

Longonjo Concentrator

MINING

Majority free dig, minimal blasting to reduce impact on environment

Mining plan area reduced to avoid area of high biodiversity value.



ROM Ore

Milling/Comminution

Flotation

Concentrate Thickening

Final Tailings Thickening

Reagents

WATER RECYCLE

Water recycled across each flotation area to minimize raw water demand

MREDS Plant

Tailings Storage Facility (TSF)

TAILINGS STORAGE FACILITY (TSF)

TSF designed to Global Industry Standard on Tailings Management (GISTM) to ensure safe and robust engineering.

POWER

Power supply from hydroelectric power will support the Longonjo operations through construction of a new power line, displacing the need for fossil fuel powered remote generators.

RAIL INFRASTRUCTURE

Longonjo plant is connected to existing logistic networks via rail to Port of Lobito. This enables access to readily deliver bulk reagents to site.



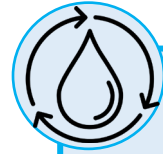
Longonjo MREDS Plant

PENSANA Plc



SCRUBBING OF OFF-GAS

The acid mixing and bake will release off-gases which will be captured and neutralized to reduce the impact on the atmosphere



WATER RECYCLE

Water utilization is maximized by use of counter-current decantation (CCD) and membrane technology. Recovered water is re-used.



HIGH-QUALITY PRODUCT

High value and high purity product to minimize mass to export and green-house gases in transport emissions

Concentrate
Filtration & Drying

Acid Mixing and
Baking

Off-gas
Scrubbing

Leaching and CCD

Nano-filtration

Impurity
Removal

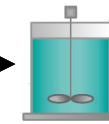
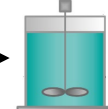
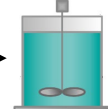
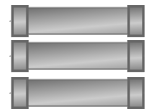
MREDS
Precipitation

MREDS Product

MREDS Tailings
Neutralisation

ELECTRIFICATION OF ACID BAKE AND OTHER ENERGY INTENSIVE PROCESSES

The acid bake process will be electrically-fired to reduce emissions associated with diesel burners and provide greater process control, saving up to 10Ml diesel and 25ktCO₂e per year



Saltend Refinery Separation Plant

