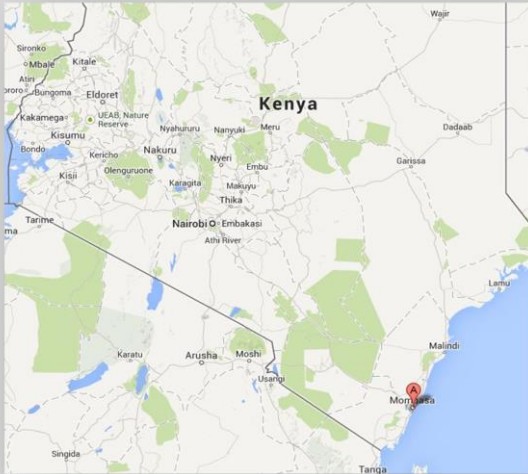


Port Terminal Productivity
PORTS & TERMINALS

LOCATION
KENYA

SECTOR
PORT TERMINAL PRODUCTIVITY

CLIENT
MINING COMPANY



Kenya Fluorspar
Mbaraki Wharf Productivity
Mombasa

OVERVIEW

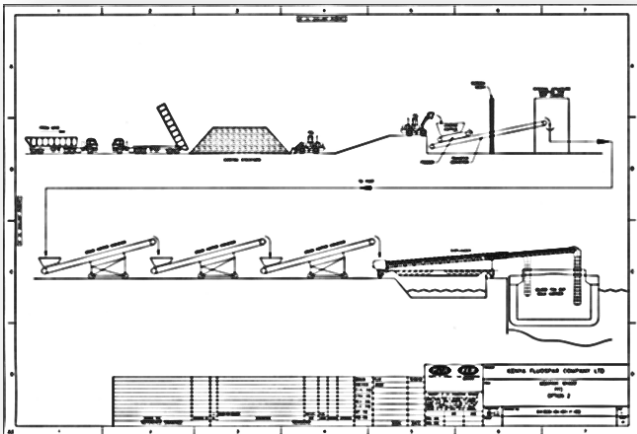
Kenya Fluorspar Company (KFC) is a fluorspar producer that mines a significant deposit in the Kerio Valley in Kenya, and exports around 360,000 tons per annum. The product is transported from the mine to a warehouse facility at Mbaraki Wharf in the Port of Mombasa, from where it is then loaded in bulk into Handysize bulk vessels in parcel sizes up to 22,000 tons, via a conveyor belt system and shiploader sited on the quay immediately south-east of the KFC open stockpile.

KFC appointed A-Cubed Consulting (as Ports of Africa) in September 2012 to undertake a high-level investigation of the ship loadout facility at Mbaraki Wharf, Mombasa and to determine appropriate options available to address the prevailing situation.

SCOPE OF WORK & METHODOLOGY

The high-level nature and purpose of the study, implied that this would largely be a desktop study using various in-house resources, knowledge of developments that are taking place, information provided by KFC and pertinent data obtained from a site visit and meetings with Kenya Ports Authority in Mombasa.

A-Cubed, with their JV partners in Ports of Africa, were able to determine a number of options and from those shortlisted, select those that were considered as being optimal, using a RAG tool to provide a rating method.



Short - Medium Term Options		
Options	Comments	Rating
1. Continue with current system	<ul style="list-style-type: none"> Slow working equipment - 4,000tpd. Unreliable Denag loader which not maintained and already condemned. Frustrations in having to deal with Bamburi Cement who own the loader. 	Yellow
2. Install purpose-built stacker, track-mounted on existing tracks	<ul style="list-style-type: none"> Rail and pipeline structures on the Wharf may require a non-standard design of a stacker and/or re-routing of pipeline routes on the Wharf - costly? 	Green
3. Skip & trailer operation at Mbaraki using ship's gear	<ul style="list-style-type: none"> Tight access road conditions. Potential congestion on the berth if another ship is also working. Currently discharging clinker into tip trucks. Faster load rate than at present: <ul style="list-style-type: none"> 8,000 tpd - 5 cranes 6,000 tpd - 2 cranes 	Green
4. Build jetty extension immediately in front of KFC Stockyard	<ul style="list-style-type: none"> Costly alternative. Boas Freight have some claim over the water frontage and have taken KFC to Court. Reluctance from KFA - other agenda? 	Red