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Agriculture

Redais Sugar Project (Kenana II)

Project Description

- Location : At the west bank of the White Nile river 100 KM western of the current Kenana site.
- Project Area : 150,000 acres
 - State of the art corporate farm and mill.
 - Raw sugar mill TCD 20.000 MT of cane/Day.

- State of the art Power Generation facilities capable of supporting project own requirement as well as supplying power to Kenana and exporting power to the National Grid.

Objective

- Production : Raw sugar, 500,000 MT/year.
- By Products : Bagasse, molasses, juice and biomass for ethanol and cane trash for cogeneration.

Current Status

- Land is secured from the White Nile State Authorities.
 - Bankable feasibility study is completed.

Type

- Open Shareholding

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Kenana Red Sea Sugar Refinery Project

Project Description

- Location : The Green Area within Port Sudan.
- A Sugar Refinery Strategically positioned in Port Sudan.
- Local and international raw sugar supply
 - State of the Art Refinery – 500,000 MT capacity with potential to expand to 1 million MT
 - Power generation facilities as well as water desalination plant

Objective

- Position Kenana as one of low cost sugar refiners in the region.
- Utilization of KSC's refining knowledge gained over past 30 years.
- Take advantage of Port Sudan's geographical advantage in terms of freight and access to all key markets such as EU, COMESA, GAFTA and Asia.
- Utilize export Access under EBA Agreement for LDCs.

Current Status

- A detailed feasibility study has been finalized.
- Eridania Sadam from Italy, founding shareholder.

Type

- Open Shareholding.

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Energy

Ethanol Expansion

Project Description

- Expand Current Ethanol plant of 65 Million Litre to 200 Million Litre per annum.
- Use of molasses, juice and biomass as feedstock.
- Leverage on existing ethanol production facilities.

Objective

- Continue to be the market leader in ethanol production in Sudan.
- Increasing KSC's competitive advantage in securing feedstock through molasses and biomass.
- Positioning KSC's as an international player in the renewable energy market.

Current Status

- Initial contact with suppliers for capital costs completed.
- Ongoing study will determine portions of feedstock originating from Outgrowers, Biomass and Redais Sugar Project.
- Discussion underway with potential partner like Sojitz of Japan and some US company to finance and enter into off take agreements.

Type

- Open Shareholding.

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Bio-Diesel Project

Project Description

- A plant for Bio-diesel production of 30 million liters/year.
- Selection, planting and farming of appropriate feedstock complete (soya bean).
- Fallow land of 17,000 acres within cane farm will put in use.
- Production of high value by-product – Glycerine, soya bean meal feed.

Objective

- Supporting economic growth and long-term improvements in food security.
- Better utilization of the 5% forest zone applied to Agricultural schemes and 20% fallow land.
- Reduce long term KSC's cost of production by using bio-diesel across agricultural operations.
- Better utilization of fallow land and improvement of soil conditions.

Current Status

- Agricultural trials for soybean, Moringa and Jatropha have been conducted, both at KSC and White Nile site.
- A detailed feasibility study is completed.

Type

- Open Shareholding.

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Bio-Waste Energy Project

Project Description

- Carbon neutral, bio-refinery process for conversion of biomass into energy and organic fertilizers including
 - Silage area for composting/fermentation.
 - Anaerobic plant for methane generation.
 - Power generation facilities.

Objective

- Utilize growing amount of biomass from KSC and other KIAS projects for energy generation and bio fertilizers.
- Replace use of chemical fertilizers at KSC and other projects with organic fertilizers.
- Reduce operating costs by reducing consumption of fuel oil and fertilizers – high expenditure.

Current Status

- Evaluating potential options and technologies available.

Type

- Open Shareholding

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Animal Production

Animal Feed Project

Project Description

- New modern production facilities with 250,000 MT/year production capacity expandable to 500,000 MT per year.
- Combination of ruminants livestock and poultry feeds as well as fish feed to supply KSC'S potential Fish farm needs.

Objective

- To bridge the existing domestic gap in quality feed.
- Continue to utilize sugar by products and residues from KIAS projects to generate additional revenue.
- Take advantage of existing markets in GAFTA and world-wide.

Current Status

- Full detailed feasibility completed.

Type

- Open Shareholding.

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Aqua Farming Project

Project Description

- Develop a fish farm and processing plant using KSC's existing infrastructure and resources including its canal network.
- Minimum production capacity will be 2,000 tons/year.
- At least 2 main species will be cultivated with the possibility of adding another 2 at later stage.

Objective

- Maximize KSC's Asset Utilization by using the Canal network to produce fish.
- Fish farming in the existing canals will increase the amount of nutrients and enrich the water travelling to the sugar fields.

Current Status

- Full feasibility study will be completed by Jan. 2011.

Type

- Open Shareholding.

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Logistics

Red Sea Terminal Project

Project Description

- Location: Port Sudan.
- Logistic system for the agricultural exportation of sugar and other solid bulk products.
- The terminal will include
 - Raw Sugar: 100,000 MT
 - Bagged White sugar: 100,000 MT
 - Other bulk products: 100,000 MT
- Loading capacity – 2000 t/hour.
- Rail and truck handling ability.

Objective

- Reduce freight rate to and from Port Sudan by reducing vessel waiting time.

- Increase loading/unloading efficiency. Can handle a 45,000 MT vessel in less than 2.5 days compared to over 30 days now.
- Reduction of inland transport costs to Port Sudan by transporting in bulk rather than bagged (20%).

Current Status

- Technical design for sugar & grains terminal finalized.
- Land allocation secured from SPC.
- Final feasibility pending final design of Red Sea Refinery to incorporate dependencies.
- Ethanol Export Terminal land allocation assessment carried out independently.
- Initial approval from SPC secured for ethanol terminal at Port Sudan.
- Preliminary design of ethanol terminal submitted to SPC for final approval.

Type

- Open Shareholding.

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Engineering

Kenana Equipment Manufacturing (KEM) Expansion Project

Project Description

- 3 product verticals for manufacturing equipments and parts
 - Machinery: sugar, biofuels and animal feed.
 - Foundry products.
 - Agriculture Implements.
- The operation will include
 - Equipment design facilities.
 - Fabrication, machining, foundry and agricultural implements production capability.
- The project will be implemented in 4 phases, over 8 years and gradually increasing production capability.

Objective

- To meet the growing demand for equipments and spare parts.
- Capture emerging markets as a result of industrialization and implementation of GSP.
- To secure sustainability of industrial and agriculture sectors by a local fabrication and engineering goods manufacturing capability.

Current Status

- Full feasibility study has been completed by ISGEC John Thompson.
- Initial talks with regards to partnering have been started with IJT & other potential partners.

Type

- Open Shareholding.

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Consumer products & Food ingredients

Liquid Sugar Project

Project Description

- Liquid sugar processing plant with a production capacity 120,000 tons/year expandable to 150,000 tons/year.

Objective

- To provide a captive product to an expanding industrial customer base with a guaranteed demand and profitability.

Current Status

- Feasibility study completed in 2006 and currently being updated.
- Customers identified and validation under process.

Type

- Open Shareholding.

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Vegetable Oil

Project Description

- Establishment of a 100,000 MT/year integrated vegetable oil production plant.

Objective

- Production of added value products on the agriculture supply chain – from crop to shop.
- Profit of KSC's competitive advantage in terms of feedstock security and sustainability of production.

Current Status

- Initial high level technical scope developed.
- A feasibility study underway.
- Equipments available at Rahad & Elsuki under assessment for use for this project.

Type

- Open Shareholding.

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Horticulture

Project Description

- Construction of 200 greenhouses together with an irrigation system producing 4,600 tons of assorted vegetables.
- Planting of 300 Acres with green ornamental plants (green cuts).

Objective

- Utilizing infrastructure and assets available to maximize returns.
- Expand and modernize existing base in the produce farm.
- Producing High-value products with low production costs.
- Meeting strong demand in the domestic and export markets.
- Enhance the profitability of the produce farm business unit.

Current Status

- Nuclear unit available in the produce farm – 10 greenhouses and 10 Acres for ornamental feeds.
- Full study on the progress in collaboration with Arabian African Company from Egypt.

Type

- Open Shareholding.

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Paper

Project Description

- A 2 phase approach is planned with 25,000 tons/year production in phase 1, and 50,000 tons/year production capacity in phase 2.
- Integrated paper mill with a production capacity of 50,000 tons/year.
- Final products will include wood pulp, printing paper and writing paper.

Objective

- To become market leader in local production and meet the growth of local demand for paper.

Current Status

- Initial discussions with suppliers have been held to assess capital costs.
- A detailed feasibility study will be conducted.

Type

- Open Shareholding.

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Packaging

Project Description

- The Packaging Project is aimed to produce two types of 50 kg sized bags
 - Polyethylene Propylene Bag (PP Bags) to serve the local Sugar and Flour industries. The expected production capacity is 35 million bags per annum.
 - Cement Bags to serve the local cement industry. The expected capacity is 18 million bags per annum.

Objective

- Reduce KSC's costs by securing competitive prices on key manufacturing input.
- Secure source of supply, minimizing any risks to existing supply.

Current Status

- Feasibility study completed.
- Strategic Technical partner (Tawfiq – KSA).

Type

- Open Shareholding.

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MDF

Project Description

- Production plant with a 25,000 m3 per year capacity, expandable to 50,000 m3.
- Bagasse , wood and cane trash will be used as raw material.

Objective

- Utilize the availability of raw materials within KSC for production process and translate it into profit.
- Convert low value waste into a higher value product.

Current Status

- Previous feasibility study currently under review and update.

Type

- Open Shareholding.



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