intake, transmission, water treatment plant, storage facilities, distribution and fire protection network;
- 1.9 Sanitation system includes storm-water, waste-water (sanitary sewer and wastewater treatment plant) and solid waste facilities;
- 1.10 Record and maintain proper documentation of construction activities;
- 1.11 Work under close consultation with the Design Monitoring and Quality Assurance Department (DMQAD) and more so with the Water and Sanitation Design Team and MEP Team;
- 1.12 Support the Procurement Team wherever required;
- 1.13 Perform any other tasks assigned by the Project Management Committee;
- 1.14 Adhere to the Guiding Principles and Rules for Gyalsung Infra Project Team at all times.

2. Key Competencies Required
2.1 Should be able to have good estimation and measuring aptitude; 2.2 Should possess very good attitude; 2.3 Have keen interest to work at site; 2.4 Must demonstrate a strong zeal to be part of the Gyalsung Infra team; 2.5 Should have multitasking abilities 2.6 Must possess superior attention to details. 2.7 With high level of integrity, honesty and professionalism; 2.8 Skill in both, very good in verbal and written communication. 2.9 Must be interested to share knowledge and develop others 2.10 Knowledge of the tools, equipment, and materials common to the plumbing trade. 2.11 Knowledge of applicable plumbing codes. 2.12 Knowledge of supervisory principles, practices, and techniques. 2.13 Knowledge of the mechanics of operation of equipment such as pumps, boilers, heaters, and other plumbing components. 2.14 Skill in the installation, repair, and maintenance of all types of plumbing systems. 2.15 Skill in estimating time and materials common to the trade. 2.16 Supervises, assigns, and coordinates the work activities of subordinates. 2.17 Plans and develops work schedules, equipment usage schedules, priority of plumbing expenditures, and procedures for plumbing systems maintenance. 2.18 Maintains time and submits reports as required. 2.19 Trains or informs employees of new work methods or procedures, changes in safety regulations, work policies, and plumbing codes. 2.20 Ensures budgetary guidelines are met; prioritizes expenditures to stay within budget and assists in the preparation of capital and operations budgets. 2.21 Enforces safety regulations, and adheres to proper codes and standards.
3. Quality Assurance at Work Site
3.1 Execution of plumbing works at site as per the design drawing. 3.2 Daily supervision at site. 3.3 Ensure smooth progress of the work. 3.4 Maintenance of quality of materials. 3.5 Ensure presence of adequate machineries at site. 3.6 Supervision and reporting of work progress to the project manager.
4. Eligibility Criteria
4.1 Should have minimum qualification of Bachelors Degree/Diploma in Civil Engineeri 4.2 Should have minimum work experience of 4 years in the field of plumbing and /or mechanical pipe fitting for Degree/minimum 8 years for Diploma;
5. Position Level and Remuneration
4.1 The position level and remuneration shall be calculated on the basis of relevant qualification, experience and other skills.

