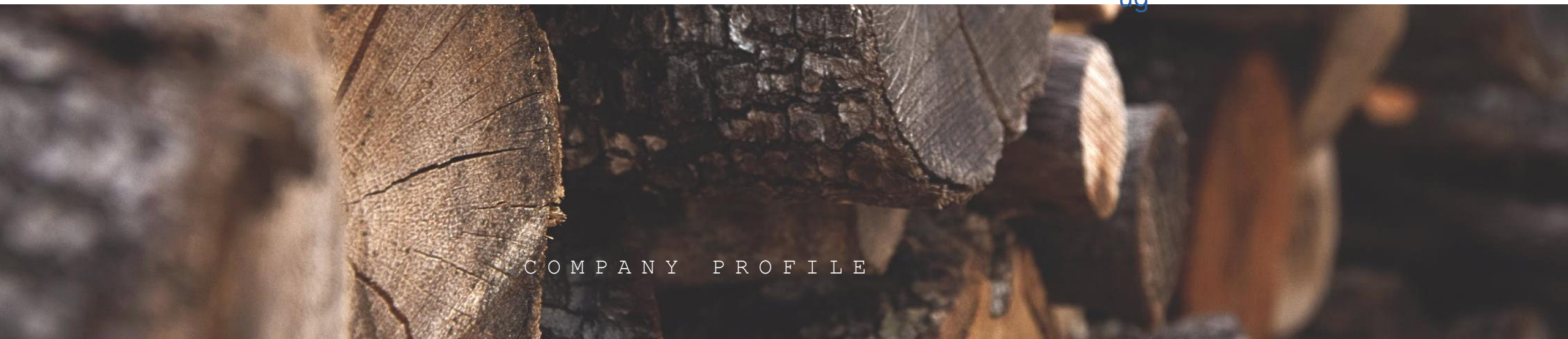
ROKE WOOD

rokewood@rokeinvestment.co.ug



COMPANY PROFILE

rokewood@rokeinvestment.co.ug

ROKE WOOD

For treatment and seasoning of all types of wood and timber

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Introduction

ROKE Investment International Ltd (ROKE) is a limited liability company incorporated in Uganda.

Starting in January 2015, ROKE began timber and wooden pole treatment and seasoning as a core business.

Trading as Rokewood, the treatment factory is conveniently located at the Kampala Industrial Business Park, Namanve.

With a focus on continued research and development of the best ways to treat and preserve wood products, we use vacuum pressure impregnation technology in a cylinder.

This leads to full cell impregnation, giving a net retention of at least 20kg/cubic meter.

The poles are treated to UNBS specifications, using CCA (Copper, Chrome, and Arsenic) otherwise known as Tanalith Oxide.

Our services include treatment of wooden poles, fencing poles and timber of all sizes and lengths.

ROKEWOOD

Quality certifications/permits, specifications and manuals

Our wood poles treatment complies with national, regional and International statutory bodies' specifications and standard requirements such as:

- International Organization for standardization (ISO)
- East African Standard (EAC)
- Uganda National Bureau of Standards (UNBS).
- Uganda Rural Electrification Agency (REA) Wooden Pole Treatment, Transportation, Handling and Erection Manual

ROKE implements and maintains a quality management system to ensure quality of all production processes and products, and is a holder of the following certification for treatment, conservation and preservation of wood.;

- ISO to Environmental Management System **14001:2015**
- ISO to Quality Management System **9001:2015**

ROKE is also certified to use the **Uganda Certification Standard Mark** by the Uganda National Bureau of Standards (UNBS) which periodically carries out product sample testing, equipment calibration, and audits to ensure that quality standards are maintained.

The production plan emphasizes quality on product specifications, production methods, establishing controls, developing checklists, and taking legal, regulatory and statutory requirements into consideration.

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Pressure Impregnation Cylinder at Rokewood, Namanve

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TEAM STRUCTURE

Team Structure

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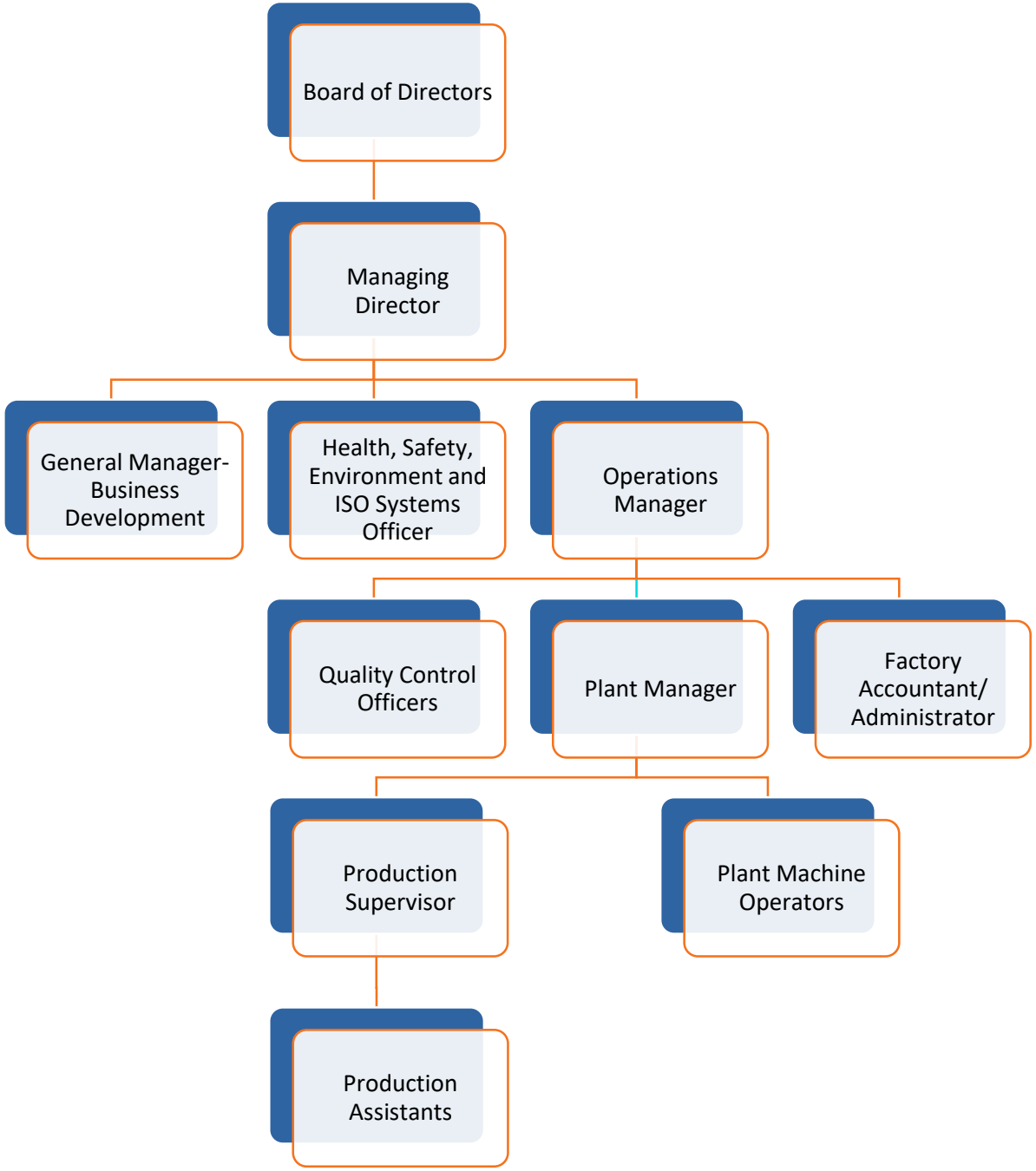

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RAW MATERIALS

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Raw Materials

a) Eucalyptus wood poles

- Eucalyptus poles are classified as hardwood and can be treated with a preservative to prolong their useful life after installation
- We use eucalyptus species especially eucalyptus grandis and Saligna which are ten years and above.
- Our poles are from mature and well managed eucalyptus plantations in various parts of Uganda, thereby supporting local tree farmers. The poles come in lengths of 14M, 12M, 10M and 9M.

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Raw Materials

b) Copper Chrome Arsenate (CCA)

- CCA is water-borne preservative known by many trade names (including tanalith oxide).
- CCA is the world's most widely used wood preservative manufactured to national and international standards.
- CCA is recognizable for the greenish tint it imparts to the treated wood.
- Chromium (38-45%) acts as a chemical fixing agent it helps the other chemicals to fix in the wood and prevents chemical from leaching out of wood.
- Copper (23-25%) acts primarily to protect the wood against decay fungi and bacteria.
- Arsenic (30-37%) is the main insecticidal component of CCA, providing protection from wood attacking insects including termites and marine borers.
- Arsenic also improves the weather-resistance of wood after treatment.

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Timber being loaded into chemical impregnation cylinder

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Products

Electric poles

Telecom poles

Fencing poles

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TESTING

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Pole quality testing

a) Pre-treatment tests

- These involve inspection & selection of raw material (raw poles) according to REA specifications/manual and entail sizing, & inspection of dried poles prior to treatment to ensure quality of the final product. During this process, poles with prohibited defects (see next slide) are rejected. We make it a point to check the moisture content, ensuring that the selected product is within a 25-28% range and check for cross breaks. (cracks across poles not exceeding 1.5mm)
- The product is further inspected for; decay/rot, hollow butts or tops, marine borer damage, open or plugged holes, big knots
  and bark pockets

Preparing timber for seasoning in the Rokewood Kiln

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Pole quality testing

b) Post treatment tests

- Involve tests carried out after the poles have been treated to check whether they conform to standards and these include;
    - Chemical penetration test (minimum is 20mm)
    - Chemical retention test (minimum is 20kg/m3)
    - Mechanical tests are basically conducted to test both structural and mechanical strengths of treated poles prior to use. These include cantilever & midpoint tests

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FACILITIES

ROKEWOOD

Safety, Health and Environment

Safety precautions taken in handling of poles at site

a) Personal Protective Equipment (PPE) for both workers and visitors; Personal Protective Equipment (PPE) for both workers and visitors: Amongst several benefits, ROKE emphasizes the use of PPE to offer extra protection in the event of an accident. If employees/ visitors are equipped with appropriate safety measures, inevitably, there will be no injuries; mitigation of occupational illness; Staying on the right side of the law; Retention of business and human resource; and maintaining a good, reputation.
b) Use of Bell logger to reduce injuries to manual labour.
c) Industrial signage: Industrial safety signs help to reduce liability by providing proper notification for operators and other workers in the vicinity of the factory on the risks presented by machines, chemical hazards, requirements for protective safety gear such as eye protection or ear protection, and the like.
d) Internal and external trainings

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Safeguarding of employees from harm is at the forefront of all we do.

Our bell logger ensures efficient sorting and loading in a safe way

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PROJECTS

Projects


Rokewood staff inspecting felled poles

Include;

ELECTRICITY POLES: C&G ANDIJES Group Ltd-

- Implementation of Rural Electrification Schemes Under Lot 1: North - Western service territory (Hoima, Masindi, Kibaale and Kiryandongo Districts.
- Design, Procurement and Construction of 33kV and 11kV Lines and Associated low voltage networks for the energy development and access expansion project in seven towns in Uganda.

TELECOM POLES:

- Roke Telkom Limited.
- Soliton Telmec: National Information Technology Authority, Uganda National Backbone project.
- ATX Technology.

TIMBER TREATMENT: Seyani International company Limited

- Karuma hydroelectric power station.
- Pearl Marina Estates, Garuga peninsula, Lake Victoria shores.

CONTACT US

Contact Details

Plot 781, Kampala Industrial & Business Park,

South B Estate, Ring Road 3 – Namanve

Post Office Address

P.O Box 31386 Kampala, Uganda

Telephone

+256 312 109 528/+256 414 230 143

Email

rokewood@rokeinvestment.co

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THANK YOU