



PROJECT SUMMARY
Precast Concrete Drains
Manufacturing



Introduction

GUYCRETE is a local registered company owned by patriotic Guyanese citizens, who are passionate about the development of Guyana. The Company is involved in the manufacturing of Precast Concrete Utility Poles for over eight years. The poles are used worldwide as the best economic, environmental and financial solution to electrical, telephone and internet providers.

Guycrete Inc. has launched and is ready to introduce the implementation of precast concrete drains as a sustainable and efficient solution for drainage systems in various urban and rural environments. This proposal outlines the benefits of precast concrete drains and highlights their advantages over traditional drainage methods.

SITE DESCRIPTION

The fabrication of the drains is done under a building with concrete floor while storage of materials is done in a different area of the said building. Storage of the finished concrete drains is done in an open area to allow for curing and the eventual upliftment of the product.

PROJECT DESCRIPTION

The proposed project involves the production of Pre-Cast Concrete Drains in various sizes which will be used in both residential and commercial infrastructure development country wide.

Materials to be used in production process

- ½” Stone
- Sand
- Cement
- Steel
- PVC pressure pipes

Chemicals

For the intended operation, the following chemicals will be stored on the site: -

- Glenium (concrete accelerator)
- Diesel & Gasoline (for small engines)
- Vegetable Oil (used as a release agent for the moulds)
- Curing Agent

Production Process

A steel rebar cage is tied and placed within the mould. The concrete mixture is batched and mixed via a ransom and upon thorough mixing, it is then poured into drain moulds of various sizes.

The concrete is set in the moulds for the required hardening period and then released. The product is then sprayed with an agent to help in the curing process.

The product is then stamped with the date of manufacture and then placed in the storage are of the eventual delivery to the customer.

Garbage Disposal

Skip bins are brought to the site periodically for disposal of other material that may accumulate over time e.g., cement bags, slings, excess hardened bits of cement etc.

