# WALVIS BAY SALT HOLDINGS OVERVIEW

ANDRE SNYMAN

Managing Director



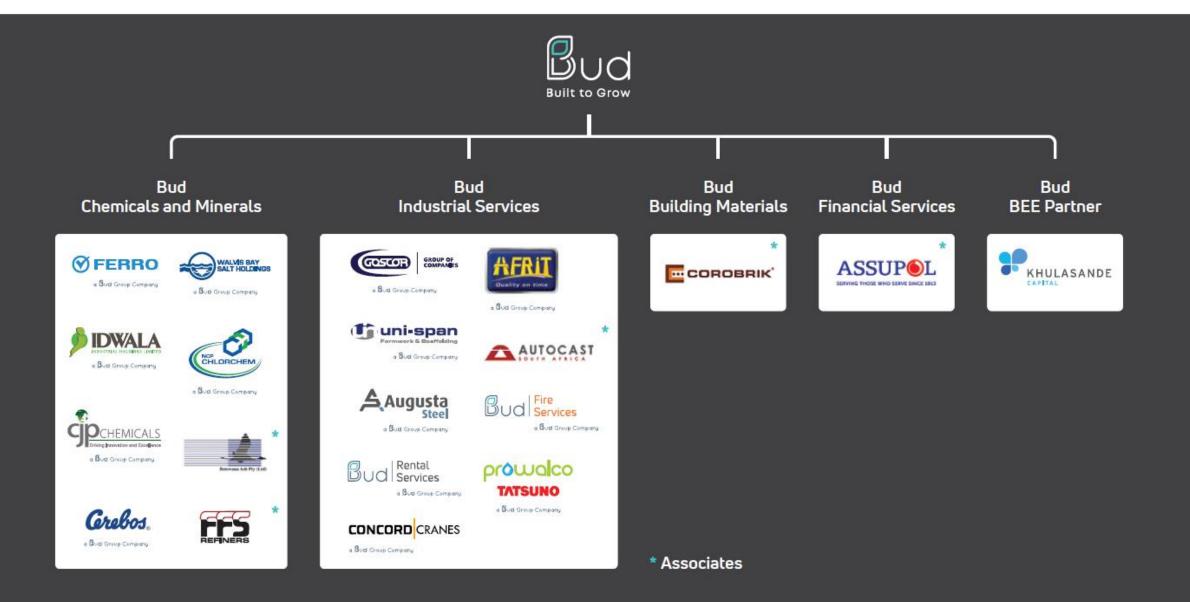






# **BUD GROUP**





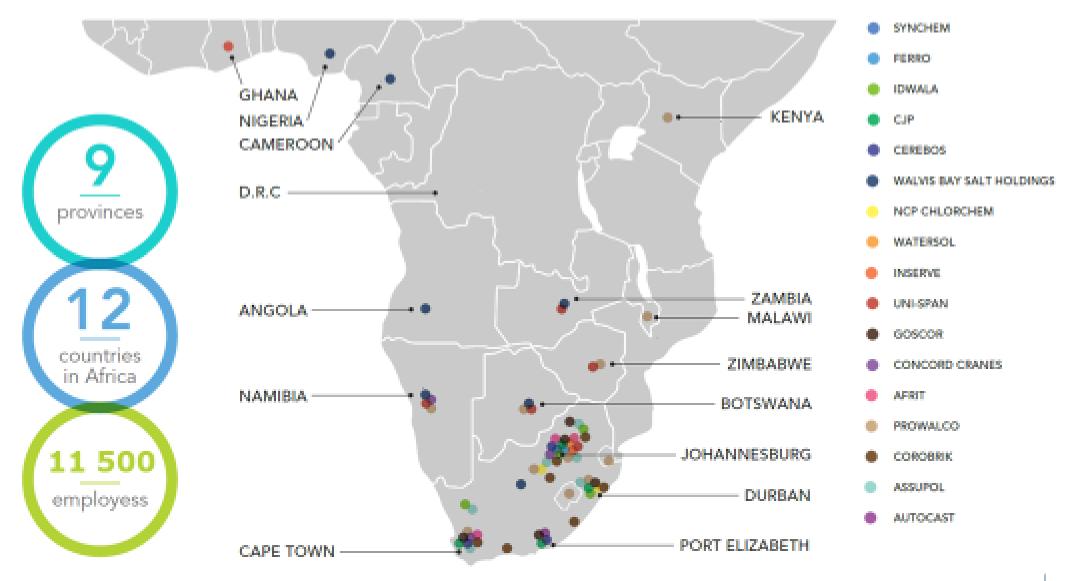
# **BUDCHEM OPERATING STRUCTURE**



## **BUD CHEMICALS AND MINERALS**

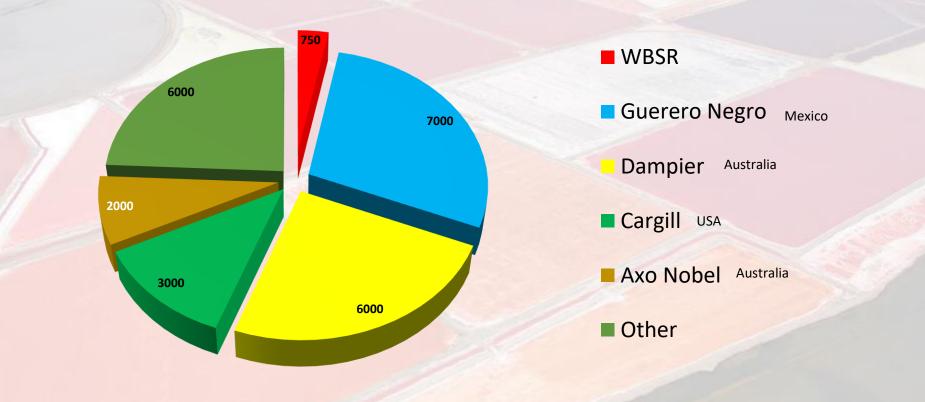
<b>MINERALS BENEFICIATION</b>	<b>CHEMICALS &amp; COATINGS</b>	<b>ENERGY SOLUTIONS</b>
<b>DENTRE IDWALA (82%)*</b>	NCP (100%)	FFS REFINERS (43%)*
BOTASH (50%)*	<b>FERRO</b> FERRO (100%)	
WALVIS BAY SALT HOLDINGS WBSH (100%)		
Grebos. CEREBOS (100%)	<b>DETVING INNOVATION AND EXCERCISE</b>	

#### 2.3 BUD FOOTPRINT

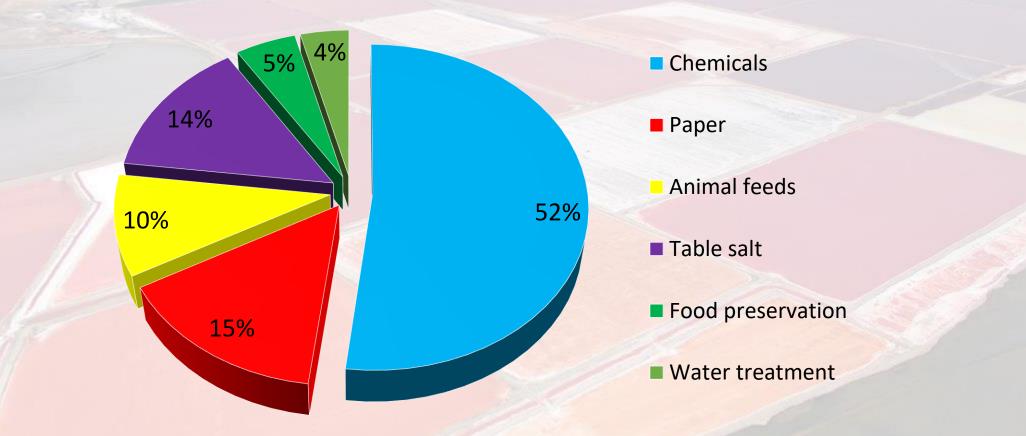


#### Key Global Solar Salt Producers

#### Volume (000's) per annum



#### Salt Demand by Sector in RSA



Total demand: 1.05 million tons per annum

## It all starts with our people...

"People rarely succeed unless they have fun in what they are doing." ~ Dale Carnegie

> "People are not a Company's most important asset... The RIGHT people is a Company's best asset..."

### **Management Team**



"The ultimate test of a management team is performance" – Peter Drucker

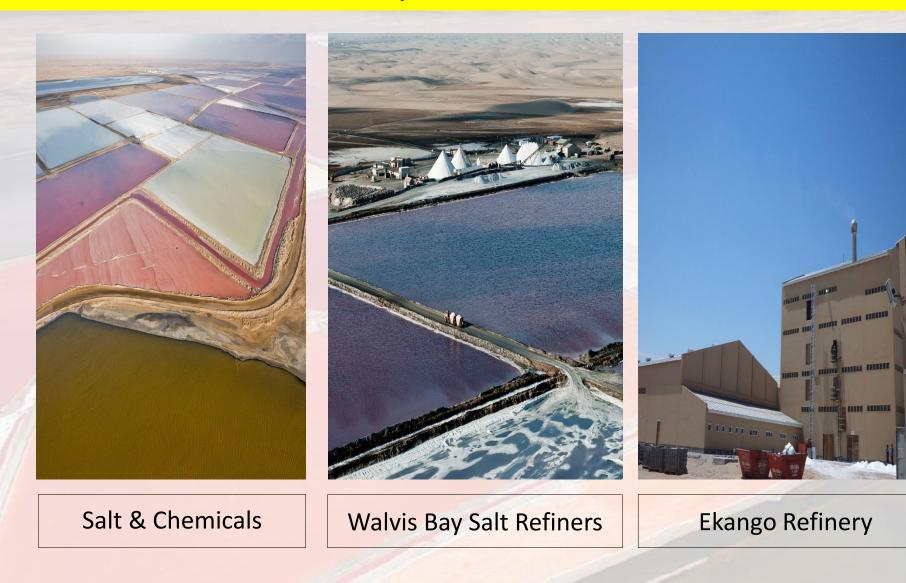
## Brief Background & Footprint

- Salt field operation based at Walvis Bay, within a RAMSAR proclamated area
- One of largest solar evaporation facilities in Africa, comprising an area of 6,000 hectares.
- Owns Mining License, expires 2020
- Infinite Resource, mine with no terminal date
- Processes over 90 million m<sup>3</sup> of seawater to produce in excess of 950kt of high quality salt pa (depending on evaporation levels).

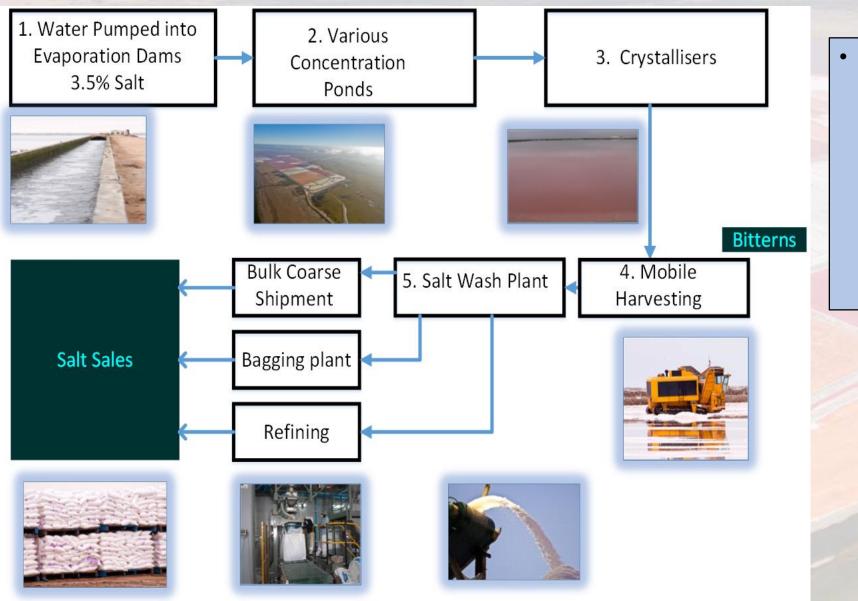




### WBSH Corporate Structure



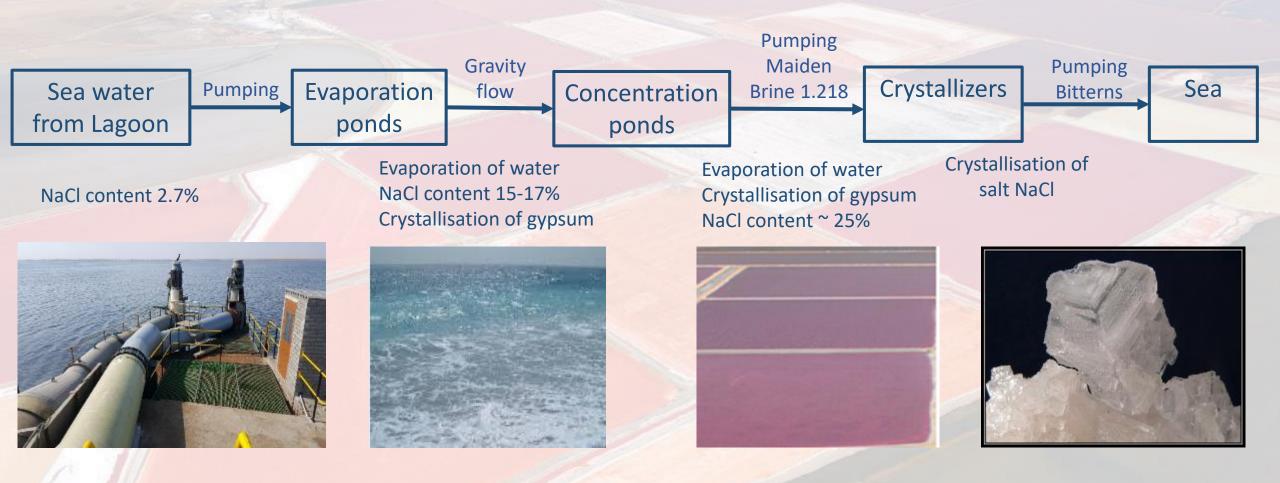
## Sea Salt Manufacturing Process Flow:



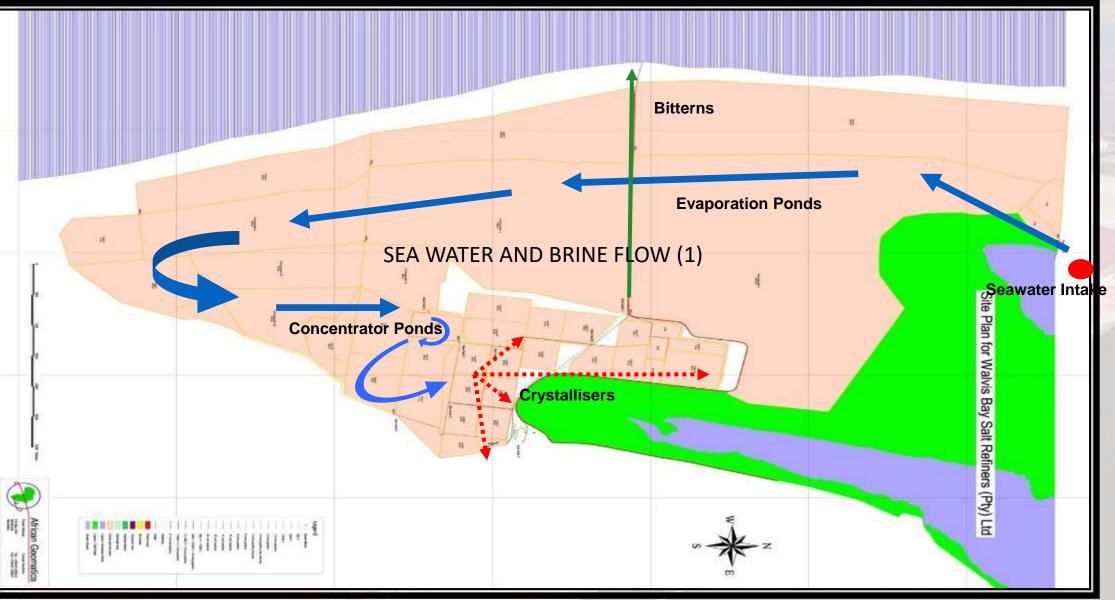
- Salt content: % NaCl
  - Seawater: 3.0%
  - Exit Evaporation Dams: 14%
    (9 11 mths)
  - Exit Concentration Ponds : 25%
     (9 11 mths)
  - Crystallizing Ponds (10 – 11 mths)



## SEA WATER AND BRINE FLOW (1)

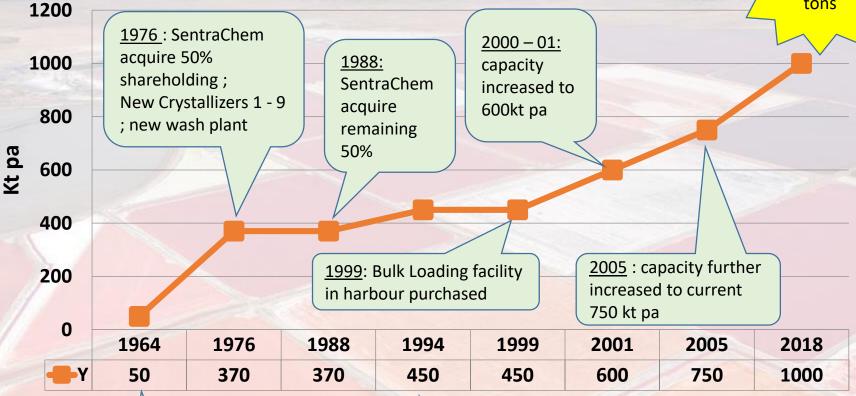


### **SEA WATER AND BRINE FLOW (2)**



#### Capacity Increase over years

2020 : 1 Million tons



<u>1964</u>: Operation established, brine from boreholes, only crystallizers 16 & 17

<u>1994 – 2000</u>: Crystallizers 10 – 14 added

## SALT FIELD EXPANSION

- Capital Expenditure at a cost of N\$65M
- Project successfully completed
- Additional 1200 ha of evaporators
- Additional 100 ha of crystallizers
- Additional Tonnage p.a. 2017 80kt

2018 - 156kt

2019 - 240 kt

## THE CHALLENGE











## THE CHALLENGE









Walvis Bay Harbour

1

• Bulk Loading Terminal

Bulk Stockpile



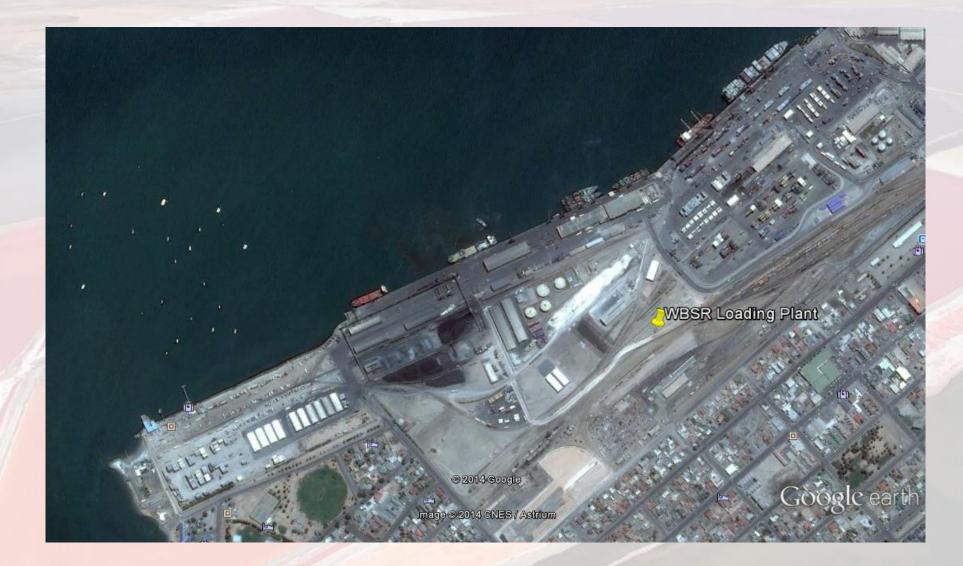
Image © 2005 DigitalGlobe Image © 2005 EarthSat

Pointer 23°00'18.43" S 14°29'37.12" E elev 27 ft

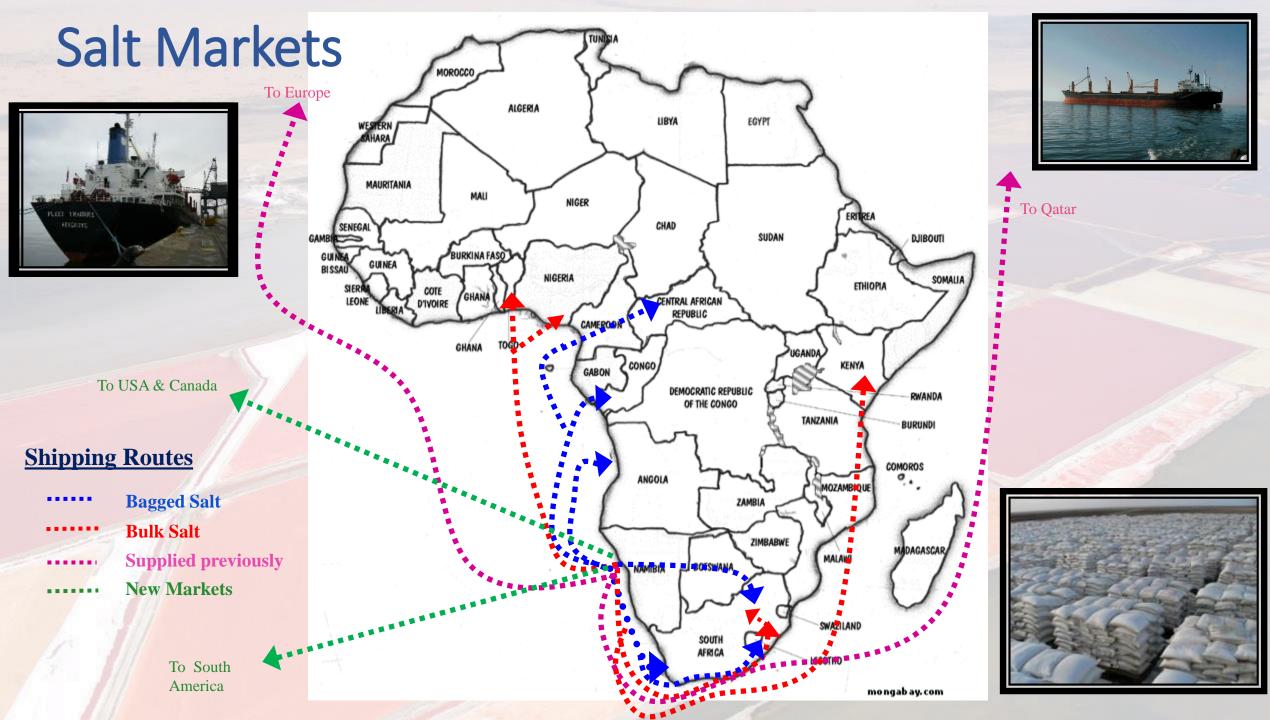
Streaming |||||||| 100%

Eye alt 24.72 mi

## Loading Terminal @ Port

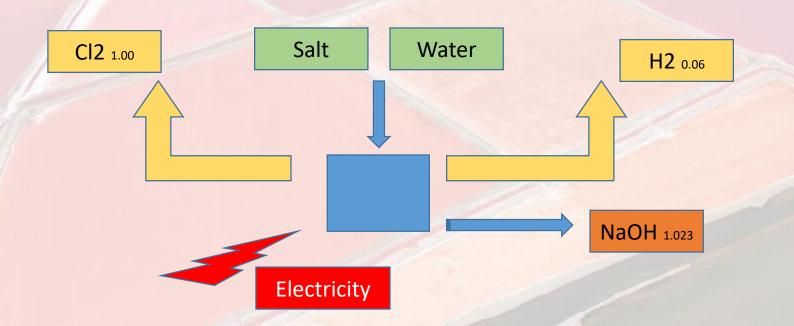


#### Markets Served



#### **General : Mineral Beneficiation**

- 2. Salt Beneficiation Initiative
  - Namibian government place huge focus on local mineral beneficiation.
  - Local production of caustic soda from salt for Namibian mining industry an option
  - Import levy of 20% outside SACU in place
  - Namibian caustic soda market size : 30,000 ton per annum DMT = 60,000 ton per annum lye.
  - Key Success Factors:
    - Electricity directly from NAMPOWER. 20MVA Connection is required.
    - Permit to dispose excess chlorine in sea, after being neutralized
    - Suitable land



#### **General : Mineral Beneficiation**

#### 3. Ekango Refinery

- Produce refined salt for human consumption
- Commissioned during 2012
- 72,000 ton capacity per year
- Cerebos leading brand
- Local and export markets



#### Value Addition : Ekango Salt Refiners





• 25% local PDN Shareholding

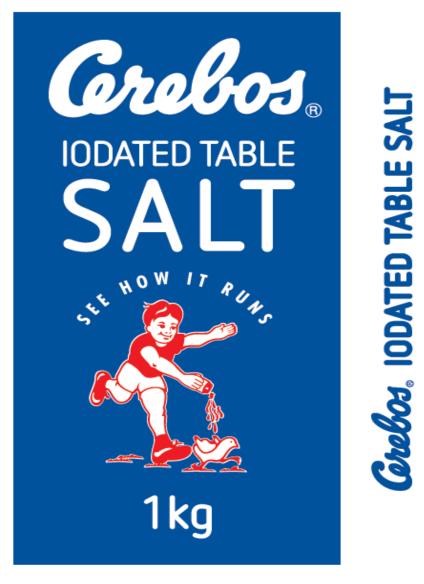


0860 104 638
 info@cerebos.co.za
 www.cerebos.co.za
 /see.how.it.runs

Packed for Cerebos Ltd: Zone 7, Coega IDZ, Coega, Port Elizabeth, South Africa.



BE SALT WISE CEREBOS SUPPORTS HEALTHY EATING. [ Broland IODATED TABLE SALT



Grebos IODATED TABLE SALT

Ingredients: Salt, Anti Caking Agent (E551,E535), Potassium Iodate.

Sal de nesa fino iodizado Ingredientes: Sal lodina, e Agenta De Fluxo Livre Usar conforme requerido

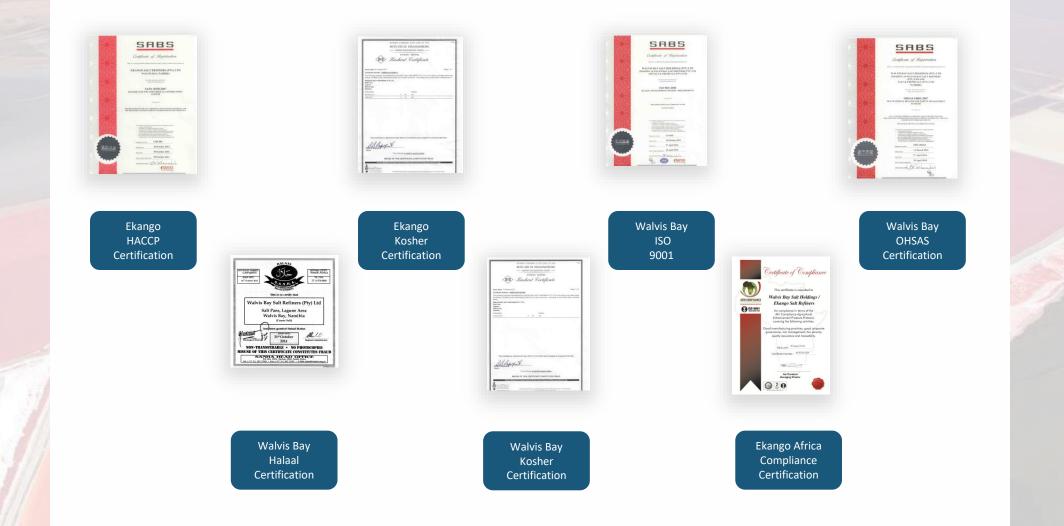
Ingrédients: Sel (NaCl); Agent anti-agglomérant (E551,E535); lodate de potassium

STORAGE INSTRUCTIONS: STORE IN A COOL, DRY PLACE.

GUARDAR EM LUGAR SECO E FRESCO.

INSTRUCTIONS DE STOCKAGE: À CONSERVER DANS UN ENDROIT FRAIS ET SEC

#### **Company Accreditations**



#### Walvis Bay Salt Holdings – Oyster Production



- Outsourced to BEE Company, under NAMSOV supervision.
- Commercial agreement with NAMSOV, but proceeds allocated to CSR budget.
- Over 800 000 units produced per year.
- Aiming for 2 million units per year.
- 50% exported to Asia and Hong Kong
- Project recently outsourced
- Focus on far east market





**GRADING AUDIT** 

This is to certify that

#### WALVIS BAY SALT REFINERS (PTY) LTD AND SALT & CHEMICALS (PTY) LTD NAMIBIA

has been assessed by NOSA against the provisions of the

NOSA INTEGRATED FIVE STAR SYSTEM

Occupational Safety, Health and Environmental Management



The Star Rating above and the Seal below, were hereto affixed in the presence of:

sour

Valid until:

Manager Certificate No: CA400735 Date: 01 - 03 December 2015

30 November 2016

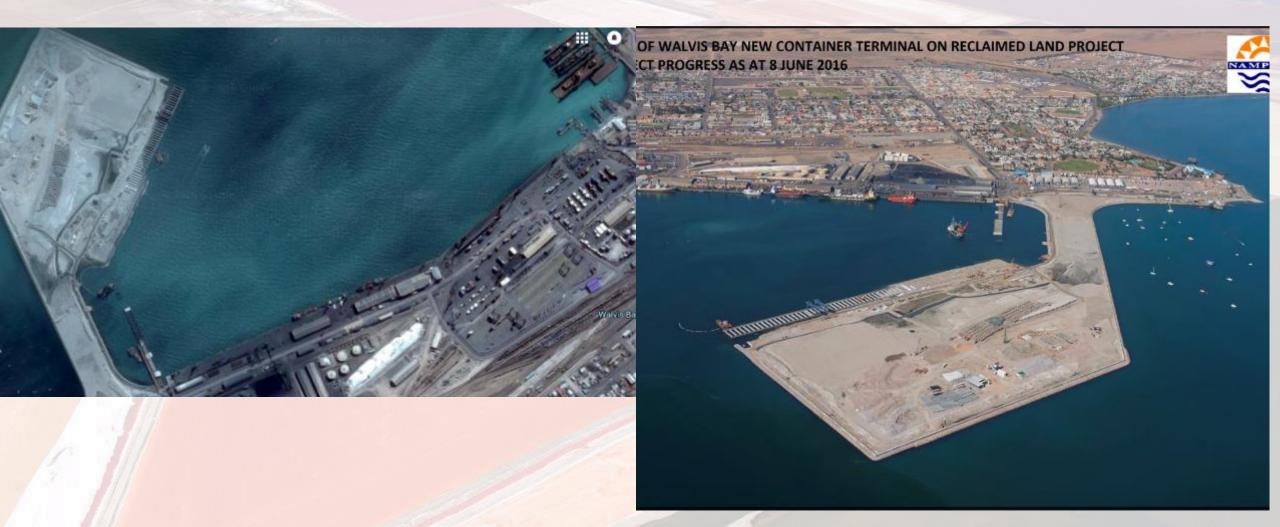


## INAUGARATION





## **PORT & NEW CONTAINER TERMINAL**



## WALVIS BAY PORT / SALT LOADING FACILITY

#### Walvis Bay Port

- New Container Terminal (Operational H1 2018)
- Berths 1,2 & 3 reduce to 2 Berths
- Reduced volume of ships to Berth 1
- Salt Loading Facility



- 14 m Draft @ 3 m from quayside fenders or listing
- Larger LOA vessels either turning or lengthening conveyor or skips
- Flooding mid holds required
- Adjustment of loading chute





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Bulk Sales Agent: Kevin Brett Tel: +27 11 803 2904 kbrett@ilangasel.co.za





# Bulk Transport Logisti

## **Bulk Loading Terminal**

1000

IVECO









