Terms of Reference

1. Introduction

Post: Lead Engineer (Power Generation)

Type: Contract (1 Year)

Note: The company may decide to extend the contract after 1 year based on performance.

Department: Operations Services Department

2. Position Overview

The Lead Engineer, Power Generation is responsible for overseeing the design, development, operation, and maintenance of power generation facilities of Fenaka. This leadership role involves managing engineering teams in the department, ensuring regulatory compliance, and implementing innovative and sustainable solutions to ensure efficient and reliable power production.

3. Reporting Relationship and Communication

Lead Engineer will report to Director of the department daily and regular progress meetings will be scheduled to ensure effective communication and collaboration throughout the duration of the contract unless advised otherwise.

4. Key Responsibilities

Leadership and Management:

- Lead and mentor a team of engineers, technicians, and support staff in relevant departments and branches.
- Oversee all engineering activities within the power generation department.

- Develop departmental goals, strategies, and performance metrics.

System Design and Development:

- Supervise the design and development of power generation systems and components.
- Conduct feasibility studies and site assessments for new power plants.
- Utilize advanced modeling and simulation software to optimize plant design and performance.

Project Management:

- Manage power generation projects from inception to completion.
- Coordinate with contractors, suppliers, and other stakeholders to ensure timely project completion.
- Monitor project budgets, schedules, and quality control to ensure projects are completed within scope and budget.

Operations and Maintenance:

- Oversee the operation of power generation facilities to ensure they operate efficiently and reliably.
- Develop and implement maintenance schedules to ensure optimal performance and longevity of equipment.
- Diagnose and troubleshoot complex operational issues and implement necessary repairs and improvements.

Regulatory Compliance and Safety:

- Ensure all power generation activities comply with local, state, and federal regulations.
- Develop and enforce safety protocols to protect workers and the public.
- Prepare and submit regulatory documentation and reports.

Performance Monitoring and Optimization:

- Monitor the performance of power generation systems and identify areas for improvement.
- Implement efficiency improvements and system upgrades to enhance output and reduce costs.
- Analyze data from sensors and control systems to optimize plant operations.

Environmental Impact and Sustainability:

- Assess and mitigate the environmental impact of power generation activities.
- Promote the use of renewable energy sources and implement sustainable practices.
- Ensure compliance with environmental regulations and standards.

Technical Support and Training:

- Provide technical support and guidance to plant operators and maintenance staff.
- Organize training programs to enhance the skills and knowledge of personnel.
- Develop and update technical manuals and standard operating procedures.

Innovation and Research:

- Stay updated with advancements in power generation technologies.
- Conduct research to develop new methods and technologies for power generation.
- Implement innovative solutions to improve plant efficiency, reliability, and sustainability.

5. Education and Experience

- A Bachelors' Degree or equivalent professional certification (MNQF level 7) in Electrical Engineering, Mechanical Engineering, or a related field with 10 years of professional work experience in power generation, with a strong background in the

design, operation, and maintenance of power plants. Proven leadership experience in an engineering role.

6. Skills and Competencies

- **Technical Skills:** Proficiency in engineering design software (such as AutoCAD, SolidWorks), simulation tools, and control systems. Strong understanding of power generation technologies and equipment.
- **Analytical Skills:** Strong analytical and problem-solving abilities. Ability to analyze complex data and make informed decisions.
- **Communication Skills:** Excellent verbal and written communication skills for reporting, presentations, and stakeholder interactions**.**
- **Project Management:** Proven ability to manage multiple projects, coordinate with multidisciplinary teams, and meet project deadlines.