5. ENVIRONMENTAL MANAGEMENTPLAN

The Environmental Impact Assessment Regulations require the developer to provide an Environmental and Social Management Plan. An EMP is a document where all the measures that are required for environmental protection, which will include the mitigation measures and the monitoring plan, will be found for easy reference. The aim of an environmental management plan is to avoid, minimize, or ameliorate effects or impacts resulting from project implementation and where possible, enhance beneficial effects.

This EMP seeks to limit the interaction of disturbed with undisturbed lands at Kongola farm project site and through the various processes of project implementation, restore the disturbed land to a predetermined form of land-use or to a productivity level similar to that occurring prior to disturbance.

The Environmental Management Plan for the management of the identified environmental impacts associated with this project consists of three main components:

- 1. Implementing the Impact Mitigation Plan
- 2. Monitoring the implementation of the EMP.

Impact Mitigation Plan

The impact mitigation plan allocates the responsibilities for implementation of the proposed mitigation measures to the various stakeholders and indicates at what stage in the project they should be performed. The Plan is presented in this section and it addresses the negative impacts generated by the project and presents the associated cost estimates of mitigating the adverse impacts. The key components of the proposed impact mitigation plan are:

- (i) Surface and ground water quality management
- (ii) Soil erosion Control
- (iii) Vegetation and Flora
- (iv) Wildlife and Fauna Habitats
 - 1. Bush fires
 - 2. Noise and vibrations
 - 3. Occupational Health and safety
 - 4. Land use and Soil
 - 5. Air Quality
 - 6. Landscape, land use and Aesthetics

Socio-economic components of the mitigation plan include:

- (i) Cultural and Historic Sites
- (ii) Employment and conditions of service

Surface and ground water management

Surface and ground water are an important component of agricultural, ecological and human use of the land in the farming unit. The aim of the water management program is to ensure that where practical, flows into and through the project sites is maintained and that ground water sources (boreholes within the farms) are used efficiently to prevent inconsistent draw down of water during abstraction. The following will be undertaken to protect surface and ground water:

- 1. An effective drainage system will be put in place to capture all waste water.
- 2. Oil spillages from vehicles and machinery will be avoided on site. Compliance with the Hazardous Waste Regulations will be priority.
- 3. A good and effective monitoring system will be put in place during operations. Regular surface and ground water samples will be collected and analyzed. Bi-annual results will be submitted to the Namibian Environmental directorate.
- 4. Ensuring that boreholes and septic tanks are at least 60 meters apart.

Soil erosion control

The Kongola Fresh Produce (Pty) Ltd farming area has soils with less likelihood of soil erosion. However, the nature of the soil in high rainfall or winds

may be prone to erosion. The cultivation methods to be employed by Kongola Fresh Produce (Pty) Ltd will ensure less risk of soil erosion and runoff water to nearby farms and settlements.

Vegetation and Flora

No subdivision of the land has been cleared, however the local chiefs has made it clear that they used to cultivate on a small portion of the farmland which doesn't required any vegetation to be cleared. They use to plant maize. A number of management initiatives shall be implemented to reduce further potential impacts and disturbance to flora and vegetation. These include clearly marking and restricting access to areas of high conservation value; concentrate the farming operations to already cleared land for cultivation purposes.

Wildlife and Fauna habitats

During the site visit there was no animals seen, however the proposed site ends in Kwando River bordering with Susie Park. Other anthropogenic activities at the farming block, the area has minimum large animals that will be disturbed or likely to migrate due to the farming activities to be undertaken by Kongola Fresh Produce (Pty) Ltd. However, in the event that the small identified animals are threatened, it is most likely that the species will tend to migrate from the area of greatest activity during site preparation and operation but will return during the night and more stable years of the operations. The selected potential impa

9. THE IMPLEMENTATION OF THE ENVIRONMENTAL MANAGEMENT PLAN (EMP)

Table below outlines the management of the environmental elements during the planning and operational phases. Section 2 provides a brief summary of the management of the farming project. Contents of these tables could be incorporated into a HSEQ management system. The proponent would be responsible to assign the responsibilities and ensure that the tasks are executed.

Environmental Aspect	Objectives	Monitorin g	Mitigation and enhancement measures	Responsible person	Monitoring	cost
		frequency			s (N\$)	
PREPARATION & Co	ONSTRUCTION PHA	SE				
Surface Water Quality	To protect contamination of storm water.	Seasonal	Construction of proper drains alongside access roads and drains within the farm land and operation areas.	Operations Director	4,200	
Ground Water Quality To protect ground water contamination	water contamination from oil spills and		Drip trays will be used when removing used oils from equipment waiting servicing. Fuel storage tanks will be placed in a banded wall and concreted surface. The bounding shall have a volume equivalent to 110% the volume of the fuel tank. A sump shall be constructed in such a way as to drain any oil that has spilled		3,400	
			Used oil storage facility shall be kept under lock and key, concreted and bounded	Farm Manager		1.
		Drainage systems in the farm will be constructed to prevent chemical runoff during irrigation and rainy Season	Farm Manager		1.	

Drawdown	To reduce the impact	During borehole	Boreholes shall be located and drilled in such a way as	Farm Manager	2.
	of draw down.	drilling & tes	not to increase the impact of drawdown. Boreholes will		
		pumping	be sighted in		

			Areas within the farm away from shallow wells to			
			protect shallow wells from drawdown.			
Ambient Air Quality		Quarterly	Diesel equipment to be equipped with gas absorbers	Farm Manager	2,200	
	fumes from borehole drilling and diesel Machines		Use of low Sulphur content fuel (diesel) will be prioritized	Farm Manager		3.
	Suppression of dust from construction sites and access roads	Weekly	The farm shall have a water bowser which shall be used to suppress dust on the main road and other access roads and construction sites where there is dust.	Farm Manager		4.
			If available molasses will be sprayed on road sand construction sites to suppress dust formation. Emission sand dust levels will be monitored by way of periodical air sampling using mobile dragger pump. Results will be submitted to DEA quarterly.		1,400	
Soil Contamination	To protect soil from contamination from fresh and used oil spills, and fuel.		Re-fueling& repair of construction equipment will be done in designated areas and periodic maintenance will be done on all equipment to avoid oil leaks getting into the soil			5.
			Drip trays will be used in maintenance areas to drain used oil from equipment.	Farm Manager		6.

			Fresh and used oil will be stored in separate and lockable	Workshop		7.
			shades whose floors shall be concreted	manager		
			A bioremediation plan shall be established for the	Farm	3,000	
			purpose bioremediation of oil contaminated soils.	Block Manager		
Soil Erosion	To protect the soil from Mo erosion	lonthly	Storm water drains will be constructed around construction sites to collect storm water and there by prevent soil erosion	Farm Manager		8.
			Access roads and the plant periphery will be left with tree sand this will protect soil erosion	Farm Manager		9.
Noise	Minimize Noise to Moacceptable levels	lonthly	All farm equipment will be subject to a routine maintenance to ensure they are in good working order hence minimizing noise levels. Restrict operations to day time only.	,		10.
			Employees shall wear ear muffs or ear plugs and other necessary Personal Protective Equipment (PPE).	Farm Manager	3,000	
	To protect workers Mo	lonthly	Periodical monitoring of noise levels shall be conducted.	Farm Manager		11.
	from noise exceeding acceptable levels		Selection of low noise level equipment when purchasing farm and workshop equipment will be first priority.	Farm Manager		12.
			Trees along access and periphery roads shall left in tacttorshield and reduce noise levels	Farm Manager		13.

Land Use	To rehabilitate the farm	Annually	The mitigations here shall only come at closure.	•	1,000
	area and try to restore		Buildings like the farm house, workers houses, fuel	director	
	to its original state.		storage facility, used oil storage shed and the mini		
			workshop will be demolished, area cleared and		
			rehabilitated. The center pivot shall be removed and the		
			other irrigation equipment removed also. Pumps shall be		
			roved and boreholes caped. The farm land shall be re-		
			vegetated and or allowed to naturally re-vegetate.		
Flora	To protect the local	Quarterly	The project will be implemented mostly to utilize spaces	Farm Manager	1,800
	flora where possible.		or land which was already cleared in the farm blocks		
Fauna	To protect local fauna.	Quarterly	Noticed fauna in the proposed project site will be	Farm Manager	1,200
			preserved by taking it to areas that will remain		
			undisturbed.		
Archaeology and	To protect	Project Inception	Any cultural heritage site discovered during construction	Farm Manager	1,500
cultural sites	cultural heritage		will be preserved and the cultural heritage commission		
	from damage		informed accordingly.		
Public Safety	To minimize health and	Quarterly	Pre-employment and regular medical examinations will	Farm Manager	1,450
	safety risks.		be carried out on all farm employees to ascertain their		
			health.		

All plant equipment will be subject to a routine Farm Manager	14.
maintenance programme to ensure they are in good	
working order, hence minimizing health and safety risks.	

			All workers including contractors will be subject to wearing appropriate personal protective equipment (PPE) depending on the work type and place	e		15.
			All workers to go through safety and health inductions upon employment.	Farm Manager		16.
	Top rotect members of the public from hazards associated wit		Only authorized workers will be allowed to enter construction areas. No members of the public will be allowed to enter construction sites as well as the farm premises	S		17.
	h construction activities.		"Danger" warning signs to be placed in different points along the boundary of the farm and along the access road.	Farm Manager		18.
			Warning signs to be written in symbols, English and Vernacular language for easy interpretation.	Farm Manager		19.
Landscape and Visual characteristics	To protect visual characteristics of the landscape.	J 1	Where there shall be no roads and buildings, the visual characteristics of the landscape shall not be altered.	Farm Manager	1,100	
Hazardous Waste	To safely keep generated hazardous waste and dispose of appropriately	Project	Used oil and used batteries storage areas shall be constructed according to environmental guidelines. Lockable, concreted and bounded shed shall be constructed.	Farm Manager	1,200	

Sewerage Waste	To protect sewer waste		A septic soak way system shall be constructed to treat		1,250
	from contaminating the	Project	sewer waste since farming block & surrounding areas are		
	soil and or ground		not serviced by municipal infrastructure		
	water				
Solid Waste	Dispose solid waste at	Throughout	Metallic and timber off cuts will be stored in designated	Health officer	1,450
	construction site	Project	areas and sold or given to authorize scrap metal dealers		
	accordingly		or given to the locals for domestic use.		
			Cement empty bags and containers will be re-used or	Farm Manager	
			returned to supplier for re-use.		
Occupational health	Protection and safety of	Throughout	Number of construction workers provided with	Contractor's	1,450
and safety issues	workers	th	protective equipment such as helmets, safety shoes, gloves and eye glasses as appropriate.	Occupational	
	durin			Health and Safety	
	g construction		construction workers and others.	Officer	
Loss of residential &	Compensation for loses			Developers	Upon evaluation
business housing units			based on the current market value or according to the Regulations	(Kongola Fresh	of the
and other properties				Produce Pty Ltd)	loses
					& agreement
Loss of farmlands	Compensation for loses		•	Developers	Upon evaluation
		phase	affected farmlands according to the Regulations	(Kongola Fresh	of the loses &
				Produce Pty Ltd)	agreement
OPERATIONAL PHA	SE				

Surface and ground	То	protect Quarterly	Proper maintenance of storm water drains along access	Operations
Water Quality	contamination	of	roads and drains within the farm land	Director
	surface and	ground	The transport of hazardous materials to and from farm	Farm Manager
	water		will be done in accordance with laid down procedures.	
			Requirements will Include: documentation and inventory	
			control through chain of custody; emergency response	
			training for spills.	
			Only designated transport routes shall be used to	Farm Manager
			transport chemicals such as fertilizer, fungicides,	
			herbicides, fuel, used oil, fresh oil, lime and pesticides to	
			and from the farm.	
			Contracted transporters of chemicals shall be licensed	Farm Manager
			with Ministry of Mines & Energy	
			Contracted transporters of petroleum products shall be	Farm Manager
			licensed with the Energy Regulation Board	
			Application of fertilizers, fungicides, pesticides and	Farm Manager
			herbicides will be in accordance will the law and	
			guidelines.	
Drawdown	To protect the lo	ocals Monthly	A drawdown monitoring programme will be put in place	Farm Manager 20.

from being affected by	Locals will be informed how far from the farm should	Farm Manager	
the	they put their wells.		

	Effect of drawdown on		Boreholes in the farm to located faraway from residential	Farm Manager	
	their water supply		areas where locals are likely to put boreholes. A		
	wells.		minimum of 300 meters away is recommended.		
Ambient Air Quality	To prevent contamination of air	Quarterly	The farm shall have a water browser which shall be used to suppress dust on access roads and construction sites	_	1,250
	due to dust emissions		where there is dust.		
	from vehicles and trucks operating on dirt roads		If available molasses will be sprayed on road sand construction sites to suppress dust formation	Farm Manager	
	Low fume and gas emissions		Trees will be left along access roads and on the periphery of the proposed project site to act as a wind breaker and thereby reduce dust levels		
			Diesel equipment to be equipped with gas absorbers	Farm Manager	
Soil	Protection of soil from contamination by hazardous waste		Hazardous waste shall be kept in a lockable, concreted and bounded storage facility	Farm Manager	
	Protection of Soil from contamination b		Pesticides. Herbicides, fertilizer and fungicides shall be kept in a properly constructed area with proper ventilation, concreted floor, bounded and lockable shed		

	fertilizer,		Application of these chemicals shall follow the right	Farm Manager	
	pesticides		procedures		
	, fungicides and				
	herbicides				
Soil Erosion	To protect the soil from	Quarterly	Storm water drains will be periodically maintained to	Farm Manager	
	erosion		collect storm water and there by prevent soil erosion.		
			Access roads and the plant periphery will be left with	Farm Manager	
			tree sand this will protect soil erosion		
Noise	To minimize noise	Quarterly	All farm equipment will be subject to a routine	Farm Manager 1,450	
	levels to acceptable		maintenance programme to ensure they are in good		
	levels		working order, hence minimizing noise levels.		
	To protect workers		Employees will wear appropriate ear protection in	Farm Manager	
	from noise		workplaces where noise levels exceed the minimum		
	exceedin		requirement Kongola Fresh Produce (Pty) Ltd		
	g acceptable levels		management will enforcetheuse of PPE in the farm.		
			Trees left along access roads and the farm periphery will	Farm Manager	
			not only act as a wind breaker but also sound proof.		
Land Use	Protect land from being	Throughout	The Kongola farm will be strictly for commercial	Farm Manager	
	used in other ways	project life	farming of crop, vegetables and fruits other items such as		
			soya beans, wheat, maize etc. Any other use which is not		
			in the description will be prohibited.		

Flora	To protect the local	Throughout	All the trees left after the construction phase shall not be	Farm Manager	
	flora where possible	project life	cut for whatever reason. A procedure for cutting of trees		
			shall be put in place. Progressive planting of trees shall		
			be carried out and encouraged in areas where trees had		
			been carelessly cut.		
	Extinction of	_	Identified Endangered plant species shall be preserved	Farm Manager	
	endangered plant		and planted elsewhere at all costs if possible.		
	species.				
	Protection		No invasive or alien species shall be introduced on this	Farm Manager	
	fro		farmland in accordance with the invasive species act.		
	m introduction o	f			
	invasive species				
Fauna	To protect local fauna.	Throughout	Noticed fauna in the proposed project sites will be	Farm Manager	
		project life	preserved relocating it to areas that will remain		
			undisturbed		
Archaeology and	To protect	Throughout	Any cultural heritage site discovered during operational	Farm Manager	
cultural sites	cultural heritage	project life	phase other than the existing grave site will be preserved		
	from damage		and the cultural heritage commission informed		
			accordingly		
Public Safety	To minimize health and	Throughout	Pre-employment and regular medical examinations will	Farm Manager	3,000
	safety risks.	project life	be carried out on all farm employees		
		1	<u> </u>	l	1

To protect members of	All plant equipment will be subject to a routine Farm Manager
the public from	maintenance programme to ensure they are in good
hazards	working order, hence minimizing health and safety risks

	associated		All workers whether contractor or not will be subject to	Farm Manager
	wit		wearing appropriate personal protective equipment	
	h construction activities		(PPE) depending on the work type and place	
			All workers to go through safety and health inductions when just employed	Farm Manager
	To protect members of		Only authorized workers will be allowed to enter	
	the public from hazards associated	project life	construction areas. No members of the public will be allowed to enter construction sites.	
	wit h construction activities		"Danger" warning signage to be placed in different points along the boundary of the farm.	Farm Manager
			Warning signs to be written in symbols, English and vernacular language.	Farm Manager
Landscape and	To protect visual	Throughout	Where there shall be no roads and buildings, the visual	Farm Manager
Visual	characteristics of the	project life	characteristics of the landscape shall not be altered	
characteristics	landscape			
Loss of farm and grazing lands		Throughout th e project	income benefits from affected lands	Developers (Kongola Fresh Produce Pty Ltd)
		o project		

Hazardous Waste		Throughout project life	Used oil and batteries storage areas shall be maintained according to environmental guidelines. Lockable, concreted and bounded shed shall be used.	Farm Manager
Sewerage & effluent Waste	To protect sewer waste from contaminating the soil and/ or ground		A septic soak way system shall be used to treat sewer waste. HDPE lined effluent ponds will be constructed on the farm for bio-treatment of effluent.	Farm Manager
waste	water		the farm for bio-treatment of efficient.	
Solid Waste	Disposal of solid waste	Throughout project life	Biomass from the plants will be stored and energy generation options evaluated	Farm Manager
			Domestic solid waste will be disposed of at Kongola combined school Clinic and School disposal site in accordance with the waste management regulations	Farm Manager
Unforeseen impacts	Unexpected impacts	Throughout project life	Identify unforeseen socio-environmental impacts of the project and propose remedial measures and/or Advise construction contractor regarding unforeseen environmental issues of the Project	Farm Manager
DECOMMISSIONIN	G AND CLOSURE PH	ASE		
Ambient Air Quality	Contamination of ambient air with dust	Quarterly	Progressive and natural re-vegetation shall be done and this will protect land from winds and that result into generating of dust.	

Soil Erosion	To protect the soil from	Quarterly	Storm water drains will be periodically maintained to	Farm Manager	
	erosion		collect storm water and there by prevent soil erosion		
			Access roads and the plant periphery will be left with	Farm Manager	
			tree sand this will protect soil erosion		
Land Use	Change of land use	Bi-annual	Demolition of all surface infrastructures, grading and re-	Farm Manager	
			profiling of the surface and re-vegetation will be done. If	f .	
			possible land use will change to the original one.		
Public Safety	Danger to the	Monthly	All farm equipment removed and infrastructure will be	Farm Manager	3,000
	community from farm		demolished. Areas requiring rehabilitation rehabilitated.		
	equipment		Bore holes shall be caped.		
Landscape and	Change to landscape	Quarterly	Demolition of all surface infrastructures, grading and re-	Farm Manager	
Visual	and visual		profiling of the surface and re-vegetation will change the		
characteristics	characteristics		landscape and visual characteristics		
Solid Waste	Generation of	Quarterly	Domestic solid waste will be disposed of at Kongola	Farm Manager	
	Domestic Waste		Clinic and school disposal sites according to the waste		
			management regulations.		
Sewerage Waste	To protect sewer waste	Quarterly	A septic tank-soak way system shall be used to treat	Farm Manager	
	from contaminating the		sewer waste		
	soil and or ground				
	water				

10.DECOMISSIONING PHASE

Once the Kongola Fresh Produce Pty Ltd reached the decommissioning phase, the closure objective will be restore the farm site to its natural state. This will be a makeshift change over a period of time in order to restore the land to its original state. Kongola farm will be restored to a condition which is safe, stable and minimizes environmental impacts on the flora, fauna, water, and soil and air quality. The area must as a minimum not negatively affect the socio-economic status of the local residents close to the project areas. Other objectives of the closure plan are to:

- 21. Protect future human, flora and fauna health and safety.
- 22. Minimize or prevent biophysical and social environmental degradation.
- 23. As far as practical, return the site to the pre-farming land use (sustainable woodland) or another appropriate alternative, and
- 24. Minimize any adverse socio-economic impacts. Generally, closure objectives covering public health and safety, landform (soils) and vegetation will be developed as outlined in the table below.

The Kongola Fresh Produce Pty Ltd intends to undertake their farming project through the 25-year lease as stipulated by the Namibian government land Reform Act no 5 of 2002. All relevant local and regional regulatory bodies such as Namibian Environmental Management commission, Zambezi Regional Council, government departments and other relevant local authorities and/or interested parties will be informed beforehand that Kongola Fresh Produce (Pty) Ltd decides to abandon the implementation of the project for any predicted or unforeseen circumstances. A detailed final closure plan will be submitted for approval to the Ministry of Environment, directorate of Environmental Affairs.

The following sections describe the activities to be undertaken by Kongola Fresh Produce (Pty) Ltd to successfully bring the project to a close enchanting into consideration all the environmental, physical and socio-economic impacts that may arise during this phase.

Dismantling of equipment and farm machinery

All the farm machinery, and auxiliary equipment on site will be dismantled to manufacturer specifications in a well-planned manner in order to avoid contamination of soil, air and water and to eliminate the physical hazards associated with the equipment and machinery to be dismantled and relocated.

Un-installation/ removal of the center pivot

All the components of the center pivots will be dismantled component by component and packed into haul trucks for transportation to another site for alternative use and/or sale. The dam used for storage of irrigation water will be buried and the soil replaced and area revegetated.

Removal of pumps and burying of boreholes

The submersible and surface water pumps and all electrical components associated with the

pumps will be disconnected from the power supply and uninstalled. A total of 3 boreholes will be buried to restore the bore sites to their original state while the remaining 2 boreholes will be used as monitoring boreholes for underground contamination for the next two (02) years of the post closure program to be implemented by Kongola Fresh Produce (Pty) Ltd

Movement of re-usable farm machinery

Kongola Fresh Produce (Pty) Ltd does not operates any other ventures in Namibia that will require the use of the machinery relocated from the Zambezi region Farm project. The machinery salvaged from Zambezi region farming units will be moved, lease or sold to an appropriate farming operation that will utilize the equipment.

Demolition of the Farm infrastructure

The administration building, storage, workshop, chemical stores, farm house, workers quarters and other concrete related infrastructure will be demolished accordingly. This will be done systemically in order to recover as much reusable construction material as possible. The rabble resulting from this demolition will be used to level the ground and refill and re-profile the septic tanks and soak away system that will be utilized as a sewerage management facility during theoperation phase. General cleaning of the areas formerly occupied by the demolished structures will be conducted to be coupled with grading and levelling the ground to pave way for tree replanting.

Installation of warning signage and symbols

In order to maintain safety and reduce the risk of physical accidents from trespassers, the areas considered to pose accident risks will have warning signage installed to prevent injury and restrict access to the site. This will also be done for the main access road that traverses through the farm.

11. CONCLUSIONS AND RECOMMENDATIONS

Conclusion

Agricultural production has proven itself time and again as a powerful instrument for socio-economic development. Community farming and irrigation projects are important tool in alleviating poverty and providing alternative livelihoods, especially in Namibia's community areas with a low rate of unemployment. These specific areas have a lot of potential as an agricultural crop production. And there is need for more some irrigation farm establishments that do not only provide economic benefits to the communities but also offer socio-economic benefits to the local communities with minimized ecological impacts. Since the proposed site falls within the Zambezi region which is rated as a second poorest region according to the regional poverty profile (NPC, 2004) the surrounding communities can only benefit from the proposed agricultural in terms of increased long-term quality of life.

Recommendations

Development related impacts must be prevented or mitigated by implementing strict monitoring and control. All permits and approval must be obtained from the relevant ministries or authorities for the operation of the farm. It is imperative that the mitigation measures as set out in the ESMP be implemented during the planning (layout design) construction and operational phases to prevent unnecessary damage to the natural environment.

The ESMP should be added to all contractors' agreements and be signed by such contractors. The recommendations made in this report places the developer under a legal obligation to ensure that all mitigation measures are implemented and followed through during construction and operation of the farms.

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Advanced Environmental Agency cc

Environmental and Management

Consultant

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