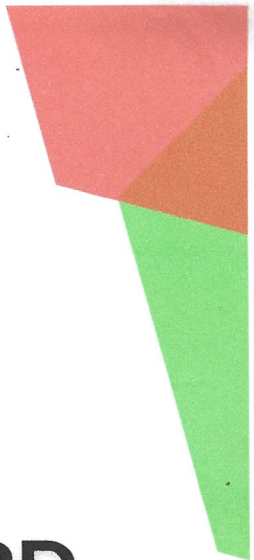


PROJECT SUMMARY



MATERIAL LAY-DOWN YARD



**COMPANY NAME:
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**PREPARED BY:
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DESCRIPTION



The Material Lay-down Yard project, located at First Street, Garden of Eden, East Bank Demerara, will occupy 2 acres of land, encompassing the necessary spatial and temporal boundaries for construction, operation, and closure phases. The site will be developed for the storage and distribution of key building materials, including galvanized pipes, zinc sheets, tiles, cement mixers, ceiling panels, etc. The layout will feature storage facilities, access roads, and administrative buildings, allowing for the efficient movement of materials and vehicles, ensuring quick and easy access for construction teams.

In terms of environmental considerations, the project will identify and monitor nearby water bodies to assess any potential impacts. Proper intake and discharge points for water resources will be established, and any discharge will be managed in compliance with environmental guidelines to prevent harm to the ecosystem.

The current land use includes agricultural activities, with part of the site used for farming. Additionally, there is a chicken farm located to the right of the project area. Both the farming activities and the chicken farm will be taken into account during the development process to minimize disruption to these operations. Any intake and discharge structures required for the project will be strategically placed to reduce environmental disturbance, ensuring that the project integrates smoothly into the surrounding area.

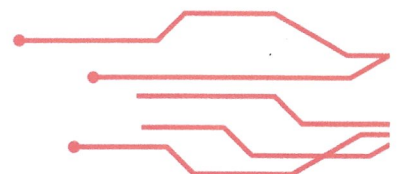


Project Design

DEVELOPMENT STAGES

CONSTRUCTION PHASE

- **SITE PREPARATION:** Clearing and levelling of the site to establish the layout for the material lay-down yard. Necessary groundwork will be done to ensure stable foundation for storage areas.
- **INFRASTRUCTURE DEVELOPMENT:** Construction of essential structures, including storage facilities, access roads, drainage systems, and security installations.
- **UTILITY SETUP:** Installation of temporary utilities like water supply tanks, power generators, and communication systems to support construction activities.
- **INSTALLATION OF STORAGE FACILITIES:** Erection of designated areas for storing building materials, cement mixers, aggregates, and other equipment. Storage solutions should cater to both rental and sales operations, with easy access for loading/unloading.

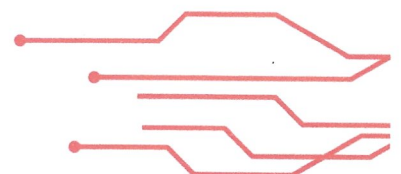


Project Design

DEVELOPMENT STAGES

OPERATION PHASE

- **MATERIAL HANDLING AND STORAGE:** Efficient storage and handling of materials such as cement mixers, aggregates, and other building supplies. This includes regular inventory management, ensuring safe storage conditions, and timely distribution.
- **DAILY OPERATIONS:** The facility will facilitate the movement of building materials, equipment rentals, and sales. This includes record-keeping of transactions, deliveries, and maintenance of equipment.
- **CONTINUOUS MONITORING AND MAINTENANCE:** Ongoing inspection of machinery, equipment, and infrastructure to ensure everything remains in optimal working condition. Regular maintenance of cement mixers and other heavy equipment is crucial to extending their lifecycle.

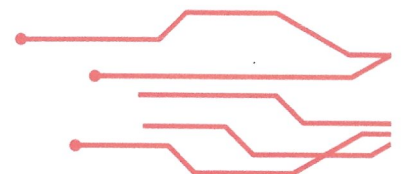


Project Design

DEVELOPMENT STAGES

PRODUCTION PHASE

- **RAW MATERIAL MANAGEMENT:** Aggregates, loam and other materials will be stored in sections, sorted according to type and purpose.
- **EQUIPMENT HANDLING:** Cement mixers and other equipment will be rented or sold based on demand, with a focus on easy accessibility for clients. Proper protocols will be established for the renting process, including checks and routine servicing.
- **DUST SUPPRESSION AND SAFETY:** Effective water treatment and dust suppression systems will be utilized to maintain health and safety standards on-site, especially for employees working with aggregates.

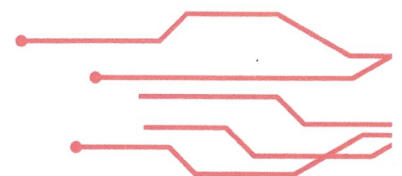


Project Design

DEVELOPMENT STAGES

CLOSURE PHASE

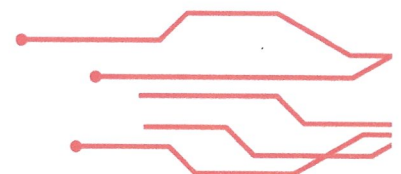
- **DECOMMISSIONING**: As the project reaches its end, infrastructure will be systematically dismantled. Machinery and storage units will either be repurposed for future projects or remain on-site for ongoing or future use, depending on the needs of the business. No significant removal of materials or equipment will take place, allowing the site to be preserved for potential future operations.
- **SITE RESTORATION**: The site will undergo rehabilitation, focusing on ensuring the area meets environmental standards. However, no major infrastructure or materials will be removed from the site; instead, efforts will be made to stabilize the environment and leave the land in a sustainable, functional state for future purposes.



Project Design

SOURCE OF UTILITY SERVICES

- **WATER SUPPLY & TREATMENT:** Temporary water tanks and portable water treatment systems will be used for supplying water. These tanks will be refilled by local water suppliers, and treatment systems will ensure the water meets sanitation and dust suppression requirements.
- **ENERGY AND ELECTRICITY:** Diesel generators will be the primary energy source for powering machinery and equipment needed for stone handling and distribution.



Project Design

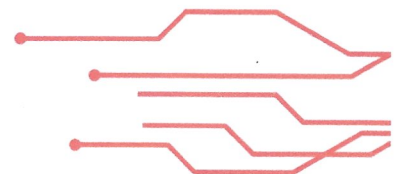
WASTE MANAGEMENT

TYPES OF WASTE

- **CONSTRUCTION WASTE:** Debris, scrap metals, and unused timber from site preparation and building activities.
- **OPEARTIONAL WASTE:** Packaging materials and general waste from daily operations.

WASTE DISPOSAL/TREATMENT METHODS

- **RECYCLING & REUSE:** Metal scrap, wood, and plastics will be recycled or reused wherever possible.
- **GENERAL WASTE DISPOSAL:** Non-recyclable waste will be compacted and disposed of at authorized landfills.



Project SIZE

The Material Lay-down Yard project involves a significant capital investment of approximately 571 million GYD, allocated for various development stages, including construction, operational setup, and infrastructure establishment. This investment will cover the procurement of machinery, equipment, and materials essential for storing and distributing building materials like galvanized pipes, zinc sheets, tiles, cement mixers, and ceiling panels. It will also support the implementation of environmental mitigation measures and regulatory compliance efforts. The project is planned to span 10 years.

An estimated 50 employees will be engaged throughout the project's lifecycle, from construction to operation and eventual closure. These roles will include truck drivers, equipment operators, administrative staff, and maintenance personnel to ensure the efficient running of the yard.

Production and distribution rates will be determined by operational capacity and market demand for building materials. The project will aim to achieve sustainable output levels that meet industry standards, optimizing resource use and profitability. Regular monitoring and adjustments will be conducted to align with market dynamics, ensuring the project's long-term success and viability.



Non-Technical Explanation

The Material Lay-down Yard, spearheaded by SIE-One Knock, is designed to be a central hub where we organize, store, and manage various building materials required for construction. Picture it as a specialized warehouse, but instead of typical items, we're housing essential construction materials such as cement mixers, aggregates, sand, tiles, zinc sheets, galvanized pipes and other foundational supplies needed for infrastructure projects like houses, roads, and bridges.

The primary aim of this yard is to make it incredibly convenient for contractors, builders, and construction teams to access these materials as efficiently as possible. We're setting up a system where everything is neatly categorized, making it easy for trucks to load up on materials and quickly head to their construction sites. By streamlining the process and having all necessary building supplies in one place, we're not only speeding up construction but also providing a reliable resource for the local community to support ongoing development projects.

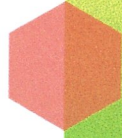
Additionally, while the focus is on making construction easier and more accessible, we are equally committed to responsible practices. The yard will be operated with sustainability in mind, ensuring that the handling and storage of materials do not negatively impact the environment. We will adopt eco-friendly measures to manage waste and prevent harm to surrounding land and water sources. Through this, we're not just improving access to building materials—we're contributing to a greener, more sustainable future for our community and beyond.



Duration Of Project

- **CONSTRUCTION PHASE:** The construction phase of the project is expected to last for a period of 2 months starting on December 1st, 2024. During this phase, initial groundwork, infrastructure development, and installation of storage facilities will take place to prepare for operational activities.
- **OPERATION PHASE:** Following the construction phase, the lay-down yard will enter its operational phase, projected to span 10 years. This phase will see the facility fully operational, with regular material storage, handling, and distribution activities taking place.
- **CLOSURE PHASE:** During the closure phase of the project, no materials or infrastructure will be removed from the site. Instead, efforts will focus on site restoration and environmental remediation to ensure the responsible closure of the facility, maintaining the condition of the land for future use.





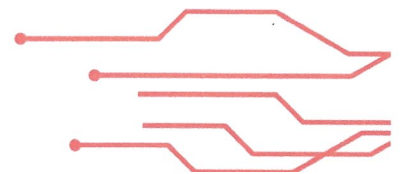
Potential Effects

- **NATURAL RESOURCES**: The project will not negatively impact natural resources like forests, wildlife habitats, or biodiversity, and will not alter landscape features in areas with significant natural reserves, promoting environmental conservation and sustainability.
- **LAND**: The project will use sustainable practices to minimize adverse effects on the land, including careful soil management, precision excavation, erosion control, and responsible land clearing. These measures aim to preserve local habitats, maintain ecological balance, and leave a positive legacy for the surrounding environment, demonstrating the project's commitment to environmental stewardship.
- **AIR**: The construction phase will involve measures to address air quality concerns, including strategically installing dust nets and using low-emission equipment and vehicles. These proactive steps aim to protect air quality and promote worker health and well-being.
- **WATER**: The project aims to protect water resources during construction and operation, implementing comprehensive measures to prevent potential effects like sediment runoff, chemical spills, and wastewater discharges, ensuring sustainable management for the environment and community.



Proposed plans to mitigate environmental impacts

- **EROSION & SEDIMENT CONTROL:** Implement comprehensive erosion control measures such as the installation of silt fences, erosion blankets, and sediment traps to minimize soil erosion and sediment runoff during construction activities. Regular monitoring and maintenance of these measures will be conducted to ensure their effectiveness.
- **DUST SUPPRESSION:** Install dust suppression measures, including the use of dust nets and water spraying systems, to minimize airborne dust and particulate matter emissions during construction activities. Regular watering of access roads and work areas will also be conducted to suppress dust generation.
- **WATER MANAGEMENT:** Implement a comprehensive waste management plan to minimize the generation of construction waste and ensure proper disposal of all waste materials. This will include recycling and reusing materials where possible and disposing of non-recyclable waste in accordance with local regulations.



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