Internship Report

College of Engineering
Department of Electromechanical Engineering

Natnael Worku Experience at SATA Consultant PLC

AASTU

Name
ID

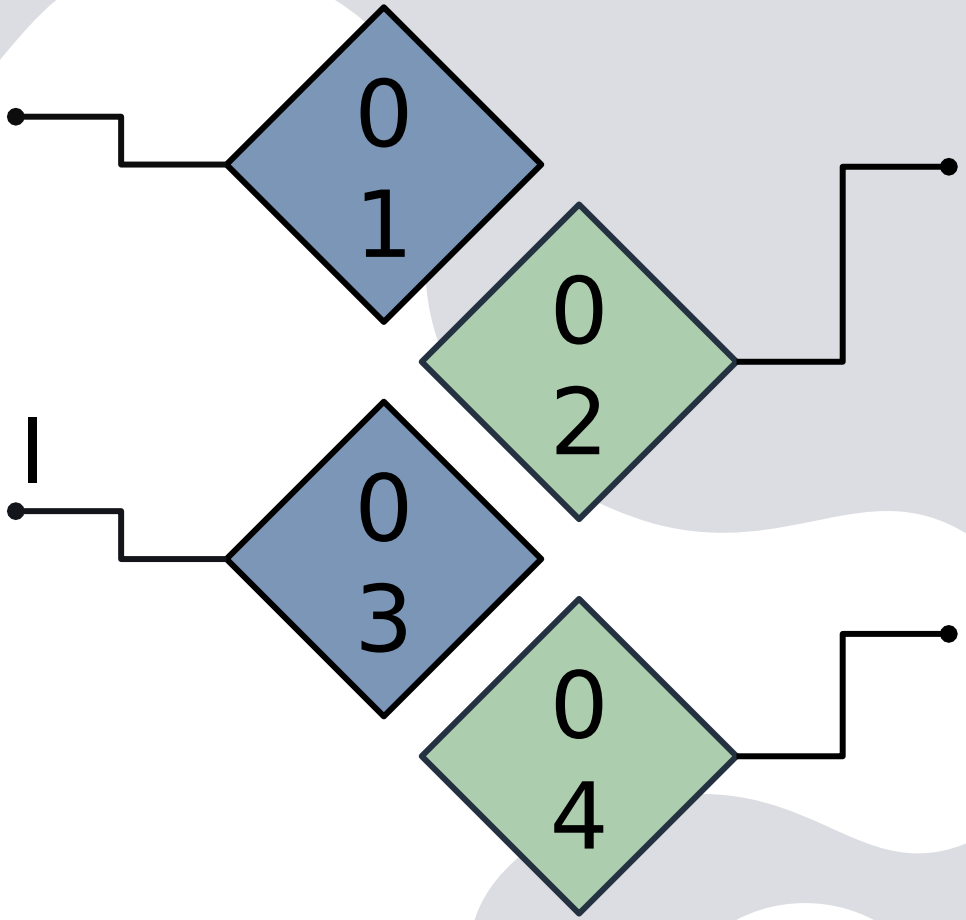
Natnael Worku
ETS104/13

SATA CONSULTANT PLC
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Advisor: Ms. Alemshet Ayele
ADDIS ABEBA, ETHIOPIA

October 02, 2024

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Historical Background of SATA

They were founded in 2022, focusing on sustainable environmental practices and consultancy.

They are developing Environmental and Social Management Plans (ESMPs) and Environmental Impact Assessments (ESIAs).



Mission and Vision

SATA CONSULTANT PLC
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Mission

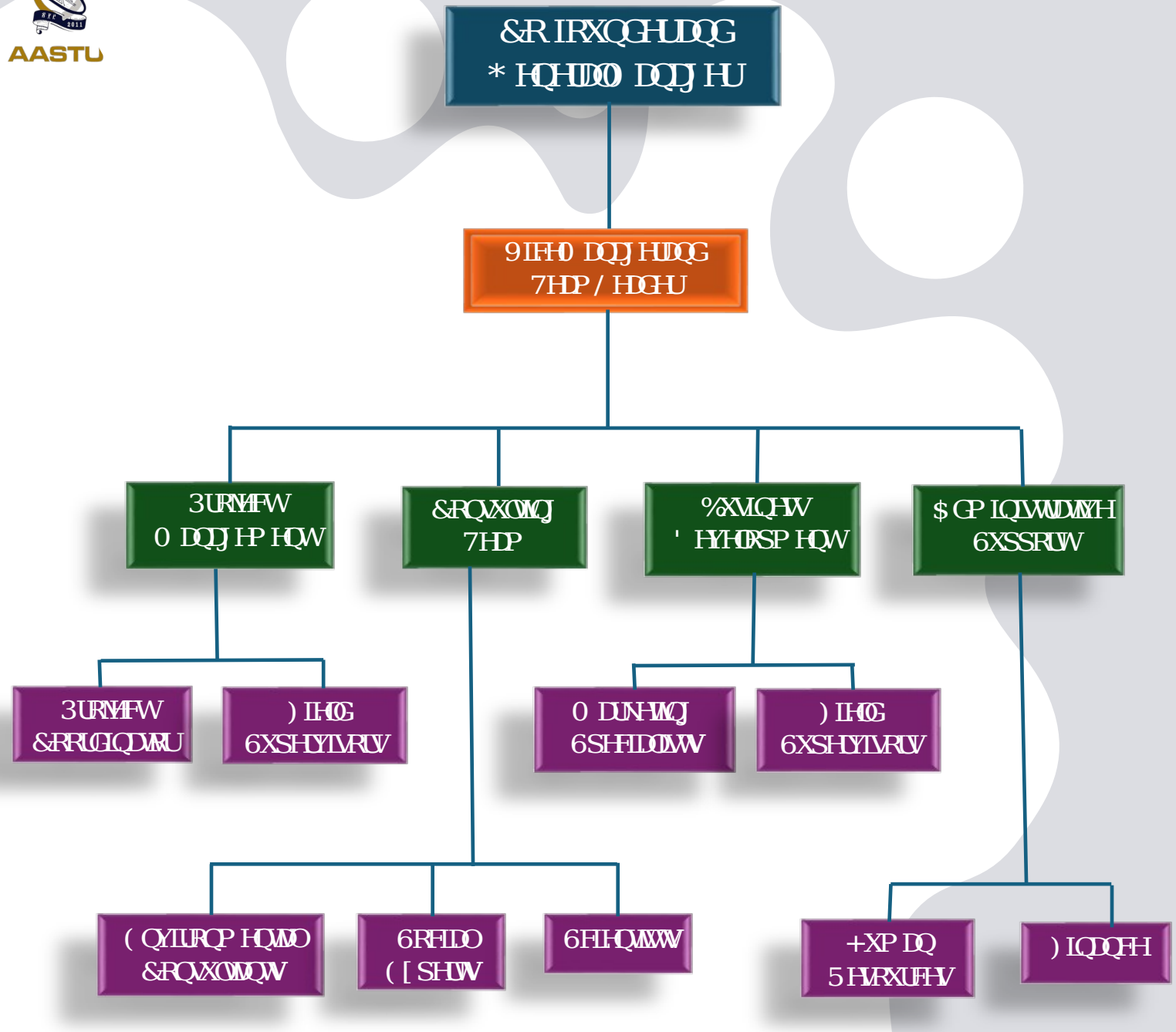
- Commitment to Sustainability
- Collaboration
- Innovation
- Excellence
- Client-Centric Approach

Vision

SATA Consultant PLC's vision is to be the leading environmental consulting firm that drives sustainable development and environmental stewardship globally.

The company aims to create a future where human progress and environmental preservation go hand in hand, ensuring a healthy planet for generations to come. SATA Consultant Plc strives to be the trusted partner for organizations seeking to balance their economic goals with environmental responsibility.

Company Structure



Internship Objectives and Goals

Main Goals

Develop comprehensive ESMPs and ESIAs tailored to various clients.





Personal Development Goals

Improve skills in environmental research, data analysis, and technical writing

Gain a deeper understanding of environmental regulations, policies, and sustainability practices

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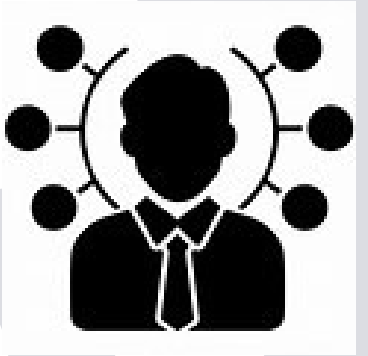
Technical Skills

- **Research & Data Analysis:** Gathering data from site visits, interviews, and document reviews.
- **Technical Writing:** Drafting and editing ESMPs and ESIAs with clear, concise reports.



Professional Skills

- **Collaboration & Teamwork:** Working alongside experienced consultants and contributing to projects.
- **Problem-solving & Critical Thinking:** Analyzing complex environmental challenges and proposing practical solutions.



ESMP for Gezahegn Eshetu Zeleke Multi-purpose Vehicles and Parts Maintenance)

Project Overview

- Prepared an ESMP for a vehicle maintenance company to meet environmental regulations.

Methodology

- Conducted two site visits for data collection and observation.
- Used screening and scoping techniques to identify significant environmental impacts.

Key Impacts & Mitigation Measures

- Identified risks like air pollution, water contamination, and noise pollution.
- Proposed waste management strategies, wastewater treatment plans, and air quality monitoring.

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Speed:6.7km/h
N 9.006870°, E 38.834142°
258° W
Aug 20, 2024 at 2:23:12 PM


Altitude:2352.5meter
Speed:2.2km/h
N 9.006762°, E 38.834348°
92° E
Aug 20, 2024 at 2:28:09 PM

ESMP for Tewodros Marble Manufacturi Plant

Project Background

Prepared an ESMP for a leading marble manufacturing plant.

Objectives

Identify potential environmental impacts and ensure sustainable operations.

Impact Assessment

Air pollution, water pollution, noise, and waste generation were key areas.

Mitigation Measures

Wastewater treatment systems, pollution control equipment, and community engagement strategies.





ESMP for Bomber Plastic PLC

Project Overview

Assisted in creating an ESMP for a plastic manufacturing company specializing in waste recycling.

Environmental Concerns

Waste management, air pollution, and water contamination.

Mitigation Strategies

Implemented waste segregation, recycling protocols, and air quality monitoring.

Outcome

Enhanced sustainable production processes and ensure regulatory compliance.







Data Collection and Analysis Process

Key Activities

Engaged in interviews with stakeholders and reviewed existing documents.

Conducted detailed site visits to understand the operational environment.



Mitigation Strategies

Analyzed data to identify trends, potential risks, and areas for improvement.



Application

Used findings to develop actionable mitigation measures and enhance environmental management



Overall Project Preparation Guideline

Introduction	Methodology	Administrative, legal, and Policy requirements	Project description
Baseline information	Potential environmental and social impact identification Analysis	Mitigation measurement	Environmental and social impact management plan
	Environmental Monitoring/Audit Program	Conclusion and Recommendation	



Implementation Planning

Developing the Plan

Translated mitigation measures into step-by-step actionable plans.

Components of Planning

Created timelines, defined responsibilities, and allocated budgets.

Monitoring & Evaluation

Established a system to track progress, measure the effectiveness of mitigation, and adjust strategies as needed.



Challenges Faced During the Internship

Major Challenges

- Navigating complex environmental regulations and standards
- Adapting to diverse project scopes with varying client expectations.



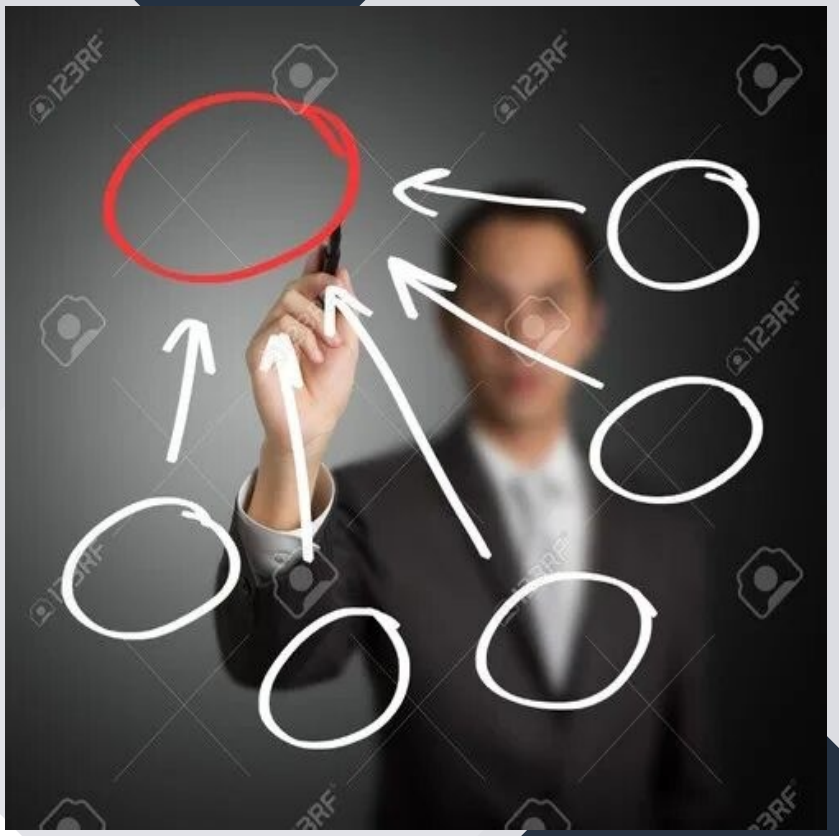
Learning Opportunities

- Improved problem-solving skills by addressing unforeseen issues.
- Developed resilience and adaptability in a fast-paced, dynamic environment



Conclusion

- The experience at SATA Consultant PLC provided a comprehensive understanding of environmental consulting
- Gained confidence and practical skills essential for a career in sustainable development



Recommendation

- Expand on Project Details
- Include more Quantitative Data
- Focus on Skills Developed
- Strengthen the Conclusion:



Thank you