LIBERIA NATIONAL WORKING GROUP ON SUSTAINABLE FOREST MANAGEMEN	Γ
LIBERIA ATO/ITTO PRINCIPLES, CRITERIA, INDICATORS AND CHECKLIST FOR SUSTAINABLE MANAGEMENT OF LIBERIAN NATURAL FOREST $2^{nd}\ Draft\ after\ field\ testing$	
2 Draft after field testing	

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LIST OF ABBREVIATIONS

ATO African Timber Organisation

C&I Criteria and Indicators

CBA Collective Bargaining Agreements
CBD Convention on Biological Diversity

CFDCs Community Forest Development Committees

CITES Convention on International Trade in Endangered Species of Wild Fauna and

Flora

CoC Chain of Custody

EIA Environmental Impact Assessment FDA Forestry Development Authority

FMC Forest Management Contract FMP Forest Management Plan FMU Forest Management Unit

FUP Forest Use Permit

GMOs Genetically Modified Organisms
ILO International Labour Organisation

ITTA International Tropical Timber Agreement ITTO International Tropical Timber Organisation

IUCN World Conservation Union

LEITI Liberia Extractive Industry Transparency Initiative

LFI Liberia Forest Initiative

LISGIS Liberia Institute for Statistical and Geographic Information Systems

MLME Ministry of Land, Mines and Energy (
NFRL National Forestry Reform Law
NGOs Non Governmental Organisations
NIC National Investment Commission
NTFPs Non-Timber forest products
NWG National Working Group

PCIs Principles, Criteria and Indicators

PPCC Public Procurement Coordination Committee

PSPs Permanent Sample Plots
PUP Private Use Permit
PWYP Publish-What-you-pay
R&D Research and Development
RIL Reduced Impact Logging

SEMP Social and Environmental Management Plan

SIA Social Impact Assessment SOP Standard Operations Procedures

TC Technical Committee
TSC Timber Sales Contract
WHO World Health Organisation

1.0 INTRODUCTION

The Liberia ATO/ITTO Principles, Criteria and Indicators or Standard for the Sustainable Management of Liberia Natural Forests was developed with the support of the phase II of the ATO/ITTO project PD 124/01 Rev.2 (M) on sustainable management of African Forests for the Technical Committee (TC) of the Liberia National Working Group (NWG) on Sustainable Forest Management (SFM).

This standard aims at helping

- (i) the State to put in place the necessary legal and institutional frameworks that creates the enabling environment for the practice of sustainable forest management in Liberia
- (ii) forest managers to implement the Liberia ATO/ITTO PCI in practice by providing verifiers and sources of information for each indicator and sub-indicator of forest management
- (iii) auditors to plan well focused audits and identify means of verification and information sources for each indicator and sub-indicator
- (iv) other stakeholders in monitoring and evaluation of Liberia forest management.

The standard is drafted under four Principles. Principle 1 covers the national level objectives, legislative and institutional framework and administrative resources; This is not applicable at the FMU level. Principles 2 to 4 and the related Criteria, Indicators and sub-indicators are for FMU level I.

Chapter 2 presents the core definitions of related sustainable forest management and forest certification. Chapter 3 gives an introduction to how the manual is structured and how it can be used in practice and chapter 4 the core PCIs with checklist.

2.0 **DEFINITIONS**

Auditing

Systematic and independent examination to determine whether activities and related results comply with set requirements.

Biological Diversity

The variability among living organisms from all sources including, *inter alia*, terrestrial, marine and other aquatic ecosystems and the ecological complexes of which they are part; this includes diversity within species, between species and of ecosystems¹.

Criterion

An aspect of forest management that is considered important and by which sustainable forest management may be assessed².

Concession

Forest concession is a forest area granted by government of regional administration for a specified purpose, e.g., timber procurement and for a specified time period.

Concession Contract

Concession contract defines the concession area and the terms for the extraction and use of the resources.

Chain of Custody

Chain-of-custody is the path taken by raw materials from the forest to the consumer, including all successive stages of processing, transformation, manufacturing and distribution.

Forest Management Document

Forest management document is a detailed long-term plan (5 to 20 year) for the management and use of forest resources. It defines the management objectives and restrictions for the management and use of forest resources and presents the planned activities on different forest compartments.

Forest Management Unit (FMU)

A forest management unit (FMU) is a clearly defined forest area, managed to a set of explicit objectives and according to a long-term management plan.

¹ The Convention of Biological Diversity

² Revised ITTO Criteria and Indicators for the sustainable management of tropical forests including reporting format. ITTO Policy Development Series No 15.

Forest Type

A naturally occurring community of trees and associated plant species of definite botanical composition with uniform physiognomy (structure) and growing in uniform ecological conditions whose species composition remains relatively stable over time. These are most often scientifically described at the 'association' level².

Indicator

A quantitative, qualitative or descriptive attribute that, when measured or monitored periodically, indicates the direction of change in a criterion².

Local Population

Local population includes all the groups of populations, which reside in the zone of influence of the FMU (indigenous, allogenes and other).

Natural Forest

Forest land composed of indigenous trees, not planted by man, and further classified using the criteria of forest formation (or type), degree of human disturbance or modification, and human interference²

Permanent Forest Estate

Land, whether public or private, secured by law and kept under permanent forest cover. This includes land for the production of timber and other forest products, for the protection of soil and water, and for the conservation of biological diversity, as well as land intended to fulfil a combination of these functions².

Principle

A fundamental law or rule, serving as a basis for reasoning and action. Principles have the character of an objective or attitude concerning the function of the forest ecosystem or concerning a relevant aspect of the social system that interacts with the ecosystem. Principles are explicit elements of a goal, e.g. sustainable forest management³.

Stakeholders

Any individuals or groups who are directly or indirectly affected by, or interested in, a given resource and that have a stake in it².

Sustainable Forest Management (SFM)

SFM is the process of managing forest to achieve one or more clearly specified objectives of management with regard to the production of a continuous flow of desired forest products

Lammerts van Bueren & Blom 1997. Hierarchical Framework for the Formulation of Sustainable Forest Management Standards. Tropenbos.

and services without undue reduction of its inherent values and future productivity and without undue undesirable effects on the physical and social environment².

Productive Functions of Forest Resources

Forests and trees outside forests provide a wide range of wood and non-wood forest products. The theme expresses the ambition to maintain a high and valuable supply of primary forest products, while at the same time ensuring that production and harvesting are sustainable and do not compromise management options of future generations².

Protective Functions of Forest Resources

The theme addresses the role of forests and trees outside forests to help moderate soil, hydrological and aquatic systems. Forests may reduce risks or impacts of floods, avalanches, erosion and droughts and contribute to the maintenance of clean and healthy water ecosystems. Protective functions of forest resources have strong cross-sectoral aspects, as the benefits to agriculture and rural livelihoods are high⁴.

Socio-economic Functions

The theme addresses the contributions of forest resources to the overall economy, for example through employment, values generated through processing and marketing of forest products and energy, trade, and investments in the forest sector. The theme also addresses the important functions of forest to host and protect sites and landscapes that have high cultural, spiritual or recreational values, and thus include aspects of land tenure, indigenous and community management systems, and traditional knowledge²

Verifier:

Data or information that enhances the specificity or the ease of assessment of an indicator. At the fourth level of specificity, verifiers provide specific details that would indicate or reflect a desired condition of an indicator. They add meaning, precision and usually also site-specificity to an indicator. They may define the limits of a hypothetical zone from which recovery can still safely take place (performance threshold/target).

On the other hand, they may also be defined as procedures needed to determine satisfaction of the conditions postulated in the indicator concerned (*means of verification*).

CIFOR, 2003

Eg. The FMU manager possesses an adequate information base on relevant legislation and rules in force

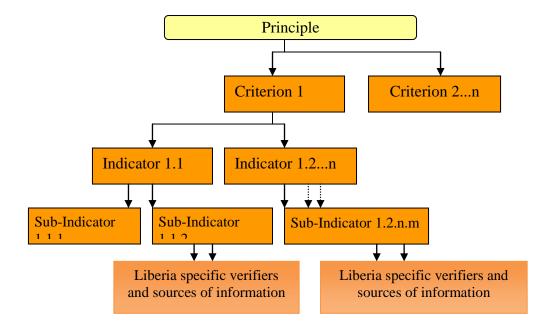
⁴ http://www.fao.org/

3.0 HOW TO USE THIS LIBERIA PCIS

The objective of the Liberia ATO/ITTO Principles, Criteria and Indicators (PCI) or the Liberia Forest Management Standard is to facilitate understanding of the requirements, guide the implementation in practice and provide tools to verify how forest management conforms to the PCI.

As mentioned earlier, this Liberia ATO/ITTO PCIs or Liberia Forest Management Standard was developed based on the framework of the ATO/ITTO PCIs. This standard focuses on both the national level and the forest management unit level requirements. They are framed on principle1, 2, 3 and 4 of the ATO/ITTO PCIs. The ATO/ITTO Principles set the general outline for the different elements of sustainable forest management. The Criteria and indicators define the requirements and level of performance standards that forest management should conform to (Figure 0.1). This Liberia ATO/ITTO PCI or National forest management standard has incorporated qualitative performance requirements and quantitative specifications requirements of Liberia forest management based on Liberian conditions

Figure 0.1 Structure of the Liberia ATO/ITTO PCIs



This Liberia Forest Management Standard provides verifiers for the various criteria and indicators and sub-indicators in forest management planning, implementation, and monitoring at the national level and in all types and sizes of forests in Liberia. It gives examples of relevant information sources on each indicator and sub-indicator. As regards verification, examples of required evidence (verifiers) based on documentation or field observations are provided. This standard can also be a guide for training of forest managers for the implementation of forest management in Liberia. For auditors' training it provides a practical reference document for audit exercises. The principle 1 is to guide national evaluation and reporting on the country's conformance to the requirements of creating the enabling environment to support national level sustainable forest management objectives.

The Principles and Criteria are printed in bold letter and are placed on top of the tables. The Indicators and Sub-indicators are printed in normal *italic* font and are placed in column one and two respectively of each table. The intent and spirit of each principle and criterion, as stated in the ATO/ITTO audit manual are printed under the original ATO/ITTO text in italics and put in brackets. The principles, criteria and indicators are normative and constitute the original text of the ATO/ITTO PCIs. In column three and four of each table are the verifiers and sources of information respectively. This Liberia specific information are printed in normal text. The same verifiers and sources of information can provide information and evidence for several indicators.

The last column on the table is for users' such as auditors' to remarks on conformity to each element verified. In practice the space is adequate only for summary notes. Contract holder's staff may use the standard as a checklist in internal revisions and note the remarks on each verified element.

The table 1 of annex II of the standard lists a number of documents that should be available for a forest management and define extensive information that should be included in these documents. Annex II presents a table listing

- (i) the national level documents, regulations, etc. that the contract holder should take into consideration,
- (ii) FMU level administrative documents and plans that set the framework for forest management,
- (iii) guidelines and instructions that the contract holder should develop for systematic implementation of this standard,
- (iv) records,
- (v) monitoring reports, and
- (vi) development initiatives.

Compilation of these documents is desirable for effective standard implementation and auditing.

Table 1 in annex II helps the contract holder check that she/he has taken all the elements of the PCIs into consideration in forest management system (planning, implementation and monitoring). The information is useful also for an auditing process because it helps to plan a well-focused auditing.

4.0 PCIs AND CHECKLIST

Principle 1

Sustainable forest utilization and maintenance of the multiple functions of forests are a high political priority

Criterion 1.1 The State has clear objectives for the sustainable utilization of the forest heritage and a realistic action program for their achievement

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
Indicator 1.1.1At	the international level, Liberia has	Legal instruments related to ratified	FDA, Ministry of	
ratified or accepte	ed the treaties, conventions or	conventions or accepted treaties	Agriculture,	
recommendations	related to the sustainable	Lists of conventions or treaties that have	Ministry of Environment	
development of fo	rests	been ratified or accepted by the State of	Ministry of Foreign	
		Liberia	Affairs	
			Conservation	
			organizations	
			Forest Contract holders	
Indicator 1.1.2		National Forestry Reform Law 2006	CITES,	
In Liberia the clas	uses of all international agreement	Wildlife laws	ILO Convention	
- C	tainable development of forest, such	Labour laws	ATO/ITTO Agreement	
as the African Tin	aber Organization (ATO, the	Trade laws	CCBD	
-	pical Timber Agreement (ITTA), the		Framework Convention	
	ernational Trade in Endangered	Responsible national authorities have	on Climate Change	
	auna and Flora (CITES, the our Organization (ILO), the	focal persons for all such agreement	Etc	
Convention on Bio	ological Diversity , the Framework	Copies and further sources of information	National Forestry Reform	
Convention on the	Climate Change, etc, are respected	relating to agreements are available at national focal points	Law 2006	
		Discussion with stakeholders	Liberia National Forest	
			Management Strategy	
		Field observations		
Indicator 1.1.3		National Forestry Reform Law 2006	National Forest Policy of	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
There is a forest p	olicy and related forestry laws	Ten Core Regulations 2007	Liberia	
which are recogn	ized by the various stakeholders.	Code of harvesting practices	National Forestry Reform	
This forest policy	and its laws prescribe the norms for	Guidelines for forest management	Law 2006	
forest managemen	t, resource allocation and resource	planning in Liberia 2009	FDA guidelines for forest	
use in order to acl	hieve sustainable management		management planning	
		Policy and laws formulation consultation	FDA Code of Harvesting	
		workshop participants and report	Practices	
			Draft Community Rights	
		Stakeholder inputs in the policy and laws	law	
		Discussion with stakeholders		
Indicator 1.1.4		FDA public awareness programmes and	FDA Head Office,	
The forest laws an	d directives and all other national	actual activities such as (workshops,	Regional offices	
guidelines and no	orms of forest management are	sources for hard and soft copies of policy	Community Forest	
known by the stake	eholders	and laws, news paper publications, brochures etc)	Development Committees (CFDC)	
		brochures etc)	Forest contractors	
		Local instruments are evailable to the	National NGOs,	
		Legal instruments are available to the public (contract holders, local authorities,	Community Based	
		local communities, national and	Organizations (CBO)	
		international partners,)	Civil society	
		international partners,)	organizations (CSO)	
		Discussion with relevant stakeholders	organizations (CSO)	
Indicator 1.1.5		Permanent Forest estate gazette	Discussion with FDA and	
	rest estate exists as a result of	Land use suitability map for commercial,	other stakeholders	
1 0	en different stakeholders within the	conservation and community forests	National Forestry Reform	
	rocedure of coordinated planning for	conservation and community forests	Law 2006	
	ion. This land-use allocation is	Tribal Land certificates	Liberia National Forest	
	e objectives of the forestry laws.	Thom Dana Commouted	Management Strategy	
Consistent with the	objectives of the forestry tuns.	Liberia National Forest Management	Tranagement Strategy	
		Strategy	FDA Forest Management	
		24446)	Suitability Study of 2006	
		Reports of stakeholders consultation	report	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
		workshops or meetings		
			FDA Justification	
		Liberia community rights law 2009	Documents	
		Forests have clearly defined boundaries	Community Forest	
		on the ground and on map	Development Committees (CFDC)	
		Forests reservation followed existing	Forest contractors	
		land-use allocation framework, eg	National NGOs,	
		appropriate compensation paid,	Community Based	
			Organizations (CBO)	
		Discussion with stakeholders	Civil society	
			organizations (CSO)	
Indicator 1.1.6		Liberia forest / concession laws have	National Forestry Reform	
The procedures clearly defined an	for access to forest resources are d respected.	resource allocation procedure	Law 2006	
	•	Resource allocation procedure is public	Public Procurement and	
		information	Concessions Act (PPCA)	
		Resources allocation procedures followed	Community Forest	
		in the allocation of forest resources	Development Committees	
		(Minutes of resource allocation meetings)	(CFDC)	
		No conflict related to access to forest		
		resources		
		Tribal Land certificates		
Indicators 1.1.7		Liberia forest laws clearly defines local	FDA guidelines for forest	
	stomary rights of local populations	customary and legal rights for lands	management planning	
	nership, utilization and management	adjoining forest reserves	FDA Code of Harvesting	
	rces near the permanent forest estate	Liberia community rights law 2009	Practices	
are clearly define	d, recognized and respected.	Tribal Land certificates	Liberia Community	
		Rules exist for dealing with violations of	Rights law 2009	
		local customary and legal rights for lands	Liberia National Forest	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
	·	adjoining forest reserves	Management Strategy	
Indicator 1.1.8		There is national Multi-resource inventory	FDA Head quarter	
At the national le	evel, the definition of the underlying	of the resources	_	
legislative frame	work for the sustainable management	Guidelines for forest management	Fauna and Flora	
of the forest herit and knowledge of	tage is based on current information f its ecology	planning in Liberia	International (FFI)	
0 3	, 67	FDA/IUCN topology report 2008	Conservation International (CI)	
		Management Suitability Study of 2006	International (CI)	
		Report Report	Green Advocates	
		Liberian forest reassessment report 2007	Discussion with FDA (Research and	
		Management Suitability Study of 2006	Development Dept) and	
		Report	other stakeholders	
			Liberian Institute for	
			Statistical and	
			Geographic Information	
Sub-indicator 1.1	101	Central Database for all forestry activities	System (LISGIS)	
	search are published and placed at	Central Database for an forestry activities	Discussion with FDA and	
	oth administrators and economic	Copies of published research/studies	other stakeholders	
operators	nn dammstrators and economic	results available within a unit in FDA	Forest contractors	
operaiors		results available within a unit in 1 B/1	Torest contractors	
		Relevant official and contract holders		
		have access to information		
Sub-indicator 1.1	1.8.2	Copies of research publication	Discussion with FDA and	
U	search and new scientific findings as		other stakeholders	
	data are taken into consideration for	Revised Liberian legal instruments		
the updating of for practices related	orest laws and other legal texts on the to forest use.	Promotion of lesser known species	FDA GIS Lab. Reports LISGIS	
		Current research finding known by relevant officials		

SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
	Current research findings used in updating laws and FMU level rules		
etional industrial policy favorable to the nagement of the forestry sector	Liberia industrial policy rewards practice of SFM and sanctions anti-SFM practices	Liberia's Industrial Policy	
1.1.9.1 I laws offer a secure and favorable sustainable industrial investment	Liberia Industrial policy New regulation on processing and marketing (112) NTFP Regulations (111) Industrial policy and related laws have provision for rewarding investment in SFM Industrial laws have provisions for investment incentives based on sustainability of the forest resources	FDA Ministry planning and economical affairs	
l.1.9.2 ter plan for industrial development.	Master plan / strategy exist Copy of plan or strategy	FDA Ministry of planning and economic affairs Ministry of Finances Ministry of Commerce Discussion with FDA and other stakeholders	
			Discussion with FDA and

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
			Management Strategy	
Sub-indicator 1.1	.9.3	National processing capacity is based on	Discussion with FDA and	
The processing co	apacities at the national level	the national Annual Allowable Cut	other stakeholders	
	d to respect the regenerative rest so as to avoid over-exploitation	(AAC)		
		Annual processing and other sources of		
		exploitation monitored		
Sub-indicator 1.1	.9.4	The State has AAC based on available	FDA	
On the basis of th	he available information, the FDA	information	Forest contractors	
	n annual allowable cut authorized in	Guidelines for forest management	Forest related NGOs	
natural forests		planning in Liberia 2009		
Indicator 1.1.10		National CITES Convention instrument	The National Forestry	
	xts relating to the use of non-timber		Reform Law 2006	
1	especially the hunting of wildlife and	NTFP Regulations (111)	FDA offices	
	wild produce, respect as well as			
ensure the sustair	nable management of these resources	Wildlife law	Forest Contractors	
		Existing laws have provision for	Forest related NGOs	
		regulating NTFP harvesting and hunting	National forest	
		Existing laws have enforcement (incentive	management strategy	
		and /or sanctions) provisions	Guidelines for forest	
		and for sanctions) provisions	management planning in	
			Liberia 2009	
Indicator 1.1.11		Liberia forest policy has clear statements	National Forest Policy	
	y for sustainable forest management	to promote local processing/trade of forest		
	elopment of the local economy and	resources	The National Forestry	
entrepreneurship			Reform Law 2006	
, , , , , , , , , , , , , , , , , , ,	<i>y</i> =	The National Forestry Reform Law 2006		
		,	National forest	
		National forest management strategy	management strategy	
		New regulation on processing and	New regulation on	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
		marketing (112)	processing and marketing (112)	
Sub-indicator 1.1. The State encourd knowledge and te	iges the full use of local expertise,	Ten Core regulations In the National forestry reform law there is provision for incentives for the use/training of local expertise and knowledge and technology	Discussion with local communities and forestry workers	
		Social agreements		
	.11.2 s receive a portion of the revenue nmercial forest use	Regulations on benefices sharing (106) In National forestry reform law There is provision for % of forest revenue to the local population	Liberia Extractive Industries Transparency Initiative (LEITI) The National Forestry Reform Law 2006	
Sub-indicator 1.1. A percentage of for communities	11.3 prest taxes is paid to local	Ten Core regulations (106) Procedures and mechanisms for accessing benefits by affected communities	The National Forestry Reform Law 2006 Liberia Extractive Industries Transparency Initiative (LEITI)	
	.11.4 are involved in the management of to local communities	Community Forest development committees (CFDC) Ten Core regulations (106) National forestry reform law 2006	Discussion with FDA and other stakeholders Community Forest development committees (CFDC)	
		Social Agreements Framework for involving the local communities in tax revenue exist	Ten Core regulations (106) National forestry reform law 2006	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
			Social Agreements	
Indicator 1.1.12		Liberian forest Reform Law 2006	FDA	
	for the protection and conservation			
of forest ecosyste interest and cultu	ms and of sites of archeological ural value	Protected area management strategy	Forest related NGOs	
			FDA/Department of	
			Conservation and	
			Wildlife management	
			Division of	
			Environmental Impact	
			Assessment (EIA)/FDA	
			National Forest	
			management strategy	
Sub-indicator 1.1			Guidelines for forest	
	ures and guideline are in place and	Wildlife law	management planning	
	in a manner that identifies, protects	Guidelines for forest management		
	diversity of habitats and species at	planning in Liberia	FDA	
appropriate scale		Forest Contractors management plans	E A LA INGO	
	red, rare or threatened species of	D 1 1 11 11 11 11 11 11 11 11 11 11 11 1	Forest related NGOs	
fauna an	5	Procedures and guidelines exist for identification of High Conservation Value	FDA/Department of	
	onents of particular biological	forests	Conservation and	
	such as sites of reproduction, rare	Totests	Wildlife management	
navitats	and key species		whome management	
			Division of	
			Environmental Impact	
			Assessment (EIA)/FDA	
			National Forest	
			management strategy	
			Forest contracts holders	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
Sub-indicator 1.1.	12.2	Guidelines for forest management	Discussion with FDA	
	res and guidelines are in place to	planning in Liberia	Discussion with PDA	
	ct sites of archeological interest and	planning in Liberia	Forest related NGOs	
cultural value	er sines of an encere great timerest and	Officers ToR book	1 01001101000 1 (0 0 0	
		Procedures and guidelines exist for	FDA/Department of	
		identification of High Conservation Value	Conservation and	
		forests	Wildlife management	
		Interviews with stakeholders	Division of	
			Environmental Impact	
		National forestry reform law 2006	Assessment (EIA)/FDA	
		National forest management strategy	National Forest	
			management strategy	
			Forest contracts holders	
Sub-indicator 1.1.	12.3	National Policies, laws, guidelines and	Discussion with FDA and	
	vel, decisions relating to forests of value are taken within the context	decisions are based on available knowledge	other stakeholders	
of the precautiona		Kilowieuge	Discussion with FDA	
of the precumona	ry principie	Land use suitability map for commercial,	Discussion with 1 D/1	
		conservation and community forests	Forest related NGOs	
		National forestry reform Law 2006	FDA/Department of	
		Transfer forestry forestry 2000	Conservation and	
		National forest management strategy	Wildlife management	
		Guidelines for forest management	Division of	
		planning in Liberia	Environmental Impact	
		r 6	Assessment (EIA)/FDA	
		Forests are left in their original state	, ,	
		untouched by decision when there is	National Forest	
		doubt or lack of information	management strategy	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
		Field visit	Forest contracts holders	
Sub-indicator 1.1	12.4	Maps for Protected Areas	Discussion with FDA and	
	protection and conservation of	Waps for Frotected Areas	stakeholders	
	efined and their limits are marked in	Protected Areas have clearly marked	Stakenorders	
the field	ginea and men initia are maniea in	boundaries on the ground	Field visit	
		Field visit	Forest related NGOs	
		Land use suitability map for commercial, conservation and community forests	FDA/Department of Conservation and Wildlife management	
			Division of Environmental Impact Assessment (EIA)/FDA	
			National Forest management strategy	
			Forest contracts holders	
			Local communities	
Sub-indicator 1.1		Protected areas management strategy	FDA	
	rules for protected areas are n by all stakeholders	National forestry reform Law 2006	Forest related NGOs	
		Ten Core regulations	FDA/Department of Conservation and	
		Guidelines for the management planning in Liberia	Wildlife management	
			Division of	
		Rules are communicated to Stakeholder	Environmental Impact	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
		National forest management strategy	Assessment (EIA)/FDA	
			National Forest	
			management strategy	
			Forest contracts holders	
			Local communities	
Sub-indicator 1.1.	12.6 Environment and	Guidelines for forest management	FDA/Department of	
-	plems related to biodiversity are t in national forestry plans	planning in Liberia 2009	Conservation and Wildlife management	
	V V I	Protected areas management strategy	Division of	
		National forest management strategy	Environmental Impact	
		ivational forest management strategy	Assessment (EIA)/FDA	
		National Biodiversity Action Plan	Assessment (Ent)/1 Dit	
		(NBAP)	National Forest	
			management strategy	
			Environmental Protection	
			Agency (EPA)	
			Convention for	
			International Trade of	
			Endangered Species (CITES)	
Sub-indicator 1.1.	12.7	Liberia has procedures for Phyto-sanitary	Ministry of Agriculture	
	and quarantine procedures are in d to prevent the introduction of	and quarantine		
pests and pathoge	-	National body for enforcing procedures exist		
Sub-indicator 1.1.	12.8	Liberia has procedures for regulating	FDA	
Adequate procedi	res are in place and implemented to	introduction of exotic species	Discussion with FDA and	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF	FINDINGS
			INFORMATION	
prevent the introdu	action of exotic plants and animals		other stakeholders	
that could be ecolo	ogically damaging	National body for enforcing procedures		
		exist		
Indicator 1.1.13		National policy has statement on the value	Discussion with FDA and	
National forest pol	licies take into account the potential	of forest carbon	other stakeholders	
value of the carbon	n storage functions of forests			
			Liberia National Forest	
			Management Strategy	

Criteria 1.2 An institutional framework exist to achieve the objectives of sustainable forest management

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
Indicator 1.2.1		The Forestry Development Authority	FDA	
There is an estab	lished and functional forestry	(FDA)	Act of National	
service/administr	ration to ensure the direct or	Act of National legislatures 1976 creating	legislatures 1976 creating	
delegated manag	ement of all forests	FDA	FDA	
		The FDA has direct or delegated		
		management responsibility of Liberia	Discussion with relevant	
		forests	stakeholders	
Indicator 1.2.2		College of Agriculture and Forestry	Discussions with forestry	
There is a resear	ch institution to develop the	(CAF)/University of Liberia	authorities	
necessary scienti	fic and technical knowledge for		Acts creating the CAF,	
sustainable fores	t management	Forestry Training Institute (FTI)	FTI, FDA/RD	
		FAO national Representation	University of Liberia	
		FDA/Research Department	Mission of the FAO in Liberia	

INDICATOR SU	JB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
different stakeholder objectives of the su policy, the implementa	egotiation mechanisms exist at r levels for discussing the ustainable forest management ation of modalities for conflict formulation of common rules	FDA Stakeholders consultations reports FDA Community awareness reports MoU or partnership conventions/agreements with civil society, NGOs, partners	Discussions with stakeholders: FDA, Forest contractors, NGOs, Local communities,	
	romote the participation of particularly rural communities f forests	Community Forest Development Committees Liberia has mechanism for promoting different stakeholders in forest management, Eg Adhoc committee, consultative groups, forest forums etc Liberia community rights law 2009 Tribal Land certificates Community Forest Development Committees	Discussions with stakeholders: FDA, Forest contractors, NGOs, Local communities, Liberia community rights law 2009	

Criteria 1.3

The State provides the necessary means for the sustainable management of forests

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
Indictor 1.3.1 There is a forestry organizational structure responsible for the direct or delegated management of all forests that has adequate, well-trained, competent and efficient human resources for carrying out its mission		Organisational structure of the National Forest Authority (FDA) Number of vacant positions Academic and professional qualification of staff Resources available to staff	FDA Discussions with staff and other stakeholders: Forest contractors, NGOs, Local communities,	
	1.1 recutives is adapted to the needs of istration and various economic	Training records of executives of FDA Training programs of FDA Training programs and records of Contracts Holders Training records of civil society and forest related organizations	FDA Contract holders Civil society organizations Forest related organizations	
compatible with th	1.2 erational staff at all levels is ne mission of the forestry ution and the extent of forest zones to	The number of Forest Authority's (FDA) staff at the head office, regional and the county	FDA organizational structures at the head- office, and regional offices	
of the necessary so for the sustainable	itution in charge of the development cientific and technical knowledge management of forests has ined and competent human ve in mission	Organisational structure College of Agriculture and Forestry (CAF)/University of Liberia, Forestry Training Institute (FTI), FAO national Representation, FDA/Research Department The number and Curriculum Vitae (CV)	Discussion with staff Human Resources departments of: College of Agriculture and Forestry (CAF)/University of Liberia, Forestry Training Institute (FTI), FAO	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
		of technical and administrative staff of the above listed institutions	national Representation, FDA/Research Department	
		Vacant positions		
		Academic and professional qualification of staff of the above listed institutions		
	s are well financed to function and	Annual Budget of the above listed research institutions	Discussion with management of the above	
have the necessar	y qualified personnel	Actual annual revenue and expenditure of	listed forest research institutions	
		the above listed research institutions	University of Liberia	
		Organizational chart and vacant positions of the above listed forest research institutions		
Indicator 1.3.3		National forestry technical training		
The State ensures sector have suffice capacities to suste	that its partners in the forestry rient technical knowledge and ninably manage the forest or activities relating to the	capacity building for national forestry partners (communities, NGO's, Industrial operators etc) exist.	Discussions with FDA and operators	
management of th	ē	There is a responsible national unit or coordinated arrangement to ensure training and capacity strengthening of national forestry partner		
	3.1 that the personnel of operators are plementation of forest management	A national forestry training requirements for forest operators exist.	Discussions with FDA and Operators, civil society, forest related	
activities	and a survey of the survey of	FDA records on trainees from economical operators, civil society, forest related organizations, Community based organizations (CBO)	organizations, Community based organizations (CBO)	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
		The FDA enforces (sanction or incentives) for training of operators staff		
Sub-indicator 1.3 The State implen environmental ed	nents an adequate program of	Environmental Protection Agency (EPA) program for environmental education FDA/Division of EIA program for environmental education Means of implementation Implementation monitoring results	Environmental Protection Agency (EPA) Discussion with FDA, EPA and relevant stakeholders FDA/Division of EIA	
	quate and sustained financing ent including investment and	Information on financing requirements of the forestry sector exist Mechanism for sustained financing of the forestry sector exist Mechanism includes investment and reinvestment	Discussion with FDA authorities Ministry of finances National Investment Commission Ministry of planning and economic affairs	
Sub-indicator 1.3 The State has a s management of fo	special fund to finance the sustainable	Special Liberia SFM fund exists	Discussion with: FDA authorities Ministry of finances National Investment Commission Ministry of planning and	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
			economic affairs	
Sub-indicator 1.3	3.4.2	Liberia forestry laws make provision for	Discussion with FDA	
The special fund	is partially provided from forestry	payment of part of forestry taxes into the	authorities	
taxes, with rates determined by law		Special Liberia SFM fund	National Reform Law	
			2006	
Sub-indicator 1.3	3.4.3	Liberia has regulations to determine the	Discussion with FDA	
The modalities f	for the distribution of the funds	distribution of funds between different	authorities	
	t uses (training, research, nagement, sensitization, information,	uses of a Special Liberia SFM fund	Discussion with:	
	etermined by statutory regulations		FDA authorities	
			Ministry of finances	
			National Investment	
			Commission	
			Ministry of planning and	
			economic affairs	
Sub-indicator 1.3		FDA's forest management budget	FDA	
The funds assigne	ed to the management of the forest			
are made availab	ole promptly and on time.	Disbursement dates and procedures for forest management funds from the special	Ministry of finances	
		SFM fund	National Investment	
			Commission	
			Ministry of planning and	
			economic affairs	
Indicator 1.3.5		Ten Core regulations	FDA	
	s that requisite information for the	Social Agreements	Discussions with FDA	
	akeholders on their rights and		and Operators, civil	
	ng to the management of the forest	There is responsible unit with authority	society, forest related	
are in conformity	with forestry laws.	for reviewing all information for	organizations,	
		sensitization of stakeholders' right and	Community based	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF	FINDINGS
			INFORMATION	
		responsibilities in forest management	organizations (CBO)	
		Reviewing modalities of all such		
		information must aimed at bringing		
		information in conformity with the		
		forestry laws must be agreed with all		
		stakeholders		

Criteria 1.4 The economic and fiscal policies of the State ensure the viability of forestry enterprises

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF	FINDINGS
			INFORMATION	
Indicator 1.4.1		Ten Core regulations	Discussion with	
There are financi	al incentives for the sustainable		stakeholders: FDA and	
management of fe	orests and the industrialization of	Existence of financial incentives for	Operators, civil society,	
forest products		clearly defined forestry	forest related	
		activities/investments	organizations	
		Information on financial incentives for		
		defined forestry activities/investments	Liberia National Forest	
		made available to stakeholders	Management Strategy	
		Financial incentives are operational		
Sub-indicator 1.4	1.1.1 Enterprises shown to be	Ten Core regulations	Discussions with	
engaging in or pi	oneering sustainable forest	Clearly defined SFM	stakeholders	
management ben	efit from financial incentives and	activities/investments		
advantages			Liberia National Forest	
		Evidence of receipt of financial incentives	Management Strategy	
Sub-indicator 1.4	1.1.2 The fiscal rules for those	Fiscal Rules negotiation reports	Discussion with	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
established on a n	e in conformity with the law are regotiated basis and do not penalize ring sustainable management	Liberia Forestry reform law Forest contractors records on received financial incentives	stakeholders: FDA, Forest contractors, civil society, forest related organizations, Community based organizations (CBO)	
	he forestry service /administration do hamper the economic activities of	FDA service charter or documented strategy on administrative procedures Service charter / strategy implemented and monitored (monitoring reports) Discussions with economic operators	Liberia National Forest Management Strategy Discussions with forest contractors, civil society, forest related organizations, Community based organizations (CBO)	
measures to encou	s incentives and implement effective urage the trade of forest products participation of economic operators of such products	National incentive programme for trade in forest products Information on forest products trade incentives made available to economic operators and implemented	Discussions with FDA and contract holders Liberia National Forest Management Strategy Ministry of Finances Ministry of Commerce National Investment commission (NIC)	

Criterion 1.5

The forestry service / administration implements effective measures to ensure the monitoring and evaluation of the implementation of its forestry policy in relation to production, the conservation of ecosystems, and social benefits

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
Indicator 1.5.1		National units for collecting on forestry	Discussion with FDA	
The State has reliable and adequate system for		information and action plans exist (eg		
updating forestry information and action plans and for		information on forest resources from	Ministry of Commerce	
adjusting the available resources as required to implement the action plans		inventory, growth and yield from PSPs, processing and trade information etc)	and Industry	
		Forestry and action plan information		
		collection procedures, periodicity etc are clearly defined		
		Responsible and authorized staff clearly		
		defined		
		National forestry information are stored in		
		appropriate paper and electronic formats		
		with necessary back-ups (Central Forestry		
		database)		
		National forestry information and action plans up-to-date		
Sub-indicator 1.5.	1.1 There is a national forest	Results of national inventory (eg Multi-	Discussion with	
	vides the necessary database for the	resource inventory)	FDA/Department of	
	uation of the State's sustainable	•	Research and	
2	t policy, which is regularly and	Review of state forest takes into	Development	
promptly updated	- · · · · · · · · · · · · · · · · · · ·	consideration current inventorying results		
			FAO national	
			Representative	
Sub-indicator 1.5.	1.2	Updated database for area under	Discussion with FDA	
-	d database on the area of forest	exploitation	Discussions with forest	
under exploitation		Land use suitability map for commercial,	contractors, civil society,	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
		conservation and community forests	forest related	
			organizations,	
			Community based	
			organizations (CBO)	
Sub-indicator 1.5	5.1.3	Updated statistical information on	Discussions with	
There is an upda	ted statistical database enabling the	processing and trade in forest products	FDA/Commercial	
adequate follow-	up and evaluation of all the stages of		Department	
production, proc	essing and commercialization of	Societe General de surveillance (SGS)		
forest products.		data base on timber exploitation		
Sub-indicator 1.5	5.1.4	National inventory includes NTFPs (eg	Discussions with	
Non-timber fores	t products (NTFPs) and their use are	multi-resources inventory)	FDA//Commercial	
identified and inv	ventoried	National inventory report	Department	
			FAO national	
			Representative	
Sub-indicator 1.5	5.1.5	Knowledge for the use of NTFPs includes	Discussions with	
The necessary kn	owledge for the sustainable use of	indigenous and scientific knowledge	FDA//Commercial	
NTFPs is availab	ple	National inventory report Ten Core regulations	Department	
			Ten Core regulations	
			FAO national	
			Representative	
Indicator 1 5.2	s that stakeholders are operating on a	National forest laws require operators to hold titles to their concessions	Discussion with FDA	
	itle deed, with a duration compatible	noid titles to their concessions	National Forestry Reform	
	es of sustainably managing the forest	Duration of contract agreements each	Law 2006	
resources	es of sustainably managing the forest	category of contract clearly stated by law	FDA/Commercial	
resources		category of contract clearly stated by law	Department	
		FDA has authority to enforce compliance	Forest Contractors	
		with administration of forest laws	FMU forest management	
		Forest Management Contracts	plans	
		Timber Sale Contracts		

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
		FMU forest management plans The national forest authority has mechanism for checking the title of each operator		
complete forest n	that each forest concession has a nanagement plan and a concession ets out the obligations of all parties. The formally approved by the relevant	The FDA has mechanism to ensure that relevant contract holders operate by management plan Forest Management Contracts FMU forest management plans FDA approbation of relevant documents and agreements All contract holder has contract agreement Management plans and contract agreements clearly spell out the obligations of FDA and the holder Contract holders operate under approved forest management plan and contract	Discussion with FDA and contract holders FDA/Commercial Department Forest Contractors FMU forest management plans Note: TSCs do not produce forest management plans	
in the forest man	s that the forestry operations describe agement plan are implemented as is approved, and all the clauses in the act are respected	agreement FDA has mechanism for monitoring contract holders obligation under the contract agreement implementation of management plan FDA monitoring Reports	Discussions with FDA/Commercial Department, contract holders, Related forest NGOs, CFDC, CBO, SGS,	
Sub-indicator 1.5 The FDA makes i visits	i.4.1 regular and frequent field-monitoring	FDA monitoring plan FDA Monitoring reports Third parties monitoring reports Field visits	Discussion with FDA/Commercial Department, contract holders, Related forest NGOs, CFDC, CBO,	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
		FDA/Independent Monitoring Unit or FDA/CoC reports	FDA/IMU,	
Sub-indicator 1.5.4.2 The necessary sanctions for non-compliance with forest management prescriptions are enforced		FDA offence register Receipts for payment of fines, notice of	Discussion with FDA/Commercial Department, contract	
Joresi manageme.	u prescriptions are enjorced	suspension etc Third parties monitoring reports	holders, Related forest NGOs, CFDC, CBO,	
		FDA/Independent Monitoring Unit FDA Monitoring reports	FDA/IMU,	
		Field visits		
Indicator 1.5.5 The FDA implements mechanisms recognized by law to limit and control all non-forestry activities in the permanent forest estate		FDA has mechanism for controlling non- forestry activities in forest reserves backed by law Contracts holders monitoring reports Third parties monitoring reports FDA/Independent Monitoring Unit	Discussion with FDA/Commercial Department, contract holders, Related forest NGOs, CFDC, CBO, FDA/IMU,	
		FDA Monitoring reports Communities (CFDC) monitoring reports	National Forestry Reform Law 2006	
		FDA has program/plan for controlling implementing mechanism	FDA tipster procedures	
		Programme / plan implementation reports		
farming and relat	.5.1 The clearing of forest for ted agricultural activities in and ards are controlled and kept within	FDA's mechanism for controlling non- forest activities sets limits to clearing and agricultural activities in and around logging yards	Discussion with FDA/Commercial Department, contract holders, Related forest NGOs, CFDC, CBO,	
		Contracts holders monitoring reports Third parties monitoring reports FDA/Independent Monitoring Unit reports	FDA/IMU,	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
		FDA Monitoring reports Communities (CFDC) monitoring reports		
		FDA monitoring reports / FDA annual reports		
		Field visit		
to protect forest i	ents mechanisms recognized by law under management from illegal ther encroachment activities	FDA has mechanism backed by law for protecting forest under management from illegal occupation and encroachment Contracts holders monitoring reports Third parties monitoring reports FDA/Independent Monitoring Unit reports FDA Monitoring reports Communities (CFDC) monitoring reports FDA has programme/plan for implementing mechanism	Discussion with FDA/Commercial Department, contract holders, Related forest NGOs, CFDC, CBO, FDA/IMU, FDA tipster procedures	
Sub-indicator 1.5		Programme/plan implementation reports State action for reducing pressure on the	Discussion with FDA and	
	emented by the FDA to reduce any exerted on the forest, including that of	Awareness education of stakeholders Wildlife law Ten Core regulations	other stakeholders National Forestry Reform Law	
		Guidelines for the forest management planning in Liberia 2009 Action implementation report / FDA	Discussion with FDA/Commercial Department, contract holders, Related forest	
		annual reports	NGOs, CFDC, CBO,	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
	•	Field visits	FDA/IMU, FDA/Conservation and Community Departments	
Sub-indicator 1.5.6.2 The procedure for the control of any such pressures exerted on the forest exist and are applied		Action implementation report / FDA annual reports	Discussion with FDA/Commercial Department, contract holders, Related forest NGOs, CFDC, CBO, FDA/IMU,	
Indicator 1.5.7 The State ensures that all economic operators are treated equally		State policy on forest resource right allocation is fair to all economic operators State policy forest investment incentives is fair to all economic operators Forestry taxes are fair to all economic operators	Discussion with FDA and other stakeholders National Forestry Reform Law Draft Community Rights Law	
	5.7.1 nents incentives measures to channel es to the formal sector	Programme/Plan for channeling incentives to informal sector NTFP Processing regulations	Discussion with FDA other stakeholders	
Sub-indicator 1.3 All illegal activit the law	5.7.2 ties are punished in accordance with	FDA annual reports Contract termination letters, receipts of fines, suspension letters, court orders etc National Reform Law Ten Core regulations	Discussion with FDA/Commercial Department, contract holders, Related forest NGOs, CFDC, CBO, FDA/IMU, local communities,	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
		Wildlife law	LEITI National News papers	
Sub-indicator 1.5.7.3 All forms of restrictive or restraining measures are applied without discrimination to stakeholders accused of illegal activities		FDA annual reports National Reform Law Ten Core regulations Wildlife law Processing law Community law Contract termination letters, Suspension letters etc	Discussion with FDA and other stakeholders Discussion with FDA/Commercial Department, contract holders, Related forest NGOs, CFDC, CBO, FDA/IMU, local communities, National Reform Law LEITI National News papers National Forestry Reform Law 2006	
Indicator 1.5.8 All forms of damage caused to the property of the local populations by forestry activities are compensated according to the norms in force or after negotiation		National / regional / local norms for assessing damage caused to local population as a results of forestry activities and payment procedures exist	National Forestry Reform Law 2006	
Sub-indicator 1.5 Specialized admir	.8.1 nistrative services are consulted for sues and their decisions are respected	Damage dispute settlement report / minutes	Discussion with FDA and affected parties Ministry of Agriculture Discussion with FDA and other stakeholders Discussion with FDA/Commercial Department, contract holders, Related forest NGOs, CFDC, CBO, FDA/IMU, local communities,	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
			National Reform Law	
			LEITI	
			National News papers	
			National Forestry Reform	
			Law 2006	
Sub-indicator 1.5	.8.2	Damage compensation procedure is made	Discussion with FDA and	
The compensation	n procedure for all forms of damage	available to stakeholders	other stakeholders	
caused to lands u	nder cultivation is respected		Discussion with	
		Procedure is used in all damage	FDA/Commercial	
		compensation negotiations or settlements	Department, contract	
			holders, Related forest	
			NGOs, CFDC, CBO,	
			FDA/IMU, local	
			communities,	
			National Reform Law	
			LEITI	
			National News papers	
			National Forestry Reform	
			Law 2006	

Principle 2

The forest management unit (FMU) designated for whatever form of land-use, is sustainably managed with a view to supplying goods and services.

(The Principle 2 implies that forest managers apply management methods that ensure long-term stable and continuous production of desired goods and services. Forest management methods should not damage biological values of forest ecosystem or social and economic services that the forest provides to people. Forest management should also provide long-term economic benefits without sacrificing the ecological and social services of forests}

Criterion 2.1

Forest management complies with the national policies and legislation in force in the country where it is implemented, and also with all the international treaties the country has ratified.

{Forest management respects national forest policy and all the national and local laws and administrative requirements. The international treaties most relevant in forest management include CITES, ILO Conventions, ITTA, and the Convention on Biological Diversity, the Ramsar Convention, the Framework Convention on Climate Change, the Kyoto Protocol, etc., depending on the country ratification. Ratification usually implies that the provisions are included in the national legislation but if this is not the case forest manager should incorporate the key requirements of these Conventions to the Forest Management Plan that defines how forest is managed in the FMU.

Compliance to legislation also implies that all applicable and legally prescribed fees, royalties, taxes and other charges are paid}

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF	FINDINGS
			INFORMATION	
Indicator 2.1.1			The National Forestry	
The Forest contra	ct holder respects all local and	List of laws and regulations in force in	Reform Law of 2006,	
national laws and	meets all administrative	Liberia	The Ten Core	
requirements		The Forest contract holder possesses an	Regulations	
		adequate information base on relevant	Guidelines to Forestry	
		legislation and rules in force in Liberia	Management Planning,	
			The Code of Harvesting	
		Records on training courses for staff and	Practices	
		workers on rules in relevant management	Liberian Labour Law	
		operations.	Social agreement with	
			communities	
		Sensitisation training schedule of	Field Observation	
		technical staff and workers on rules	Discussion with other	
			stakeholders	
		Contract holders monitoring of		

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
		compliance report.		
		Contract holders other control methods.		
Indicator 2.1.2	s and other fiscal narrouts	Invoices and payment receipts on contract	Revenue and Finance	
	s and other fiscal payments are paid by the forest contract	administration fee, stumpage, land rental and forest products fees: area fee, Annual	Law, The National Forest Reform Law 2006	
holder	are paid by the forest contract	coup inspection fee, Waybill fee, timber	FDA and Contract	
notaer		export license fee, sawmill permit fee, and	holders accounting data,	
		other applicable taxes and fees	Contract holders financial	
			statement	
		Stumpage fee is paid within 30 days of	LEITI	
		cutting tree		

The FMU is managed with well-defined and clearly established objectives compatible with sustainable forest management.

(The criterion demands that forest management defines long-term objectives for the development of forest resources and forest production. These objectives contribute to environmentally appropriate, socially beneficial and economically viable forest management)

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF	FINDINGS
			INFORMATION	
Indicator 2.2.1		Valid Forest Resource License and	The National Forest	
a legally assigned title	FMU is implemented on the basis of deed, for duration compatible with of the FMU with a view to achieving	permits 1. Timber sales contract 2. Forest management contract 3- Forest resource permits	Reform Law (2006)	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
sustainable forest man	agement			
Indicator 2.2.2 The forest contract holder demonstrates that its employees		Contract holders Staff and workers academic and training, Contract holders recruitment	Employees files in the contract holders office,	
	nce in forest management.	policy, Contract holders registry of employees, Discussion with staff and workers	Interview with workers, Training Records	
Indicator 2.2.3 The forest managemen	t contract holder has a complete and	Contract holders strategic forest management plan,	FDA guidelines for forest management planning	
approved Forest Mana forest management pla	gement Document, which includes a n, a harvesting plan, a wildlife	5-year forest management plan,	FDA/Commercial forestry Department	
management plan, and other relevant documents, stating the FMU 's objectives, which are compatible with sustainable		annual operation and harvesting plans contain clear management	FDA regional offices	
forest management		objectives, forest resources, SEMP, wildlife management, and relevant maps(see sub-indicators)	Forest management contractor's offices	
	s (multi-resource inventory,	FDA's preliminary studies methodology on 3% inventory,	FDA Research and Development Department,	
carried out in conform	-economic study etc.) have been ity with national and international ailable and correctly documented	Social and economic surveys and land suitability studies.	FDA regional offices	
		Contract holders strategic management plan, ESIA, and 100% compartment inventory of	Forest management Contract holders offices	
		commercial tree species	Environmental Management Law of Liberia LISGIS and LFI	
Sub-indicator 2.2.3.2 All the uses of the fores	st and forest products are identified	FDA NTFPs survey reports,	Note: Draft Regulation on NTFPs	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
		Contract holders strategic forest management plan and inventory reports	Ten Core regulations	
management constraint	in accordance with different s identified during the preliminary ace with the adopted objectives.	FDA land suitability reports Contract holders strategic forest management plan FMU topographic map FMU Stock map	Discussions with FDA and contract holders. FDA/Commercial forestry Department FDA regional offices Forest management	
	ing the FMU and its subdivisions, the es, village settlements etc, have been able	Contract holder's strategic management plan FMU topographic map FMU Social economic survey map	contractor's offices FDA Guidelines for forest management planning. Field observations FDA/Commercial forestry Department FDA regional offices Forest management contractor's offices	
be harvested during the indicated on maps	and the volume of products that can management exercise are known and	Contract holders 5-year plan and, Annual operational plan, The stock and the yield maps	FDA Guidelines for forest management planning FDA and Contract holders offices Field observations	
Sub-indicator 2.2.3.6 The annual allowable c	ut, minimum diameter for	Contract holders strategic forest management plan	Contract holder's office	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
exploitation and maxim	num number of trees harvestable per		Code of harvesting	
hectare are clearly sta	ted and described in the management	States annual allowable cut,	practices	
documents.		Number of stems harvestable per		
		hectare and	FDA regional and Head	
		Minimum diameter cut limit for	Offices	
		each species		
Indicator 2.2.4		Contract holder's management plan	Contract holder's office	
		has a Forest management contract		
	contract is annexed to the Forest	as annex	FDA head office and	
8	nt, which sets the operating modalities		regional offices	
	igations of the forest management	Forest management contract		
contact holder and sub-contractors operating in the FMU.		(FMC)		
Sub-indicator 2.2.4.1		Contract holder's management plan	Contract holder's office	
Specific clauses relation	ng to financial, technical and social			
	s measures for the protection of the	Forest management contract	FDA Head Office and	
forest are clearly define contract.	ned in the Forest management		regional offices	
Indicator 2.2.5		Management plan and FMC		
	ent plan and the forest management	approval notification document	Contract holder's office	
	r Sale Contract are formally approved	from the FDA	Contract notact 5 office	
by the FDA	Sale Community approved		FDA Head Office and	
o,e 1 211		A copy of the approved	regional offices	
		management plan and FMC		
		munugement plant and 11/10	NIC & Public	
		Approved copy of TSC	Procurement Concession	
		Tr	Commission Act	
		Validity time period of approval	(PPCCA)	
		notification		
		Harvesting certificate	National Legislature	
Indicator 2.2.6		Copy of the FDA approved	Contract Holder's Office,	
		management plan and ratified	FDA head Office and	
The Forest Manageme	ent Plan is effectively implemented as	contract holder's FMC	Regional Offices	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
soon as it is approved	l.			
		Field inspection		
Sub-indicator 2.2.6.1		Copy of the FDA approved	Discussions with Contract	
The prescriptions of the Forest Management Plan are known by all stakeholders.		management plan and contract holder's ratified FMC	holder, FDA, communities, NGOs, researchers and relevant	
		Contract holder's evidence of education/awareness for relevant	FDA list of stakeholders	
g 1 : 1:		stake holders		
Sub-indicator 2.2.6.2		Contract holder's mechanism for ensuring prescription/ FMC	Contract Holder's Office, FDA Head	
	rent stakeholders are in conformity with ne Forest Management Plan and the	compliance with stakeholders	Office/Regional Offices	
TWIC		Field observations	Discussions with Contract holder, FDA,	
		Discussions with FDA, fringe communities and other stakeholders	communities, NGOs, researchers and relevant	
Sub-indicator 2.2.6.3			FDA list of stakeholders	
	re trained and/or sensitised on the	Contract holder's list of relevant stakeholders (from FDA's	Contract holder's office	
implementation of for		stakeholders list) and their different uses of the forest	FDA office (Section 3 of FDA Regulations 101)	
		Contract holder's education,	Discussions with relevant	
		awareness and training records on management plan prescriptions and	stakeholders (staff and workers, contractors,	
		FMC for stakeholders	fringe communities etc)	
Sub-indicator 2.2.6.4		Gazette notice of reservation and		
The limits and bound subdivisions are mark	aries of the FMU and different ked in the field	any changes to boundary	Contract holder's office	
	······ · · · · · · · · · · · · · · · ·	Map of contract area showing external and internal boundaries	FDA regional offices	
		(including all admitted farms and	Field inspection	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
		settlements).		
		Field inspection reports	Discussion with relevant stakeholders: NGOs, local communities, CBO,	
		Fixed external boundary markers clearly identified on the ground and internal boundaries clearly demarcated.		
Sub-indicator 2.2.6.5	5	Contract holder's mechanism for		
	t for farming and related agricultural und logging yards is controlled and kept nits	controlling clearing and farming activities in and around logging yards	Field inspection	
Sub-indicator 2.2.6.6		Contract holder's documented	Contract holder's office	
	vities are well documented in a manner	management activities Contract holder's monitoring	Field inspection	
		mechanism covers management activities	FDA regional offices	
		Contract holder's field monitoring records	Discussion with relevant stakeholders: NGOs, local communities, CBO,	
		Discussion with contract holder		
	7 t field visits for evaluation are and Contract's holder	Contract holder's field monitoring plan	FDA Regional Offices Contract holder's office	
		Contract holder's field monitoring reports FDA Field monitoring reports	Discussion with relevant stakeholders: NGOs, local communities, CBO,	
Sub-indicator 2.2.6.8	3	Contract holder's field monitoring	Contract holder's office	
	with management prescriptions is g to regulations in force	records Management meetings and	FDA regional offices	
		production meeting minutes	LEITI	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
		FDA offence registry	Discussion with relevant stakeholders: NGOs, local communities, CBO,	
maintained	ucture needed for forest use is			
Sub-indicator 2.2.7.	1	Contract holder's forest camp	Field Inspection	
The main buildings in durable materials.	in the forest camps are constructed from	specifications as contained in the Standard Operation Procedures (SOP)	Standard Operation Procedures (SOP)	
			Code of harvesting practices	
Sub-indicator 2.2.7.2	2	Contract holder's SOP	Field visits	
	a access of contract's area roads is acted to last for the duration of the	Primary and secondary road constructed in the dry season	FDA Forest Management Guidelines.	
		Primary and secondary road construction to start 12 months before logging	FDA Code of Harvesting Practices.	
		Primary and secondary road not located on slopes greater than 10% and 15% respectively		
		All FDA drainage, bridges, culvert and road maintenance requirements complied with		
Indicator 2.2.8		Contract holder's management plan summary contains at least:	Contract holders office	
	the need to respect the confidentiality of est management contract holder provides		FDA office	
stakeholders with a	summary of the basic components of the	Management plan summary	Discussions with relevant	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
Forest Management	Plan	contains basic components of the management documents	stakeholders	
		Contract holder's summary document available to relevant stakeholders		
		No complaint of denial of access by any stakeholder to management documents summary		

The sustainable production of timber is ensured both in quantity and quality.

(The criterion requires that forest management ensure the maintenance and improvement of long-term production capacity of forests and aims at high quality production. The quality of forest production depends on the value of the species produced, density of desired species in the forest and on the quality and size of individual trees)

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
Indicator 2.3.1		FDA pre-harvest enumeration	Liberia Code of Harvesting	
	ory is carried out efficiently, in undards in force, before harvesting	approval notification document	Practices, FDA 2007	
		Contract holders Pre-harvest		
		inventory including date, maps etc	Contract holder's office	
		All blocks are surveyed for 100% stocking of trees 40cm (TSC) and 50 cm (FMC) dbh using regular grid (N-S, E-W) in each km–square block to develop a tree location map	FDA's regional offices	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
		On FMCs, a permanent grid for the entire 5-yr section of the contract area is opened		
		Temporary gridlines at 25m intervals from the permanent gridlines is established for each km-square block.		
Sub-indicator 2.3.1.1			Field observation	
Trees to be harvested and marked in the fie	l are plotted preliminarily on a map ld	Contract holder's pre-harvest maps	Contract holder's office	
		Contract holder's stock maps	FDA's regional office	
			Discussion with contract holder's field workers\	
			Liberia Code of Harvesting Practices, FDA 2007	
Sub-indicator 2.2.3.2		Contract holder's pre-harvest maps	Contract holder's office	
	, such as seed-bearing or young t and visibly marked in the field	show trees to be protected including mother trees	Liberia Code of Harvesting Practices, FDA 2007	
			Discussion with contract holder's field workers	
			FDA's regional offices	
			Field observation and discussions with field staff	
Indicator 2.3.2				
The felling rotation a	and yield are clearly determined and			

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
respected in accordan	ce with the principles of sustainable			
Sub-indicator 2.3.2.1		Management plan document	Contract holder's office	
	ld and the determination of the from the Forest Management Plan	Current forest inventory information	FDA's regional office	
(cj. suo intacator 2.2	<i>5.0).</i>	FDA's preliminary studies methodology on 3% inventory	Discussion with local biometricians,	
~			NGOs and other stakeholders	
Sub-indicator 2.3.2.2		Forest inventory and Permanent	Contract holder's office	
The rotation is based	on the growth rates and minimum	Sample Plots (PSP) information	FDA regional office	
diameter of trees to be from the forest manag	e harvested, and on data obtained ement inventory	FDA's preliminary studies methodology on 3% inventory		
Sub-indicator 2.3.2.3		Contract holder's strategic	Contract holder's office	
The Forest Manageme options beyond the fire	ent Plan provides management	management plan	FDA regional office	
opiions ocyona me jin	n rounton	Management plan provides options		
		for long-term production and		
		management of prioritized species		

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
Indicator 2.3.3 All harvesting is in conformity with the Forest Management Plan and the clauses of the FMC		Contract holder's FDA approved management plan	Contract holder's office FDA regional office	
management I tan and	ine ciauses of the 1112	FMC document Field observation	FMC document Field observation	
Sub-indicator 2.3.3.1 The annual harvesting play the contract's holder	olan and work program developed are clear and realistic	 Contract holder's FDA approved annual harvesting plan All trees to be felled are marked Recommended felling direction indicated for all trees to be felled Seed trees and trees belonging to protected species marked, and a 20 m radius protection zone established. No tree within 10 m of a seed tree indicated be felled Rare and endangered species (IUCN Red List and FDA regulations) marked and preserved 	Guidelines for forest management planning in Liberia 2009 Contract Holder's Harvesting Plan and maps Liberia Code of Harvesting Practices, FDA 2007	
Sub-indicator 2.3.3.2 Each annual harvesting being carried out.	plan is subject to approval before	Contract holder's FDA approved annual harvesting plan (date of approval important)	Contract Holder's Harvesting Map Contract holder's office FDA regional offices	
	is respected and harvesting prevent re-entry into harvested ting cycle is completed	Contract holder's FDA approved strategic management plan, 5year operational plan and annual plan Field visit	Field visit Discussions with contract holder, FDA regional offices and NGOs, communities. FDA monitoring reports	
Sub-indicator 2.3.3.4		Contract holder's SOP	Field visit	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
The standards of harve	esting are explicit and known by all	Discussions with Contract holder's field staff indicate they are aware of Liberia Code of Harvesting Practices, FDA 2007	Discussion with contract holder's field staff Liberia Code of Harvesting	
Indicator 2.3.4 Wastage is minimized	at all stages of production and	Contract holder observes directional felling	Practices Field visit Discussion with contract holder's field staff	
processing		Felling crew has techniques for and checks for unsound trees Log preparation	Liberia Code of Harvesting Practices	
Sub-indicator 2.3.4.1 Felling methods are apusable timber.	oplied to optimize the volume of	Contract holder observes directional felling Contract holder's felling crews technique for checking trees suspected to be unsound before felling Felling crew checks trees suspected to be unsound before felling Once cutting has started, that tree should be felled even if it is discovered to be unsound Stump height not more than 30cm	Field visit Discussions with contract holder's field staff Liberia Code of Harvesting Practices	
Sub-indicator 2.3.4.2 The greatest possib tree is recovered.	le utilizable volume of the felled	Stumps not more than 30cm without buttress	Field visit Liberia Code of Harvesting	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
		Tree and log measurement records	Practices	
		Utilisable log ends not left to waste	Discussions with contract holder's field staff and communities	
Sub-indicator 2.3.4.3 No marketable comp in the forest	3 conent of the felled tree is left behind	No evidence of utilisable log left in the bush Field visit	Field visit Liberia Code of Harvesting Practices Discussions with contract holder's field staff and communities	
stockyards (in the fo	4 of decaying logs in timber rest and processing mill, and in other railway sidings, etc.).	No evidence of decaying logs at forest, processing mill, and other sidings and the port Field visit	Visit to the field, processing mill, the port and other sidings Discussions with FDA and	
Sub-indicator 2.3.4.5		Contract holder's wood species	communities Visit to contract holder's	
The product recover to national and inter	y of processing plants is comparable national standards	input-output records Contract holder's wood processing records	processing mill Discussion with FDA	
Sub-indicator 2.3.4.0 Residue from sawmi utilized or recovered	lls or other processing units is	Contract holder's wood residue utilisation practices	Visit to mill and discussions with contract holder Discussion with relevant stakeholders	
Indicator 2.3.5		Felled tree data forms/records	Field visit Discussions with contract	
documentation to mo	nolder is able to provide all necessary onitoring and certification bodies to w the chain of custody of each forest	Contract holder's complete and valid waybill (with the unique bar coded stickers) to include: • Place of harvest	holder and FDA officials Liberia Code of Harvesting Practices	
product from its orig	; u t.	CoCIS identification numbers	Tractices	

INDICATOR S	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
		 The total volume of all logs, timber or wood products (specifying individual standard dimensions) Day, month and year that wood was loaded and scheduled to arrive Place where wood was loaded Planned route of transport from loading to destination Destination of the shipment Printed name and signature of Person who harvested the wood Upon acceptance of load, person accepting the wood (truck driver) Upon delivery of the load, person delivering wood (truck driver) A declaration (see regulation 8 for details) Printed names of business or individuals authorized to transport or accompany the wood, and the license plate number of the transporting 	Liberia Forest Draft-Standard Operating Procedures for the Chain of Custody System,	
Indicator 2.3.6		vehicle Contract holder's sales records	Discussion with contract	
	ntract holder develops effective	Contract notact 5 Suics records	holder marketing staff	
mechanisms for the optima	2 00	Contract holder's		
promotion of its forest pro		commercialisation and market promotions mechanism and efforts	Field visit	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS

The silvicultural techniques implemented in the FMU are compatible with the objectives of sustainable forest management and are well adapted to the needs of management in the FMU and to the expected production

(The silvicultural techniques (e.g. felling and regeneration methods, intermediate fellings, measures for water and soil protection and prevention of forest damages) enhance the value and volume of timber and/or non-timber production and take into consideration environmental protection and social benefits of the forests produce}

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
Indicator 2.4.1		Contract holder's RIL and	Article 8 Section 8:3 of the National	OK
Adequate efforts are take	en to define, verify and adjust,	Regeneration monitoring	Forestry Reform Law of 2006	
where necessary, silvicu	ltural techniques	strategy	Note The provision of the	
			Reforestation Policy and	
			Afforestation Strategy pending	
			implementation by FDA	
			Liberia Code of Harvesting	
			Practices	
Sub-indicator 2.4.1.1		Contract holder's SOP	Field visit	
There exists a compilation	on of explicit silvicultural	Contract holder's	Discussions with Contract holder	
rules, which are easy to		Silvicultural objectives and	and FDA	
		methods on felling,		
		regeneration, directional felling,	Liberia Code of Harvesting	
		multiple use of trees etc	Practices	
		Management plan		
Indicator 2.4.2		Pre-harvest inventory	Field visit	
	ural treatments are applied at			
S .	al tree rather than at the forest	Annual harvest plan and yield	Liberia Code of Harvesting	
stand level		records	Practices	
		Contract holder's SOP and		

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
		overall quality of contract		
		holders silvicultural treatments		
Indicator 2.4.3				
	ti-purpose tree species for			
e e e e e e e e e e e e e e e e e e e	ively impact on their other forms			
of utilization				
Sub-indicator 2.4.3.1		Pre-harvest inventory and	Discussion with forest fringe	
	produce both timber and non-	harvest records	communities and other relevant stakeholders	
timber forest products	s are identified.	Contract holder's pre hornest	stakenoiders	
		Contract holder's pre-harvest maps	Discussions with contract holder's	
		maps	field staff and communities	
		Contract holder's stock maps	Tiera starr and communities	
		Contract notact of second maps	Field Visit	
		Field visit		
Sub-indicator 2.4.3.2		Contract holder's silvicultural	Field visit	
The application of an	y form of silvicultural treatment	objectives and methods		
	sustainable production and		Discussion with forest fringe	
harvesting of other for		Annual operation plan	communities, Community Forest	
			Development Committees, contract	
			holder's field staff and other	
			relevant stakeholders	
			Liberia Code of Harvesting	
			Practices	
Sub-indicator 2.4.3.3		Contract holder's SOP	Contract holder's office	
The harvesting modal	ities of multi-purpose tree			
	lements are documented in the	Contract holder's FDA reviewed	FDA regional offices	
Social Agreement		Social agreement contains		
S		modalities for harvesting multi-	Discussion with CFDCs	
		purpose trees if any	Social agreement	
Indicator 2.4.4		Contract holder's training policy	Contract holder's office	
The Forest manageme	ent contract holder			
The Poresi manageme	eni comitaci noiaei			

INDICATOR SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
concessionaire develops a staff training policy			
Sub-indicator 2.4.4.1	Contract holder's training policy	Contract holder's office	
Refresher and proficiency training programs for the staff at different working levels and positions are carried out	Training records include: Training objectives course content dates participants list	Personnel file Discussions with relevant staff and local trade union executives	
Sub-indicator 2.4.4.2	 participants positions Contract holder's recruitment records 	Discussion with Contract holder's staff and workers	
Employees have background knowledge in other relevant areas of forestry activities	Staff records Personnel file Contract holder's training policy and records	Contract holder's office	

Within the FMU, NTFPs are harvested on a sustainable basis, in consultation with relevant stakeholders

(The use of non-timber forest products (NTFPs) is at the level that does not risk their continuous long-term production or safeguarding other economic, environmental or social values of forests. The principles for the use of NTFPs are developed through consultation with relevant local stakeholders (villagers, concession holder, contractors, organizations commercialising NTFPs, and other interest groups).

See also Indicator 2.4.3 that set provisions for maintenance of multiple-use trees}

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF	FINDINGS
			INFORMATION	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
Indicator 2.5.1 NTFPs are in use, and identified.	the basis for their use are	Contract holder's use of NTFPs and justification	Contract holder's FDA approved management plan documents	
Sub-indicator 2.5.1.1 The NTFPs harvested f purpose and the associ	for all types of commercial ated type of production are	Contract holder's list of commercial NTFPs EIA report	Note: The draft NTFPs Regulation Contract holder's FDA	
identified Sub-indicator 2.5.1.2		Contract holder's list of	approved management plan Discussions with fringe	
The list of NTFPs harv subsistence needs of po	ested solely to meet the pulations is available	subsistence NTFPs	communities and CFDCs	
	-	EIA report Community rights law Evidence of Contract holder's	Note: the draft NTFPs Regulation	
		consultation with fringe communities to identify subsistence NTFPs	Social agreement	
Indicator 2.5.2		Pre-harvest NTFPs inventory	Discussions with the contract holder	
The necessary knowled utilization of NTFP is a		NTFPs inventory records EIA report	Note: The draft NTFPs Regulation	
		NTFPs research records	FDA approved management plan documents	
Sub-indicator 2.5.2.1 The distribution and de NTFPs are known.	ensity of species harvested for	Pre-harvest inventory records on NTFPs	Discussions with the contract holder	
		Contract holder's monitoring records on NTFPs	Contract holder office	
Sub-indicator 2.5.2.2		Harvesting records on NTFPs	FDA approved management	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
The phenology as species are know	nd productivity of such harvested n.	Contract holder's monitoring records on NTFPs	plan documents	
Indicator 2.5.3 The use of NTFPs is	rational			
Sub-indicator 2.5.3. No individual tree is during harvesting fo	s needlessly destroyed or damaged	Contract holder has principles/provision for harvesting of NTFPs Contract holder's monitoring records	Note: The draft NTFPs Regulation Contract holder's FDA approved management plan documents Field visit Discussions with contract holder staff and forest workers, FDA officials, and local communities	
Sub-indicator 2.5.3 Procedures are in pathe impact of harves	lace for monitoring and evaluating	Contract holder's NTFP monitoring and evaluation procedures and records	Discussions with Contract holder's staff and forest workers, FDA officials	
Sub-indicator 2.5.3.		Annual harvesting plan NTFP regulations NTFPs monitoring records	Discussions with Contract holder's staff and forest workers, FDA officials	
Sub-indicator 2.5.3.	4 ested are effectively marketed or	NTFPs harvest records NTFPs marketing sales and consumption records	Discussions with forest fringe communities and CFDCs	
Sub-indicator 2.5.3 The NTFPs in high of	demand are the subject of ement and their potential for	Contract holder's NTFPs protection strategy NTFPs domestication exploration records	Field visits Discussions with contract holder, fringe communities, CFDCs and FDA officials	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
		Presence of NTFP seedlings in nurseries Community NTFP management		
		strategies		

Forest management revised periodically, or when necessary, due to unforeseen circumstances.

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF	FINDINGS
			INFORMATION	
Indicator 2.6.1		Contract holder's monitoring	Contract holder's	
		plan for management plan	management plan documents	
There is a continuous mo	nitoring/evaluation of the	implementation		
implementation of forest	management.		FDA guidelines for forest	
		FDA monitoring reports	management planning	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
concessionaire provides, the monitoring results re the yield of all pr forest; growth and reger of the forest reso the composition the flora and fau the social and en extraction and of impacts in the ar efficiency of action	roducts extracted from the neration rates, and condition urces; of and changes observed in na; vironmental impacts of	Contract holder's summary of monitoring results Copies of EIA, Social Impact Assessment (SIA) No evidence of denial of monitoring summary report upon request by any stakeholder	Contract holder's forest management plan Contract holder's office Discussion with relevant stakeholders	
Sub-indicator 2.6.1.2 There is a network of per is regularly measured an	manent sample plots, which d analysed	PSP network information PSP measurement records PSP data analysis records Field observation	Discussions with contract holder staff and forest workers, FDA officials and other relevant stakeholders FMC	
	ularly compared to what was Forest Management Plan	Contract holder operational plan Contract holders annual harvest plan Contract holders harvest records Contract holder comparison records on actual harvest with projection records	Contract holder's management plan Discussions with contract holder and FDA officials	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
ē	Plan is revised according to icity defined at the national	Contract holder revised strategic plan in or less Contract holder revises Operational plan every five years	Guidelines of forest management planning in Liberia 2009 Management plan and FMC	
Sub-indicator 2.6.2.1 The procedures of regular specified in the Forest Machiner provided for in the FMC		Contract holder's strategic and operational plan documents Or The FMC	Contract holder's office FDA regional office Management plan and FMC	
well as new scientific fin	ing and research results, as dings and technical data, are g the process of review and anagement Plan	Contract holder's earlier and revised strategic and operational management plan Revised forest management plan Contract holder's monitoring reports Available research and scientific findings	Discussions with the contract holder and FDA's Research and Development Dept. Discussions with communities, CFDCs, experts and NGOs	
Sub-indicator 2.6.2.3 The revisions are approved	ved by the FDA	Contract holder possess FDA approved revised -Management plan FDA management plan revision approval notification	Discussion with the FDA Contract holder's office	

Principle 3

The main ecological functions of the forest are maintained.

(Ecological functions of forests include all biotic and abiotic interactions in a forest ecosystem. Species in flora and fauna and their habitat requirements are the basic elements of ecological functions. Species adapt to soil conditions, water resources and climatic factors but these abiotic elements are also influenced by species composition and abundance (e.g. forest structure, animal populations). Forest ecosystem responds continuously to changes in biotic and abiotic factors. A diverse, natural ecosystem can often adapt to these changes whereas a strongly altered ecosystem (e.g. heavily harvested) is vulnerable to degradation processes that may permanently decrease the production capacity of the ecosystem)

Criterion 3.1

The sustainable management of the forest resources is based on a dynamic acquisition of knowledge on ecology

(The criterion requires that all decisions made on forest management are based on up-to-date and profound understanding of ecological functions in managed forests. Concessionaire should demonstrate that their competence on understanding the ecological functions and impacts of forest management is continuously updated)

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF	FINDINGS
			INFORMATION	
Indicator 3.1.1		Forest contract holder's	FDA regional office	
		management documents	Contract holders office	
Available knowledge al	lows an ecological assessment	include maps on		
and diagnosis of the for	est ecosystems.	 Vegetation types 		
		 Infrastructure 		
		 Felling map 		
		 Monitoring report 		
Sub-indicator 3.1.1.1		Contract holders felling map	FDA regional offices	
Undated mans are avail	lable for vegetation type,	FMU Topographic map		
growth stages and inten			Contract holder's office	
8	21. J. 1. J. 1	Contract holder's pre-harvest		
		maps		
		Contract holder's stock maps		
		Contract holder's annual	FDA regional offices	
Sub-indicator 3.1.1.2		operational plan	Contract holder's office	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
There are topographica	l, soil, hydrological network		Ministry of Mines	
and infrastructure maps	and infrastructure maps.			
Sub-indicator 3.1.1.3		FDA survey records (Liberia	FDA regional offices	
Databases on forest fau	na and flora and other uses	Forest Re-assessment Project		
Databases on forest fauna and flora and other uses are available.		report)	Contract holders office	
	ure avanavie.		Pre-harvest inventories reports	
		Contract holder's strategic	National Forest Inventory	
		forest management plan		
Sub-indicator 3.1.1.4		FDA fauna and flora survey	FDA's regional office	
Maps are available on t	he distribution of fauna	reports		
showing zones of high d	ensity and any migration		Contract holder's office	
routes		EIA report		
			Relevant stakeholders: FFI,	
		Contract holder's strategic	NGOs,	
G 1 1 1 2 1 1 5		forest management plan	TDA D. 1	
Sub-indicator 3.1.1.5		Contract holder's annual	FDA Research and	
	s or data on the distribution of	operation plan	Development office	
	and those that are endangered,	Contract holder's pre-harvest	Contract holder's office	
rare or endemic		maps	Contract noider's office	
		Contract holder's stock maps		
Indicator 3.1.2				
		FMC contract holder's EIA	FDA Central office,	
	ed out, in relation to the scale	report, strategic FMP,		
	ance with the level and extent			
	rces of concern. These studies			
are incorporated into th	e Forest Management			
Document				
Sub-indicator 3.1.2.1		Number and coverage of	FDA Central Office and Other	
	ots of intact and harvested	FDA's PSPs, frequency of	scientific reports	
forests are regularly mo	nitored and documented	measurement, data analysis		
(growth, phenology, reg	eneration, etc.).	etc.	Contract holder's office	
		Contract holder's PSP data		
		records		

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
		Contract holder's PSP data records		
	2 e harvesting methods and their forest stand are monitored.	Coverage of PSPs (logging site and unlogged site) Stock map (with felled tree information), Field observation	Liberia Code of harvesting practice	
	3 arvesting activity on key or monitored and documented	FMC Forest management plan, EIA and periodic monitoring report Field observations	Contract holder's office and FDA Central and regional offices EPA reports	
Indicator 3.1.3 New scientific and to periodically	echnical data are synthesized	Contract holder's updated management plan Field observations	Scientific publications FDA Department of Research and Development FDA website FDA central data base	
or technical data are	oring and new scientific findings e taken into account to improve and harvesting practices	Contract holder's periodic monitoring reports Contract holder's annual operational plan Field observations	Scientific publications FDA Department of Research and Development FDA website FDA central data base	

The impact of harvesting activities on the structure of the forest is minimized

(The structure of forest is defined by the vertical structure of various canopy layers and by the abundance and distribution of different plant species. Forest harvesting shall not change this structure significantly which means that harvesting planning should be based on individual trees rather than forest stands (see indicator 2.4.2). Forest management regimes may vary between stand types)

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
Indicator 3.2.1		FDA's code of harvesting practice	FDA office Contract holder's office	
national level and impl	g techniques are defined at the emented	Contract holder's training records on RIL Contract holder's Standard Operational Practice Field observations		
Sub-indicator 3.2.1.1		Contract holder's training records on	Contract holder office	
Directional felling is en young and emergent tre	nployed in order to spare ees as far as possible	directional felling Contract holder's Standard Operational Practice	Discussions with felling crew	
		Field observations	Liberia code of harvesting	
Sub-indicator 3.2.1.2		Contract holder's training records on	practices Contract holders office	
The topping and loppin	g of treetops and branches, and not contribute to the needless	RIL Contract holder's Standard Operational Practice	Discussions with felling and extraction crew	
Sub-indicator 3.2.1.3		Field observations FDA SOP,	Field observations Discussion with skidding	
Haulage/skidding mach	tines keep their blades above the significant ruts on the roads	Field observations	operators Field observations	
Sub-indicator 3.2.1.4	arouna the forest		FDA Code of harvesting	
The dimensions of all in	nfrastructure (primary and ries, timber yards, skid trails) um	FDA SOP Field observations	practice Contract holders Management Plan Field measurements	
Sub-indicator 3.2.1.5		Contract holder's annual operational	FDA regional offices	
Timber harvesting to proconstruction material in regulated by FDA	rovide services and n villages and logging camps is	plan, FDA Guidelines on for forest management plan,	Contract Holder's Office Social agreement	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
structure and diversit Sub-indicator 3.2.2.1 The conversion of forest forms of lan in circumstances v - is related to a a tiny part of t	forest to plantations or to non- d-use is not encouraged, except where the conversion: seriously degraded area/zone or	Contract holder's harvesting plan PSP data analysis (eg regeneration) FDA 's monitoring reports Field observation Contract holder's strategic forest management plan, FDA's approval notification document for plantation programme Field observation	Code of harvesting practice FDA Central Office Contract holders office FDA guidelines for forest management planning in Liberia 2009	
high conserva clearly defined	tion value; and will ensure a d, substantial and additional benefit to the FMU in the long			
Sub-indicator 3.2.2.2 The area of artificial of natural openings	openings does not exceed those	Log landing sites not exceed 0.4 % of ha 1° and 2° roads width to the minimum depending on the type of soil Field observation	FDA Code of harvesting practices Field measurements	
Sub-indicator 3.2.2.3 The forest structure is harvesting	s similar before and after	Monitoring reports and Harvesting Plan and field observations indicate that the vertical or species structure in forest stands is not significantly altered by forest management operations FDA field audit reports	DFA regional offices Contract holder office Field observations Discussions with contract holder	
	composition and density of how increased abundance of	Monitoring reports and field observations indicate that the lianas of families <i>Marantaceae</i> and <i>Zingiberaceae</i> or invasive helophytic species have not become more abundant after harvesting operations	Field observation Code of Harvesting Practice	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS

Criterion 3.3 The impact of harvesting activities on biodiversity is minimized

(Harvesting of timber and non-wood forest products should not change significantly species diversity in the forest ecosystem within the area of FMU)

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
Indicator 3.3.1		Contract holder's EIA report	FDA Central and Regional	
are taken within the co	h high conservation value	Contract holder's strategic forest management plan, 5-year and annual operational plans	office Contract holders office	
principle		Field observation	FDA Code of harvesting practices Guidelines for forest management planning in Liberia	
Indicator 3.3.2			FDA Central and Regional	
are implemented to ide manner which is repre	and guidelines exist and entify and protect, in a sentative of the diversity ale adapted to the subject	Contract holder's EIA report Contract holder's strategic forest management plan, 5-year and annual operational plans Field observation	office Contract holders office Liberia Wildlife law	
fauna and flora: an other biological compo	onents of the forest of h as reproduction sites,			

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
Sub-indicator 3.3.2.1 Sensitive areas are sele ecological survey and a in the protected zones		Contract holder's EIA report Contract holder's strategic forest management plan, 5-year, annual operational plan Field observation	FDA Central and Regional office Contract holders office	
	the protected zones and e harvesting is excluded.	FMU land use suitability map	FDA Central Office Contract holder's office Management Plan	
Sub-indicator 3.3.2.3	zones are clearly defined	Contract holders strategic forest management map, FMU land use suitability map, stock map Contract holder's demarcates protected areas within concession, Field observation	FDA Central Office Contract holder office Management plan	
Sub-indicator 3.3.2.4 Standardized data on fo available	nuna and flora are	Ecological surveys and monitoring provide standardized data on the vegetation types as well as distribution and habitat requirements of rare, endangered or threatened flora and fauna species	Discussion with Contract holder's and FDA Central Office EIA report FDA central database	
Indicator 3.3.3				
The diversity and relati species do not change s	0.0			
Sub-indicator 3.3.3.1 National and internation protection and hunting species or parts of animand respected	of, and trade in, animal	Contract holder's staff and workers are aware of CITES, provisions of 9.12 of the Liberia National Forestry Reform Law, Liberia Wildlife Law, Guidelines for forest management planning in Liberia, 2009 Ten Core regulations	 Discussions with staff and workers of contract holder Liberia National Forestry Reform Law National legal instruments of the CITES Convention The Liberia National Forestry Reform Law, Liberia Wildlife Law, 	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
			 Guidelines for forest management planning in Liberia, Ten Core regulations 	
Sub-indicator 3.3.3.2 There is an internal rule forbidding and also penalizing the transportation and trade of bush meat, and also the transport of guns and weapons for hunting in the vehicles of the forest concessionaire		Contract holder's internal rules to enforce and encourage compliance with provisions made in 9.12 of the Liberia National Reform Law	Discussion with contract holder staff and workers, local communities Liberia National Reform Law	
Sub-indicator 3.3.3.3 Access to the forest concession is controlled and reserved for use of only by authorized vehicles		Contract holder's current list information or rules on authorized vehicles	Contract Holder's office Contract holder's internal rules	
Sub-indicator 3.3.3.4 Secondary roads/paths are closed after harvesting, except those required for forest monitoring of for local development		Contract holder's block closure policy Field observations	Discussions with contract holder and FDA officials FDA Code of harvesting practices Guidelines for forest management planning in Liberia 2009	
Sub-indicator 3.3.3.5 The non-fragmentation of tree populations is ensured by the maintenance of a continuous canopy, which may be broken to a minimal extent by the network of primary and secondary paths/roads		Forest has continuous forest canopy cover except broken by roads	Field observation FDA Code of harvesting practices Guidelines for forest management planning in Liberia 2009	
Sub-indicator 3.3.3.6		Contract holder has up-to-date	Note: the draft Regulations on	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
There is no noted or recovered scarcity in the availability, supply and consumption of bush meat for subsistent living in the village settlements.		information on bush meat for subsistence living Contract holder. FDA and affected villages agree and implement bush meat supply strategy	NTFPs Discussion with local communities, FDA Officials, Contract holder, CFDC, CBOs, NGOs	
Sub-indicator 3.3.3.7 Commercial hunting and non-selective hunting methods are forbidden in the forest concession.		FDA rules on hunting Contract holder's internal rules	Note: the draft regulation on NTFPs Liberia Wildlife Law	
		Contract holder's mechanism for controlling hunting activities in and around contract area	Discussion with contract holder forest workers	
Sub-indicator 3.3.3.8 The inappropriate huntrapping of bush meat		Contract holder's rules and education to staff and worker Contract holder's education and awareness programme for fringe communities Contract holder's social agreement with communities	Discussions with staff and workers of contract holder Discussions with fringe communities and CFDCs	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
Indicator 3.3.4				
The diversity and densing not significantly modifi				
Sub-indicator 3.3.4.1		Contract holder's management plan	Field visits	
Rare and endemic species with a confined area of distribution are protected		documents contain information on rare and endemic species and their valuable habitats that should be protected when present	Discussions with field staff, local communities, NGOs, CBOs, CFDC,	
			FDA Code of harvesting practice	
Sub-indicator 3.3.4.2 The species' diversity of plants in the undergrowth of forests restored after harvesting is similar to that noted intact forests		Contract holder and FDA post- harvest monitoring reports	Field observations Discussion with contract holder and FDA officials FDA's multi-resource inventory reports	
Sub-indicator 3.3.4.3		Contract holder's policy on the use of	Field observations	
The use of biological control agents is documented, minimized, monitored and strictly		chemical and BCA's and prohibition of GMOs	Discussions with Contract holder and FDA, EPA	
controlled in accordance with national laws and internationally accepted scientific protocols. The use of genetically modified organisms is prohibited		Contract holder's chemical and BCA use records		
Sub-indicator 3.3.4.4		Contract holder's management plan	Note: Pending FDA	
The use of exotic specie and actively monitored ecological impacts	es is carefully controlled to avoid adverse	documents. Field monitoring reports	Reforestation policy and Afforestation Strategy Discussions with fringe	
,		Field visits	communities, CFDCs, experts and environmental NGOs	

The natural regeneration capacity of the forests is ensured.

(Forest management should ensure that the capacity of forest and the harvested species to regenerate naturally. If there is a risk for an unsatisfactory regeneration result, prompt measures to enhance the regeneration should be taken)

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
Indicator 3.4.1		Contract holder's management plan document makes	Field visit	
The conditions for natural and regeneration proces.	ral regeneration are fulfilled sses are maintained	provision for encouraging natural regeneration	Discussion with contract holder	
			FDA guidelines on management planning	
Sub-indicator 3.4.1.1		Contract holder's has	FDA Central Office	
The phenology and disp	ersal mechanisms of flora	knowledge of the phenology	Discussion with employee of	
species are not disrupte		and dispersal of plant species	contract holder	
		Contract holder Monitoring records		
Sub-indicator 3.4.1.2		Contract holder's annual/block	Field visit	
The number of seed-pro	ducing trees is sufficient for	harvesting plan (# of mother		
adequate regeneration		trees/block)	FDA Code of harvesting	
			practice	
Sub-indicator 3.4.1.3		Contract holder's guidelines	Field visit	
The populations of polle	en producers and dispersers	for safeguarding special		
	ity and distribution with what	dispersers and pollen	Discussions with contract holder	
can be found in non-exp	loited forests	producers in Management plan documents or FDA's SOP	and FDA officials	
		documents of FDA's SOP	FDA's SOP	
		Contract holder's Monitoring		
		records		
Sub-indicator 3.4.1.4		Results on regeneration from		
Seeding of all harvested	species exist under the	Permanents Sample Plots		
	tural and artificial openings	Contract holder's Monitoring		
J = 1 2 F J 5 00 1000		results on changes of flora and		

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
		fauna		
Sub-indicator 3.4.1.5			Field visits	
There is no abnormal change in the size-class distributions of such harvested species.		Contract holder's Monitoring results shows no evidence of change in structure of harvested species	Discussions with contract holder and FDA officials	
Sub-indicator 3.4.1.6		Contract holder's Monitoring	Field visit	
The regeneration of se disused paths and trac	condary vegetation occurs on ks	results indicate satisfactory regeneration	Discussions with contract holder and FDA officials	
Indicator 3.4.2 Measures are taken to promote natural regeneration whenever necessary		Contract holder's management plan documents and SOP detail measure for promoting natural regeneration	Contract holder's office	
Sub-indicator 3.4.2.1		Contract holder's annual	Field visit	
Appropriate steps are taken to protect degraded areas in order to foster their regeneration		operational plan		
Sub-indicator 3.4.2.2		Contract holder's annual/block	Field visit	
Healthy mother trees or seed-bearing trees are protected and preserved within stands of forest to be harvested in the future, in order to maintain, as far as possible, the structure of the forest and the pattern of species.		harvesting plan Contract Holder stock maps Contract Holder pre-harvest maps 20m radius of protection buffer for each mother tree No felling done within 10m of mother tree	Discussions with contract holder's field workers FDA code of Harvesting Practice	
Sub-indicator 3.4.2.3		NTFP harvesting records	FDA NTFPs Regulation	
kernels, bark, wood fo	st products/produce (fruits, r service, and ornamental intenance of adequate stocks and fruits	Multi-resource inventory data Field visit	Discussions with fringe communities, CFDC, FDA and contract holder's field workers	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS	
			Research reports on NTFP harvesting		
Sub-indicator 3.4.2.4 For enrichment planting in harvested natural forests or in agroforestry systems, the use of indigenous species with proven commercial value is preferred		Field visit Evidence of use of proven commercial indigenous species for enrichment planting or agroforestry systems	FDA Reforestation Policy and Afforestation strategy project t Discussions with contract holder	et	

The impact of harvesting activities on water, soils and slopes is minimized

(Forest harvesting and timber transport should not impair the quality of water in small or larger water bodies or change directly or indirectly the natural water levels or flow of water. Soil damages; depressions, or disturbances on soil surface cause erosion especially on slopes and other sensitive areas. Soil erosion increases leaching of soil particles to water bodies and cause crucial changes in water ecosystems and impairs the quality of water for domestic use. Soil and water protection should be safeguarded in all forest management operations)

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF	FINDI
			INFORMATION	NGS
Indicator 3.5.1 The flow rate and quality of water are maintained		Contract holder's Forest management plan sets water protection methods and are protected	Field visit	
		Contract holder's workers are aware of company water and soil protection practices	Contract holder's management plan documents Code of Harvesting Practice	
Sub-indicator 3.5.1.1 No water retention as no disruption to drain	reas are created and there is	Water crossing points indicated on the block map Road construction is done in the dry season 20m to 30 m Riparian buffer created during harvesting	FDA's SOP Liberia code of harvesting practice, 2007	
		Trees felled away from river courses and buffer		

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDI NGS
		Trees felled into river courses or buffer zones are cleared Bridges extend by 10% on both sides	Discussion with contract holder's field workers	
		Creek and river beds not filled with soil Field visit		
	dbanks and any form of in-fill swamps does not significantly	Field visit FDA's SOP	Liberia code of harvesting practice, 2007	
Sub-indicator 3.5.1.3 Used oils are recover		Contract holder's oil spillage and recovery practices	Field visit FDA's SOP Contract holder's strategic management plan	
chains or aquatic eco	nemical contamination of food psystems (e.g. sick or dead mammals, abnormal invasion	Contract holder's chemical application policy and practices Training records for personnel responsible for chemical application Dates, time, quantity and other records on chemical application	Field visit Discussions with workers and forest fringe communities of any signs of sick or dead fish, mammal etc	
		No chemical application when raining Contract holder's monitoring reports		

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDI NGS
Indicator 3.5.2 The impact of harvestin biological, physical and soils and on hill slopes	l chemical characteristics of	Contract holder's Forest Management plan specify the basic provisions for water and soil protection and defines any sensitive areas with restricted use Contract holder's workers are aware of the FMU level norms for water and soil protection and management of hazardous waste (oils, chemicals)	Contract holder's officer and FDA Central and regional offices Field visit Liberia code of harvesting practice, 2007	
Sub-indicator 3.5.2.1 Harvesting and its relate buffer zones and other solven (low relief, river sides, solven)	sensitive areas on slopes	Roads must: 1) Avoid protected/exclusion areas/buffer strips 2) Be kept 40m+ away from strip edges, except at	Discussion with FDA officials and contract holder's staff and forest workers Field visit Liberia code of harvesting practice,	
		designated watercourse crossing points 3) Be on well drained soils and slopes where drainage will move away from the road 4) Avoid locations that require box cuts 5) Avoid steep and very flat terrain 6) Avoid unstable locations e.g. swamps Felling not allowed:	Discussion with FDA officials and contract holder's staff and forest workers	
		 within protected or exclusion areas and their buffer strips, on slopes steeper than 30% 		

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDI NGS
		Trees felled into watercourses or their buffer strips,		
		or other logging debris are cleared		
Sub-indicator 3.5.2.2		FDA and other stakeholders (community rep for	Liberia code of	
Trosion due to harvesting and related Infrastructure is within acceptable limits		roads) approval of harvesting infrastructure	harvesting practice, 2007	
ngrastructure is within acceptable timus		Road:		
		 Construction during the dry season only, to start 12 months before logging 	Field visit	
		3) Side slopes – primary and secondary roads	Discussions with	
		should not be located on slopes greater than	FDA official and	
		10% and 15% respectively, but side slopes	fringe community	
		of roads may have greater slope	representatives, CFDCs	
		Road maintained at least annually		
		·	FDA's monitoring	
		Road surface and crown maintain to ensure good	reports	
		drainage		
			Contract holder's	
		Drain out-flow	monitoring repor	
		Ditches must not drain directly into watercourses.		
		Instead turnout drains (outlets) must be installed at		
		least 50 m before meeting a watercourse to divert		
		water into the surrounding vegetation		
Sub-indicator 3.5.2.3		Field trip	FDA's SOP	
	frastructure (skid trails,	EDA?itint-	Field visit	
	s) is covered again by	FDA's monitoring reports		
vegetation		Contract holder's monitoring reports		
Sub-indicator 3.5.2.4		Contract holder's promote Integrated Pest	Contract holder's	1
	promote the development and	Management and vegetative pest control given the	management plan	
	promote the development and tentally friendly, non-chemical	first option	documents	
	gement and strive to avoid the			
use of chemical pestic		Justification for use of pesticide when used		

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDI NGS
hydrocarbon pesticides persistent, toxic or who biologically active and chain beyond their inte	nse derivatives remain accumulate in the food nded use, and any pesticides agreement, are prohibited. proper equipment and	Contract holder's Forest Management Plan specifies the chemicals that may be used in the pest control and rules for their use. Contract holder keeps:	Discussions with contract holder's workers responsible for chemical application Field observation	
	and liquid and solid non- ng fuel and oil are disposed ly appropriate manner	Contract holder's procedure for handling and disposal of waste Contract holder provides workers and contractors with feasible facilities to recover oils and chemicals.	Discussion with field staff of FDA and contract holder Code of Harvesting	
		Waste recovery is monitored and reported. Field visit	Practice Contract holder's management plan documents	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDI NGS
Sub-indicator 3.5.2.6 The setting up of necessor harvesting is optimised is topography of the sites a resource	n relation to the	Location of Log landing At intervals that minimize the number and length of skid trails, between 250 m and not more than 1000 m apart. Should not form part of the public roadway, and should be located 50m from the public roadway Size of log landing Large enough to facilitate log sorting, to allow for entry (skidder) and exit (loader) points Should not exceed 1400 m² (35 x 40 m in size), Total area should not exceed 0.42 ha per unit area of 100 ha, i.e. 3 landings per 1 km square block	Liberia Code of Harvesting Practice, FDA, 2007 Contract holder's Management plan document	
Indicator 3.5.3		See specification for road in 3.5.2.2		
Water and soil restoration implemented whenever m				
Sub-indicator 3.5.3.1 Old infrastructure still in maintained so as to meet	use is upgraded and	Contract holder make use of old roads Make use of old log landing etc Logging history of block Field visit	FDA Code of Harvesting Practice Contract holder's Management plan document	
		Contract holder's road maintenance records	Discussions with field workers and fringe communities	
Sub-indicator 3.5.3.2		Contract holder's road maintenance records		
	f severe erosion or other and soil degradation are	Contract holder's Monitoring records	Discussion with field	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDI NGS
restored.		Field visit	workers	

Principle 4

According to the importance and intensity of forest operations, the FMU manager contributes to the improvement of the economic and social well being of workers in the FMU and of local populations

(Sustainable forest management should contribute to the overall well-being and socio-economic development at the local, regional and national levels. Well-managed forests are constantly self-renewing resources that produce benefits ranging from high-quality timber and non-timber products, to environmental protection services and satisfying the basic needs of all the groups of local populations. Employment opportunities and investments in forest management and use strengthen the economic development and well-being of local communities. Sustainable forest management also enhances the quality of life by providing opportunities for recreation and maintenance of cultural values related to forests).

Criterion 4.1

The rights and responsibilities of workers in the FMU and local populations are clearly defined, acknowledged and respected.

(The traditional rights and duties of local populations to use forest resources are recognized and documented by the concessionaire in mutual understanding with all the groups of the local populations. Also the terms on working conditions are defined and comply with the international norms defined e.g. in ILO Conventions that the country has ratified)

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF	FINDINGS
			INFORMATION	
Indicator 4.1.1		Contract holder's management plan	Community rights law	
respect to the ownership	y rights of local populations in o, use and tenure of the forest	FDA's SOP	National Forestry Reform Law 2006	
land and resources are and respected	clearly defined, acknowledged	Social Agreement	Ten Core regulations	
			FDA regional offices and contract holders office	
			Discussions with the	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF	FINDINGS
			INFORMATION	
			communities, CFDCs,	
			CBOs, NGO and FDA officials	
G 1 ' 1'				
Sub-indicator 4.1.1.1		Contract holder has documentation	FDA central office	
The provisions of the forestry law on rights of use and ownership are known and respected.		of the outcome of community rights law.	Contract holder's office	
		Contract holder's awareness programme for staff	CFDC records	
		r · g · ·	Discussions with the	
		Discussion with contract holder,	communities, CFDCs,	
		CFDCs and local population	CBOs, NGO and FDA officials	
Sub-indicator 4.1.1.2		FDA and the community defined	FDA Central Office	
	village boundaries are	village boundaries.	FDA regional offices	
respeciea.		Field observations and discussions	Discussion with	
		with affected communities	communities	
			Liberia Forestry Reform	
			Law	
Sub-indicator 4.1.1.3		Contract holder's letter from	Note: Not applicable to	
	cal populations have control	community given free consent to	FMCs, and TSCs except on	
over the forestry operat	tions on their community forest	holder to operate in community	community forest and	
	less they freely delegate this	forest	private or deeded land	
control to a third party			National Forestry Reform	
			Law 2006	
Sub-indicator 4.1.1.4		Community defined restricted sites	Contract holder's office	
Sites of religious, cultur	ral or particular economic	are indicated in contract holder's		
	fied in collaboration with local	Management Plan	CFDC records	
2 0	ted by the FMC's holder	SRA document		
			FDA's offices	
		FMU EIA report		

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
		Field observations and discussions with the affected local communities	FMU EIA report	
and application of their		Discussions with the local communities, for evidence of use of local knowledge, of prior negotiation, payment etc Contract holder's records on compensation for the use and application of their traditional knowledge and techniques in the forest area.	FDA offices Contract holder's office Discussions with the local communities, FDA officials, NGOs and other relevant stakeholders	
Indicator 4.1.2 The modalities of access clearly defined and response	es to forest resources are pected by all.	Contract holder has the necessary permits to cover any forest resources being exploited Evidence of no natural resource exploitation without permit.	Ministry of Land, Mines and Energy (MLME) Community rights law National Forestry Reform Law 2006	
	orestry law and the modalities are known and respected	Field observations Contract holder has NFRL (2006), the Ten Core of Regulations. Contract holder went through the laid down modalities to acquire permit	FDA offices MLME and Contract holders office Community rights law	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
		Contract holders SOP and education for staff include provisions of Liberia forest law and modalities of access to resources Discussions with communities and staff of contract holder	National Forestry Reform Law 2006 Social Agreement	
Indicator 4.1.3				
Sub-indicator 4.1.3.1		Evidence of worker's to associate, minimum national wage not violated, etc Discussions with workers and local trade union executives	Collective Bargaining Agreements (CBA) Liberia Code of Labour Law	
Sub-indicator 4.1.3.2		Staff and Workers paid not less than	Collective Bargaining	
Wages and social bene norms	efits are comparable to national	the Liberia minimum wage Staff pay slips Discussion with Contract Holder staff and workers Contract holders payroll records	Agreement Liberia Code of Labour Law	
fully informed of their	d on and all stakeholders are rights and duties by FDA, act Holder and other forest	Contract Social impact study report Records of contract holder's education and awareness activities Discussions with relevant stakeholders	Contract holder's office Discussion with, communities, FDA officials, Contract holder's workers and Staff Liberia Code of Labour Law	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
			Community rights law	
			National Forestry Reform Law 2006	
			Social Agreement	
	ampaigns are conducted by ontract Holder and other	Contract holder's sensitisation programme, Content of programme	FDA Central and regional offices Contract holder's office	
forest related NGOs	omraci Hotaer ana omer	Report/minutes of activities Discussions with relevant stakeholders	Discussions with the local communities, FDA officials, NGOs and other relevant stakeholders	
Indicator 4.1.5		Contract holder has documented	Ministry of Agriculture	
Damages caused are co norms in force or after t	mpensated according to the negotiation	procedures for identifying damage and payment for compensation Contract holder's records	Discussions with the local communities, FDA officials, NGOs, CBOs, CFDC, and other relevant	
			stakeholders	
Sub-indicator 4.1.5.1	a angultad and their decisions	Contract holder follows Standard for valuing damage.	Ministry of Agriculture	
respected.	consulted and their decisions	Damage valuation documentation Contract holders payment records Discussions with communities/individual/organisation	Discussions with the local communities, FDA officials, NGOs, CBOs, CFDC, and other relevant stakeholders	
Sub-indicator 4.1.5.2		Contract holder follows existing	Ministry of Agriculture	
The procedure to competo cultivated crops is re	ensate for the damage caused spected	standard for paying compensation to cultivated crops Discussions with affected	Contract holder's record	
		communities/individuals /organisations	Discussions with the local communities, FDA	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF	FINDINGS
			INFORMATION	
			officials, NGOs, CBOs,	
			CFDC, and other relevant	
			stakeholders	

Criterion 4.2

The concessionaire encourages the participation of local populations present in the FMU in the management of forest resources

(The FMU should provide all the groups of local populations' possibilities to participate and influence the planning of forest management operations to ensure that local needs are taken into consideration in harvesting and other operations related to forest management. Location of harvesting sites, species selection and road construction are examples of activities that can have significant impacts on local use of forests)

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
Indicator 4.2.1		Contract holder sets up ad hoc committees for negotiation and	FDA's regional offices	
The FMC holder sets up consultation and negotion	o ad hoc bodies for ation with local populations	consultation	Contract holder's office	
O O		Records on committee formation/committee meeting minutes etc Discussions with local population	Discussions with the local communities, FDA officials, NGOs, CBOs, CFDC, and other relevant stakeholders	
Indicator 4.2.2		Contract holder's procedure for	Contract holder's Social	
	gue and the resolution of oth between stakeholders and body	dialoguing and resolution of conflict with stakeholders Procedure includes support for dialogue within stakeholder group	Agreement Discussions with the local communities, FDA officials, NGOs, CBOs, CFDC, and other relevant stakeholders	
Sub-indicator 4.2.2.1 There is efficient and eff	fective communication	Minutes of meeting of ad hoc committee with stakeholders	Contract holder's office	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
between stakeholders		Discussions with stakeholder		
Indicator 4.2.3 All stakeholders partici	pate in the control of forest	Contact holders social economic survey report, strategic forest management plan	FDA Guidelines for forest management planning	
	management on the basis of a	Minutes of meetings with stakeholders	Discussions with the local communities, FDA officials, NGOs, CBOs, CFDC, and other relevant	
		Documentation of consultation with stakeholders	stakeholders	
		Discussions with stakeholders		
Indicator 4.2.4		Field visit to confirm procedures as stated in New Forestry Reform Law	FDA offices Contract holder's office	
Procedures for consultathe establishment and a	ation with populations during lemarcation of forest	(2006)	Discussions with the local	
concession boundaries	are respected	Discussions with local communities	communities, FDA officials, NGOs, CBOs, CFDC, and other relevant stakeholders	
Indicator 4.2.5		New forestry Reform Law (2006)	FDA head office/regional office	
Mechanisms for applyi	ng sanctions in the case of	FDA breach records		
rule violations are in postakeholders	e ·		Discussions with the local communities, FDA officials, NGOs, CBOs, CFDC, and other relevant stakeholders	

Criterion 4.3 All the stakeholders consider the share of benefits derived from forests to be satisfactory

(The views and needs of different stakeholders have been taken into consideration in the participatory planning processes as well as in operational planning and implementation of forest management. Also the sharing of material and immaterial benefits from forests is fair and carried out according to the protocols made)

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF	FINDINGS
			INFORMATION	
Indicator 4.3.1			FDA/LiberFor database	
		Contract holders payment	Office PWYP	
	s that the populations living	receipts of 30% of land rent to	CFDC	
	receive a proportion of the	affected communities	National Forestry Reform	
	e exploitation of the FMU	2	Law of 2006	
according to the regular case basis.	tions in force and in a case by	US\$1/m ³ of total timber volume exploited	LEITI news	
			Discussions with the local	
		Discussions with affected	communities, FDA	
		communities (CFDC)	officials, NGOs, CBOs,	
			CFDC, and other relevant	
		Records of Publish-What-you- pay (PWYP)	stakeholders	
		In case of private land 100%		
7 1 4 422		land rental pay to land owner	Liberia Cada of Faced	
Indicator 4.3.2		Contract holder's documented	Liberia Code of Forest	
Local communities livin	a in an magn the hamvested forest	recruitment, training and	Harvesting Practices	
	g in or near the harvested forest lly from opportunities in	procurement policy,	CFDC records	
	ny from opportunities in add other services according to	Contract holder's forest	CIDC records	
1 1	and in a case by case basis.	management plan	Social agreement	
inc regulations in joice	and in a case by case basis.	management plan	Bootai agreement	
		Contract holder's current	Discussions with the local	
		staff/employment/training and	communities, FDA	
		services records	officials, NGOs, CBOs,	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
		Contract holder's SA with the affected communities	CFDC, and other relevant stakeholders	
		Discussions with local communities		
Sub-indicator 4.3.2.1		Contract current staff/workers	Contract holder's office	
	cal people recruited is higher than ven equal competence	records (% of local people and competences)	CFDC records	
tituti of iteri tecuis, gr	, en equal competence		Social agreement	
		Discussions with affected		
		communities	Discussions with the local	
			communities, FDA	
			officials, NGOs, CBOs,	
			CFDC, and other relevant stakeholders	
Sub-indicator 4.3.2.2		Contract holder's recruitment	Discussions with workers	
	intains a recruitment and training ple originating from local	and training policy	and communities, CFDCs FDA officials, NGOs,	
communities	ste originaling from total	Contract holder's recruitment	CBOs, and other relevant	
		records	stakeholders	
		Contract holder's training records		
Sub-indicator 4.3.2.3		Contract holder's recruitment	Discussion with workers	
The FMC holder mak	kes provision for and accepts	policy	and communities, CFDCs,	
trainees in its produc			FDA officials, NGOs,	
•		Contract holder's trainee	CBOs, CFDC, and other	
		program	relevant stakeholders	
Indicator 4.3.3			Field visit	
		Contract holder's social		
	he importance and impact of the	agreement with communities	Discussion with affected	
forest operations at t	he local level, the FMC holder	makes provision for:	communities, CFDCs, FDA	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
contributes to the development of the local economy.		 A description of the financial benefits that the communities will receive from the holder paying on a quarterly basis into an escrow account equal to or more than \$1 per m³ of logs harvested annually 	officials, NGOs, CBOs, CFDC, and other relevant stakeholders Social Agreement	
		Contract holder gives each CFDC and affected communities the opportunity to participate in at least one public meeting, facilitated and attended by the FDA during social agreement negotiation		
Sub-indicator 4.3.3.1 The FMC holder encourages the creation of small and medium-sized enterprises related to its forestry activities		Contract holder's records Contract holder has analysed the possibilities to improve local level timber processing and taken measures regarding utilization of their potential. Contract holder's records Number of small and medium	Discussion with affected communities, CFDCs, FDA officials, NGOs, CBOs, CFDC, and other relevant stakeholders	
		enterprises established related to contract holder's activities		
Sub-indicator 4.3.3.2 The FMC holder end activities	2 courages local and sub-contracting	Contract holder encourages private entrepreneurship e.g. in forest harvesting, transport, maintenance and supply of forest camps etc. by e.g. providing training on working	Discussion with affected communities, CFDCs, FDA officials, NGOs, CBOs, CFDC, and other relevant	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
		techniques and on business management and social obligations	stakeholders	
		Contract holder's records		
		Number of contract holders operations subcontracted to the communities Field visit		
	ne FMC holder local populations ming activities (gardening, stock-	Existence of micro-projects at the level of local communities initiated/supported by FMU manager Contract holder's records	Discussion with affected communities, CFDCs, FDA officials, NGOs, CBOs, CFDC, and other relevant stakeholders	
		Field visit		

Criterion 4.4

According to the importance and impact of the forestry operations, the concessionaire contributes to improving the health and education of local populations

(FMU contributes to the development of health and educational services to meet the needs of all the groups of the local populations in relation to the significance of forest management in the local economy and employment)

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF	FINDINGS
			INFORMATION	
Indicator 4.4.1		Contract holder carries out risk	Discussions with contract	
The FMC holder takes	preventive measures to	assessment of all operations and design	holder, its staff and	
minimize any profession	nal hazards in relation to	the necessary preventive, curative and	workers	
forestry activities		compensation measure		

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
			Discussion with	
		Contract holder's possesses the Liberia	community	
		Labour Code and other national		
		regulations on work contracts, work	Liberia Labour Code	
		safety, working time, minimum wages,		
		social benefits etc. and respects them		
Sub-indicator 4.4.1.1		Contract holder provides the workers	Discussions with workers	
Working conditions a code and/or ILO reco	re in accordance with the labour	with adequate and ergonomic safety gear	and contractors	
		Contract holder provision of access to	Liberia Labour Law	
		medical treatment in case of accident or		
		emergency situations.	ILO Conventions on	
			forestry work safety and	
		Availability of first aid equipment in	equipment	
		working sites		
			Contractor Agreement	
		The requirements apply also to		
01:1: 4412		contractors	Field visit	
Sub-indicator 4.4.1.2		Contract holder policy for enforcement	Field visit	
	ocedures and memoranda that	and encouragement of use of safety	Discussions with worker	
	to remind employees about the	gears	and local trade union	
observance of safety	norms.	Workers contract/employment letters	executives	
		workers contract/employment letters	executives	
		Health and safety awareness, training		
		and education records		
		and education records		
		Health and safety gear use sanction and		
		incentive records		
Sub-indicator 4.4.1.3		Health and safety gear procurement		
	ear and equipment are distributed	records		
	es in their various working		Discussions with workers,	
environments	es in men various working	Health and safety gear distribution	local trade union	
Civi vi OiviivCivio		records	executives	

SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
	Worker seen using gears		
	Field visit		
	Workers medical examination records	Contract holder's office	
rly submitted to medical dance with national norms	(including dates) medical record/card of each employee	Liberia Labour Law	
	Contract holder's convention with doctors/physicians	Discussions with workers, local trade union executives, workers doctor/physician	
s of living conditions are es and their families	Where workers are housed in contract holder's camp, an action plan to develop hygiene and health of employees and their family exist Action plan is implemented according to specified schedule	Discussions with workers and families	
	Field visit		
s measures to ensure adequate alth (e.g. the provisions of safe gienic latrines, the disposal of).	workers have access to good drinking water, hygienic latrines, household refuse disposal services etc Field visit	Discussions with workers and families	
ave qualified staff living on-site, factory level.	Existence of health centre Qualification certificates of medical staff, convention with	Field visit and discussions with health centre staff or doctors/physicians	
	doctors/physicians Action plan contains provision for	Visit to health centre and discussion with health staff	
	rly submitted to medical dance with national norms s of living conditions are es and their families s measures to ensure adequate alth (e.g. the provisions of safe gienic latrines, the disposal of). ave qualified staff living on-site,	Worker seen using gears Field visit Workers medical examination records (including dates) medical record/card of each employee Contract holder's convention with doctors/physicians Where workers are housed in contract holder's camp, an action plan to develop hygiene and health of employees and their families Where workers are housed in contract holder's camp, an action plan to develop hygiene and health of employees and their family exist Action plan is implemented according to specified schedule Field visit Workers have access to good drinking water, hygienic latrines, household refuse disposal services etc Field visit Existence of health centre Qualification certificates of medical staff, convention with doctors/physicians	Worker seen using gears Field visit Workers medical examination records (including dates) medical record/card of each employee Contract holder's convention with doctors/physicians Where workers are housed in contract holder's camp, an action plan to develop hygiene and health of employees and their families Workers have access to good drinking water, hygienic latrines, the disposal of late disposal services etc Field visit Workers have access to good drinking water, hygienic latrines, household refuse disposal services etc Field visit Existence of health centre Qualification certificates of medical staff, convention with doctors/physicians INFORMATION Contract holder's office Liberia Labour Law Discussions with workers, local trade union executives, workers doctor/physician Discussions with workers and families Discussions with workers and families Field visit Field visit Field visit and discussions with health centre staff or doctors/physicians Field visit to health centre and

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
The provisions of me ensured	edicines to Health centre is	health centre and is implemented	or doctors/physicians	
		Medicine procurement records		
		Medicine dispensing records		
Sub-indicator 4.4.2.		Existence of a store	Visit to store	
	well-stocked with canned and fresh cularly those high in proteins to high meat).	Store is well-stocked with foodstuff especially food high in protein)	Discussion with workers and store manager	
Indicator 4.4.3 The health condition	as of local populations are t of the forestry activities	Contract holder participates in the development of health programs for all the groups of local populations	Field visit	
improved as a result	eg me jeresny demines	Provides resources for their implementation within the share of its significance to the local economy and employment		
		Report on health programme implementation		
Sub-indicator 4.4.3.	1	Data on opening hours and access to	Visit to health centre and	
Local populations had center in case of emo	ave access to FMC holder's health ergency	medical services and health center	discussion with health staff	
Sub-indicator 4.4.3.	2	Contract holder's health education	Discussion with workers	
	ntributes to educational programs	programme	and families	
on nutrition, including women,	ng for pregnant or breast-feeding	Records on contract holder's	Discussions with the	
women,		contributions	communities, NGOs, FDA officials and other relevant stakeholders	
Sub-indicator 4.4.3	3	Records on contract holder's	Discussions with workers	
	entributes to programs on	contributions	and families, local communities, NGOs, FDA	
vaccination and sens	sitisation campaigns on AIDS and		communities, 1400s, 11DA	

INDICATOR	SUB-INDICATOR	VERIFIERS	SOURCES OF INFORMATION	FINDINGS
sexually transmitted	diseases		officials and other relevant stakeholders	
Indicator 4.4.4 The FMC holder contributes to the basic education of local populations and workers present in the FMU, in accordance with the contractual provisions established consistent with national norms		Where worker live inside contract holder's concession/camp there is evidence of contract holders' contributions towards development of educational services that enable the school-aged children to attend classes according to the national standards for basic education Records on contract holder's contributions	Discussions with workers and families, local communities, NGOs, FDA officials and other relevant stakeholders Discussions with the District Education Office	
Sub-indicator 4.4.4. The FMC holder developments workers families	1 velops school infrastructure for its	Contract holder's Records Field observations	Discussions with workers and families, local communities, NGOs, FDA officials and other relevant stakeholders Field Visits Discussions with the District Education Office	
Sub-indicator 4.4.4.2 Children in local con holder's school infra	mmunities have access to the FMC	Records on children in a school age and those attending school	Visit to school Discussions with school workers and the communities	

ANNEX I RELEVANT REFERENCE DOCUMENTS FOR THE IMPLEMENTATION AND ASSESSMENT OF CONFORMITY TO THE LIBERIA ATO/ITTO PCI

Appropriate documentation on agreements, rules, guidelines and plans ensures that the State, contract holder, communities and other stakeholder are aware of right procedures and working methods. Documentation on monitoring of activities and various records provide feed-back on the quality and impact of forest management. Appropriate documentation fitted to the scale and needs of a contract holder is a precondition to an effective and systematic implementation and verification of the Liberia ATO/ITTO PCI. The core documentation includes forest management plan, adequate guidelines for forest work, records on operations and monitoring results on quality and impacts of forest management. This Liberia ATO/ITTO PCI requires explicitly a number of documents and records that the contract holder should adhere to, or compile.

The scope and content of the documentation are adapted to the needs of the various licenses or contract holder and its activities. For example while Environmental Impact Assessments, Social Agreements and operational plans are required for both FMCs and TSCs, Forest Management Plans are required of only FMCs...

Table 1 presents the documentation that a contract holder should be aware of, develop or maintain. The documents are classified into following categories:

- (i) the national level documents, regulations contract holder should take into consideration;
- (ii) FMU level administrative documents and plans that set the framework for forest management;
- (iii) guidelines and instructions concessionaire should develop for systematic implementation of the Liberia ATO/ITTO PCI;
- (iv) records;
- (v) monitoring reports; and
- (vi) development initiatives.

Column one presents the documents proposed in the Liberia ATO/ITTO PCI. The referred ATO/ITTO Criteria and Indicators in the column II set provisions on the content of each document. All the documents marked with * are specifically required in the ATO/ITTO PCI.

The content and structure of documentation are adapted to the management system and needs of the contract holder so as to support efficient high quality work and provide feed-back on the economic, environmental and social impacts of forest management.

Table 1 Documentation Referred to in LIBERIA ATO/ITTO STANDARD FOR SUSTAINABLE MANAGEMENT OF NATURAL FOREST

(4)	
(i) National level norms, regulations, standards	Reference ATO/ITTO indicators
1. National/international guidelines on for forest	
management	1.1.3 (National Forest Policy and related laws)
National Forest Policy of Liberia	1.1.6 (Procedure for access to natural resources)
-National Forestry Reform Law 2006	1.1.9 (Functioning industrial Policy)
–Liberia Labour law	1.1.12. 2 (procedure and guidelines for HCV)
 Public Procurement and Concessions Act 	1.1.6
-CITES, Laws on hunting and trading of bush-	2.2.3 (preliminary studies)
meat	2.6.2 (forest management documents)
-BD Convention	3.2.2 (land conversion)
-ILO Conventions, Labour Code	1.1.1, 1.1.2, (international agreements)
-Recognition of customary rights	3.3.3 (hunting and trade of animals)
-Legislation on the use of chemicals	4.2.5 (sanctions)
 Legislation on protection of forests against 	4.1.3, 4.4.1-2
damages	4.1.1-2
-Norms on waste management	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3.3.4 (chemical, biological protection measures,
	3.5.1 chemicals in use)
	3.5.1 (soil and water protection, waste
	management)
2. National standards on timber recovery rates*	2.3.4, 3.2.1
3. Data on rare, threatened and endangered species	3.1.1
4. Scientific or technical publications	3.1.4
(ii) FMU level administrative documents and	
plans	
3. Timber sales contract	2.2.1
4. Forest management contract	4.1.1, 4.2.3 (protocol), 4.2.5 (sanctions)
5. Forest resource permits	(F),
6. Concession contract (TSC & FMC)*	2.2.3, 2.2.4, 2.2.6, 2.3.3,
-Financial obligations	4.2.5 (sanctions), 4.3.1-3 revenue allocation)
-Provisions for technical work	4.3.1-3, 4.4.4 (health care, education)
-Provisions for social benefits	,,,
-Forest protection (if not defined elsewhere)	2.4.3 (multiple use), 2.5.1, 2.5.3 (NTFP)
= ==== prototion (in not defined the where)	3.2.2 (land conversion)
	4.1.1-2 (customary rights),
7. Preliminary studies*	
7. Preliminary studies* -Forest inventory	2.2.3

-Ecological study	3.3.2/2.2.3-4 (protection), 3.3.4 (species protection)
-Multiresource study	3.3.2/2.2.3-4 (protection), 3.3.4 (species protection)
-Socio-economic study	
8. Forest Management Document*	2.2.3-4 (zones for restricted use), 2.2.6, 2.3.1-3,
-Forest management plan: forest resources,	2.4.2 (single tree method), 2.4.3 (multi-purpose
annual allowable cut, minimum diameter for	trees),
exploitation, number of harvestable trees per	2.5.1-3 (NTFP), 2.6.1 (yield),
hectare	2.6.2 (revision), 3.1.4 (new information),
-Harvesting plan	3.1.1/3.3.2 (maps), 3.2.2/ 3.3.3 (structure)
– Wildlife management plan	3.3.1 (HCVF),
-High conservation value forests (HCVF)	3.3.2/2.2.3-4 (protection),
-Definition of areas of cultural, religious	3.3.4 (species protection)
importance or used for customary rights	3.3.4 (GMO), 3.4.1-2 (regeneration)
-Other	3.5.1-2 (soil and water protection, waste
	management, use of chemicals),
	3.5.3 (restoration activities),
	4.1.1-2 (customary rights),
9. Annual Harvesting Plan*	2.2.3, 2.3.1-3, 2.3.5, 2.4.2 (single tree harvesting),
	2.4.3, 2.5.1 (NTFP)
	3.4.1, 2.6.1 (yield), 3.2.1 (techniques), 3.2.2 (structure), 3.3.1 (HCVF),
	3.4.1-2 (regeneration)
10.Pre-harvest Inventories*	2.3.1, 2.3.2, 2.4.2-3 (valuable trees),
10.1 re-marvest inventories	2.5.2 (NTFP), 3.1.1 (maps on ecologically valuable
	areas)
(iii) Guidelines and instructions	ureus)
Silvicultural regulations and guidelines	2.4.1, 2.4.2 (single tree management),
2. Ten Core Regulation Guidelines	2.4.3 (multi-purpose trees), 2.5.1, 2.5.3 (NTFP)
3. *	3.4.1, 3.5.1 (soil and water protection),
<i>5.</i>	3.2.1-2 (techniques), 3.3.1/2.2.3-4, 3.3.4
	(protection, HCVF)
	3.4.1-2 (regeneration)
	3.5.1-2 (soil, water protection, waste management)
(iii) Guidelines and instructions	Reference ATO/ITTO indicators
4. Regulations on the use of biological and	3.3.4
chemical pest control agents	
5. The Code of Harvesting Practices*	2.3.3, 2.3.4 (waste wood)
6. Recruitment guidelines	2.2.2, 2.4.4, 4.1.3 (workers' rights), 4.3.2, 4.4.1
	(work safety and health care)

7. Work safety and health care guidelines	4.4.1-2 (work safety and health care)
8. Guidelines for development of infrastructure	2.2.7, 3.2.1, 3.5.2-3,
(roads, stock yards, quarries, logging camps)	
9. Program for workers' competence building	2.4.4
10.FMU rules on access to the area*	3.3.3, 4.1.2
11.FMU rules on hunting and trading bush-meat*	3.3.3
12.Procedures for conflict management	4.2.2-3
(iv) Monitoring Documents	
1. Growth, yield and regeneration*	2.6.1-2, 3.1.2, 3.2.2,
2. Ecological impacts*	2.6.1-2 (species) (2.2.3), 3.1.1-2, 3.2.2, 3.3.1
	(structure), 3.3.4 (species composition), 3.5.3
	(erosion)
3. Social and socio-economic impacts*	2.6.1-2 (2.2.3), 3.1.2
4. Economic productivity*	2.6.1-2, 3.1.2
5. Data on the network of permanent sample plots	2.6.1-2, 3.1.2, 3.1.3 (results)
6. Dispersal patterns of exotic species	3.3.4
7. Use of biological/chemical pest/herbicide	3.5.2
control	
(v) Records	
Stakeholder information/consultation on	
 FDA Guidelines for Forest Management 	4.2.3, 4.2.5 (sanctions), 4.3.1-3 revenue allocation)
Planning	
-Forest Management Document*	2.2.6, 2.2.8, 4.2.1-4 (ad hoc bodies)
−Use of NTFP*	2.5.1, 2.5.3, 3.3.3 (subsistence living),
-Water and soil protection, waste management*	2.5.1
 Recognition and documentation of customary 	4.1.1
rights*	
-Compensation on the use of traditional	4.1.1, 4.1.5
knowledge or techniques, for damages*	4.1.4
-Rights and duties (incl. workers' rights)*	
2. Records on staff and workers, contractors	2.2.2, 2.4.4 (training), 4.1.4, 4.3.2,
3. Training	2.4.4 (program) 4.3.2 (records)
-Forest management	2.2.6, 2.2.8, 2.4.4
-Harvesting standards*	2.3.3
-Water and soil protection, waste management	3.5.1
-Work safety and health care	4.4.1
4. Complaints, internal non-conformities,	4.1.5, 4.2.5 (sanctions)
corrective measures	
5. Sales	

-Timber*	2.3.6, 2.6.1 (yield), 3.1.2
-NTFP	2.5.3 (marketing potential)
6. Control reports on the access to and hunting in the FMU*	3.3.3
7. Use of biological/chemical pest/herbicide control	3.5.2
8. Accounting data on revenue allocations	4.3.1 - 3
(vi) Development initiatives	
1. Concessionaire initiates/participates on the	
development of	
-local timber processing	4.3.3
-entrepreneurship	4.3.3
-health care	4.3.3, 4.4.2, 4.4.3
–education (primary; adult education)	4.4.4