

AGRICULTURE SECTOR



Agricultural Sector

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Agricultural Development Projects

East Nile canal project

- **Title** :East Nile canal project.
- **Location**: East Nile Locality, Khartoum state –Sudan
- **Description**: Establishment of a pump house, booster pumps , major and minor canals.
- **Component**:-
- **Building**: pump house , major canal 100 km. long, minor canals administration facilities.
- **Equipment**; main pumps, booster stations pumps, water flow control facilities.
- **Vehicles**: for operation and administration use (10 vehicles)
- **Operation capacity**:- Ability to provide irrigation water for 240,000 feddan.
- **Estimated costs**:-
- **Overhead** =250 million dollars
- **Investment proposals**:-
- **Partnership** with Khartoum state
- **BOT** bases.
-
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Al Fayha Agricultural Project

Location : Sennar State .

Sector : Agriculture

Area : 100.000 feddans

Objectives : Development of land For Irrigated agricultural production .

Soil : Black cotton soil

Climate : Poor savanna zone rain fall 300-700 mm

Irrigation : Blue Nile Water

Suggested crops : oil crops , cotton

Land tenure : Land leased by company .

Project capacity: Development of phase 2 at a cost of US\$ 33 MILLIONS.

Implementation period: 3 years .

Technology origin : International Standards .

Major Requirements : Pump house Pumping Units , Canals & buildings .

Feasibility indicators : Agricultural production food crops , fodder crops animal products .

Market : local ,regional , international .

Know how & design Documents : To be made By owner .

Status : Phase 1 Of 10.000 feddans under operation .

Estimated Development Cost : USD 33 millions .

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Abu Ahmed Agricultural Project

Project name: Abu Ahmed project for agricultural t and animal production .

Sector :- Agricultural Sector .

Areas :- North Sudan - 100,000 feddan.

Location:-Northern State .

objectives : 1. Contribution to the achievement of food security

2. Availability of jobs opportunities to the people of the area.

3. Increasing the agricultural sector contribution to the gross domestic product.

4. Increasing the country's exports of meat and fodders.

5. Effective contribution to the environment protection and limitation of adequate marginal profit to the investor.

Soil :Various configurations restore the flow of large amounts of sand that carry more than sand stone .

Climate : is desert with rate of rain fall less than 100 mm, and temperature is estimated as up to 45°at summer and down 15° C in winter

Ground water : Available in huge amount is estimated 4.3 milliard cubic meter.

Irrigation : Usage underground water as the location has potential sources of underground water of good are transported so the Pivot ir: For farm pump secured by owner .

Crops : Could be raised under irrigation round rigation system is the most suitable system .

Land the year . Suggested crops include : nuts- sunflower – sorghum – soybeans maize .

Component :- Contains land Development including bore wells , pivots , agricultural equipment & construction of Processing facilities

Suggested production Relations : Investor finances production from land preparation till harvest and buy crops from farmers .

Cost (Budget):-100 million USD

Implementation period: 5 – 10 Years

Technology Origin:- International

Status:- Pilot farm in operation .

Finance:- utilizing soft loan or Joint venture .

Market :- National , Regional and international.

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GIAD Elgimma

Project name:- GIAD Elgimma

Sector : Agriculture

Total area:- 30,000 Acre (12,600 hectares)

Location:- River n Nile State – 170 km north of Khartoum

Objective:- Production of one million tons of Food crops. for local consumption and export

Soil: sandy clay, free from salinity or . Rain 150 mm per year, . .

Irrigation: Bore wells using ground water. Atbra groundwater basin

Surface irrigation From Nile (on 10% of area : Balance of area needs Pump station and supply canal from River Nile .

Land : for cultivation ,pump site & canal is secured . .

Suggested crops : Potatos , Onions ,Maize Beans Ground nuts livestock .

Industrial section:- Agricultural industry.

Cost (Budget):- 120 Million Euro.

Implementation period:- 3yrs.

Technology Origin:- India

Feasibility Financial Indicators:-

IRR = 20% ROI = 22% PBP= 3yrs.

Finance:- Bank loan/ Joint venture investment.

Market :- National , Regional & international.

Remarks:- There is pilot project manufactured , assembled, tested.

A: Proposed Policy Options for the India Sudanese Agricultural Investment Partnership

Introduction

So many options (forms and choices) are available for the India-Sudanese Agricultural investment partnership, these include:

- ❖ Financing agriculture investment of new agricultural projects as well as on-going projects in the areas of production, processing and marketing.
- ❖ The mode of involvement ranges from investment in financing including contract farming to investment in development of commodity value chain (processing, grading, backing, cold storage facilities, other agricultural support services for marketing, storage and refrigerated transport, and furthermore to investment in agricultural development zones and economic development free areas to facilitate investment.

The main suggested options are as follow:

Investment in financing:

There are a number of portfolios that were created in order to finance the production and marketing of a range of important crops in food security and export.

These include formation of portfolio for production and marketing of cotton, portfolio for production and marketing of oilseeds in addition to portfolio finance the production and marketing of grain crops organic, medicinal and aromatic crops.

The Indians are invited to contribute to any of these portfolios based on agreed upon funding formula and share of profit.

The two parties would benefit from the lesson learned from the experience of these portfolios.

Investment in Rehabilitation of On-going Projects

Investment in rehabilitation of existing agricultural projects, which are now either not operational or working at very low capacities. Most of these projects are characterized by:

- ❖ Fertile land, secured irrigation water from the river Nile and its tributaries and with very good infrastructure supporting marketing.

- ❖ These projects are located in the White Nile, Sennar, River Nile and Northern States.

Investment in the value chain development:

The most important investment areas include infrastructure, processing, provision of services, cold transport and storage facilities, packaging, grading and marketing of the products and establishment of commodity exchange markets.

Roles of partners in Agricultural Investment

➤ **Role of the Two Governments:**

The two governments are committed to successfully come to an agreement on agricultural investment in the Sudan, facilitation of the procedures to speed up their implementation in addition to supervising and follow-up role.

Investing in infrastructure and basic supporting services for the projects.

Provision of financing and commercial facilities between the two countries.

➤ **Role of the Private sector:**

Direct investment.

Investment between the private sectors of the two countries (private - private partnership).

➤ **The Public-Private Partnership:**

Joint investment between the public and private sectors (Public Private Partnership)

The proposed agricultural partnerships

Preconditions for successful agricultural investment partnership

The success of these agricultural investment relationships and investment modalities will depend on the following as prerequisites:

- Provision of sufficient guarantees from the two governments ensuring support, protection, encouragement and resolving any disputes which might emerge.
- Excellent selection of projects and investors based on clear and transparent principles and criteria.
- Adoption of encouraging investment/investors policies.

The proposed agricultural partnerships

Contributions and Shares of the Partners:

As a general formula the share of the government of Sudan (federal or state government) shall be 40% for value of allocating the water and leasing the land while the share of the Partners shall amount to 60% for the invested capital, provision of technology and management.

In case the agreement included funding from the government of Sudan, Sudan's share shall rise to 60% and that of Partners decline to 40%.

The share of Sudan shall reach up to 85% and India 15% if the contribution of India confined to only managerial skills and personnel.

The proposed agricultural partnership according to Geographical Location and Mode of Irrigation:

New projects in Remote areas:

- Granting rights to develop the land and investing for long periods (50-60 years) against partnership contracts allocating 30% for the government for the value of leasing land and allocation of water and 70% for the investor for funding and implementation and management by the two partners.
- Granting rights to develop the land and investing for long periods (50-60 years) and the investor shall pay annual rate for land lease and water which will be agreed upon.
- Granting rights to develop operate and transfer ownership of investment projects under long-term partnership contracts (30-40 years) on the basis of BOT system.

New projects in the central areas:

- Granting rights to develop land as extension of existing projects and investing for long periods (50-60 years) under the partnership contracts allocating 40% for the government against land lease and water allocation and 60% to the investor for funding and implementation.
- Granting franchise rights to develop operate and transfer ownership of investment projects under long-term partnership BOT contracts.

Operating National irrigated Projects:

- Granting rights to rehabilitate and operate the pump stations and irrigation system for long term period on BOT system
- Financing crop production on the basis of contract farming in addition to possibility of renting lands from farmers.

New projects in the central areas:

- Granting rights to develop land as extension of existing projects and investing for long periods (50-60 years) under the partnership contracts allocating 40% for the government against land lease and water allocation and 60% to the investor for funding and implementation.
- Granting franchise rights to develop operate and transfer ownership of investment projects under long-term partnership BOT contracts.

Operating National irrigated Projects:

- Granting rights to rehabilitate and operate the pump stations and irrigation system for long term period on BOT system
- Financing crop production on the basis of contract farming in addition to possibility of renting lands from farmers.

Non- operating Irrigated Projects (Aylola):

- Granting rights to rehabilitate and operate the pump stations and irrigation system for long term period on BOT system. As an incentive for the investor the government will allocate 50% of the land on the lease basis.
- Financing crop production on the basis of contract farming in addition to possibility of renting lands from farmers.

B: Profiles of the Agricultural Projects

Northern State Projects

West Argien Agricultural Project

Project Name: West Argien Project for Agriculture and Livestock Production.

Status: New project.

Location:- Halfa locality, Northern State .

Project Area: 100,000 feddan (42017 hectare)

Objectives: Production of 200,000 tones of Wheat, 150,000 tones Legumes in addition to livestock production and other Crops like sorghum green fodders, vegetable, fruits for local consumption and export.

Soil : Desert plain, sandy to sandy clay loam texture and shallow to deep soils.

Climate: Rainfall is less than 100 mm during July and August . Temperature ranges between 45-47 °C during April and May and 10 °C in January.

Water Resources and Irrigation System : River Nile(from Nuba lake). Major Requirements are Pumping unit canals or modern Irrigation system (sprinkler, pivot, drip).

Land Tenure: Land for the project, pump site and canal path is secured by state government. Land will be allocated on lease basis (USD 10 per feddan (24 USD /ha)

Investment Partnership: The Government will contribute land and water rights against agreed upon percentage of total revenue.

Components: canalization / irrigation system, irrigation machinery and equipment, agricultural machinery and equipment purchase, drilling of wells

Cost (Budget): The total investment cost of the Project is estimated to be USD 200 million).

Implementation Period:- 5 years (three phases).

Technology Origin: International Standards

Finance / Investment Partnership: Land lease or Joint venture local partner.

Market :- domestic, regional and international.

Dalintod–Halfa

Project Name: Dalintod –Halfa Agricultural Project.

Status: new project

Location: Halfa locality, Northern State .

Project Area : 100,000 (42017 hectare)

Objectives: production of 200,000 tones of Wheat and 150,000 tones of Legumes in addition to other Crops including vegetables and fruits for local consumption and export.

Soil: Desert plain, sandy to sandy clay loam texture, shallow to deep soils.

.Climate: Rainfall is less than 100 mm during July and August . Temperature as high as 45-47 °C in April and May and as low as 10 °C in January.

Water Resources and Irrigation System: from River Nile. Major Requirements are Pumping unit, canals, or modern Irrigation system (sprinkler, pivot, drip).

Land Tenure: Land allocated for the project, pump site and canal path is secured by state government. Land will be allocated on lease basis at USD 10 per feddan (24 USD /ha)

Investment Partnership: The Government will contribute land and water rights against agreed upon percentage of total revenue.

Components: Canalization / irrigation system , irrigation machinery and equipment, drilling of wells , agricultural machinery and equipment purchase.

Project Investment Cost: The total project investment cost amount to USD 200 million .

Implementation Period: the Project will be implement in three phases 5 years each.

Technology Origin: International Standards .

Finance / Investment Partnership : Joint venture.

Market: domestic, regional and international markets.

West Delgo

Project Name: West Delgo Agricultural Project.

Sector: Agriculture .

Location: Delgo locality, Northern State .

Project Area: 50000 feddan (21000 hectare).

Objectives: Production of 75,000 tones Wheat, 150,000 tones of Legumes (Alfalfa) in addition to barley Vegetables, fruits, spices and other Crops.

Soils: Desert plain, sandy to sandy clay loam texture, shallow to deep soils.

Climate: Rainfall is low (100 mm) during July and August and temperature ranges between as high as 45-47 °C during April and May and as low as 10 °C in January

Water Resources and Irrigation System : from River Nile. Major Requirements are Pumping unit, canals, or modern Irrigation system (sprinkler, pivot, drip).

Suggested crops: Wheat, , Legumes , Horticulture crops, green fodder, and livestock.

Land Tenure: Land for project , pump site and canal path is secured by state government . Land will be allocated on lease basis at USD 10 per feddan (24 USD /ha)

Implementation Period: 3 years .

Technology Origin: International Standards

Know how & Design Documents: By owner

Estimated Investment Cost: USD 80 millions

Market: Local, regional and international markets

West Debba Project

Project Name: West Debba Project .

Sector: Agriculture .

Location: Debba Locality, Northern State .

Project Area: 50,000 feddan (21000 hectare).

Objectives: Production of 75,000 tones of cereal crops, 150,000 tones of fodder for livestock production in addition to production of other Crops including vegetable and fruits.

Soil: Desert plain, deep sandy soils, sandy clay loam texture, lithic to deep soils.

Climate: Rainfall is less than 100 mm during July and August . Temperature ranges between 45-47 °C during May and June and drop to 10 °C in January.

Water Resources and Irrigation System: Ground water from Nubian Nile groundwater basin. Major requirements are drilling and construction of bore wells, canals, or modern irrigation systems (sprinkler, pivot, drip).

Land Tenure : Land for project , pump site ,and canal path is secured by state government , and Land will be allocated on lease basis USD 10 /feddan (USD 24/ha)

Implementation Period: 3 years .

Technology Origin: International Standards.

Major Requirements: Bore well & Irrigation systems

Market: Local , regional , international .

Know how & Design Documents: By owner ..

Project Investment Cost: USD 80 millions .

East Debba

Project Name: East Debba Agricultural Project .

Sector : Agriculture .

Location: East Debba Locality , Northern State .

Areas: 50,000 fed.

Objectives: Production of 75,000 tones cereal crops , and 150,000 tones fodder and other Crops annually .

Soil: It is predominantly sandy and sandy clay

Climate: The climate is desert with rate of rain fall less than 100 mm, and temperature is estimated as up to 45°at summer and down 15° C in winter

Water Resources and Irrigation System : Ground water from Nubian Nile groundwater basin. Major requirements are drilling and construction of bore wells, canals, or modern irrigation systems (sprinkler, pivot, drip).

Suggested Crops: cereal crops , fodder crops, and livestock.

Land Tenure: Land for project , pump site ,and canal path is secured by state government , and Land will be allocated on lease basis (USD 10/Fedd , USD 24/ha)

Investment Partnership: The Government will contribute land and water rights against % of total shares (will be agreed upon it) .

Component: land development canalization / irrigation system , irrigation machinery and equipment, drilling and construction of wells, agricultural machinery and equipment .

Investment Cost: The total investment of the Project US\$ 80 million (40% local component and 60% foreign component) .

Implementation Period: 3 years .

Technology Origin: International Standards.

Status: new project.

Feasibility Financial Indicators: the expected annual revenue 55%

Finance / Investment Partnership: Joint venture. Market: local , regional ,& international

Hasko Debba

Project Name: Hasko Debba

Location: West Debba Provinces, Northern State .

Project Area: 22,000 fed (9244 hectare).

Objectives: Production of 50,000 tones cereal crops including wheat, and 150,000 tones fodder (like alfalfa and Rhodes) in addition to other Crops like fruits and vegetables.

Soil: Desert plain, sandy loam texture and shallow to deep soils.

Climate: Rainfall less than 100 mm during July and August . Temperature ranges between 45-47 °C during April and May and fall to 10 °C during January.

Water Resources and Irrigation System: Ground water from Nubian Nile groundwater basin. Major requirements are drilling and construction of bore wells, canals, or modern irrigation systems (sprinkler, pivot, drip).

Suggested Crops: cereal crops, fodder crops, and livestock.

Land Tenure: Land for project , pump site ,and canal path is secured by state government , and Land will be allocated on lease basis USD 10 per feddan (USD 24/ha).

Investment Partnership: -The Government will contribute land and water rights against agreed upon percentage of total revenue .

Corporate Social Responsibility: (Investor will develop the area and provide services for local communities)..

Components: land development, canalization / irrigation system , irrigation machinery and equipment, drilling and construction of wells, agricultural machinery and equipment .

Investment Cost: The total investment of the Project US\$ 30 million (40% local component and 60% foreign.

Implementation Period: 3 years .

Technology Origin: International Standards.

Status: new project.

Finance / Investment Partnership: Joint venture.

Market : local, regional & international

Marawi-Nobles Project

Project Name: Marawi-Nobles Project .

Location: Dongla and Goled Locality, Northern State .

Project Area: 100,000 feddan (42017 hectare)

Objectives: Production of 150,000 tones cereal crops including wheat , and 350,000 tones fodder (Alfalfa and Rhodes), Legumes, fruits, vegetables and other Crops annually .

Soil: desert plain, sandy to sandy clay loam texture and shallow to deep soils.

Climate: Rainfall is less than 100 mm during July and August and temperature ranges between 42-43 °C April to June and fall to 11.9 °C in January.

Water Resources and Irrigation System: Ground water from Nubian Nile groundwater basin. Major requirements are drilling and construction of bore wells, canals, or modern irrigation systems (sprinkler, pivot, drip).

Suggested Crops: cereal crops , fodder crops, and livestock.

Land Tenure: Land for project , pump site ,and canal path is secured by state government , and Land will be allocated on lease basis USD 10 per feddan (USD 24/ha).

Investment Partnership: The Government will contribute land and water rights against % of total shares (will be agreed upon it). Corporate Social Responsibility (Investor will develop the area and provide services for local communities).

Components: land preparation , construction and civil work , water facility (canalization / irrigation system , irrigation machinery and equipment, agricultural machinery and equipment purchase,

Investment Cost : The total investment of the Project US\$ 80 million (40% local component and 60% foreign component) .

Implementation Period: 5 years .

Technology Origin: International Standards.

Status :new project.

Feasibility Financial Indicators:- the expected annual revenue 55%

Finance / Investment Partnership: Joint venture.

Market: local , regional ,& international .

Um Jawaseer

Project Name: Um Jawaseer Agricultural Project

Sector: Agriculture

Project Area: 100000 feddan (42017 hectare).

Location: Northern State.

Objectives: Achieving Food Security and rural development. Contribution in increasing trade exchange and economic integration between the tow sides . Wheat, alfaalfa, Rhodes, Maze, Vegetables and fruits are the main crops recommended for this project .

Water and Irrigation System: Ground water from Nubian Nile groundwater basin around wadi El Mugaddam area, where high potential of groundwater occurs. Major requirements are drilling and completion of water wells, canals irrigation systems, or modern irrigation systems. Pivot irrigation system is the most suitable system.

Soil: Desert plain, Sandy to sandy clay loam texture and shallow to deep soils.

Climate: Rainfall less than 100 mm during July and August and temperature ranges between 45-47 °C May and June and fall to 10 °C in January.

Land Tenure: Land needs to be freed from traditional community right.

Suggested Crops: Wheat, Sorghum , Legumes , green fodder, Vegetables fruits and livestock .

Components: Canalization / advance irrigation system , irrigation machinery and equipment) , agricultural machinery and equipment .

Investment Cost: The total investment of the Project US\$ 100 million .

Implementation Period: 7 years (three phases) .

Technology Origin: International Standards .

Status: new project.

Production Size: the expected annual production 250,000 tones Wheat , and 350,000 tones fodder, Legumes and other Crops.

Feasibility Financial Indicators: the expected annual revenue 55%

Finance / Investment Partnership: Joint venture.

Market: domestic, regional and international markets.

Abu Ahmed Agricultural Project

Project Name: Abu Ahmed project for agricultural and animal production .

Project Area: 100,000 feddan (42017 hectare).

Location: Northern State.

Objectives: beside providing adequate profit to the investor, the project will contribute to food security, availing job opportunities to the people of the area, increasing the agricultural sector contribution to the country GDP, increasing the country's exports of meat and fodders and effectively contribute to environmental protection.

Soil: Various configurations restore the flow of large amounts of sand that carry more than sand stone .

- Climate: is desert with rate of rain fall less than 100 mm, and temperature is estimated as up to 45° at summer and down 15° C in winter

Water Resources and Irrigation: Ground water is available in huge amount is estimated 4.3 milliard cubic meter. usage underground water as the location has potential sources of underground water of good are transported so the Pivot irrigation system is the most suitable system

Land: For farm pump secured by owner .

Crops: Could be raised under irrigation round the year . Suggested crops include : nuts-sunflower – sorghum – soybeans maize .

Components: Contains land Development including bore wells , pivots , agricultural equipment & construction of Processing facilities

Suggested production Relations : Investor finances production from land preparation till harvest and buy crops from farmers .

Investment Cost : USD 100 million.

Implementation period: 5 – 10 Years

Technology Origin: International Standards

Status: the project pilot farm in operational .

Finance: utilizing soft loan or Joint venture .

Market: National , Regional and international.

Wadi Halfa Fisheries

Project Name: Wadi Halfa Fisheries.

Sector: Agriculture .

Location: Northern State .

Objectives : Utilization of fish reserves in Nuba Lake to produce 2000 tons of fish and 7000 tons of fish powder per year .

Components:

1. Fish cold store of minus 10 deg c.
2. Freezing room of minus 40 deg. C.
3. Ice factory 20 tons / day .
4. Fish receiving hall .
5. Fishing boats & fishing nets .

Suggested Production Relations: Investor will do rehabilitation and operate project in partnership with State Government . Willing investor can take project on rental basis .

Investment Cost : USD 10 million.

Implementation Period: 1 year .

Technology Origin: International Standards.

Status: Project established with International Standards technology, needs to be restarted.

Market: National, Regional and international.

River Nile State Projects

Al- Hwad - Valley – Project

Project Name: Al- Hwad- Valley Agricultural Project

Sector: Agriculture

Project Area: 2.4 million fed from which phase one 240,000 feddan (101000 hectare) .

Location: River Nile State .

Objectives: production of 200,000 tones of Wheat , and 250,000 tones fodder, Legumes and other Crops (Sorghum, Maze, alfalfa, Rhodes, Vegetables, Fruits and livestock)

for local consumption and export.

Soil: desert plain, sandy to sandy clay loam, non-saline, non-sodic and lithic to deep soils.

Climate: Rainfall ranges between 100-225 mm during July and August. Temperature ranges between as high as 40-42 °C during May and June and as low as 13-16 °C January

water resources and Irrigation: River Nile, rain water harvesting, wadis. Major Requirements are pumping unit, canals or modern irrigation systems (sprinkler, pivot, drip) , water harvesting structures.

Land Tenure: Land for project , pump site ,and canal path secured by state government

Investment Modality: The investors can partner with the -Government as a joint venture. The Government, secures land and irrigation water. The investors ensure finance and take active roles in joint operation and management of the project.

Components: canalization ,advance irrigation system , irrigation machinery and equipment ,and land preparation .

Investment Cost: USD 200 million ..

Implementation Period: 7 years project will be implement in three phases) .

Technology Origin: International Standards.

Status: New project.

Finance / Investment Partnership: Joint venture.

Market: local, regional and international

Wad hamid agriculture project

Project Name: Wad hamid agriculture project

Sector: Agriculture

Areas: 120,000 feddan (50420 hectare).

Location: ,River Nile State .

Objectives: production of 250,000-ton field crops, 150,000-ton horticultural crops and livestock. The main targeted products include wheat, maize, alfalfa, Rhodes and livestock

Soil: desert plain, sandy to sandy loam texture, non-saline and non-sodic.

Climate: Rainfall ranges between 100-225 mm during July and August and temperature ranges between as high as 40-42 °C during May and June and as low as 13-16 °C during January

Water Sources and Irrigation: Ground water from Nubian Nile groundwater basin. Major requirements are drilling and completion of water wells, canals irrigation systems, or modern irrigation systems. Pivot irrigation system is the most suitable system.

land Tenure: Land for project is secured by state government .

Investment Partnership: Public Private Producers Partnership:

- The Government will contribute land and water rights against % of total shares (will be agreed upon it) .

Components: Canalization / advance irrigation system , irrigation machinery and equipment), agricultural machinery and equipment

Investment Cost: USD 230 million.

Implementation Period: 5 years (three phases) .

Technology Origin: Investor .

Status: new project.

Feasibility Financial Indicators: the expected annual revenue 55%

Finance / Investment Partnership: Joint venture.

Market: local, regional & international

Lower Atbara Agriculture Project

Project Name: Lower Atbara Agriculture Project

Sector: Agriculture

Areas: 1,062,860 fed.

Location: , River Nile State .

Objectives: Production of 250,000-ton field crops (sorghum, maize) and 150,000-ton horticultural crops (fruits and vegetables) and livestock.

Soil: Sandy to clayey Texture, lithic to deep soils.

Climate: Rainfall ranges between 100-225 mm during July and August and temperature ranges between as high as 40-42 °C during May and June and as low as 13-16 °C during January

Water Sources and Irrigation: River Nile, rain water harvesting, wadis, and stock of ground water from Atbara groundwater basin. Major Requirements are pumping unit canals, modern Irrigation systems (sprinkler, pivot, drip) , water harvesting structures, drilling and completion of bore holes.

Land Tenure: Land for project , pump site ,and canal path will be secured by state government

Investment Partnership: Public Private Producers Partnership:

- The Government will contribute land and water rights against % of total shares (will be agreed upon it) .

Components: Canalization / advance irrigation system , irrigation machinery and equipment), drilling and construction of wells, agricultural machinery and equipment .

Investment Cost: USD 2300 million.

Implementation period: 7 years (three phases) .

Technology Origin: International Standards .

Status: new project.

Feasibility Financial Indicators: the expected annual revenue 55%

Finance / Investment Partnership: Joint venture.

Market: local , regional & international

Khartoum State Projects

Hashim Ali .Mohamed Khair

Project Name: Hashim Ali .Mohamed Khair

Project Owner: HASHIM ALI MOHAMED MOHAMED KHAIR

Project Objectives: Meat production - Agro – Industry – feedlot + poultry production + Agriculture

Project Sector: Industry – Agro – industry

Project Capacity: Slaughter 90,000 cows / Year + 600,000 sheep/year + poultry Chicken 3,000,000/Year , Egg 85,000,000/Year , Animal feed 4,800 Ton/ Year

Location: West-Omdurman – Elmiwalih- central market live stock

Cost (Budget): Slaughter 7,975,000 \$ + 72,568,000 S.P poultry

Time frame: 7 Years

Feasibility Financial Indicators: Agro – industry – meet process + deboned- cutting for export Added value + regional and international market: ROI, 1st Year 1,243,000 \$ profit - up to 6 Year 1,658,000 \$ etc, PBP4 – 5 Years from starting project

IRR19.6 % in meat production net profit

Market : Export regional and around world –local market

Pre-feasibility Study

Final Feasibility Study

Project Status About 15 % ready electricity – water – land-fens – store

Gezira State projects

Ihimrat-Hi-Tech. Park

Project Name: Ihimrat-Hi-Tech. Park

Sector: Agriculture

Location: Gezira state.

Project Area: 52. 000 fed (21850 hectare).

Objectives: production of sorghum, wheat ,cotton, fruits, vegetables, legumes, fodders and livestock for local market and export .

Soil: Clay plain, black cotton soils and deep soils .

Climate: Rainfall ranges between 250-300 mm during July, August and September. The temperature ranges between as high as 40-41.5 °C during May and June and as low as 14.1 °C during January

Water Source and Irrigation: Water resources are from the Blue Nile. Major Requirements are pumping station and supply canal of 13 kilometer length needs to be constructed, canals or modern irrigation systems (sprinkler, pivot, drip).

Land Tenure: Under settlement

Components: the Project is to plant cotton in areas of 20,000 ha (52,000 fed) in irrigated sector (Contains land preparation , construction of ginning factory, water facility (canalization / irrigation system), camp and agricultural machinery and equipment .

Investment Cost: The total investment of the Project US\$500 million.

Status: new project.

Implementation period: 10 years .

Technology Origin: International Standards .

Investment: Partnership , BOAT share cropping .

Market: Local regional and international .

Shukkaba Dairy Project

Project Name: shukkaba dairy project

Location: Gezira state 180 km south Khartoum .

lands are irrigated from Geziera scheme

Description

The project is a research station specialized in dairy local cattle characterization and dairy production.

Project Area: 310 feddan (130 hectare)

Water Source and Irrigation: from the River Nile.

Objectives: Upgrading of local dairy cattle to produce 12000 Tonnes of milk annually.

Components: Construction of dairy plant, milking parlor ,Rehabilitation of irrigation canals, importing 1000 pure Friesian cows, establishment of feed mill ,Workshop ,Veterinary clinic and diagnostic lab & artificial insemination unit

Estimated Cost: USD 25 million.

Estimated Cost: US\$ 25 MILLION

Contact: Animal production research Centre

P.O. 1355Box : Khartoum North

Phone : 249 185381148 –249915128889 -249912533443

E- mail : arahmanmag@yahoo.com

Sinner State projects

Al Fayha Agricultural Project

Location: Sennar State .

Sector: Agriculture

Area: 100.000 feddans

Objectives: Development of land For Irrigated agricultural production.

Soil: Black cotton soil

Climate: Poor savanna zone rain fall 300-700 mm

Water and Irrigation: Water resources are from the Blue Nile. Major Requirements are pumping unit and irrigation systems from River, canals, modern irrigation systems (sprinkler, pivot, drip).

Suggested crops: oil crops , cotton

Land tenure: Land leased by company .

Project capacity: Development of phase 2 at a cost of US\$ 33 MILLIONS.

Implementation period: 3 years .

Technology origin : International Standards .

Major Requirements : Pump house Pumping Units , Canals & buildings

Feasibility indicators : Agricultural production food crops , fodder crops animal products .

Market : local ,regional , international .

Know how & design Documents : To be made By owner .

Status : Phase 1 Of 10.000 feddans under operation .

Estimated Development Cost : USD 33 millions .

Tel. 249183470478 - Fax :249183470476 P.O.Box 10618 Khartoum Sudan .

E.Mail :alfayha8@gmail.com

AL-Guziara Agricultural Project

Project name: AL guziara Agricultural Project

Areas: 100 feddans.

Location: Sennar State .

Objectives: To establish anew plantation including 140,000 ha 80,000 of cotton plus. The targeted other products include Sorghum, Cotton, Sunflower, Groundnut, soybeans, Vegetables, fruits and livestock.

Soil: Clay plain, black cotton soils and deep soils

Climate: Rainfall ranges between 300 to 600 mm during July, August and September and temperature ranges between as high as 41-42 °C during April and May and as low as 14 °C in January..

Water and Irrigation: Ground water is scarce. Irrigation depends on Blue Nile water. Major Requirements are pump station need to be constructed, supply canal 132 Kilometer needed. Irrigation system is from River Nile, canals or modern irrigation systems (sprinkler, pivot, drip).

Land: for both pump site and canal path is secured .

Crops: could be raised under irrigation round the year . Suggested crops include cotton – ground nuts- sunflower – sorghum – soybeans maize --

Investment: expected to be partnership where by Government will contribute land and water rights against 30 % of total shares . Investor will hold 70 % .

Production: 70% OF area will be planted by investor 30% will be planted by selected local farmers.

Component: (Contains land Development , agricultural equipment & construction of Processing facilities

Cost (Budget): US\$4 billion.

Implementation period: 10years.

Technology Origin: International Standards .

Status: New project

Finance: Joint venture .

Market : National , Regional and international.

Umberien Dairy Project

Project Name: Umberien Dairy Project

Location : Sennar state 400 km south Khartoum

Description

The project is a research station specialized in dairy local cattle characterization and dairy production.

AREA :2150 feddan which could be irrigated from the river.

Objectives: Upgrading of Local dairy cattle, Constructing Dairy Association, Extension Services, targeted 18000 Tons of Milk annually.

Components:

- Irrigation platform and f irrigation canals & Pivot ,3000 Friesian crosses cows (62.5%), Feed stuffs
- Rehabilitation of fences, stores , houses and offices Construct fences and milking parlor
- Construction of dairy plant

Estimated Cost : US\$ 25 MILLION

Contact : Animal production research Centre

P.O. 1355Box : Khartoum North

Phone : 249 185381148 –249915128889 -249912533443

E- mail : arahmanmag@yahoo.com

AL-Nwrania Agricultural Project

Project name: AL Nwrania Agricultural Project .

Areas: 250,000 fed (105,000ha).

Sector: Agriculture .

Location: Sennar State .

objectives: To establish anew plantation including 105,000ha of cotton plus other crops . Other possible products include Sorghum, Sunflower, Groundnut, soybeans, Vegetables, Fruits and Livestock.

Soil: Clay plain, black cotton soils and deep soils

Climate: Rainfall ranges between 300 to 600 mm during July, August and September and temperature ranges between 41 °C during April and May and 16 °C in January.

Rain fall: About 250 mm per year .

Water and irrigation: Ground water is scarce. Irrigation depends on water from the Blue Nile. Major Requirements are pump station need to be constructed on Blue Nile, supply canal 6 Kilometer from the proposed Scheme. Irrigation system is from River Nile, canals or modern irrigation systems (sprinkler, pivot, drip).

Land: For project , pump site and canal path is secured by state government .

Crops: could be raised under irrigation round the year . Suggested crops include cotton – ground nuts- sunflower – sorghum – soybeans maize -----

Component: (Contains land Development , agricultural equipment & construction of Processing facilities

Cost (Budget): US\$100 millions

Implementation period:

Technology Origin: International Standards .

Feasibility / Status: new project

Finance: utilizing soft loan or Joint venture .

Market: National , Regional and international

AL nairah Complex

Project name: ALnarah Complex .

Sector: Agriculture

Areas: (30,000 fed). Can be increased (50,000 fed)

Location: Sennar state, Singa, south east of Khartoum .

objectives: Realization of food security -Better use of land &water by diversification of crops production . Cotton, Sorghum, Groundnut, Sunflower, Vegetables, Fruits and Livestock are the most suitable products for this project..

Soils: Clay plain, black cotton soils and deep soils

Climate: Rainfall ranges between 300 to 600 mm during July, August and September and Temperature ranges between as high as 42 °C during April and May and as low as 16 °C in January

Irrigation: The Blue Nile is the main water source for irrigation requirement. Major Requirements are pumping unit canals or modern irrigation systems (sprinkler, pivot, drip).

Crops: Include mainly sunflower, Horticultural crops, sesame, cotton, in addition to livestock.

Component: Agricultural Machinery & equipment -Irrigation net work – Livestock - Building & construction.

Cost (Budget): US\$ 13 million .

Implementation period: 25 years.

Technology Origin: International Standards .

Feasibility / Status: Rehabilitation

Finance: utilizing soft loan or Joint venture .

Market: National , Regional and international.

Wad Hasham and Mairunohat Complex

Project name: Wad Hasham and Mairunohat Complex .

Sector: Agriculture .

Areas: (30,000 fed). Can be increased (50,000 fed)

Location: Sennar state, Wad Hasham

objectives: Realization of food security -Better use of land &water by diversification of crops production . Sorghum, cotton, Ground nut, Sunflower, Soybean, Vegetables, fruits and Live stock are the most relevant for this project.

Climate: Rainfall ranges between 300 to 600 mm during July, August and September and Temperature ranges between as high as 42 °C during April and May and as low as 14 °C in January

water and Irrigation: Water resources are from the Blue Nile River. Major Requirements are pumping unit, canals or modern irrigation systems (sprinkler, pivot, drip).

Soils: Clay plain, black cotton soils and deep soils

Crops: includes mainly sunflower, Horticultural crops, sesame, cotton, in addition to livestock.

Component: Agricultural Machinery & equipment -Irrigation net work – Livestock - Building & construction.

Cost (Budget): US\$ 19 million .

Implementation period: 20 years .

Technology Origin: International Standards .

Feasibility / Status: Rehabilitation

Finance: utilizing soft loan or Joint venture .

Market: National , Regional and international.

White Nile State

Umjalala Agricultural project

Project Name: Um jalala Agricultural Project

Section/ Sector: Agriculture .

Areas: 120,000 fed (50.400ha).

Location: White Nile state .

objectives :- To establish anew plantation including 120,000 fed crops. Cotton, Sorghum, Sugar, Maize, Ground nut, Sunflower, Soybean, Vegetable and livestock are the main suitable for this project.

Soils: Clay plain, sandy clay loam to clayey texture and deep soils

Climate: Rainfall ranges between 350 to 600 mm during July, August and September and Temperature ranges between as high as 41.2 °C during April and May and as low as 16 °C in January

water and Irrigation: Water resources are from the White Nile using pumps. Seasonal irrigation depends on the regulation and operation of Jabel Awlia Dam. Major Requirements are pumping unit and irrigation systems from River, canals or modern irrigation systems (sprinkler, pivot, drip) .

Crops: could be raised under irrigation round the year . Suggested crops include cotton – sugar - ground nuts- sunflower – sorghum – soybeans maize and oil seeds

Components: (Contains land Development , agricultural equipment & construction of Processing facilities

Investment Cost: USD 160 millions.

Implementation Period: 6 years.

Technology Origin: International Standards .

Feasibility / Status: Rehabilitation

Finance: utilizing soft loan or Joint venture .

Market: National , Regional and international.

Alentisar Complex Agricultural Project

Project Name: Alentisar Complex Agricultural Project .

Sector: Agriculture

Project Area: 150,000 fed (63.000ha).

Location: White Nile State .

objectives: To establish anew plantation including 150,000 fed (63.000ha) crops (Sorghum, Sunflower, Ground nut, Sugar, Vegetables) and Livestock.

Soils: Clay plain, clayey texture and deep soils

Climate: Rainfall ranges between 350 to 600 mm during July, August and September and Temperature ranges between as high as 41.2 °C during April and May and as low as 16 °C in January

Water sources and irrigation System: Ground water is scarce. Irrigation depends on seasonal rain fed 350 -550 mm /year and White Nile. Seasonal irrigation from river depends on the regulation and operation of Jabel Awlia Dam. Major Requirements are pump station of Alentisar Complex Agricultural Project, canals or modern irrigation systems (sprinkler, pivot, drip).

Crops : Could be raised under irrigation round the year . Suggested crops include cereal crops, cotton, sugar cane ,Legume crops ,fruits and vegetables as well as animal production

Components: (Contains land Development , agricultural equipment & construction of Processing facilities

Investment Cost: US \$750 million .

Implementation Period: 5 years.

Technology Origin: International Standards .

Feasibility / Status: Rehabilitation

Finance: utilizing soft loan or Joint venture .

Market: Local, National , Regional and international.

Kassala State Projects

Gash River

Project Name: Gash River Integrated Water Resources Management

Project Objectives: Drinking water supply, Irrigation, flood protection

Project Sector: water harvesting

Project Capacity: Small

Location: Kassala State

Investment Cost: 100 million Dollars

Time Frame: 3 years

Contact Information:

Red Sea State Projects

Red Sea fishing Project

Project Name : Red Sea Trawling Project

Introduction: Many sources of information rank Sudan as number one of the African as well as the Arabian countries regarding natural resources particularly water, animal resources and fisheries. And there are tow type of fishing in the River Nile (fresh water) , sea fishing in the Red Sea ,the Sudanese coast about 720 km long. The flat area of water about 91600 km square. the fish stock estimated by 10000 ton \ year .

Fishing area: The fishing area about 10 km from the red sea coast

Investment opportunity: International Standards Partnership in the Trawling between the tow countries (50% for each)

The permissible amount of maritime fishing by 500 tons per year which represent 55% form fish stock.

Fishing Boats specifications:: Fishing boats from fiber or iron lengths ranging between 25-30 meter. And there are 5 Fishing voyages in the season fishing season starts from the December until may of each year . one baot production 30 tons in each fishing voyage 15 boats allowed for fishing during the season.

The main type of marine : there are different types of marine eg : tarpon , giant herring , salmon herring ,milkfish, solder fish and goggle eye.

Fishing and Fish processing

Project Name: Fish Fishing and processing

Project Objectives: food and nutritional security, Save hard currency, Increase Exports

Project Sector: industry

Project Capacity: 12000 ton of various species of fish.

Location: Red Sea State, head quarter

Investment Cost: 66 Million Euro, Time Frame: 2Yrs

Feasibility Indicators: ROI=52%, PBP=1.5 years, IRR=46.2%, feasibility study is available.

Market: National and regional

Baraka Valley

Project Name: Baraka Valley Integrated Water Resources Management

Project Objectives: Drinking water supply, Irrigation, flood protection.

Water and irrigation: Water harvesting from Khor Baraka, flood irrigation and groundwater from the alluvium aquifer. ,Major Requirements are, water harvesting structures), canals or modern irrigation systems (sprinkler, pivot, drip) , drilling and construction of bore holes.

Project Capacity: Medium

Location: Red Sea State

Investment Cost: USD 50 Million

Time frame: 3 years

Contact Information:

Awataib Valley

Project Name: Awataib Valley Integrated Water Resources Management

Project objectives: Drinking water supply, Irrigation

Water and irrigation:

Project sector: Water harvesting

Project capacity: small

Location: Red Sea State

Investment Cost: 500,000 Dollars

Time frame: 7 months

Project status: New studies for (2 small dam+2 hafirs + diversion canal)

Contact Information

Northern Kordofan State Projects

Um Indiraba

Project Name: 13-Um Indiraba

Project Area: 50,000 fed (21000 hectare).

Location: North Kordfan State.

Objectives: Raising food crops for local consumption and export. The recommended cropping pattern include Sorghum, Wheat, Maze, legumes, Soybean, Ground nut and Livestock

Achieving rural development.

Production Size: Production of 50,000 tones Wheat , and 150,000 tones fodder and other Crops annually .

Soil: Clayey soil texture and non- saline

Climate: Rainfall amount to 250 mm in July and August and temperature ranges between 42-44 °C during May and June and fall to 16 °C January.

Water Sources and Irrigation: Ground water from Nubian Nile groundwater basin. Major requirements are drilling and construction of water wells, canals irrigation systems, or modern irrigation systems (sprinkler, pivot, drip).

green fodder, soybeans, maize , Fruits , vegetables livestock .

Land of Energy : Diesel / Solar energy.

Components: Land Development including irrigation structure or bore wells +field irrigation equipment

Investment Cost: US\$80 million.

Implementation Period: 7 years (three phases) .

Technology Origin: International Standards .

Status: new project.

Investment Partnership: The Government will contribute and water rights against % of total shares (will be agreed upon it) . Investor will develop the area and provide services for local communities .

Direct Investment: According to the social responsibility the investor will provide services for local communities

Invested through Land Development : Investor will develop the The land . Certain %(will be agreed upon it will be operated by local farmers against rent or crop sharing Government directives .

Feasibility Financial Indicators: the expected annual revenue 55%

Finance / Investment Partnership: Joint venture.

Market: National , Regional & International market.

Darfur Projects

Um Bayadh Agricultural Project

Project Name: Um Bayadh Agricultural Project .

Sector : Agriculture

Project Area : 210,000 fed (88.200ha).

Location: North Dar Four State ,between 26-27E , 14-15 N .

Objectives : To establish a new plantation including 210,000 fed (88.200ha)crops. The possible crops include Sorghum, Millet, Vegetables , fodders and Livestock.

Soil : Sandy to Clayey texture.

Climate: Rainfall ranges between 100 to 225 mm during July, August and September and Temperature ranges between as high as 40-42 °C during April and May and as low as 14 °C in January

Water Sources and Irrigation System: Ground water : is available . rain fall about 100-225mm/year. Rain fall about 100-225 mm/year. Irrigation depends on seasonal flood from local small wadis, ground water and water harvesting from seasonal rivers. Major Requirements are, drilling and construction of water wells, canals, modern irrigation systems (sprinkler, pivot, drip) and water harvesting structures. Irrigation is also possible from ground water.

Components: (Contains land Development , agricultural equipment & construction of Processing facilities

Investment Cost: USD 200 million .

Implementation Period: 10 years.

Technology Origin: International Standards .

Feasibility / Status: Rehabilitation

Finance: utilizing soft loan or Joint venture .

Market: National , Regional and international

Abu Hamra Agricultural Project

Project Name: Abu Hamra Agricultural Project .

Sector: Agriculture

Project Area: 65,000 fed (27.300ha).

Location: North Darfur State .

Objectives : To establish anew plantation including 65,000 fed (27.300ha). Crops include sorghum, Millet, Vegetables and Livestock.

Soil Sandy to Clayey texture

Climate: Rainfall ranges between 100 to 225 mm during July , August and September and Temperature ranges between as high as 40-42 °C during April and May and as low as 14 °C in January

water Sources and Irrigation: Ground water is scarce. Wadi Abu Hamra is located at the confluence of Wadi EL Ku with a runoff discharge of 4.7Mm³.Irrigation depends on seasonal flood (10% of the total area), and water harvesting from seasonal rivers and rain fall about 100-225 mm/year. Irrigation depends on seasonal flood from local small wadis, ground water and water harvesting from seasonal rivers. Major Requirements are canals or modern irrigation systems (sprinkler, pivot, drip) and water harvesting structures

Crops: could be raised under irrigation round the year . Suggested crops include cereal crops ,Legume crops ,fruits and vegetables .

Components: (Contains land Development , agricultural equipment & construction of Processing facilities

Investment Cost: USD 41.498.171.

Implementation Period: 5 years.

Technology Origin: International Standards .

Feasibility / Status: Rehabilitation

Finance: utilizing soft loan or Joint venture .

Market: National , Regional and international

Sag Elniaam Agricultural Project

Project Name: Sag Elniaam Agricultural Project .

Sector: Agriculture

Project Area: 156,000 fed (65,520ha).

Location: North Darfur State .

Objectives: To establish anew plantation including 156,000 fed (65,520ha) crops . Sorghum, Millet, Vegetables and Livestock are suitable for this project.

Soil: Sandy to clayey soils

Climate: Rainfall ranges between 100 to 225 mm during July , August and September and Temperature ranges between as high as 40-42 °C during April and May and as low as 14 °C in January

Water and irrigation: Irrigation depends on Ground water from Sag Elniaam groundwater basin, water harvesting from seasonal wadis, rain water 250mm/year. Major Requirements are, drilling and construction of water wells, canals, modern irrigation systems (sprinkler, pivot, drip) and water harvesting structures.

Crops : could be raised under irrigation round the year . Suggested crops include cereal crops ,Legume crops ,fruits and vegetables and animal production.

Components: (Contains land Development , agricultural equipment & construction of Processing facilities

Investment Cost: USD 82 Millions .

Implementation Period: 5 years.

Technology Origin: International Standards .

Feasibility / Status: Rehabilitation

Finance: utilizing soft loan or Joint venture .

Market: National , Regional and international.

Kaja Valley

Project Name: Kaja Valley Integrated Water Resources Management

Project Objectives: Drinking water supply, Irrigation, Hydropower

Water and irrigation:

Project Sector: Water harvesting

Project Capacity: small

Location: West Darfur

Investment Cost : USD 600,000

Time Frame: 8 months

Project Status: New studies for (3 small dam +7 hafirs + deep wells + hydropower generation potential)

Contact Information:

Nyala Valley

Project Name: Nyala Valley Integrated Water Resources Management

Project Objectives:.. Drinking water supply, Irrigation

Water Sources and irrigation System:

Project Sector: Water harvesting

Project Capacity: Medium

Location: South Darfur

Investment Cost: USD 20 million

Financial Indicators: IROI 12%, PBP 10years

Time frame: 2 yrs

Project status.: Implementation new projects (3 small dams + 10 hafirs), study of hydropower electrical potential

Joint Projects between States

Rahad River

Project Name: Rahad River Integrated Water Resources Management

Project Objectives: Drinking water supply, Irrigation, flood protection, Hydropower

Water Sources and irrigation System:

Project Sector: Water harvesting

Project Capacity: small

Location: Sennar, Gadaref, Gezira States

Investment Cost: 900,000 Dollars

Time Frame: one year

Project Status: New studies for (Extension of Agricultural potential area + hydropower generation potential)

Kenana Project

Project Name: Kenana & Rahad Irrigation Project (Kenana I , II , III Projects)

Project Objectives: Provide food for humans in Sudan and region, Using the latest methods to raise productivity. Optimization of water through modern irrigation.

Water Sources and irrigation: Water resources from the Blue Nile is already secured .Major Requirements are, canals and modern irrigation systems (sprinkler, pivot, drip) ,

Project Capacity:620,000 feddan

Location: The area between Roseires dam project and Jazeera project, right bank of the Blue Nile

Cost (Budget):1,600.0 million dollars

Final feasibility studies, tender document & design are available.

Time frame:7 years

Project Status: Waiting for finance and Implementation

Rahad Agricultural Cooperation Development Zone Rahad ACDZ

Project Name: 1.2 Rahad Agricultural Cooperation Development Zone (Rahad ACDZ).

Project Area: 5,000 fed

Section/ Sector: Agriculture / Agro- process Industry.

Location: Rahad Scheme.

Soils: Clay plain, black cotton soils and clayey texture.

Climate: Rainfall ranges between 250 to 300 mm during July and August and temperature ranges between as high as 42 °C during May and June and as low as 14 °C in January

Objectives: promote scientific research and innovation for establishment of the market-oriented, technology-based and industrial chain development for completion of an industrial chain of cotton research. Cotton, Sorghum, Sunflower, Groundnut, Vegetables, Fruits and Livestock

Water Sources and irrigation: Water resources are from the Blue Nile and already secured from the Rahad project.

Components: A agricultural machinery and equipment, water facility, industrial plant , machinery and equipment , technical and know how training, technical innovation, and to build platforms for turning technical achievements into production

Investment Cost: US\$20 million.

Implementation Period: 10years .

Technology Origin: International Standards .

Feasibility / Status Framework Agreement on Cooperation of International Standards -Sudan preliminary feasibility Study.

Finance: utilizing International Standards soft loan.

Market: National and Regional.

Remarks/ objectives: promote scientific research and innovation for establishment of the market-oriented, technology-based and industrial chain development for completion of an industrial chain of cotton research, planting and processing

Abu Habil

Project Name: Abu Habil Valley Integrated Water Resources Management

Project objectives: Drinking water supply, irrigation

Water Sources and irrigation: Water harvesting from Khor Abu Habil and rain water, Major Requirements are, water harvesting structures (construction of three dams total capacity of 100 million cubic meters), canals or modern irrigation systems (sprinkler, pivot, drip).

Project sector:

Project capacity: Medium

Location: North Kordofan, South Kordofan, White Nile

Cost (Budget): 100 million Dollars

Time Frame: Abu Habil Valley Integrated Water Resources Management

Project Status: Implementation and studies for new projects (3 small dams + 4 hafirs+ deep wells + diversion canal), rehabilitation for the existing projects.

Contact Information

Azoom Valley

Project Name: Azoom Valley Integrated Water Resources Management

Project objectives: Drinking water supply, Irrigation

Water and irrigation: Water harvesting

Project Capacity: Medium

Location: West Darfur and Central Darfur

Investment Cost: 30 million Dollars

Time frame: 2 yrs

Project Status.: Implementation new projects (3 small dams + 6 hafirs + deep wells), rehabilitation the existing projects , study for hydropower generation potential

Contact Information:

Projects of Arab Authority for Agricultural Investment and Development

Arab Sudanese Blue Nile Agricultural Company

Status: Existing.

Location: Agadi area, Blue Nile state, 570 km to the South of Khartoum (N 1148.311-E 03404.149)

Project Area: Approximately 219,000 feddan (92,000 Hectares)

Land Ownership: Secured by the company.

Soil: Fertile , heavy clay

Water Sources and Irrigation: Rain fall ranges between 500-800 mm per year and Ground water is available.

Objectives and Products: Cotton, sorghum, sunflower, maze, millet and gum Arabic

Rain fed cultivation of cotton, sorghum, sunflower, maze, and millet.

Full production capacity: 219,000 Feddan.

Components: Agricultural Land, Agricultural Equipment and structures.

Available Investment Opportunities:

Implementation of a 30 KM irrigation canal from the Blue Nile to the project in order to top up rain fall and to allow utilising the land during the winter season.

Providing additional capital to support the procurement of agricultural equipment.

Allowing full exploitation and diversification of agricultural and other production activities by providing working capital.

Implementation period: 3 years. Market: Local & foreign markets (exports).

Feasibility study: Available. Required additional investment cost: USD 300 million (USD 250m for the canal & USD 50m for the implementation of the expansion and the diversification plan).

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Fax: +2499-183-741002, Khartoum, Sudan, E-mail: asbanco@yahoo.com

Arab Sudanese Seeds Company (ASSCO)

Sector and Status: Sudanese agricultural Sector., existing.

Location: Distributed over 4 direct production and 2 contracting production stations.

Project Area: 10600 feddans.

Land ownership: Secured by the company.

Soil: Various clay and sand configurations.

Water Sources and Irrigation System: Rain fall ranges between 300-800 per year. Irrigation: Landscape and irrigation from the river Nile.

Crops: Wheat, millet, Groundnut, sunflower, Sesame, Sorghum, Maize and some vegetables.

Components: three components namely Agricultural farms, warehousing and Riddling & Packing.

Objectives and Products:

Production of approximately 14,500 tons/year in order to produce improved seeds of some selected strategic crops and vegetables.

Production of hybrid seeds for sunflower and other crops.

Investment Opportunities: To develop production and propagation of seeds technology for major crops (hybrid seed varieties, tissue technology etc.). Provision of pivot and drip irrigation systems, provision of modern agricultural equipment for expansion of existing activities, establishing a Quality control lab. And packing and filling plant.

additional Investment Required : USD 50m.

Implementation period: 3 years.

Viability Indicator: feasibility study is available.

Investment relationship: equity capital / soft loans / joint venture.

Contact Addresses : Fax: +2499780439, Tel: +2499183787681, e-mail: asscoseed@hotmail.com

web site: www.asscoseed.com

Arab Sudanese Vegetable Oil Company (ASVOC)

Sector and Status : Sudanese Agricultural Industrial. Existing project

Location: Khartoum North, Industrial Area.

Project Area: 90,000 square meters.

Land Tenure: Secured by the company.

Objectives: The company aims to produce vegetable oils, cakes, soap and glycerine to meet local demand and to export part of its output.

Components, Products & Production Capacity: The Company crushes various oil seeds (cottonseeds, sunflowers, and groundnuts), refines its own production as well as others, and owns a bottling production unit. Oil mill: Oil seeds crushing capacity of 75,000 tons/year, Oil refinery: refinery capacity 18,000 tons/year. Packing and filling: 2 production line with a capacity of 18,000 tons/year. Soap & glycerin production. 2 production line with a capacity of 18,000 tons/year. Other supporting facilities

Technology Origin: Desmet – Germany.

Rehabilitation study: Available.

Available Investment Opportunities:

The introduction of a chemical solvent extraction plant to increase the proportion of oil extraction and thus increasing the crushing capacity.

Completion of production chain in order to exploit the full production capacities by establishing an agricultural project to supply the required quantity of inputs of oilseeds or securing a joint venture with an existing one.

To expand the oil refining and packing capacities from 18,000 to 50,000 ton by introduction of additional refinery and packing plant.

additional investment cost Required : USD 50 M.

Investment relationship: Equity capital / soft loans / joint venture.

Contact Address : P.O. Box 64, Khartoum North, Sudan, Fax: 00249-185-331644/00249-185-33506, Tel: 00249-185-335162/00249-185-339422

Arab Poultry Production and Processing Company-Sudan

Sector: Sudanese Agricultural industrial

Status: Existing

Location: Located 35 km to the South of Khartoum in Taibat al-Hasanat area.

Project Area: 5000 feddans.

Soil: sandy loam

Land ownership: Secured by owner.

Objectives ,Products & Capacities:

Production of broilers and table eggs as follows:

Breeders farms: producing 4.5 million hatching eggs a year.

Broilers chicken farms: 4.4 million chicks a year.

Egg chicken farms: 15 million table eggs/year.

Hatchery house: 4.5 million chicks/year

Butchery: 3000 Birds/hour.

Investment Opportunities:

To undertake the implementation of the expansion plan to raise the production capacity from 4.5 million to 20 million birds through the modernization of the breeding system and the creation of sheds and increase hatchery and the slaughterhouse capacities, and the diversification of the company's products.

Market: Local & foreign.

Investment Cost: USD 30 m

Investment relationship: Equity, Soft loan or Joint venture.

Contact Address : Tel: +249-155152023., Fax: +249-155151142, Khartoum, Sudan

Red Meat Production, Processing and Marketing

Sector: Animal production.

Status: Existing

Location: West Omdurman , Baggier & Gezera Province.

Project Area: 15000 feddan.

Land ownership:

Soil : sandy loam .

Water Sources & Irrigation: using underground water L pivot irrigation is most suitable one.

Objectives :

Contribution to the achievement of food security in red meat.

Availability of jobs opportunities to the people of the area.

Increasing the agricultural sector contribution to the gross domestic product.

Increasing the country's exports of meat and fodders.

Project Concept:

The main concept is to develop a commercially profitable livestock and meat processing enterprise. the main approach is to diversify the technical and the economical activities which will consist of:

Livestock collection, fattening and trade for local and export markets.

Processing of red meat to produce red meat cuts and further processed products such as sausage hamburger, etc.

Exports of live sheep to Saudi Arabia, and live cattle to Egypt.

Project Market Share: The Project is expected to produce 200,000 sheep, 45000 cattle and 10,000 ton of cut chilled cattle meat and 10,000 tons of processed meat per year.

Project Components:

Hajj and Other Livestock Export (including Livestock Collection Centres (LCCs))

Sheep Feedlot.

Beef Feedlot.

Intensive Sheep Production Unit.

Fodder Production and Supply Unit.

Livestock Transportation Unit

Abattoir.

Meat Processing Unit.

Meat and Meat Products Inspection Laboratory (Quality Control) .

Investment Opportunity:

Potential partners are invited to take shares in the project and to participate in the completion of the three project phases.

Investment Cost: estimated to be USD 119m.

Implementation Period: 3 years.

Market: Local & Foreign.

Investment Relationship: equity capital / soft loans /joint venture

Investment Opportunity:

Potential partners are invited to take shares in the project and to participate in the completion of the three project phases.

Investment Cost: estimated to be USD 119m.

Implementation Period: 3 years.

Market: Local & Foreign.

Investment Relationship: equity capital / soft loans /joint venture

Arab Agricultural Production and Processing Company - Sudan

Sector: Sudanese agricultural industrial.

Status: Existing (currently non operating).

Location: located at Bagair area South of Khartoum.

Components: Starches and Glucose unit. Production and manufacturing of diary products unit.

Objectives:

The project aims to produce milk and process it into pasteurized milk, yogurt, cheese and other products.

Production of starches and glucose and their derivatives and importation of cows and calves and artificial insemination requirements.

Production of starches crops, cereal and fodder.

Technology : Desmet.

Investment Opportunities :

To establish an agricultural project to provide the required inputs

To undertake the rehabilitation, modernization and re-operation of plants and the management of the company.

Implementation Period: 3 years.

Market: Local & foreign .

Investment Cost: USD 50 m.

Investment Relationship: Equity ,Soft loan or Joint venture.

Contact Address: P.O. Box: 1883 , Khartoum, Sudan, Tel: 183481561 00249, Fax: 481560 183 00249

Elmuzdana Zero Tillage Agricultural Company

Sector: Sudanese Agricultural Services

Status: Existing

Location: HQ Khartoum , Gazira and other locations.

Objectives : Domestication and dissemination of zero tillage technology that proved to significantly improve the productivity in the rain-fed sector

Components:

Agricultural equipment

Agricultural extension.

Stores and offices.

Investment opportunity:

Provide advanced agricultural and other support equipment.

Provision of inputs (pesticides, fertilizers etc...).

Implementation Period: 3 years

Investment Cost: USD 30 M

Investment relationship: Equity capital / soft loans /joint venture

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