



### Private Use Permit Contract Between The Forestry Development Authority

E

The People of Kokoyah District, Rong County

F.D.A.
P.O. Box 10-3010
Whein Town, Mount Barclay
2000, Mondowia 10 Liberia
May, 23, 2011





PRIVATE USE PERMIT CONTRACT BETWEEN THE FORESTRY DEVELOPMENT AUTHORITY AND THE PEOPLE OF KOKOYAH ADMINISTRATIVE DISTRICT, FOR HARVESTING OF 21,549 HECTARES OF FORESTLAND LOCATED IN BONG OUNTY, REPUBLIC OF LIBERIA

THIS CONTRACT made and entered into this 23<sup>rd</sup> day of 1949.

A.D. 2011, by and between the Government of Liberia, through the Forestry Development Authority, hereinafter referred to as the Authority, represented by its Managing Director, Moses D. Wogbeh Sr. and the People of Kokoyah Administrative District, Bong County, hereinafter referred to as Kokoyah, represented by the Group of Forestry Experts Company (GOFEC) by and thru Aylmer B. Johnson, I., hereinafter collectively referred to as the Parties, hereby;

### WITNESSETH:

WHEREAS, the Authority is statutorily responsible for the sustainable management and use of all categories of forest resources;

WHEREAS, the Citizens of Kokoyah Administrative District, Bong County, above described, are legitimate and bonafide owners of an aggregated land mass of 53248acres/21,549 hectares of forested land by virtue of inheritance through a legitimate purchase from the Republic of Liberia;

WHEREAS, by virtue of Section 5.6 (d) (i) of the National Forestry Reform Law (NFRL) of 2006, copy of a set of duly certified Public Land Sale Deed issued under the signature of President Edwin J. Barclay on March 20, A.D. 1934 in proof of ownership of the subject aggregated tract of land is hereto attached and marked Exhibit "A" in bulk to form a cogent part of this contract;

WHEREAS, in further verification of the subject property, the Ministry of Lands, Mines & Energy finally gives authentication and verification to the said Teemor Chiefdom Deed through a letter under the signature of Acting Assistant Minister Maxwell C.F. Gwee. Attached also is the said verification letter marked Exhibit "B" to form an integral part of this Contract;

WHEREAS, citizens including elders and youths of the above named Kokoyah Administrative District, through the Office of the Paramount Chief, and endorsed by the Superintendent of Bong County, Hon. Rennie B. Jackson, have given their written consent to the appointment and selection of the Group of Forestry Experts Company (GOFEC) by and thru Aylmer B. Johnson, I. as their Representative and Legal Agent to act in their behalf for the sustainable management of their forest resources. The said Instrument of Authorization in favor Group of Forestry Experts Company (GOFEC) from

the citizens of Kokoyah Administrative District Chiefdom is hereto attached and marked Exhibit "C" to form an integral part of this Permit.

WHEREAS, validation of the area in keeping with Section 5.6 (d) (ii) of the NFRL and Section 61 of FDA Regulation 102-07 shows that the said tract of land is un-encumbered and does not overlap with any forestry designated land use. Said validation/prospection report is hereto attached and marked Exhibit "D" forming also an integral part of this contract;

WHEREAS, Kokoyah is desirous of commercializing harvestable tree species on the said accumulative tract of 53,248acres/21,549 hectares of land;

WHEREAS, the Authority having examined Kokoyah's application and the requirements of Section 5.6 of the NFRL having been met, declares Kokoyah qualified for the issuance of a Private Use Permit that will allow it enter into contractual agreement with any company or corporation to carry out said commercial activities; and

NOW, THEREFORE, for and in consideration of the mutual promises and agreements herein contained, the parties do hereby agree as follows:

### 1. Definitions

- a. Authority: The Forestry Development Authority (FDA) created by an Act of the Legislature on November 1, 1976.
- Annual Operations Plan: the plan that guides the annual operations of the Holder
- c. Chain of Custody: the path of custodianship followed by logs, Timber and wood products through harvesting, transport, interim storage, processing, distribution and export from source of origin in the forest to end use.
- d. Code of Forest Harvesting Practices: a set of standards for environmentally sound forest use prepared by the Authority
- e. Conservation: the sustainable management and protection of forest resources to achieve maximum environmental, social, economic and scientific benefits for present and future generations
- f. Forestry: the science, art and practice of conservation of forest resources
- g. Forest Resources License: any legal instrument pursuant to which the Authority allows a person, subject to specified conditions, to extract forest resources or make other productive and sustainable use of forest land. This includes Forest management Contracts, Timber Sale Contracts, Forest Use Permit and Private Use Permit.

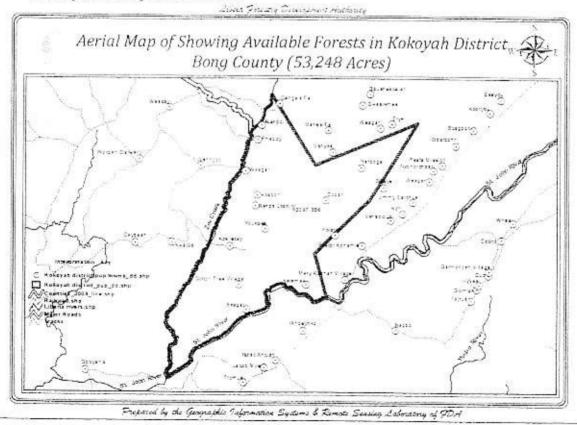
- h. Forestland: a tract of land, including its flora and fauna capable of producing forest resources, or land set aside for the purpose of forestry, but not including land in permanent settlements and land that has been in long term use for non-shifting cultivation of crops or raising livestock.
- i. Forest Product: any material or item derived from forest resources.
- Forest Management Contract: forestry contract which covers a land area of 50,000 – 400,000 hectares.
- k. Holder: a person who holds a valid forest resources license
- Land Owner: a person who owns land by legal title
- m.Operator: a person harvesting or making commercial use of forest resources under a forest resources license, including a person working as an employee, contractor or other agent for a Holder.
- n. Pre-Felling Operations: legal requirements of the Holder before felling of logs. They include posting of required performance bond; preparation of initial annual operations plan and preparation of environmental impact assessment.
- Private Use Permit: a forest resource license issued by the Government to allow commercial use of the forest resources on private land.
- p. Public Use Permit: a forest resource license issued to extract forest resource from an area less than 1000 hectares.
- q. Reforestation: the establishment of a tree plantation in a previously forested area that has been affected by cutting, fire, or some other act of tree removal.
- r. Societe Generale de Surveillance (SGS): the institution/company responsible to manage the Chain of Custody System.
- s. Timber Sale Contract: a short term forest resources license issued by the Government for a period of three (3) years that allows a person to harvest timber from a specified tract of forest land.

### 2. Metes and Bounds/Technical Description of Kokoyah Forest Land & Map

Kokoyah District forest land area lies within Latitudes 6°20'0" - 6°24'0" North of the equator and Longitudes 9°30'0" - 9°36'0" West of the Greenwich meridian and it is located in Bong County-LIBERIA

The boundary line of Kokoyah forested area commences at a point marked on the surface of the Earth Lat/Long (6°24'12.56" N-9°39'58.14"W), thence a line runs along the Saint John River in the northern direction for 21,039 meters to a point (6°28'12.70"N-9°32'05.11"W); thence a line runs N 16° W for 4,222 meters to a point; thence a line runs N 45° E for 6,990 meters to a point; thence a line runs N 32° E for 8,408 meters to a point; thence a line runs S 67° W for 10,106 meters to a point; thence a line runs N 31° W for 7,720 meters to the point on the Zor River; thence a line runs along the Zor River in the southern direction for 30,506 meters o the place of commencement (CONFLUENCE OF ZOR & ST. JOHN), embracing 21,549 hectares of land and NO MORE.

### 3. Map of Kokoyah Forestland



### 4. Contract Objective

 To harvest merchantable tree species from 21,549 hectares of tract of land otherwise called the Kokoyah Forest Land

- b. To engage in reforestation of the area involving indigenous species
- c. To create alternative uses of the tract of land after harvesting of trees
- d. To create employment for about 250 locals of the contract area and surrounding towns and villages.

### 5.

### Contract Duration

The contract shall be for thirteen (13) years.

### 6.

### Chain of Custody System

In keeping with Section 13.5 of the National Forestry Reform Law of 2006 and sections (1-35) of FDA Regulation 108-07, the Chain of Custody System will apply during the life and implementation of this contract. The system so established for the tracking of logs, timber and wood products from forest to processing and then to domestic or foreign market shall be managed by Societe Generale de Surveillance (SGS) using SGS/Helveta equipment and software as provided for by section 3.2 (3) of the Chain of Custody System Management Contract of 2007.

### 7.

### Land Rental & Stumpage Tax

Consistent with Section 5.7(b) of the National Forestry Reform Law of 2006, the Company shall not be charged to pay land rental tax. However, stumpage shall be paid consistent with Section 5.7 (c) of the National Forestry Reform Law and also consistent with Section 22(b) of Regulation 107-07.

### 8. Other Fees & GOL Taxes

All other fees and GOL Taxes levied on the project shall be consistent with the Revenue Law of Liberia and FDA Regulation.

### 9.

### Pre-felling Date

Before Company is certified for felling, all pre-felling operations including the following must be completed:

- a. Posting US\$50,000.00 performance bond
- b. Submission of initial annual operations plan
- c. Environmental Impact Assessment
- d. Social Agreement

### 10.

### Employment

Recruitment and employment by the Company shall be consistent with Labor Law of Liberia and International Labor Organization.

### Termination

This contract shall be terminated if the company upon notice of breach of any term of this Contract fails to remedy said breach within a period of (60) sixty days.

### 9. Force Majeure

In the event of force majeure, which causes either party from meeting its obligations herein stated, the Contract shall be suspended as long as the force majeure continues.

### 10. <u>Duty of Care</u>

The Authority shall ensure that the Company maintains environmental quality of the cutting area and comply with all other conditions consistent with the Liberia Code of Harvesting Practices to include:

- a. Water course protection
- b. Erosion prevention
- Prevention of pollution to rivers, streams and other waterways by disposal of wastes
- d. Prevention of fire disaster

The operation shall also be in conformity with international conventions to which Liberia is a party. They include: the Convention on Biodiversity, the International Tropical Timber Agreement, the United Nation Framework Convention on Climate Change, the United Nations Convention to Combat Desertification, the Convention on International Trade in Endangered Species and the RAMSAR Convention on Wetland Management

### 11. Governing Laws

In effecting this Contract between the Corporation and the Authority, the relevant Laws of Liberia including but not limited to the National Forestry Reform Law and regulation governing Chain of Custody will prevail.

### 12. Binding Effect

This Agreement is binding on the parties, their successors-in-office as if they were physically present at execution of this instrument.

In witness whereof, we have affixed our signatures on the day and date first mentioned above.

### FOR THE AUTHORITY

Witness (

Approved:

Moses D. Wogbeh, Sr. Managing Director

### FOR THE CITIZENS OF KOKOYAH ADMINISTRATIVE DISTRICT

lmer B. Johnson, I.

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### Kokoyah Administrative District

Forest Management Committee (FMC) Kokoyah Statutory District Southeastern Bong County Republic of Liberta

Monday, March 14, 2011

Hon. Kederick F. Johnson
Acting Managing Director
Forestry Development Authority
Wein Town
Mount Barclay
Monrovia, Liberia

### RE: REQUEST FOR PRIVATE LAND USE PERMIT

We the citizens of Kokoyah Administrative District, Bong County, representative our civil and Traditional leaders, Elders, Chiefs, Zoes, Youth opinion leaders and the District Development Association has commenced negotiations with potential investors for the possibility of extraction of logs from our District.

Hon. Johnson, under the arrangement, we intent to relinquish all rights and privileges to our investors for the purpose of carrying full logging activities on 53,248 acress land owned by the people of Kokoyah District, which is situated and lying Bong County.

Owing to this back drop, we submit our deed and legal documentations for an ordinary sis and write on behalf of the citizens of Kokoyah District to request your honorable of the grant the District <u>Private Use Permit (PUP)</u> under the amended Forestry Refore 2006.

Your earliest response in granting our District Private Use Permit would suchly be appreciated by the people of Southern Bong County.

Signed:

Rev. Andrew/S. David

ELDER

Approved

od. Arthur F. Coope

ADVISOR

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### REPUBLIC OF LIBERIA MAKE

### MINISTRY OF LANDS MINES & ENERGY

1000 MONROVIA 10 LIBERIA, WEST AFRICA TEL : (231) 226-858 FAX (231) 228 28)



### LIBERIAN CARTOGRAPHIC SERVICE

Exhibit "B"

April 26, 2011

Hon. Moses D. Wogbeh, Sr. MANAGING DIRCTOR Forestry Development Authority P.O. Box 10-3010 Monrovia, Liberia

Dear Hon. Wogbeh:

We write to present our compliments, and acknowledge receipt of your letter dated 4th April 2011, Ref. No. MD/47/2011/4, requesting the Ministry of Lands, Mines & Energy to review, verify and authenticate deeds pertaining to Kokoyah District in Bong County and Deekpei Section, Compound #1. in Grand Bassa County and we are pleased to furnish you with the below results.

Sir, after carefully plotting, analyzing and field verification by our offices, it is observed that the documentations submitted were all found correct and the land un-incumbent, thus acknowledging that the Forestry Development Authority (FDA) could proceed with the granting of Private Use Pennit in the interest of the above local communities.

In so doing, we advice the Forestry Development Authority to proceed in granting the PRIVATE USE PERMIT to the people of Kokoyah in Bong and the people of Deekpei Section, and Doe Clan of Grand Bassa County as permitted by the Forestry Development

We hope that the information thus provided can assist the FDA in her endeavours.

Sincerely yours.

LIBERIAN HIC SERVICE

Echibit "C"

### OFFICE OF THE PARAMOUNT CHIEF

QUI-KON/SAWLO C	ANS, KOKOYAH DISTRICT, BONG COUNTY.
TRIBAL LAND CERTIFICATE FORM:	
TO: HON. ARTI	HUR F. COOPER/ADVISOR & INVESTOR
KOKOYAH DISTRICT, BONG COUNT 2009, DO AGREED AND HAVE GO COMPANY (GOFEC), REPRESENTED THE CITY OF HONROVIA TO DO KOHOYAH DISTRICT, KOKOYAH STACOVERING THE FOLLOWING LAND WITH NATIVE CUSTOMARY LAWS O	IE UNDERSIGNED LOCAL TRIBAL AUTHORITY INCLUDING S, DISTRICT SUPERINTENDENT AS WELL AS YOUTH OF Y, BEPUBLIC OF LIBERIA, ON THIS 28" DAY OF JUNE AD IVEN PERMISSION TO GROUP OF FORESTRY EXPERTS BY ITS PRESIDENT AND CEO MRS. BENELINE JOSARG OF LOGGING IN THE FOREST AND LAND AREA COVERING STUTTORY DISTRICT, BONG COUNTY. THE SAID LAND AREA MARKS QUI-KON AND SAWLA CLANS, HAVING COMPILED F THE SAID TRIBES, ARE THEREFORE FREE TO EMPLOY EYOR TO SURVEY 53,248 ACRES OF LAND.
AREA IS PROPERLY MAPPED OUT A	OF FORESTRY EXPERTS COMPANY (GOFEC) WILL LIAISE HENT AUTHORITIES TO ENSURE THAT THE TOTAL LAND AND THAT ALL GOVERNMENT LICENSES FOR LOGGING IN HE UNENCUMBERED OPERATIONS OF THE COMPANY ON
	3" DAY OF JULY AD 2009
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	TARAMOUNT CHIEF. CHOT. S
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Rev. Andrew S. David	
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### Forestry Development Authority P.O. Box 10-3010

Elise Saliby's Compound Kappa House, Congo Town Monrovia, Liberia

### **MEMORANDUM**

TO:

Moses D. Wogbeh, Snr.

Managing Director.

Forestry Development Authority

FROM:

John D. Kantor, Snr.

Technical Manager/R&D

Towon Nyenty

Acting Manager, GIS & RS Labs

SUBJECT: Kokoyah District Deeded Land and Prospection Report

DATE:

May 23, 2011

Predicated upon the request from the Kokoyah District Administrative Committee, for a team of forestry experts, made of Supervisor Tamba Brown, Tree Finder, James Laffor and a Global Positioning System (GPS) operator, Randal Sambollah went to Bong County, Kokoyah District, with the mandate to cruise a forests earmarked by the people of Kokoyah District as a possible and potential forest for the exploitation of logs.

During the inventory which lasted for seven consecutive days beginning from March 9-March 15 2009, the team extensively cruised the Western, Central and Eastern parts of the forest and carried out random sampling of commercial timber species to determine the forest composition, characteristics, topology and transportation (road network) of the forest.

After systematically assessing the area, the team was convinced that 95% of the forest is composed of primary forests while the balance 5% is agriculture degraded forests. Moreover, the forest area in question is highly productive and favorable for large scale logging (export and sawn timber production) for the duration of approximately eleven years. The forest area is assessable by a hundred miles paved motor road and thirty seven miles assessable by a secondary motor road that needs to be reconditioned by credible logging company if awarded the contract by the communities.

### Technical description

Kokoyah District forest area is 137 miles accessible by primary and secondary motor roads by way of Monrovia, Kakata, Gbatala, Pengai, Taylor Town, Voloblai-Garyea, Karyata, Langonta, Sumopoia, Kuemba, Seegar Town, Guata Town and Mowayblee Towns, and is 145 miles accessible to the Port of Monteuvic. Montserrado County for shipment of round logs

Kokoyah District forest land area lies within Latitudes 6°20'0" - 6°24'0" North of the equator and Longitudes 9°30'0" - 9°36'0" West of the Greenwich meridian and it is located in Bong County-LIBERIA

The boundary line of Kokoyah forested area commences at a point marked on the surface of the Earth Lat/Long (6°24'12.56" N-9°39'58 14"W), thence a line runs along the Saint John River in the northern direction for 21,039 meters to a point (6°28'12.70"N-9°32'05.11"W); thence a line runs N 16° W for 4,222 meters to a point; thence a line runs N 45° E for 6,990 meters to a point; thence a line runs N 32° E for 8,408 meters to a point; thence a line runs S 67° W for 10,106 meters to a point; thence a line runs N 31° W for 7,720 meters to the point on the Zor River; thence a line runs along the Zor River in the southern direction for 30,506 meters o the place of commencement (CONFLUENCE OF ZOR & ST. JOHN), embracing 21,549 hectares of land and NO MORE.

### Global Positioning System (GPS) Points Taken By the CREW.

Waypoints 12	Latitudes UTM	Longitudes_UTM	Remarks or Land marks	X-Coordinates DD	Y-
	433567	714050	Seegar town	-9.60102	Coordinate
1	433569	714052	Bank St. John River	1	6.45942
13	432252	712639	Top of a Hill	-9.60100	6.45944
24	432191	712518	Side of St. John River	-9.61289	6.44664
2	431818	712164	Bank st. John River	-9.61344	6.44555
23	431399	712034	Side of low bush	-9.61681	6.44234
17	431201	712109	100	-9.62060	5.44116
19	432242	713076	Footpath leading to Seegar Town from the River	-9.62239	6.44184
15	431165	711762	Junction water & road leading to Forest creek	-9.61299	6.45060
3	431268	711641	Bank St. John River	-9.62271	5.43870
7	432476	712774		-9.62178	6.43760
6	431315	712847	High Forest	-9.61087	6.44787
18	431236	712862	High Forest	-9.62137	6.44851
10	431091	712707	Good terrian with commercial species	-9.62208	6.44865
16	430829	712414	Near old farm	-9.62339	6.44725
3	430290	712362	Edge of low bush	-9.62576	6.44459
1	429913		High forest area with gentle terrain	-9.63063	6.44412
5	429763	712351	Rich forested area with mixed species	9.63404	5.44401
		712351	Dominant Gilbertiodendron & Tetranserlinia	-9.63540	6.44401
	400000		Mixed commercial species	-9.63891	6.44007
	10000	711512		-9.63931	6.43642
	429564	711357	High forested area	-9.63718	6.43502

4	430091	711674	Donnester	r	
21	432283	712767	Dense forested area	-9.63242	6.43789
27	428209	711521	Near reef bush	-9.61261	6.44780
14	427109	711494	Probat 7 and	-9.64944	6,43648
22	426968	711962	Bank of Zor River	-9.65939	6.43623
5	432501	712756	Point taken at Zor River boundary between Bong	-9.66067	6.44046
		1,10,00	Water fall	-9,61064	6,44770

### Plot as a sample of the total forest.

Measuring trees can be time consuming and costly operation, therefore only a sample of trees within a stand were measured by the inventory team to provide an estimate of the stand's growth (or sections of the stand's growth if different sections have been identified).

### Plot Dimensions

Circular plots were used by the inventory team because it is easier to lay out in mature forest or irregularly spaced stands with low or high stocking rates where transects are poorly defined. Within Kokoyah area, all plots were selectively located or, more commonly, evenly distributed throughout the area using sensitivity analysis system. All plots are permanently marked on the ground and located on the field survey map.

### Example of Circular plot

The system illustrated for circular plots allows trees to be easily referenced during the measurement exercise. The inventory was completed by measuring circular plots of 12 meters radius every 100 meters on random transects of 1.5×1.5 kilometer grid across the proposed logging area. The team measured a total of 18 plots in March 2009. Based on the transect and plots information the inventory team extrapolated estimates for the entire contract area between the two rivers.

The maximum slope recorded is 25%, however only 5.6% of the area has a slope between 25-30%. Approximately 93.6% of the area is dry land, while 6.4% of the total area is possible wet lands, and 0 hectare or 0% of the area are rocky.

Some forms of animal observation (scat, prints, call or sighting) were recorded on the plot areas.

The inventory team established 18 plots. Tree per hectare is 194 while the estimated total cubic meter per hectare is 194.0. The estimated volume for the inventory area in all species classes is 970,175 meters cube based on the forest inventory.

### Forest inventory results

### Kokoyah District

### Slope, ground type and other observations Total number of Plots: 18 Total Area: 4,045 ha

rotal number of Plots:	18 To	otal Ar	ea:	4,045 h	a				
Plots by slope category	(in %)	0-4	5-9	10-14	15-19	20-24	25-29	>=30	n.s.
Number of plots in slope catego	D.			-200					
Percent of plots in slope categor	v.		3	10	4		1		0
Area in slope category (ha)	•33		16.7%	55,6%	22.2%		5.6%		0.0%
Maximum recorded slope	25%		833	2,778	1,111		278		0
Length of transect > 25%	0%								
Length of transect with cliff	0.49								
Plots by ground type			Dry	Wet/	swampy	Ro	cky	n.	s.
Number of plots of each type			40						
Percent of plots of each type		37	18 6°0.00		0		ū	0	
Area of each type (ha)			4,045	0.0%		0.0%		$0.0^{a_{0}}$	
		8	+,042		0		0		0
Waterways on transects		1	None	<3 n	n wide	3-10 п	ı wide >	10 m wi	de
Number of observations			14		T:				
Percent of transect		7	7.8%	- 5	fi%		2		1
Approx, area with waterways (ha	)	3	,889		278	11.1% 556		5.6% 278	
Swampy/lowland areas o	n transects	N	ione	<1 h	ectare	1-5 hec	ctares >:	5 hectar	es
Number of observations			18						
Percent of transect		100	0%	0.0	0		0	30	
Approx. swamp area (ha)	Ó	10208		0.0	77.0	0.09	v	0.0%	
Cleared areas on transect	rs	N	one	<1 he	ctare	1-5 hec	tares >5	hectare	es
Number of observations			18						
Percent of transect		100.	200	106.796	0	0		0	
Approx. cleared area (ha)	0	238627	V-79/10	0.0	50	0.0%	93	0.0%	
Animal observations on tr	ansects	Tra	acks	Sca	at	Vocalisa	itions	Citing	5

Vocalisations

Citings

### Forest inventory results

### Kokoyah District

### Slope, ground type and other observations Total number of Plots: 18 Total Area: 4,045 ha

		1,075 112		
Number of observations  Percent of transect  Approx. area with observations (ha)	18 100.0%	12 66.7%	17 94.4%	4 22.2%
(III)	4,045	3,333	4.722	1 111

### Forest inventory results

### Kokoyah District

### Stocking by forest type Trees with dbh>=40cm

For	est type	No. of		D1	
		plots	Number		ea Volume
2.7	0		vumber	(m2)	(m3)
3.2	Open dense forest	16			
		Average per ha Std Dev Std Err (p=0.1) Lower C1	201.7 26% 11% 178.5	57.1 28% 12% 50.1	574.9 35% 15% 487,7
3.3	Closed dense forest	2			
		Average per ha Std Dev Std Err (p=0.1) Lower C1	132.6 71% 316% -286.1	33 5 84% 374% -91,9	312.7 80% 359% -808.8
3.*	All forest dominated strata	18			
		Average per ha Std Dev Std Err (p=0.1) Lower CI	194.0 30% 12% 169.8	54.5 33% 14% 47.0	545.8 39% 16% 458.0
Total		18			
		Average per ha Std Dev Std Err (p=0.1) Lower CI	194.0 30% 12% 169.8	54.5 33% 14% 47.0	545.8 39% 16% 458.0
		Total Lower CI	970,158 849,199	272,507 235,165	2,728,966 2,289,766

### Forest inventory results

### Kokoyah District

### Stocking by species category Trees with dbh>=40cm

Species category		Number	Basal are:	a Val
			(m2)	
A Class A			(1112)	(m3)
	Average per ha Std Dev Std Err (p=0.1) Lower CI	120.3 38% 16% 101.4	33.1 42% 17% 27.4	333.3 48% 20% 267.9
	Total Lower CI	601,744 506,910	165,719 137,066	1,666,572 1,339,684
3 Class B				
	Average per ha Std Dev Std Err (p=0.1) Lower CI	34.4 80% 33% 23.1	9.5 91% 37% 6.0	90.7 100% 41% 53.4
	Total Lower CI	171,927 115,405	47,482 29,775	453,618 267,001
Class C				
	Average per ha Std Dev Std Err (p=0.1) Lower CI	39.3 76% 31% 27.0	11.9 74% 30% 8.3	121.8 77% 31% 83.4
	Total Lower CI	196,488 135,181	59,306 41,349	608,776 417,224

Forest inventory results

Number of trees per ha by species and diameter classes
Total number of Plots: 18 Selected Stratum: \* All strata

	Chiss C	ì									D CHAS II											V. centra	A Floor A	Category 149	Total for all s
Authonolia fragrans		sucograms gaponensis	eyonalbus augolensis	Officials atticana	Munnitea africana	Erythrophieum spp	proceeding total	Didalogia di	Daniella theritare	Antopyxis klinineanu		The thing near seasons are	Terahertan interest	Binto Joseph Street	Lonhira albra	Ucriticia utilis	Gilbertiodendron preussij	Chlorophorn spp (Regin ex.)	Ceiba pentandra	Canatium schweinfurthii	Brachystegin leonensis			Botanical name >= 150	Total for all species categories:
1.2	39.3	2.5	1.2	**	em iss	4.9	1.6	N.	1.2	6.1	34.4	24.0	9.8	+	17.6	4 :	51.12	1.2	- 1	17	1.2	120.3		Total max	194.0
	13.5			2.5	i.	2.5				1.2	7.4	-			11.1	1000		1.2				39.3		40-49	60.2
	4.9		N	NJ T <sub>e</sub> A			- 2		5	37	\$ 50	4	1.2		4.9	17.6	į					30.7		50-59	45.4
1.2	7.4			2.5			2.5	1.7		1.2	7.4	9		2.5	1.2	12.3			***************************************	7.5	12	25.8		60-69	40.3
	4.9	2.5		3	į	3 6	2 5	5			8.0		3.7	2.5		3.7			2.1	2		1.1		70-79	25 %
	o. ∞													1 2		3.7						6.1		80-89	14.7
												10	77 1	1.7		1.2		1.2				7.4		90-99	¥
																								100-109	
																								110-119	
																								120-129	
																								100-109 110-119 120-129 130-139 140-	
																								-011	

	Category [49
Calpocalyz spp (aubrevillei) Diafium spp Dideletia brevipaniclata Fagara macrephylla Haunou klaineaum Klainedoxu gubenensis Other species Paritari excelsa Parkia bisofor Uapaca spp	Botanical name >= 150
19 12 12 12 12 12 13 14 15 16 16 16 17	Total max
1.2 1.2 1.2 1.2	40-49
1.2 1.2	50-59
112	60-69
17 12	70-79
ಜಕ ಪ	80-89
	90-99
	601-001
	110-119
	120-128
	100-109 110-119 120-129 130-139 140-
	140-

MMI

Forest inventory results

1~1mi

# Volume per ha by species and diameter classes Total number of Plots: 18 Selected Stratum: \* All strata

B Class H		Total for all s Category [49]  A Class A
Anopyxis klaineana Horrbax buonepozense Daniella thurifera Dideloda idea Erythrophloum spp Maumea africana Oldfieldia africana Pyundidida africana Pyundidida africana	Brachystegia leonensis Canarium schweinfurthii Ceiba pentandra Chlorophora spp (Regia ex.) Gilhertiodendron preussii Horntera utilis Lophica alata Piptademastrum africanum Tetraberlina tubmaniana	Total for all species categories:  Category Botanical name  [49] >= 150
90.7 12.5 3.5 7.7 22.1 12.3 10 20.5 8.6	140 130 130 139 1412 1412 402 452	545 g Total max
1.0 2.5 2.5	5.83.	40-49
21.3 6.6 3.5 3.2 2.5	31.1	50-59
23.3 23.3 4.1 2.8 8.2 8.2	40 71 402 402 402 33	127.3 60-69
86 43 373 91 48	51.6 5.8 11.1 16.6	113.1 70-79
	36.1 22.4 2.7 6.0	87.9
	613 119 118 247	61.3 9 <b>0-</b> 99
		100-109
		110-119
		120-129
		100-109 110-(19 120-129 130-139 140-
		140-

			Category 149	C Chiss C
Other species Parkin becolor Hapmen sup	Fagara macrophylla Hannon klaineatha Klainedoxa gabitaensis	Calpocalyz spp (anhievillei) Dialium spp Didelutia brevipanichta	Botanical name >= 150	Anthonotha fragrans
2.6 64.9 18.8 7.1	7.8 7.8	7.6 1.3	Total max	3.0
5 <del>5</del> 5	5	3.7 []3	40-49	51
2.6 4.9 2.2			50-59	9.7
3.4		3.9	60-69	3.0
≫ ~	5.		70-79	24.1
31.8	1		80-89	8.15
			90-99	
			100-109	
			110-119	
			120-129	
			100-109 [10-119 [20-129 [30-139	

140-

Forest inventory results

## Stocking per ha by species and size Total number of Plots: 18 Selected Stratum:

All strata

Sacuglottis gabonensis	Pyonathus angolensis	Changing and Callin	Oldfishing	Manning africans	Erythrophleum spp	Didelotta idea	The state of the s	Daniella dun Gra	Bumbay buonggozense	Anopyxis klamenia	10 K-10125 D	It Chan D	retraberlinia tubinaniana	· · · · · · · · · · · · · · · · · · ·	Dritt Manuage Color	Lophica afata	Herriera nelle	Gilbertiodendran preussii	Chlorophora spp (Regia ex.)	Cerba pentandra	Canarian schweinfarthii	Brachystogia leonensis		A Class A			Category Botanical name	de 13
ty.	- 72	8.6	1.2			1.0	2.5		- 0.5		34.4		346	8.6	~ 4	17.2	0.40	A			1 7	- 7	1.70.3		(sten	Nu.		π.
7.3%	0.6%	4.486	0.635	600,000		3 796	1.396			3	17.7			3.796					0.020		2000		62.0		(stems/ha)	Number		0.40
0.9	0.7	7.1	0.2	1.3		20	6.0	0.3	- 4		9,5	1000	4.0	4.9	3.2	2.9	14.6	4.0	1 6	2 -	- 5	5	33.1		(m2/ha)	Basal area	Tree	22
1.7%	0 886	2 99%	0.3%	2.5%	4000	: 70%	1.5%	0,6%	2.6%		17.4	7.070	2000	8.996	5.8%	5,4%	26.8%	0.4%	1.0%		0,729		60.8		(ha)	13.03	Trees with dbh>=40cm	<del>2</del> 75
86	2 0	20.5	0.1	12.3	46.4	33 +	77	3	12.5		90.7	40020	16.3	49.5	40.2	24.7	141.2	10	13.9	13.0	4.0		333.3		(m3/ha)	Volume	[bh>=4	35 25 25 25 25 25 25 25 25 25 25 25 25 25
7.688	2 000	0.000	0.2%	3.396	4,070		1 195	9.6%	2,726		200	42,60	400	2 554	2,4%	4.5%	35,3%	0.3%	1.0%	2.456	0.7%		67.7	ુ	(fra.)	33,715	0cm	×
3 P		^	÷	59	0,	00	50	39	54	100	59	90		75	74	47	59	46	96	64	63		39	(vini)				60
 -1 00	10		10	Ħ	18	5	7	N.	ū	3	5	-6	5	ē	21	16	15	16	26	19	100		5	600	rieight			16
	2.5				3.7	1.2		17,07%	e: 2	0.0		2.5	3.7				160		1.2			# T. I	24.6	(stems/ha)	Number		=	49.1
	5.0%			177	1 50%	7.53%	6	200000	362 E	113	i	5.0%	7.596	2,000	3 402		792 C		2.595				500	s/ha)	ber	ALC: CAN	igu soa	ы
	0.9			9	-	0.5		60.0	2	3.1			NJ Z			10.0	ı,		0.9					(m2/ha)	Basal area	-1100		22.7
	0.9 3.9%			0.000	2000	21%		1,079	7.00%	13.8		1 406	10.7%	3,496		31.470	7 1 27 102		399 3 998			1430 02.8 135.5 53.7	5	(E)	area	HUII SUITH COLOMBIA CASTA		-1
	8.7			10.5	4.0	4.9		<u>.</u>	9	32.8	3	7 7	24.7	11.8		33		1	D 1.1			133.3		(m3/ha)	Volume	HIII		252.2
	3.496			20,050	1000	1.9%		1,000		13.0	1. E V	7	9 88%	4.7%		30,736	30.00	Acres of	5 40%			53.7		ha)	me			1.2
	Q.			99		-21		0.2		68	ø	N 1	e,	90		7		8	2			19.2		(cm)	dbb			-1

90 92 77

Cat	0
egory	Class C
Botanical	
eat name	

39.3

30.3

11.9

27.8 121.8

13.

62

7

16.0 32.5

7.5

13.54

83.8 33.2

78

METH

Trees with dbh>=cutting limit

Basal area (m2/ha)

(m3/ha) Volume

(cm)

(stems/ha) Number

1.2 2.5%

0,4 7.6%

3.9 /.5%

92

Z		Tree	Trees with dbh>=40cm	)t= <t< th=""><th>cm</th><th></th><th></th></t<>	cm		
(stems/ha)	/ha)	(m2/ha)	ha)	Volume (m3/ha)	hu)	(CIB)	Height (nr)
13	0.6%	0.3	0.6%	3.0	0.05%	8	S 16
4.9	2.596	0.8	1.5%	7.6	1.4%	45	16
-	0.6%	0.2	0.3%	Į,	0.2%	40	93
12	0.6%	0.2	0.3%	H	0.226	40	T
- 1-1	0.6%	0.2	0.3%	1.2	0.2%	£	5
-	0.6%	0.5	1.0%	6.2	1.1%	7.5	8.1
F-3	0.6%	0.7	1.3%	7.8	1.496	20	20
1.2	0.6%	0.2	0.496	2.6	0.586	50	12
16.0	8.296	5.9	10.9%	64.9	11.9%	69	17
ti	3.296	2.0	3.7%	8.81	3,4%	64	17
3.7	1 986	8.0	1,496	7.)	1.194	52	5

12 12

1.5%

0.7

2,4%

5.2 7.8

1.19%

8 3

20.0% 5.0%

30.8%

53.8 21.3% 12.1 4.8%

80 88

Other species

Mainedoxa gabonensis Hannoa klaineana Fagara macrophylla Dialium spp

Dideletia brevipanielata

Calpocalyz spp (aubrevillei) Authorotha fragrans

Parkin bicolor Parmari excelsa

Forest inventory results Total stocking by species and size Total number of Plots: 18 Total Area: 4.045 (100%) Selected Stra

	Category But		-		Pvr		Ma		Di	Da	Be	Λn	B Chas B		7.	<b>b</b>	Fair Control	H	9	G	0	Ωι		A Class A			Category	Total for all species entegories:	
The state of the s	Branica barra		aucoBiotras Busolicasia	Out with a migrature to	Pentalhus mindossis	Oldfieldis atricana	Manunea africana	Erythrophleum san	Didefolia idea	Daniella timrifera	Bombay huoriorozense	Anonyxis klameana		* CHAOCHHAIL HOHAMARA	Telrahadain ich	The state of the s	Lonbira alata	Heritiera nelle	Gilbertiodendron money	Chlorophora em (Paris ac.)	Ceiba pentandra	Canarium schweinfliebii	Tolkhoo San January				Botanical name	ies entegories:	
	396,488		12,280	6,140	25,522	95179	24.561	100,000	12,280	01-10	107,00	136101	17:03-	122,805	49,122	36,841	85,963	170,131	6.140	0-1-0	18,42)	6,140	501,744		(stems)	Number		970.158	
Tree	30.3		1.3%	0.6%	4.4%	0.6%	2.5%	5.2%	1.3%	0.6%	3.2%	2007	4	12.7%	5.1%	3.8%	8 986	27,896	0.6%	0.6%	1.9%		62.0			7		70	
Trees with dbh>=40cm	59,306		4,726	1,254	10,643	118	6,679	10,185	4,469	1,679	7.036	47,482	100000	24,424	24,382	15,862	14,685	73,029	1,020	4,444	5,835	2,038	165,719	8	(m2)	Basal area	Trees with dbh>=40cm	272,507	
40cm	$N E_{c}$		1.7%	0.5%	3,99%	0.326	2.5%	3.7%	1.6%	0.6%	2.69%	1774	05/85/75	9.0%	S 986	5.896	5.4%	26.8%	0.4%	1.6%	2796	0.7%	8.00			E.	×=40cm		
	608,776		43,031	12.392	102,430	5,209	61,506	110,352	38,562	17,405	62,731	453,618	C. D. Common	226.015	247,655	201.155	123,375	705,789	8,223	69,597	64,755	20,009	1,666,572	(com)	(1,44)	Volume		2,728,966	
	[3]		1.6%	0.5%	2887	0,296	2:396	2.0%	1.496	0.6%	13.55	16.6	0.279	202	J 19%	7.49%					2.466	0.7%	1.79					9	
Tree	79,823				12 280			18 421	6.146		6.140	42,982	12,230	138,01	0,140	08.1.70		79 873	0.000	5.140			122,805	(stems)	1901llux;	2	н	245,610	
s with db	13			Section.	800 8			7 50%	20%	200000	7 506	17.5	3.0%	1.3%	0.00	1 500	0.410.00	79.824 25.6%		7 59%			50.0		-215-		rees with		
	37,892			4,401			170'0	0.000	117.6	- Pro-00	3517.5	15,696	3,832	12,165	3,900		consec		257774	4.1.4			60,002	(m2)	Dasal area		Trees with dbh>=cutting limit	113,590	
Title	<u>12</u>			5.37%	7 200		0,029	2707	2 70%	2000	1 65/	13.8	3.4%	10.756	3.496	2000	16.479	**	0.550	7 610 6			52.8		#	4			
	419,075	Ŷ.		43,416	i		/5,/83	C04,42	40.000	70007	3	164,106	38,697	123,698	58,884		386,788		09,397				677,664	(111.3)	Volume			1.260,845	

Mon

Parkia bicolor Uapacu spp	Claimedoxa gabonensis  Other species	Didelotia brevipaniclata Fagura unacephydla Homos University	Calpocalyz spp (aubreville) Dialium son	Anthonella fragrans
	5.140 0.6% 6.140 0.6% 6.140 0.6%			
29,739 19,626 3,918	5 2713 1.6% 5 3.484 1.3% 1.206 0.4%	772 772 772	4,169	Basal area (m2)
	31.224 1.1% 39.244 1.4% 12.892 0.5%			Volume (m3)
49,122 20.08 12,280 5.0%	6.140 2.5% 6.140 2.5%		6 MO 3 8%	Number (stems)
23,668 6,173	6 2,713 2,4% 6 3,484 3,1%	10.14		Basal area (m2)

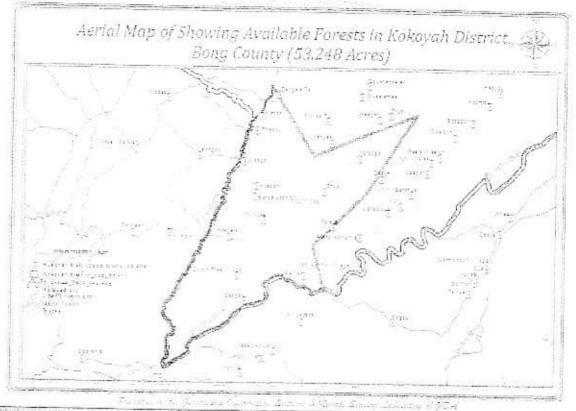
268.757 60,361

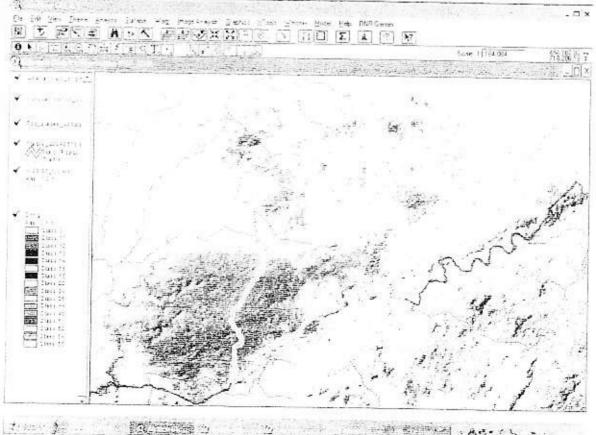
31,224 39,244 19,490

(m3) More of the

7

### Maps of the Area Surveyed.





15

### **Findings**

Following an intensive tour by our technicians we observed and authenticated that:

- The Technical description/Metes & Bounds of Kokoyah deeded land property was plotted and verified on the grounds using high precision gadgets by Messrs.

  Brown, Laffor and Sambollah;
- Kokoyah's commencement/starting point in the deed commences at a point marked on the surface of planet earth Latitudes 6°24'12.56"N-9°39'58.14"W;
- After plotting the bearings and distances on the deed with captured coordinates, it was observed that 100% of Kokoyah's deeded land falls into Kokoyah District, Bong County,
- Indeed the Kokoya's deed bearings and distances are well computed;
- The total available land mass for commercial logging within Kokoyah's District is 53,248 acres;
- The area is the home of some protected wildlife animals species
- Topographically, the entire land mass of Kokoyah's District deed submitted to FDA is relatively flat with two major water ways, namely Saint John River and the Zor River.
- The areas are truly located in Bong County.

### Recommendation

In view of the verification and confirmation of these documents by the Forestry Development Authority, coupled with our ground truthing, we herein recommend the followings:

- That the deed be validated by the Ministry of Lands, Mines & Surveys, to enable FDA surveying crew conduct a cadastral survey, also, FDA should perform a Sensitivity Analysis on the Kokoyah's Tribal property to avoid future encroachment by Campwood Gheegbarn District thou the Zor River serve as a major boundary between the two counties and districts. After reauthenticating the deed and found legitimate, with coordinates of perimeters provided to FDA GIS Laboratory, the FDA should perform the below activities:
- As per National Forestry Reform Law (NFRL) of 2006 provision in chapter five section 5.6, we therefore recommend that FDA Management issue a <a href="Private Use Permit">Private Use Permit</a> for Kokoyah District commercial Land totaling <a href="53.248">53.248</a> <a href="mailto:acres">acres</a> to the people of Bong County in compliance with all relevant requirements of this section (particularly section 5.6 c (i,ii,iii) and d (i,ii,iii,iv,v,vi) respectively.

FROM

PROSPECTION TEAM Monrovia, Liberia

MBrown Ti

### Private Use Permit