

WELCOME TO NIEN HSING GROUP LESOTHO



13 November 2024

@Capital Empire
Sandton
South Africa



FORMOSA TEXTILE COMPANY

- ▶ **FORMOSA TEXTILE COMPANY (PTY) LTD** is one of the important milling oversea foothold invested by Nien Hsing Group, main products include denim fabrics 、 Open-End yarns 、 and ring spun yarns with cotton from African.
- ▶ Utilizes superior fully-computerized automation production equipment oversea including rotor spinning, slasher dyeing, weaving machines, finishing, etc.
- ▶ Formosa Textile, specializes in using 100% **Regional** (Southern Africa) **BCI** (Better **Cotton** Initiative) and **CMIA** (Cotton Made In Africa) **Cotton**.
- ▶ Formosa is a LTEA members
- ▶ Employed 1200 workers, 60% are men with three shifts

COTTON MADE PRODUCT



WASTE MANAGEMENT

“Sustainability is now also a top priority in the textile industry. This is about more than the use of organic cotton and better working conditions.” Paulinde Schmidt.

- ▶ Waste is any material or substance that is discarded from a facility site, which can pollute and contaminate the environment and surrounding communities. At Formosa Textile, we understand and track all hazardous and non-hazardous waste streams.
- ▶ 20% Total Waste
 - ❖ 15% Yarn and Fabric (recyclable)
 - ❖ 5% Cotton dust
- ▶ It is ensured that all waste is collected by legally licensed waste collection companies where most of it is being recycled.

1. FABRIC AND YARN WASTE

WASTE YARN



WASTE FABRIC



2. RECYCLED COTTON TO YARN

RECYLED COTTON



YARN FROM RECYCLED
COTTON



3. CHEMICAL CONTAINERS RE-USE

WASTE CHEMICAL
DRUMS



RE-USED CHEMICAL
DRUMS



WASTEWATER

- ▶ Industrial wastewater is the aqueous discard that results from substances having been dissolved or suspended in water, typically during the use of water in an industrial manufacturing process or the cleaning activities that take place along with that process.

OBJECTIVES

To produce an environmentally safe fluid waste stream (or treated effluent) and a solid waste (or treated sludge) before disposal or reuse.

EFFLUENT TREATMENT PLANT

- Formosa Textile has an Effluent Treatment Plants (ETP) for industrial wastewater treatment. An ETP is a unit plant where using multiple methods wastewater is treated for its reuse or safe disposal to the environment. This process reduces the demand of fresh water while keeping environment clean.
- The treatment process removes any toxic and non-toxic materials or chemicals from it so that the water can be reused or released in the environment which will do no harm to the environment. In 2023, **168231m³** was recycled, out of **331473m³**, i.e. **51%**.

Treated wastewater from Formosa is discharged directly into WASCO's pipelines for further treatment and regular testing.

To meet international Standards our wastewater is tested twice a year.

Parameters included in the TCLP analysis

Organic Compounds	Metals	Inorganic Compounds
1,2 Dichloroethane	Aluminium	Cyanide
1,1,2 Trichlorobenzene	Antimony	
1,2,3 Trichlorobenzene	Arsenic	
1,4 Dichlorobenzene	Barium	
2,4,5 Trichlorophenol	Cadmium	
Benzene	Chromium (III)	
Benzo(a)pyrene	Chromium (VI)	
Carbon Tetrachloride	Cobalt	
Chloroform	Copper	
Crosols	Iron	
Ethylbenzene	Lead	
Hexachlorobenzene	Manganese	
Isopropylbenzene	Mercury	
Naphthalene	Selenium	
Phenol	Vanadium	
Tetrachloroethane	Zinc	
Xylene		

FORMOSA WASTEWATER

INDUSTRIAL WASTEWATER



TREATED WASTEWATER



NH LESOTHO WASTEWATER

INDUSTRIAL WASTEWATER



TREATED WASTEWATER



COMPLIANCE IN CHEMICAL MANAGEMENT

- ▶ Ratified ILO Convention 197 on Occupational Health and Safety in March 2023, now on implementation stage
- ▶ National Occupational Health and Safety Act of 2024
- ▶ Environmental Act 2008
- ▶ Workplace Occupational Health and Safety

Ensuring compliance of the highest standards, we commit ourselves to comply with all requisite **legal and non-legal requirements and international standards**, and the implementation of good practices in relation to safety, health and **environment**.

BEST PRACTICE

► Ensures:

1. Alignment with the Chemical Management System (CMS) such as Safety Data Sheets, Technical Data Sheets, Chemical Inventory Log
2. ZDHC MRSL level 1 conformance as a minimum requirements and work towards higher levels of conformance.
3. To ensure **Traceability** for the manufacturing process to the chemical inventory.
4. To continuously provide training to our staff to update knowledge and skills on Chemical Management System

CHEMICAL STORAGE

POWDERED/DRY CHEMICALS



LIQUID CHEMICAL STORAGE



HAZARDOUS WASTE & DISPOSAL

National law requires a risk assessment from time to time to prevent hazardous risks;

- ▶ Our waste is segregated, secondary containment and properly stored in ventilated areas.
- ▶ Only authorized persons allowed in ventilated areas

▶ **SLUDGE DISPOSAL**

Managed by National Municipal (MCC) responsible for disposal to the landfill designated for Sludge.



CHALLENGES

- Lack of capacity for WASCO, need for laboratories certification hence Formosa sought to test at OEKO TEX for wastewater discharge,
- Lack of national minimum requirements with best practice,
- Lack of coordination and collaboration with key ministries on issues of environment, etc.

SUSTAINABLE MANUFACTURING

➤ PRODUCTION

CLEANER & SUSTAINABLE PRODUCTION

Our production focuses on promoting manufacturing techniques to reduce resource consumption through utilization of cleaner technologies, and delivering products that are eco-conscious.

➤ PEOPLE

We improve health and well-being of our workers and the neighborhood communities through our ESG.



ACCOUNTABILITY

Provide supply chain transparency via assessments and reporting.

SUPPLY CHAIN





THANK YOU!

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