

SGS QUALIFOR

(Associated Documents)

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Approved by:	Gerrit Marais

SGS QUALIFOR FOREST MANAGEMENT CHECKLIST FOR GHANA 2016

This checklist presents the SGS Qualifor standard for forest certification against the FSC Principles and Criteria. This standard forms the basis for:

- Scoping assessment
- Certification assessment
- Surveillance assessment
- Information to stakeholders on the assessment criteria used by SGS Qualifor

This checklist is based on the approved FSC National Forest Management for Ghana, *FSC-STD-GHA-01-2012 Ghana Forest Stewardship Standard EN, Version 5*.

This standard follows the requirements of FSC-STD-20-002 Structure and content of forest stewardship standards (November 2004) to improve consistency and transparency in certification decisions between different certification bodies in Ghana and in different parts of the world, and thereby to enhance the credibility of the FSC certification scheme as a whole.

Scope:

This standard is applicable to all forest operations seeking FSC certification within Ghana. This includes Natural Forest and Plantation in Ghana

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CHANGES SINCE THE PREVIOUS VERSION OF THE STANDARD

Section	Change	Date

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TERMS AND DEFINITIONS

AAC Annual Allowable Cut

CBA Collective Bargaining Agreement
CBD Convention on Biological Diversity

CITIES Convention on International Trade in Endangered Species

DFM District Forest Manager
DFO District Forest Office
DFA Defined Forest Area

EIA Environmental Impact Assessment

FC Forestry Commission
FMU Forest Management Unit
FMP Forest Management Plan
FMS Forest Management Systems
FSC Forest Stewardship Council
FSD Forest Service Division

FR Forest Reserve

FRNR Faculty of Renewable Natural Resources
GSBA Globally Significant Biodiversity Area

HCV High Conservation Value

HCVF High Conservation Valued Forest

HFZ High Forest Zone H&S Health and Safety

ILO International Labour Organisation

ITTA International Tropical Timber Agreement

LIF Log Information Form

LMCC Log Measurement and Conveyance Certificate

LUS Lesser Used Species
MoP Manual of Procedures

NHIS National Health Insurance Scheme

NTFP Non-Timber Forest Products

PPE Prevention and Protective Equipments

PSP Permanent Sample Plots
RFM Regional Forest Manager
RFO Regional Forest Office
RIL Reduced Impact Logging

RMSC Resource Management Support Centre

RS Range Supervisor

RTE Rare Threatened and Endangered SFM Sustainable Forest Management

SIA Social Impact Assessment

SRA Social Responsibility Agreement

TIF Tree Information Form
TO Technical Officer

TOS Timber Operational Specifications

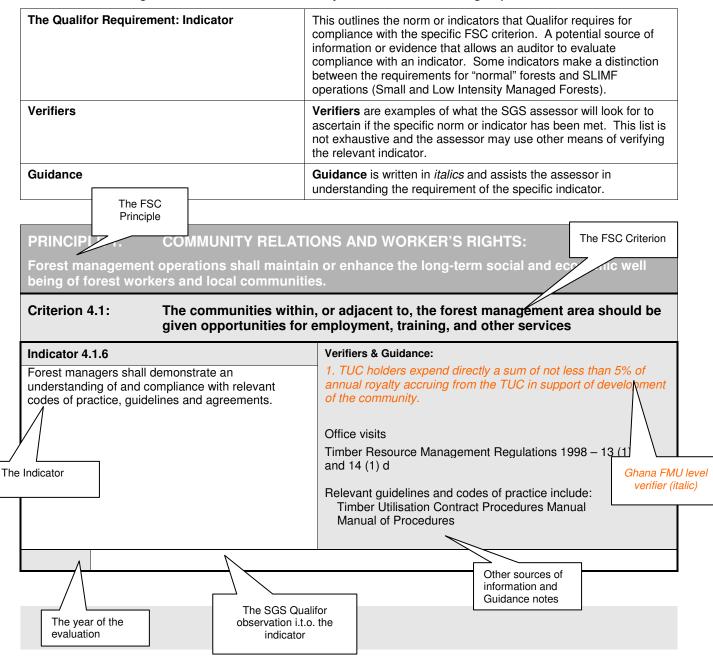
TUC Timber Utilisation Contract WSD Wildlife Services Division

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LAYOUT OF THE STANDARD:

The standard follows the FSC Principles and Criteria of Forest Stewardship (January, 2000). The Standard is divided into 10 sections, each corresponding to one of the FSC principles with the criteria listed underneath each principle. Refer below for further clarification.

Each page of the standard is divided into 3 columns. The standard also serves as the checklist that is used during an assessment and for every criterion the following is provided:



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THE STANDARD

PRINCIPLE 1. COMPLIANCE WITH LAWS AND FSC PRINCIPLES:

Forest management shall respect all applicable laws of the country in which they occur and international treaties and agreements to which the country is a signatory, and comply with all FSC Principles and Criteria

requirements	
Indicator 1.1.1	Verifiers & Guidance:
Forest managers shall maintain an up to date register of all statutes relating to forestry and possess copies of all relevant regulations	1 Register of relevant documentation
	2 Copies of up-to-date statutes and regulations
-	Office of DFM/RFM of FSD
	Office of the Forest manager
	Relevant acts include:
	 Forest and Wildlife Policy 1994
	□ Timber Resource Management Act 1997
	 Timber Resource Management Amendment Act, 2002 Act 617
	 Wildlife Conservation Regulations 1971 LI 685 and its amendments of 1983 L.I 1284; 1988 L. I 1357; 1989 L. I 1452
	□ Forestry Commission Act 1999
	 Trees and Timber Amendment Act 493 1997
	 Companies Code 1963 and/or Incorporated Private partnerships Act 1962
	Provincial ordinances
	 Exchange Control Act
	 Investment Act
	 Environmental Health Act
	 National Health and Safety Regulations
	Labour Act 651 of 2003
	(List not exhaustive)
ndicator 1.1.2	Verifiers & Guidance:
Forest managers shall demonstrate an understanding of and compliance with relevant codes of practice, guidelines and agreements.	1. TUC holders expend directly a sum of not less than 5% of annual royalty accruing from the TUC in support of development of the community.
	2. Company policy coincides with laws and regulations
	3. Forest management objectives and procedures coincide with laws and regulations
	4. Duly authorised Timber Utilisation Contract
	Discussions with:

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Γ	DFM/RFM
	TUC/concession holder
	Office visits
	Timber Resource Management Regulations 1998 – 13 (1) a, b and 14 (1) d
	Timber Resource Management Regulation Amendment
	Relevant guidelines and codes of practice include:
	Timber Utilisation Contract Procedures Manual
	Manual of Procedures
	Terms of Timber Utilisation Contract
	Timber Operational Specifications (TOS)
	Social Responsibility Agreements (SRA)
	Forest protection strategies
	Logging manual
Indicator 1.1.3	Verifiers & Guidance:
Forest managers shall document and implement	1. Register of offences
procedures to monitor compliance with laws and regulations and for taking corrective action if/when any non-compliance is detected	2. Complaints register
	3. Reports of field visits by DFM / RFM / Managers
	4. Offence files of DFM
	DFM office – FSD
	Office of Forest manager
	Timber Utilisation Contract
	Procedures Manual
	I
Indicator 1.1.4	Verifiers & Guidance: 1. TUC signed by appropriate authority exists.
TUC shall be awarded in accordance with due procedures laid down in the Timber Resource	2. TUC with all annexes
Management Regulations 1998	3. Tender documents including advertisements
	4. Minutes of Evaluation Committee
	5. Audit trail of progress of TUC application process
	Discussions and office visits at:
	Responsible ministry for Forestry
	Forestry Commission
	DFM/RFM office
	Forest manager
	Records held by TUC holder will need to be scrutinised
	independently to ensure that due process was observed
	Timber Utilisation Contract Procedures Manual
Indicator 1.1.5	Verifiers & Guidance:

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There shall be no substantiated outstanding claims of non-compliance with national and local laws, regulations or administrative requirements related to forest management.

applicable charges have been paid.

- 1. Completed Environmental Impact Assessment
- 2. Health and Safety Certificates
- 3. Records of payments and subscriptions from responsible Labour Ministry
- 4. Records of union meetings
- 5. No outstanding court cases

Responsible Ministry for Environment and Responsible Ministry for Forestry

Responsible Ministry for Labour

Forest managers and Union representatives

Forestry Commission

Consultation with regulatory authorities and other official bodies responsible for monitoring compliance

Timber Utilisation Contract Procedures Manual

Criterion 1.2 All applicable and legally prescribed fees, royalties, taxes and other charges shall be paid

Indicator 1.2.1 Verifiers & Guidance: Forest managers shall provide evidence that 1. Register of fees paid applicable fees, royalties, taxes and other

- - royalty
 - land rent

stumpage

- fines
- compensation payments
- 2. Official receipts
- 3. Offence register
- 4. Records held by local administrator of stool lands
- 5. Records held by District Assembly

DFM office

Local administrator of stool lands

For details of fees see:

Register of Fees held by District Forest Manager

The terms of the Timber Resource Management Regulations 1998 and Amendment

Timber Utilisation Contract

Copies of licence agreement

TUC Procedures Manual

Criterion 1.3 In signatory countries, the provisions of all the binding international agreements such as CITES, ILO conventions, ITTA, and Convention on Biological Diversity, shall be respected.

Indicator 1.3.1	Verifiers & Guidance:
Forest managers shall be aware of the	1. Species on CITES list Appendix 1 are protected

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implications of the Convention on International Trade in Endangered Species (CITES) in the region, and shall implement appropriate measures or controls to ensure that its provisions are respected.

- 2. Species on CITES list Appendix 2 possess appropriate export licenses and documentation
- 3. Adequate protection measures exist for species that appear on Appendixes 1 and 2

Discussions with Forest manager

Discussions with RFM and DFM

Note local species on CITES appendices 1 and 2 (see Annex 2).

Contact Ministry or local body responsible for monitoring of CITES agreement in Ghana

Indicator 1.3.2

Forest managers shall adhere to Ghana's Labour Laws and ILO conventions applicable in Ghana and shall implement appropriate measures to ensure that their provisions are respected.

Verifiers & Guidance:

- 1. Employment policies of Forest manager & Contractors
- 2. Formal contracts of employment
- 3. Terms of contracts for staff of Forest manager & Contractors

Operational manuals and Codes of Conduct

Discussions with staff of the forest manager

Discussions with Labour Unions and representatives

Ghana's Labour Laws

Indicator 1.3.3

Forest managers shall be aware of the implications of the ITTA in Ghana and shall implement appropriate measures to ensure that its provisions are respected.

Verifiers & Guidance:

Discussions with Forest managers

Discussion with responsible Forestry Ministry and FC staff

Indicator 1.3.4

Forest managers shall be aware of the implications of the Convention on Biological Diversity applicable in their region, and implement appropriate measures to ensure that its provisions are respected.

Verifiers & Guidance:

Discussion with forest managers of the policies and procedures of responsible Forestry Ministry and Forestry Commission

Comparison of Forest Management System with requirements of

Discussion with staff and managers of Forestry Commission and FSD

Discussion with staff of Min of Environment

Note implications of Convention on Biological Diversity in the region of management and any guidance laid down by local relevant authority. In this case the responsible Environment Ministry

Indicator 1.3.5

Forest managers shall be aware of and adhere to all phytosanitary regulations to control pests and diseases of timber and wood products traded internationally or internally.

Verifiers & Guidance:

- 1. Discussions with forest managers about the policies and procedures of Forestry Commission
- 2. Conditions laid down by TIDD
- 3. Procedures and practices of TUC/Concession holder on prophylactic treatment of logs

Discussions with FC staff at the district regional and Headquarters

Discussions with TIDD staff

See Guidance Notes for Auditors on list of FSC prohibited

	Pesticides
	FAO: International Standard for phytosanitary measures (Guidelines for Regulating Wood Packaging Material in International Trade)
Indicator 1.3.6	Verifiers & Guidance:
Forest managers shall be aware of the implications of International Conventions on	Discussion with forest managers about the policies and procedures of the responsible forestry ministry
Climate Change and Desertification.	Policies and procedures of Forestry Commission
	Policies and procedures of the responsible Environment ministry
	Identify and note any other relevant international agreements and their requirements
	gulations and the FSC Principles and Criteria shall be of certification, on a case-by-case basis, by the or affected parties
Indicator 1.4.1	Verifiers & Guidance:
Forest managers shall identify conflicts between laws, regulations and the FSC P&C.	Documented conflicts by the Forest managers
Indicator 1.4.2	Verifiers & Guidance:
Forest managers shall resolve all identified conflict between laws, regulations and the FSC	Forest managers' mechanism for resolving conflicts with relevant regulatory bodies
P&C with appropriate regulatory bodies and other parties.	Discussions with relevant regulatory bodies
	Discussion with the National Working Group on Forest Certification
Criterion 1.5 Forest management areas s and other unauthorised act	should be protected from illegal harvesting, settlement ivities
Indicator 1.5.1	Verifiers & Guidance:
Any admitted farms and alienated land shall	TUC/Forest document and annexes
specify terms and conditions of admittance or ownership.	2. There are maps identifying location of admitted farms and alienated land
	3. Appropriate documentation specifies terms and conditions, rights and obligations of occupation
	Discussions with owners of admitted farms
	For TUCs principally the responsibility of the FC but TUC holder may identify where breaches have occurred.
	The FC is the enforcing body
Indicator 1.5.2	Verifiers & Guidance:
Indicator 1.5.2 Terms and conditions of occupation shall be adhered to.	Verifiers & Guidance: 1. Details of rights, responsibilities and restrictions detailed in TUC/Concession and SRAs
Terms and conditions of occupation shall be	Details of rights, responsibilities and restrictions detailed in

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	Discussions with RFM and DFM
Indicator 1.5.3	Verifiers & Guidance:
The DFA/FMU shall be clearly identified,	1. Fixed markers on the ground
demarcated, described and protected against unauthorised human activities.	2. Gazette notices of revisions and changes to boundaries
	3 Evidence of Forest Managers' mechanism for protection against unauthorised activities
	Field visits
	Discussions with the fringe communities Discussions with the RFM/DFM
Indicator 1.5.4	Verifiers & Guidance:
The area and structure of the DFA/FMU shall be	1. Area of DFA/FMU is not reduced.
maintained.	2. Proportion of area covered by forest remains constant
	Remote sensing imagery or aerial photographs
	Maps of forest reserves will be readily available. Details of off- reserve forest areas will be more difficult to find
Indicator 1.5.5	Verifiers & Guidance:
Managers shall take measures to prevent illegal harvesting, settlement and other unauthorized	1. Fixed markers on the ground
activities within the management area.	2. Gazette notices of revisions and changes to boundaries
Depending on the size of the forest area and on the risk of illegal activity occurring, such	3 Evidence of Forest Managers' mechanism for protection against unauthorised activities
measures may include:	Field visits
Forest roads have gates and/or have	Discussions with the fringe communities
controlled access to areas of high risk;	Discussions with the RFM/DFM
 Forest roads are physically closed off after harvesting; 	
 Forest roads are patrolled to detect and prevent illegal access to the forest; 	
 Personnel and resources have been assigned to detect and control illegal activities promptly. 	
Indicator 1.5.6	Verifiers & Guidance:
The forest area shall be monitored for evidence	1. Fixed markers on the ground
of illegal or unauthorized activities.	2. Gazette notices of revisions and changes to boundaries
	3 Evidence of Forest Managers' mechanism for protection against unauthorised activities Field visits
	Discussions with the fringe communities
	Discussions with the intige confinitionities
	Discussions with the RFM/DFM

Indicator 1.5.7

Appropriate measures shall be taken when illegal activities are detected. Depending on the nature of the activity such measures may include:

- Reporting the activity to an appropriate authority;
- Disciplinary action or fines in the case that staff were involved:
- Working with the appropriate authorities, and always within the law, to control the unauthorized activity;
- Working with local communities and/or authorities to resolve underlying grievances leading to illegal or unauthorized activity;
- Pursuing legal action (e.g. prosecution) if necessary.

Verifiers & Guidance:

Evidence of Forest Managers' mechanism for protection against unauthorised activities

Field visits

Discussions with the fringe communities

Discussions with the RFM/DFM

Indicator 1.5.8

For Large Enterprises only:

Managers shall have documented policies and procedures to protect the forest from illegal harvesting, settlement and other unauthorized activity.

Verifiers & Guidance:

- 1. Fixed markers on the ground
- 2. Gazette notices of revisions and changes to boundaries
- 3 Evidence of Forest Managers' mechanism for protection against unauthorised activities

Field visits

Discussions with the fringe communities

Discussions with the RFM/DFM

Indicator 1.5.9

The enterprise shall maintain a record of all detected instances of illegal harvesting and other unauthorized activities within its management area, and of any subsequent actions taken to control the illegal activity.

Verifiers & Guidance:

- 1. Fixed markers on the ground
- 2. Gazette notices of revisions and changes to boundaries
- 3 Evidence of Forest Managers' mechanism for protection against unauthorised activities

Records of illegal harvesting from DFM.

Indicator 1.5.10

Forest managers shall have developed agreements in discussion with local communities for their help in identifying and/or preventing illegal or unauthorized activities.

Verifiers & Guidance:

Documented agreement with communities.

Discussions with the fringe communities

Indicator 1.5.11

Managers shall take measures to prevent illegal harvesting, settlement and other unauthorized activities within the management area. Depending on the size of the forest area and on the risk of illegal activity occurring, such measures may include:

 Forest roads have gates and/or have controlled access to areas of high risk;

Verifiers & Guidance:

Evidence of Forest Managers' mechanism for protection against unauthorised activities

Field visits

Discussions with the fringe communities

Discussions with the RFM/DFM

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Forest roads are physically closed off after harvesting;	
Forest roads are patrolled to detect and prevent illegal access to the forest;	
Personnel and resources have been assigned to detect and control illegal activities promptly.	
activities promptly.	
Indicator 1.5.12	Verifiers & Guidance:
The forest area shall be monitored for evidence	1. Fixed markers on the ground
of illegal or unauthorized activities.	2. Gazette notices of revisions and changes to boundaries
	Records of illegal harvesting from DFM.
Indicator 1.5.13	Verifiers & Guidance:
Appropriate measures shall be taken when	Report of offense to DFM.
illegal activities are detected. Depending on the nature of the activity such measures may include:	Discussion with DFM and FFC
Reporting the activity to an appropriate authority;	
Disciplinary action or fines in the case that staff were involved;	
Working with the appropriate authorities, and always within the law, to control the unauthorized activity;	
Working with local communities and/or authorities to resolve underlying grievances leading to illegal or unauthorized activity;	
Pursuing legal action (e.g. prosecution) if necessary.	
Indicator 1.5.14	Verifiers & Guidance:
For Large Enterprises only:	Report of illegalities detected in the forest
Managers shall have documented policies and procedures to protect the forest from illegal harvesting, settlement and other unauthorized activity.	Discussion with DFM and FFC
Indicator 1.5.15	Verifiers & Guidance:
The enterprise shall maintain a record of all	Report of illegalities detected in the forest
detected instances of illegal harvesting and	Discussion with DFM and FFC
other unauthorized activities within its management area, and of any subsequent actions taken to control the illegal activity.	
Indicator 1.5.16	Verifiers & Guidance:
Forest managers shall have developed	Documentation of agreements with communities.
agreements in discussion with local communities for their help in identifying and/or	Discussion with DFM and FFC

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preventing illegal or unauthorized activities.	
Criterion 1.6 Forest managers shall dem Principles and Criteria	onstrate a long-term commitment to adhere to the FSC
Indicator 1.6.1	Verifiers & Guidance:
Forest managers shall demonstrate long-term commitment to the principles of responsible	TUC area management plan
forest management.	Discussions with FC
(TUC area management plan)	Discussions with TUC holder/Forest manager
	Field visit
	Discussion with local communities and the District Assembly
Indicator 1.6.2	Verifiers & Guidance:
Forest managers policy objectives shall coincide	TUC area management plan
with international definitions of sound forest management and good practice	Discussions with FC
	Discussions with TUC holder/Forest manager
	Field visit
	Discussion with local communities and the District Assembly
Indicator 1.6.3	Verifiers & Guidance:
Forest Managers shall display understanding of	TUC area management plan
and commitment to the concept and practices of sustainability and the precautionary principle	Discussions with FC
ouotamasmy and the productionary principle	Discussions with TUC holder/Forest manager
	Field visit
	Discussion with local communities and the District Assembly
Indicator 1.6.4	Verifiers & Guidance:
Forest Managers shall strive to comply with	TUC area management plan
management requirements in other areas under their responsibility	Discussions with FC
then responsibility	Discussions with TUC holder/Forest manager
	Field visit
	Discussion with local communities and the District Assembly
Indicator 1.6.5	Verifiers & Guidance:
Forest Manager shall demonstrate commitment	TUC area management plan
at complying with the requirements of this	Discussions with FC
certification standard.	Discussions with TUC holder/Forest manager
	Field visit Discussion with local communities and the District Assembly

PRINCIPLE 2. TENURE AND USE RIGHTS RESPONSIBILITIES:

Long-term tenure and use rights to the land and forest resources shall be clearly defined, documented and legally established.

Criterion 2.1 Clear evidence of long-term forest use rights to the land (e.g. land title, customary rights or lease agreements) shall be demonstrated

Indicator 2.1.1

Records detailing the ownership of the land comprising the DFA shall be maintained by the Forest Manager. E.g. Tenurial agreement showing

- Period of validity
- Name of users

Verifiers & Guidance:

- 1. List of stools, skins and other owners comprising the reserves and DFA
- 2. Names of District and Traditional Authorities
- 3. Names of communities making up the land owning stool are listed
- 4. Maps at 1:10,000 scale showing land ownership and/or tenancies

Discussions with paramount chiefs

Lands Commission

Administrator of Stool Lands

For TUCs legal records maintained by the Forest Service and by Paramount chiefs. TUC holders may also retain copies but this is primarily the responsibility of the FC staff/ Forest manager.

Criterion 2.2

Local communities with legal or customary tenure or use rights shall maintain control, to the extent necessary to protect their rights or resources, over forest operations unless they delegate control with free and informed consent to other agencies.

Indicator 2.2.1

The needs of local communities and the traditional uses, rights and customs of the local communities in the area shall be adequately documented

Verifiers & Guidance:

- 1. Socio-economic annex of the TUC or Forest manager's social policy
- 2. FRMP
- 3. SRA
- 4. Maps of areas of local importance, requiring specific interventions or conditions or areas to be protected
- 5. Forest managers and contractors have access to this information and make use of it in the planning of their activities

Discussions with TUC holder/Forest manger

Documentation held by TUC holder/Forest manager Refer to Forest Reserve Management Plans and District Forest Development Plans

Indicator 2.2.2

Responsibilities and rights of the owners, managers and other stakeholders shall be clearly established and made clear to all stakeholders

Verifiers & Guidance:

- 1. Forest /Timber Utilisation Contracts and TUC operational plans contain details of rights and responsibilities
- 2. Social Responsibility Agreements contain details of rights and responsibilities.
- 3. Local communities possess copies of SRA

SRA, Discussions with local communities & DFM

See TUC, SRAs and Manual of Procedures for details

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Indicator 2.2.3	Verifiers & Guidance:
Domestic use rights of members of local	1. Access to the forest is not impaired
mmunities to enter the DFA and harvest FPs for subsistence shall be assured.	2. Manual of Procedures is adhered to
in in FS for Subsistence shall be assured.	Discussions with local communities
	See MoP Section C and F
Indicator 2.2.4	Verifiers & Guidance:
Local communities' traditional activities within	1. SRA
the DFA shall be respected provided that such activities do not diminish the long term capacity	2. TOS
of the DFA to provide products and services	3. Socio-economic annex to TUC
	Maps at an appropriate scale
	Discussions with local communities
	Discussions with local land owners
	This indicator covers non-extractive activities or uses. For extraction of NTFP see 2.2.
	Other activities may require the establishment of baseline data
Indicator 2.2.5	Verifiers & Guidance:
Control mechanisms for domestic use rights to	1. SRAs specify the control measures
the DFA/FMU shall be supported by landowners and Local communities.	2. Local communities and landowners are aware of control measures and what they are supposed to accomplish
	3. No evidence of consistent breaches of SRAs or other agreements
	4. No outstanding long-running disputes or court cases
	Discussions with forest manager
	Discussions with local landowners
	Local communities should be aware of Forest Manager's/contractors responsibilities and practices through
	SRAs
and use rights. The circum explicitly considered in the	hall be employed to resolve disputes over tenure claim stances and status of any outstanding disputes will be certification evaluation. Disputes of substantial ificant number of interests will normally disqualify an ed
Indicator 2.3.1	Verifiers & Guidance:
Processes shall exist within the management system to identify and address suggestions and	A formal and documented process for receiving and dealing with complaints and suggestions exists
complaints from stakeholders	2. All stakeholders are aware of the process and have access to it.
	3. Forest manager maintains a community liaison officer

Discussions with land owners
Discussions with tenants
Discussions with local communities

Indicator 2.3.2

Systems and procedures shall be formulated to resolve grievances and ensure compensation in the case of loss or damage arising from management activities within the DFA that affect customary or traditional rights, property, resources or livelihoods of local people

Verifiers & Guidance:

2.3.2.1. Documented procedures exist, both informal and formal and responsible personnel are identified

2.3.2.2. Documented procedures exist that involve communities and the forest manager

Discussions with Forest managers

Discussions with local communities

PRINCIPLE 3. INDIGENOUS PEOPLES' RIGHTS:

The legal and customary rights of indigenous peoples to own, use and manage their lands, territories, and resources shall be recognised and respected.

NOTE: Ghana has no "indigenous peoples" within its territory within the working definition adopted by the UN Working Group on Indigenous Peoples. Rights of (members of) local communities are provided for under Principle 2. Therefore, no indicators are proposed in relation to Principle 3. It must be mentioned however, that there exist small minority groups especially in Northern Ghana such as the Konkomba, Grusi, Chokosi, Nchumburu, Gurma etc whose rights as local communities are covered under Principle 2

PRINCIPLE 4. COMMUNITY RELATIONS AND WORKER'S RIGHTS:

Forest management operations shall maintain or enhance the long-term social and economic well being of forest workers and local communities.

Criterion 4.1 The communities within, or adjacent to, the forest management area should be given opportunities for employment, training, and other services

Indicator 4.1.1 All efforts shall be made to employ workers from local communities before workers are sought from further afield. Verifiers & Guidance: 1. Human Resources/Recruitment policy/strategy 2. Evidence of employment of local personnel 3. Advertisements in appropriate local media Discussions with forest managers Discussions with local communities Discussion with unions This principally applies to the license holder who operates only within a specified DFAs

Indicator 4.1.2

Training shall be provided for workers from local communities.

Verifiers & Guidance:

- 1. Human Resources/Recruitment policy/strategy
- 2. Evidence of employment of local personnel
- 3. Advertisements in appropriate local media

Discussions with forest managers

Discussions with local communities

Discussion with unions

This principally applies to the license holder who operates only within a specified DFAs

	d meet or exceed all applicable laws and/or regulations of employees and their families
Indicator 4.2.1	Verifiers & Guidance:
Health and safety measures shall comply with national minimum requirements.	Records of inspections by national or regional H & S inspectors
	2. Records of non-compliance/No evidence of non compliance a appropriate
	3. Health and safety policy of forest manager
	4. Health and safety policy of contractors
	5. Managers are familiar with relevant health and safety guidelines and regulations
	Discussions with regional H & S inspectors
	Discussions with forest managers
	Discussions with contractors
	Auditors should identify and be familiar with all relevant health and safety guidelines and regulations
Indicator 4.2.2	Verifiers & Guidance:
Managers shall assess risks to workers of particular tasks and equipment and take all	Written risk assessments for key tasks
measures to reduce or eliminate such risks.	2. Records kept by forest managers and actions taken in response to accidents and/or health and safety issues raised by national or regional H & S inspections
	Discussions with managers
	Discussions with regional H & S inspectors
Indicator 4.2.3	Verifiers & Guidance:
Workers and contractors shall know the	1. Accessible copies of guidelines and regulations
health and safety guidelines that are relevant to them.	2. Posted notices and/or circulars
relevant to them.	3. Job instructions
	4. Minutes of health and safety meetings
	Discussions with workers
	Identify all relevant health and safety guidelines and regulations

All workers including Contractors shall receive training in safe working practices and should be provided with safety equipment and clothing appropriate to their workplace situation.

- 1. Up to date list of staff trained in first aid, health or safety
- 2. Register of safety equipment by job description
- 3. Safety equipment available and in good condition
- 4. Training procedure documented
- 5. Training records kept
- 6. Employees aware of safety procedure

Discussions with forest managers

Discussions with employees of forest management entity

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Indicator 4.2.5

Managers/Contractors shall ensure that workers use safety gears and equipment that are provided.

Verifiers & Guidance:

- 1. Manager's job descriptions
- 2. Managers enforcement measures / procedure.
- 3. Workers use protective gears during normal working day
- 3. Terms of employment

Discussions with forest manager

Discussions with employees

Discussions with local Trade Union

Indicator 4.2.6

Managers shall record all work related accidents and deaths of employees and their causes, record actions taken to prevent similar accidents in future, and implement such preventative actions.

Verifiers & Guidance:

- 1. Accident records
- 2. Evidence that preventative actions have been implemented

Discussions with forest managers

Discussion with staff of forest management entity.

Indicator 4.2.7

Workers shall have access to appropriate health facilities.

Verifiers & Guidance:

- 1. First aid kits and trained first aid administrators available at all operational sites
- 2. All first aid kits inspected for completeness on a regular basis and re-inspection dates logged
- 3. Clinic maintained by forest management entity
- 4. Clinic properly equipped and staffed by adequately trained staff and/or
- 5. Local health facilities are adequate and appropriate for the type of work being conducted
- 6. Freedom of staff (and where appropriate families) to use local
- 7. National Health Insurance registration status of workers/contractors

Discussions with forest manager

Discussions with employees

Discussions with Local Trade Unions

Discussions with the District National Health Insurance Scheme (NHIS) office

Medical conditions as agreed in the Collative Bargaining Agreements (CBA)

Indicator 4.2.8

There shall be assured compensation benefits in case of accidents.

Verifiers & Guidance:

- 1. Appropriate process and compensation protocol documented
- 2. Records of payments kept
- 3. Forest management entity is adequately insured for compensation claims
- 4. No complaints of non-payment outstanding

Discussions with forest managers

Discussions with employees

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Discussions with Local Trade Union Labour Act 651 of 2003 Criterion 4.3 The rights of the workers to organise and voluntarily negotiate with their employers shall be guaranteed as outlined in Conventions 87 and 98 of the International Labour Organisation (ILO). Indicator 4.3.1 Verifiers & Guidance: Employees of the forest management entity and 1. Copies of Constitution and Labour Laws are available contractors shall be permitted to organise and 2. Written conditions of employment voluntarily negotiate with their employers as guaranteed in the Constitution and labour laws 3. Contracts of Ghana 4. No evidence of non-compliance Discussions with managers Discussions with employees Ghana Labour Act 651 of 2003 Verifiers & Guidance: Indicator 4.3.2 1. Wages not below the National Minimum Wage The employees of the forest management organisation, and contractors shall receive 2. Contracts and terms of employment benefits commensurate with their responsibilities. 3. Forest managers pay their required contribution to workers' Social Security and National Insurance Trust (SSNIT)contribution 4. Minutes of union meetings 5. Staff receive a wage not markedly below wages for equivalent work elsewhere within the industry in Ghana 6. Casual workers are employed on a pro-rata basis equivalent to full benefits for full time staff. 7. Working conditions and contractual terms not markedly below wages for equivalent work elsewhere within the industry in Discussions with staff and/or Local Trade Union representatives Discussions with forest managers Discussions with FC staff Collective Bargaining Agreement Criterion 4.4 Management planning and operations shall incorporate the results of evaluations of social impact. Consultations shall be maintained with people and groups (both men and women) directly affected by management operations. Indicator 4.4.1 Verifiers & Guidance: Forest management shall include systems to 1. Social Responsibility Agreements monitor the social impacts of harvesting and 2. Discussions with communities and District Assemblies other operations. 3. Formal complaints procedures 4. Formal records of meetings between stakeholders. 5. Minutes of meetings of stakeholder focus groups. 6. Health records from hospitals and clinics Discussions with District Assemblies Discussions with forest managers

Indicator 4.4.2

For TUCs, Social Responsibility Agreements with appropriate and relevant conditions for the DFA/FMU shall be established and adhered to, in spirit and in deed by all parties

Verifiers & Guidance:

- 1. One or more SRAs exist
- 2. SRAs drawn up through an appropriate process
- 3. Terms and conditions of the SRAs do not favour one stakeholder group over another
- 4. Control mechanisms for domestic use rights are broadly supported by stakeholders

Discussions with local stakeholders, owners, farmers etc

Relevant background documents outline some of the problems inherent with SRAs for instance 'Status Report on Collaborative Management Practices in the High Forest Zone' and 'Developments and Setbacks in Forest Conservation', by Kofi Smith

Indicator 4.4.3

For TUCs, Timber Operational Specifications (TOS) shall lay down clear and unambiguous conditions and technical specifications.

Verifiers & Guidance:

- 1. TOS exists
- **2.** TOS contain appropriate operating specifications and limits relating to access and use of forest resources

Discussions with TUC holder

Discussion with the DFM

See MoP Annex Section B for details of what TOS should contain

Indicator 4.4.4

TOS and SRAs shall adequately cover operations in the DFA/FMU

Verifiers & Guidance:

- 1. TOS
- 2. SRA
- 3. Additional requirements esp. concerning resource development

Detailed examination of terms and conditions of SRA and TOS

Field visits to ensure terms and conditions are being adhered to Auditors should study the specific recommendations closely:

to identify if there are any areas of management or control which are inadequately addressed

to ensure that the conditions laid down as part of the TOS and SRA are being adhered to

to ensure that both parties (contractors and local communities/farmers etc) are equally well-informed

Indicator 4.4.5

Within a DFA/FMU local communities, both men and women shall be consulted during the development of the Forest Reserve Management Plans, the Timber Utilisation Contract, and in the identification of and planning for the maintenance of High Conservation Value Forest areas (see Criterion 9.1 and 9.2).

Verifiers & Guidance:

- 1. Minutes and notes of meetings with stakeholder and planning meetings to prepare plans
- 2. Local community involvement detailed in the respective FMU/FRMP, TUCMP DFDP and SRA
- 3. Form CAI/1 and attachments

Discussions with local communities

See MoP Section C for details of appropriate processes

Forest Service personnel are responsible for ensuring that

communities are involved and consulted

TUC comes complete with 5 schedules

CAI/1 details all consultations undertaken as part of developing SRAs

Indicator 4.4.6

Forest managers shall establish awareness programmes to ensure that stakeholders are aware of the key elements of policy and management of the forest resource, including the management of High Conservation Value Forest areas.

Verifiers & Guidance:

- 1. Detailed list of stakeholders is established and maintained
- 2. Stakeholder awareness programme exists and is widely available
- 3. All stakeholders are aware of:
 - the forest management policy
 - laws, regulations and other legal instruments
 - their roles in relation to the management plan
 - contingency plans to be undertaken in the event of emergencies, accidents or unforeseen conditions

procedures for improving response to stakeholders and performance

Discussions with DFO and other members of FC

Discussions with local communities

Indicator 4.4.7

The forest management system shall include processes for ensuring ongoing consultation with stakeholders (both men and women) during the implementation of the management plan.

Verifiers & Guidance:

- 1. Minutes or findings / conclusions / recommendations of meetings held as part of preparation of Forest Reserve Management Plans
- 2. Recommendations on Social Responsibility Agreements provided by the FC and deriving from the consultation process
- 3. Existing SRA agreements (between managers and stakeholders)

Discussions with local communities

Discussions with DFM

Discussions with forest managers

Indicator 4.4.8

Forest management activities shall minimise Health and safety risks to local communities as a result of their forest activities.

Verifiers & Guidance:

- 1. Potential hazards or threats to the resources and health of local communities are documented for principal forest operations:
 - roads construction and use
 - vehicle use
 - field operations
 - waste and pollution
- 2 Forest managers responsible for field operations have established documented mitigative measures and contingency plans for spillage, leakage and pollution of the local environment
- 3. Forest managers implement appropriate mitigative and preventative measures
- 4. Where necessary forest managers employ appropriate remedial measures to offset or counter negative impacts on local communities

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	Discussions with forest managers
	Discussions with forest managers Discussions with local Health and Safety officers
	Discussions with local communities
	Discussions with FC staff
Indicator 4.4.9	Verifiers & Guidance:
The enterprise shall demonstrate how it has incorporated the results of its evaluation of social impacts into its management planning and operations.	
providing fair compensation	shall be employed for resolving grievances and for on in the case of loss or damage affecting the legal or resources or livelihoods of local peoples. Measures the loss or damage
Indicator 4.5.1	Verifiers & Guidance:
Forest Managers shall make all efforts to avoid losses or damages affecting local peoples, and	Existence of mechanism for avoiding loss or damage and resolving grievances.
in resolving grievances related to legal rights, damage compensation.	Discussions with forest managers
See 4.1.1. above.	Discussions with local communities
Indicator 4.5.2	Verifiers & Guidance:
Where damage to the forest or local facilities occurs as a result of forest management	Clear rules exist and are documented for compensation of the aggrieved party(ies)
activities, local communities shall be compensated in a fair and prompt manner	Clear rules exist for compensating landowners
	Organisation responsible for meeting compensation claims is clearly identified
	Discussions with FC
	Discussions with forest managers
	Discussions with local communities
	Be aware of the potential for problems to occur 'downstream' from where the activities took place
Indicator 4.5.3	Verifiers & Guidance:
There shall be a documented procedure for the resolution of disputes or grievances raised in	Clear rules exist and are documented for compensation of the aggrieved party(ies)
relation to the activities of the forest enterprise.	Clear rules exist for compensating landowners
	Organisation responsible for meeting compensation claims is clearly identified
	clearly identified

PRINCIPLE 5. BENEFITS FROM THE FOREST:

Forest management operations shall encourage the efficient use of the forest's multiple products and services to ensure economic viability and a wide range of environmental and social benefits.

Criterion 5.1

Forest management should strive towards economic viability, while taking into account the full environmental, social, and operational costs of production, and ensuring the investments necessary to maintain the ecological productivity of the forest

Indicator 5.1.1

Forest managers budgets shall include provision for environmental and social as well as operational costs necessary to maintain certifiable status

Verifiers & Guidance:

- 1. EIA for the forest/TUC which includes an assessment of the social as well as environmental costs of critical activities
- 2. Annual Budget records (present, past and projected)

Discussions with forest managers

For new TUC an EIA is mandatory under LI 1652 1999. Concessions issued prior to the TUC should be covered by an Environmental Management Plan - EPA 490/94

Indicator 5.1.2

Benefits and costs shall be consistent with predictions used to justify the initial investment

Verifiers & Guidance:

- 1. Forest Managers Budgets
- 2 Forestry, timber trade and export statistics
- 3. Annual reports, published accounts of forest management entity
- 4 Harvesting schedule and other plans

Auditors should be aware of techniques to undervalue the forest crop or reduce costs by such mechanisms as modifying timber dimensions and published volumes, transfer pricing etc.

Indicator 5.1.3

Mechanisms shall exist for sustained and adequate funding of the management of the forests

Verifiers & Guidance:

- 1. Accounting system designed to ensure costs and benefits for the DFA/FMU
- 2. Short, medium and long term Investment strategies exist. E.g. Equipment investment plan

Discussion with forest management entity

Criterion 5.2 Forest management and marketing operations should encourage the optimal use and local processing of the forest's diversity of products.

Indicator 5.2.1

Forest managers shall ensure the best possible and optimum use of individual timber species

Verifiers & Guidance:

- 1. Log grading on LMCC
- 2. Differences in TIF and LIF
- 3. Forest managers timber felling practices

TIDD offices

FSD district and regional offices

Forest managers logging documents and records

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Forest managers shall ensure the commercial

Verifiers & Guidance:

1. Comparison of enumeration data, with the yield.

utilisation of Lesser Used Species (LUS)	2. Comparison of yield with actual felling
	RMSC
	FSD offices
	Forest managers yield and felling records
Indicator 5.2.3	Verifiers & Guidance:
Forest Managers shall ensure local processing	Existence of local processing of LUS
of Lesser Used Species (LUS)	Discussions with forest managers
	Ğ
Indicator 5.2.4	Verifiers & Guidance:
Collection of non-timber forest products shall be assured provided that harvesting does not	1. Collection and harvesting of NTFPs specified in FRMP, TUC, TUC operational plans and Social Responsibility Agreements.
exceed levels that are sustainable in the long	2. Baseline data on NTFPs, status and harvesting levels
term.	exist
	3. Levels of harvesting that area is sustainable are clearly specified
	4. In the absence of hard data on NTFPs the management system adopts a conservative and precautionary approach to harvesting
	Discussions with local communities
	Discussions with forest managers
	Discussions with DFM and FC staff
	See Principle 7.7 for further details of sustainability
	Auditors shall differentiate between collection for domestic purposes and 'commercial' harvesting which will require greater rigour and attention to detail and shall appear under Principle 7 - commercial use of NTFPs
Indicator 5.2.5	Verifiers & Guidance:
Non-timber forest products (NTFPs) shall be considered during forest use and processing.	Established NTFP production areas demarcated on maps and on the ground
Within forest reserves appropriate areas are set	2. No logging or conflicting land use employed in such area.
aside specifically for collection of NTFPs by local communities. See also Indicators	3. Local communities are aware of these areas and their
associated with Criterion 5.4	respective rights and responsibilities
	See MoP Section A
	minimise waste associated with harvesting and on-site avoid damage to other forest resources.
Indicator 5.3.1	Verifiers & Guidance:
Harvesting shall take into account the need to	1. Specific waste reducing methodologies and techniques. (RIL)
minimise timber waste	2. Tree stumps demonstrate that stumps have been cut at the lowest level practicable.
	3. Absence of cut logs not extracted
	Discussions with forest managers
	Field visits

Indicator 5.3.2	Verifiers & Guidance:
Waste and collateral damage resulting from harvesting shall be minimised	Collateral damage in field is monitored, recorded and made part of the yield calculation
	2. Use of objective system (eg microborer) to identify rot in trees prior to felling
	Field visits
Indicator 5.3.3	Verifiers & Guidance:
Timber shall be extracted and processed	1. Evidence of wastage in forest
promptly after felling	2. Internal tracking system to monitor levels of log wastage in the forest and mill
	Field visits
Criterion 5.4 Forest management shou avoiding dependence on a	
Indicator 5.4.1	Verifiers & Guidance:
Land owners and other stakeholders shall benefit directly from the forest operations	1. Rights of beneficiaries to receive revenue clearly stated as a management objective within FRMP and relevant planning documents
	2. Terms and conditions for revenue sharing or disbursement clearly established and followed
	3. Land owners and other stakeholders paid promptly (quarterly)
	4. Annual Report
	Discussions with land owners
	Discussions with District Assemblies
	Discussions with DFM
Indicator 5.4.2	Verifiers & Guidance:
Forest managers shall support local value added processing.	Existence of local processing of forest products eg wood carving , NTFP processing etc
	Community visits
	Discussions with the people
	Discussions with forest managers
Indicator 5.4.3	Verifiers & Guidance:
For TUCs, forest managers shall meet their	1. Appropriately worded SRAs
obligation to provide amenities to the communities within the fringes of the DFA, to a	2. List of amenities provided and value
value of not less than 5% of the annual stumpage accruing from the operations under the TUC	3. Other amenities/services provided by forest management entity
the 100	Discussions with local communities
	Discussions with the DFM and the District Assemblies
	Discussions with forest managers

Criterion 5.5

Forest management operations shall recognise, maintain and, where appropriate, enhance the value of forest services and resources such as watersheds and fisheries.

Indicator 5.5.1

The full range of forest services and resources (including, for example, municipal watersheds, upstream and downstream commercial and recreational fisheries, landscape quality, and the forest's contribution to regional biodiversity, recreation and tourism) shall be identified in the forest management plan (or equivalent documentation) for the enterprise

Verifiers & Guidance:

- 1. Zonation of the FMU
- 2. FMU management plan

Discussions with the RFM and DFM,

Discussions with forest managers

MoP section A

Indicator 5.5.2

The management plan (or equivalent documentation) shall specify appropriate measures to maintain and/or enhance the value of each identified forest service or resource.

Verifiers & Guidance:

- 1. Zonation of the FMU
- 2. FMU management plan

Discussions with the RFM and DFM,

Discussions with forest managers

MoP section A

Indicator 5.5.3

Forest managers shall protect the full range of forest services associated with the DFA where appropriate to include watersheds, biodiversity, recreation and tourism

Verifiers & Guidance:

- 1. Zonation of the FMU
- 2. FMU management plan

Discussions with the RFM and DFM,

Discussions with forest managers

MoP section A

Indicator 5.5.4

Indicator 5.6.1

Forest managers shall protect riparian zones along all watercourses, streams, pools, springs and lakes/ponds, in accordance with Ghana's Logging Manual

5.5.4.1. 50m on each side of water courses as identified on a 1:50,000 topographic map and 25m for any other water course

Verifiers & Guidance:

- 1. Compartment map
- 2. Compartment logging plan
- 3. Forest/TUC management plan
- 4. Logging Manual

Field visits

See Ghana's logging Manual

MoP section D

Criterion 5.6 The rate of harvest of forest products shall not exceed levels, which can be permanently sustained.

Rates of forest product harvesting shall be established prior to permitting harvesting for each resource type within each compartment

Verifiers & Guidance:

- 1. Data are available in sufficient detail to permit accurate estimates of current quantities of timber and of their replenishment rates
- 2 PSP, inventory and stock survey methodology

Other information:

Inventory data

	Stock survey records
	Stock maps
	Compartment harvesting records
Indicator 5.6.2	Verifiers & Guidance:
Rates of forest product harvesting shall be based on current inventory, growth and yield data.	Data are available in sufficient detail to permit accurate estimates of current quantities of timber and of their replenishment rates
	2 PSP, inventory and stock survey methodology Other information:
	Inventory data
	Stock survey records
	Stock maps
	Compartment harvesting records
Indicator 5.6.3	Verifiers & Guidance:
Rates of forest product harvesting shall be demonstrated to be within the capacity of the DFA to sustain in the long term.	Data are available in sufficient detail to permit accurate estimates of current quantities of timber and of their replenishment rates
	2 PSP, inventory and stock survey methodology
	Other information:
	Inventory data
	Stock survey records
	Stock maps
	Compartment harvesting records
Indicator 5.6.4	Verifiers & Guidance:
Calculation of yield or yield regulation method shall be rational and scientifically based.	Detailed manuals for yield calculation exist and are readily available
	2. Yield calculation method is regularly updated based on growth and dynamics of the FMU/DFA
	3. Reliable data and information from research and monitoring is available and forms the basis of the periodic re-calculation of sustainable output
	Discussions with DFM, RMSC & Forest managers.
	See MoP section D
Indicator 5.6.5	Verifiers & Guidance:
The yield selection methods and limits on	Minimum number and size of trees to be retained as seed bearers
harvesting shall be clearly stated in one or more	
of the management documents available to forest manager	2. Maximum number (or density) of trees to be harvested per hectare
of the management documents available to	the state of the s
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	DFM, RMSC and forest managers
	Inspection of Stock maps against yield and actual harvesting records.
	Field visits
	See MoP section D
Indicator 5.6.6	Verifiers & Guidance:
Harvesting shall be conducted according to stipulated regulations and guidelines which	The minimum exploitable diameter for each species to be harvested in the yield
ensure that the levels of harvesting do not exceed stipulated levels	2. Stock survey field books, stock maps, yield summary and yield map
	3. Compartment closure reports
	Discussions with Forest management entity, DFM, RFM & RMSC
	See MoP section D
Indicator 5.6.7	Verifiers & Guidance:
Forest managers shall respect controls on	Restriction of logging to approved production areas only
logging and harvesting practice to prevent over- exploitation	2. Prevention of logging in protected or environmentally sensitive areas
	3. The numbers and species of trees in the yield
	4. Forest management entity exits a compartment after 2 years and do not re-enter until the next felling cycle
	5. Re-entering of a compartment before 40 years is consistent with provisions in Section D of MoP
	7. Formal permission from DFM to enter compartment for felling
	Discussions with Forest management entity, DFM, RFM & RMSC
	Ghana Logging Manual

PRINCIPLE 6. ENVIRONMENTAL IMPACT:

Forest management shall conserve biological diversity and its associated values, water resources, soils, and unique and fragile ecosystems and landscapes, and, by so doing, maintain the ecological functions and the integrity of the forest.

Criterion 6.1

Assessment of environmental impacts shall be completed - appropriate to the scale, intensity of forest management operations and the uniqueness of the affected resources - and adequately integrated into management systems. Assessments shall include landscape level considerations as well as the impacts of on-site processing facilities. Environmental impacts shall be assessed prior to commencement of site disturbing operations.

Indicator 6.1.1

The variety and distribution of biological communities and forest ecosystems that comprise the regional landscape and make up the DFA/FMU shall be identified and described.

Verifiers & Guidance:

- 1. Forest surveys
- 2. Maps of forest types, important habitats and critical areas (incl. GSBA and coarse grained protection areas)
- 3. Environmental impact assessment

DFM office and the forest management entity

Forest management entity and responsible Environmental ministry and the FC.

National Forest Inventory of 1984-9 may provide baseline data about the FMU as well as the national status of the forest resource. The Multi-Resource Inventory (MRI) of 2002 RMSC should possess GIS for each forest reserve within a TUC For new TUC an EIA is mandatory under LI 1652 (1999). Concessions issued prior to the TUC should be covered by an Environmental Management Plan - EPA 490/94 Indicator 6.1.2 Verifiers & Guidance: Applicable to SLIMF (1) DFAs only.(Note. Above 1 On the ground evidence relating to road building, logging, insitu processing, boundary activities, riparian management among indicators do not apply except when required by law or FC administrative directive) others. Forest managers shall be aware of and 2 Managers' knowledge of presence of any species and habitats demonstrate knowledge of the possible negative of conservation importance and practical conservation efforts impacts of their activities and take practical 3 Evidence of any negative impacts from management activities steps to avoid or reduce such them. on adjoining lands Completing assessment of environmental impact Integrating results of assessment into management system Assessment of impact of on-site processing facilities before commencing site-disturbing operations. Discussions with forest managers. Discussions with adjoining land owners/users Discussion with DFM Verifiers & Guidance: Indicator 6.1.3 As above (6.1.2) For Large Enterprises only: The enterprise shall complete and document an assessment of the environmental impacts of its management activities at the level of the landscape in which it is situated. Verifiers & Guidance: Indicator 6.1.4 The enterprise shall complete and document an As above (6.1.2) assessment of the environmental impacts of its forest management activities within the FMU under assessment. Verifiers & Guidance: Indicator 6.1.5 As above (6.1.2) The enterprise shall complete and document an assessment of the environmental impacts of its forest management activities within the FMU under assessment. Verifiers & Guidance: Indicator 6.1.6 As above (6.1.2) The enterprise shall complete and document an assessment of the environmental impacts of any processing facilities within the FMU under assessment.

Verifiers & Guidance: Indicator 6.1.7 As above (6.1.2) The assessments of environmental impact referred to in the three Indicators above shall include potential impacts of management infrastructure, logging camps, and workers' activities. Verifiers & Guidance: Indicator 6.1.8 As above (6.1.2) The assessments of environmental impact referred to in the first three Indicators above shall include potential impacts relating to the extraction of forest products (e.g. the choice of equipment, impact of the transport network, impact on rivers in the case of fluvial extraction, etc.), both within and outside the FMU. Indicator 6.1.9 Verifiers & Guidance: As above (6.1.2) The management plans and other relevant policies and procedures of the enterprise shall clearly identify the actions to be taken to mitigate or reduce the environmental impacts identified as a result of the assessments. Verifiers & Guidance: Indicator 6.1.10 As above (6.1.2) There shall be a procedure to review and evaluate potential environmental impacts and to record the specific actions taken to mitigate the impacts identified, on a site-by-site basis, prior to the commencement of site-disturbing operations. Criterion 6.2 Safeguards shall exist which protect rare, threatened and endangered species and their habitats (e.g. nesting and feeding areas). Conservation zones and protection areas shall be established, appropriate to the scale and intensity of forest management and the uniqueness of the affected resources. Inappropriate hunting, fishing, trapping and collecting shall be controlled. Indicator 6.2.1 Verifiers & Guidance: Management plans shall contain clear and 1. Forest Reserve Management Plan unambiguous objectives or goals for protection 2. TUC Management plan and conservation of flora and fauna within forest reserves. 4. District Forest Development Plan (DFDP) Discussions with forest management entity Discussions with FC Discussions with responsible Environmental ministry. Discussions with District Assembly Ghana source material submitted as part of Convention on **Biological Diversity** Indicator 6.2.2 Verifiers & Guidance:

The DFA/FMU shall be covered by clearly defined and formulated strategies to ensure the conservation of existing flora and fauna,	Forest/TUC possesses comprehensive forest protection strategy
including the identification of conservation zones to protect rare, threatened and	2. Plans incorporate coarse and fined-grained protection measures
endangered species and their habitats (e.g.,	3. Pre-stock survey report
nesting and feeding areas)	Discussions with forest managers, staff and workforce
	Discussions with FSD, staff and workforce
	Discussions with District Assemblies
	Discussions with the RMSC
	Procedures laid down in MoP Section A
	Appropriate planning documents in which objectives and strategies should be formulated are the FRMP and the DFDP.
Indicator 6.2.3	Verifiers & Guidance:
Management shall identify areas of semi-	1. For forest reserves - maps showing:
protection within the DFA/FMU	fire buffer zones
	• shelterbelts
	areas of convalescing forest
	2. Fire risk assessment of DFA conducted
	Discussions with DFM
	Discussions with forest management entity
	Discussions with District Assemblies
	Fine grained strategy measures detailed in Forest Protection in Ghana by Hawthorne and Abu-Juam
	Summary of procedures is found in Manual of Procedures Section A - Instruction Sheet A2.3 page 8
Indicator 6.2.4	Verifiers & Guidance:
Management shall adopt genetic heat index and star colour coding of individual species in the	1. Tree maps derived from stock surveys
calculation of yield and the selection of trees to	2. Trees located and colour coded
be felled	3. Selection procedure adopted as prescribed in MoP Section D
	4. Special permits for species on CITES appendixes (See annex 2)
	Discussions with DFM
	Discussions with forest management entity
	TUC Operational plan
	Genetic heat index and the star system are detailed in Forest Protection in Ghana by Hawthorne and Abu-Juam
	Summary of procedures is found in Manual of Procedures Section A
	See also Manual of Procedures Section D Yield Allocation
Indicator 6.2.5	Verifiers & Guidance:
Management shall adopt and put in place appropriate limits or precautionary measures.	Limit on maximum number of stems per hectare to be harvested is adhered to.
	2. Limits on minimum spacing of felled trees (density of felling)
	3. Other precautionary limits to prevent over-cutting

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	Discussions with DFM
	Discussions with forest management entity
	Existing systems are map-based and rely on accurate maps. Simple ground based rules and limits should be in place in the event that maps are inaccurate or not produced in time.
Indicator 6.2.6	Verifiers & Guidance:
Forest management shall demonstrate a commitment to adopt and adhere to protection measures and the spirit of the protection strategy	Forest/TUC management plan, FMU management plan, compartment plans
	2. Policy documents
	3. Operational procedures/manuals and works instructions sheets
	4. Appropriate control of contractors and workforce exist
	Discussions with forest management entity
	To include:
	o instruction sheets
	o posted notices
	 verbal instructions to staff
	Ghanaian source material submitted as part of Convention on Biological Diversity
	Requirements developed for Forest Protection Strategy for forests (coarse and fine grained) provide the minimum acceptable standards
Indicator 6.2.7	Verifiers & Guidance:
Inappropriate hunting, fishing, trapping and	1. Existence of measures to control such activities.
collecting shall be controlled.	2. No evidence of uncontrolled activity taking place
	Consolidated Wildlife laws of Ghana
Criterion 6.3 Ecological functions and value including:	alues shall be maintained intact, enhanced, or restored,
 Forest regeneration and 	
Genetic, species and ecc	
<u> </u>	t the productivity of the forest ecosystem.
Indicator 6.3.1	Verifiers & Guidance:
Silvicultural systems shall be adopted to ensure that a full complement of tree species regenerate successfully in the DEA over the duration of the	Species composition, stand densities, quantities of forest products available post-harvesting are documented
successfully in the DFA over the duration of the rotation/felling cycle	2. Ctatus of fareat at compartment alcours is consistent with
rotation/felling cycle	2. Status of forest at compartment closure is consistent with requirements for regeneration of the existing forest structure
rotation/felling cycle	
rotation/felling cycle	requirements for regeneration of the existing forest structure 3. Enrichment planting is appropriate (native species etc.) and is carried out in such a way as to genuinely contribute to the
rotation/felling cycle	requirements for regeneration of the existing forest structure 3. Enrichment planting is appropriate (native species etc.) and is carried out in such a way as to genuinely contribute to the regeneration of the forest crop 4. A system exists for the long term monitoring of the regeneration and growth of the forest (e.g. permanent sample

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	constitutes good practice inform changes in operational practice Post harvest inventory or objective assessment
	Discussions with forest management entity
	Field visit
	Discussions with FC (RMSC) and FORIG
	Discussions with 10 (niviso) and 10 nid
Indicator 6.2.2	Verifiers & Guidance:
Forest management shall adopt coarse grained protection measures where appropriate in the planning and management of the resource	1. Initial zonation maps - identify, delineate and map protected areas
	2. Maps are accurate and truly represent the situation on the ground
	3. Protected or conserved areas are adequate and appropriate in size and scale
	4. Areas protected for environmental stability including:
	hills, summits and steep slopes
	swamp sanctuaries
	shelterbelts
	fire protection blocks
	5. Areas for biodiversity protection
	6. Culturally sensitive areas of:
	local significance
	 national significance
	7. Sites are excluded from production Field visits
	Coarse grained strategy measures detailed in Forest Protection in Ghana by Hawthorne and Abu-Juam
	Summary of procedures is found in Manual of Procedures Section A
	Inspectors should seek to ensure that adequate and appropriate areas of forest types occurring within the FMU/DFA are set aside
	for protection, both nationally and regionally. Small isolated areas of forest that have been set aside for protection may not be adequate or capable of providing effective protection of species, plant or animal communities or ecosystems
	of forest that have been set aside for protection may not be adequate or capable of providing effective protection of species,
Indicator 6.3.3	of forest that have been set aside for protection may not be adequate or capable of providing effective protection of species,
Forest management shall adopt fine grained	of forest that have been set aside for protection may not be adequate or capable of providing effective protection of species, plant or animal communities or ecosystems
	of forest that have been set aside for protection may not be adequate or capable of providing effective protection of species, plant or animal communities or ecosystems Verifiers & Guidance:
Forest management shall adopt fine grained protection measures in the planning and	of forest that have been set aside for protection may not be adequate or capable of providing effective protection of species, plant or animal communities or ecosystems Verifiers & Guidance: 1. Stock surveys
Forest management shall adopt fine grained protection measures in the planning and	of forest that have been set aside for protection may not be adequate or capable of providing effective protection of species, plant or animal communities or ecosystems Verifiers & Guidance: 1. Stock surveys 2. Individual tree location maps
Forest management shall adopt fine grained protection measures in the planning and	adequate or capable of providing effective protection of species, plant or animal communities or ecosystems Verifiers & Guidance: 1. Stock surveys 2. Individual tree location maps 3. Compartments or zonation maps 4. Maps are accurate and truly represent the situation on the
Forest management shall adopt fine grained protection measures in the planning and	of forest that have been set aside for protection may not be adequate or capable of providing effective protection of species, plant or animal communities or ecosystems Verifiers & Guidance: 1. Stock surveys 2. Individual tree location maps 3. Compartments or zonation maps 4. Maps are accurate and truly represent the situation on the ground 5. Following areas are identified, mapped and physically
Forest management shall adopt fine grained protection measures in the planning and	of forest that have been set aside for protection may not be adequate or capable of providing effective protection of species, plant or animal communities or ecosystems Verifiers & Guidance: 1. Stock surveys 2. Individual tree location maps 3. Compartments or zonation maps 4. Maps are accurate and truly represent the situation on the ground 5. Following areas are identified, mapped and physically excluded:

	Any sanctuaries identified under coarse grained zonation
	Open patches of forest (classes 5 and 6)
	Field visits
	MoP Section C and D
	Fine grained strategy measures detailed in Forest Protection in Ghana by Hawthorne and Abu-Juam
	Summary of procedures is found in Manual of Procedures Section A
	Class 5 = very poor.
	Canopy mostly broken (>75% open)
	Class 6 = no significant forest left. Scattered trees only remaining
	(Forest classes from Forest Protection in Ghana: Hawthorne and Abu-Juam)
	See also MoP section D
Indicator 6.3.4	Verifiers & Guidance:
Areas/corridors of unlogged forest shall be	1. Survey data
retained as local refugia, to provide a seed source and to act as movement corridors for	2. Forest maps and compartment records
local fauna	3. Selection criteria and documented procedures for selecting corridors and refugia
	Field visits
	DFM office
	Forest managers office
Indicator 6.3.5	Verifiers & Guidance:
Management shall comprise systems capable of	Criteria established for degraded or unproductive areas
identifying degraded areas (pre or post logging)	2. Areas shown on maps and classified accordingly as non-productive, protected or convalescent
	3. Areas are appropriately designated and excluded from logging Discussions with FC
	Bloodobiolio With 1 C
	Discussions with forest management entity
	Discussions with forest management entity
Indicator 6.3.6	Discussions with forest management entity
Indicator 6.3.6 Management shall comprise appropriate mechanisms of on-site amelioration	Discussions with forest management entity MoP section D
Management shall comprise appropriate	Discussions with forest management entity MoP section D Verifiers & Guidance: 1. Prescriptions laid down for different types of degrade or
Management shall comprise appropriate	Discussions with forest management entity MoP section D Verifiers & Guidance: 1. Prescriptions laid down for different types of degrade or pollution including soil and water 2. Prescriptions for enhancing or stimulating the regeneration of
Management shall comprise appropriate	Discussions with forest management entity MoP section D Verifiers & Guidance: 1. Prescriptions laid down for different types of degrade or pollution including soil and water 2. Prescriptions for enhancing or stimulating the regeneration of the tree crop 3. Reduced Impact Logging practices
Management shall comprise appropriate	Discussions with forest management entity MoP section D Verifiers & Guidance: 1. Prescriptions laid down for different types of degrade or pollution including soil and water 2. Prescriptions for enhancing or stimulating the regeneration of the tree crop 3. Reduced Impact Logging practices Discussions with FC
Management shall comprise appropriate	Discussions with forest management entity MoP section D Verifiers & Guidance: 1. Prescriptions laid down for different types of degrade or pollution including soil and water 2. Prescriptions for enhancing or stimulating the regeneration of the tree crop 3. Reduced Impact Logging practices Discussions with FC
Management shall comprise appropriate mechanisms of on-site amelioration Indicator 6.3.7	Discussions with forest management entity MoP section D Verifiers & Guidance: 1. Prescriptions laid down for different types of degrade or pollution including soil and water 2. Prescriptions for enhancing or stimulating the regeneration of the tree crop 3. Reduced Impact Logging practices Discussions with FC Discussions with forest management entity Verifiers & Guidance: 1. Selection criteria and documented procedures for identifying
Management shall comprise appropriate mechanisms of on-site amelioration	Discussions with forest management entity MoP section D Verifiers & Guidance: 1. Prescriptions laid down for different types of degrade or pollution including soil and water 2. Prescriptions for enhancing or stimulating the regeneration of the tree crop 3. Reduced Impact Logging practices Discussions with FC Discussions with forest management entity Verifiers & Guidance:

reaterative treatments offeeted	2 Favort and renation many and compartment records	
restorative treatments effected.	Forest and zonation maps and compartment records Field visits	
	100	
	Ghana's forest protection strategy	
Criterion 6.4 Representative samples of existing ecosystems within the landscape shall be protected in their natural state and recorded on maps, appropriate to the scale and intensity of operations and the uniqueness of the affected resources.		
Indicator 6.4.1	Verifiers & Guidance:	
Representative areas of existing forest communities and ecosystems, especially sites of ecological importance, shall be protected in their natural state and documented. (10% shall be the minimum in FSC certified forests).	Selection criteria and documented procedures for identifying and selecting representative areas Forest and zonation maps and compartment records Field visits Ghana's forest protection strategy	
Criterion 6.5 Written guidelines shall be prepared and implemented to: control erosion; minimise forest damage during harvesting, road construction, and all other mechanical disturbances; and protect water resources.		
Indicator 6.5.1	Verifiers & Guidance:	
Forest managers shall produce written	Forest managers written operations procedures	
guidelines to cover all aspects of management that impact on the forest to include road design and construction, preparation of log siding, tree felling, skidding among others aimed at	2 Roads, bridges and loading sites located as per map 3. Appropriateness and quality of road, bridges, culverts, skid trail	
minimising onsite impact.	4. Felling direction	
	5. Riparian protection Field visit	
	Ghana Logging Manual	
Indicator 6.5.2	Verifiers & Guidance:	
The guidelines shall include, at a minimum,	Forest managers written operations procedures	
specific provisions to prevent erosion by identifying areas which are susceptible to erosion, in which harvesting and other disturbance is prohibited	2 Roads, bridges and loading sites located as per map 3. Appropriateness and quality of road, bridges, culverts, skid trail	
	4. Felling direction	
	5. Riparian protection	
Indicator 6.5.3	Verifiers & Guidance:	
Applicable to SLIMF (1) DFAs only. (Note. Indicator	Managers road design and construction on the ground	
6.5.1 does not apply.)	2. Felling and skidding techniques	
Forest managers or their contractors shall demonstrate knowledge to cover all aspects of	Discussions with forest managers and field workers	
management that impact on the forest to include road design and construction, felling among others and take practical measures to minimise negative impacts.	Field visits	
Indicator 6.5.4	Verifiers & Guidance:	
The road network and related constructions	1. Main road width does not exceed 5m and haulage roads < 3m	

shall be properly constructed and maintained.

- 2. Roads with clear and unobstructed side drains and run offs
- 3. No erosion on road surface
- 4. Bridges and culverts permit unobstructed flow of water
- 5. Road spill material removed or utilised in road and landings construction
- 6. Embankments are stable
- 7. Passing places adequate in n umber, appropriately constructed and sited
- 8. Log loading sites properly constructed, stabilised and drained
- 9. Road junctions do not exceed 11m in width and < 30 m in length
- 10. Roads do not exceed permitted gradients (10% for main roads and 14% for haulage roads)
- 11. Roads and tracks are sited at regulation distances from rivers and streams
- 12. Roads and extraction tracks do not cross rivers or buffer zones without culverts or bridges properly constructed
- 13. Trees felled in road construction are utilised and/or crowns cross cut and reduced
- 14. Records of road maintenance
- 15. Roads not built during wet weather or other restricted times Field visit

For details of permitted limits Auditors should refer to the Logging Manual and relevant sections of Mop Sections C. The key elements of these guidelines appear as verifiers in Column 2

Indicator 6.5.5

Felling and extraction shall be executed according to the logging plan

Verifiers & Guidance:

- 1. Logging adheres to logging plan
- 2. Only trees selected for harvesting are felled trees marked for retention are retained
- 3. Extraction routes for selected trees and/or felling direction coincides with the map in logging plan
- 4. Restricted or protected areas marked in field and not logged (river buffer zones, slopes >30%, swamps)
- 5. Stock maps and yield maps at 1:2,500 scale
- 6.Compartment inspection forms and stock maps provide details of:
 - roads and skid trails
 - bridges and culverts
 - areas where soil erosion control measures may be required
 - proposed location of log loading sites
 - streams and areas part of the coarse grained protection strategy

Field visit

Format laid down in MoP Section C.

Harvesting details also laid down in Logging Manual

Indicator 6.5.6

Reduced impact logging and harvesting shall be practised

Verifiers & Guidance:

- 1. Directional felling has been practised
- 2. Collateral damage identified, recorded and compensated.
- 3. Yield recalculated to take into account collateral damage
- 4. No skid paths on slopes > 30%
- 5. No trees felled on slopes >30%
- 5. Waterways cleared of debris
- 6. Buffer zones exist
- 7. No evidence of erosion or water contamination in the field
- 8. Two or more trees adjacent to each other have not been felled
- 9. Trees not felled into streams, buffer zones or other restricted/protected areas.
- 10. No more than 3 trees per hectare felled

Field visit.

Indicator 6.5.7

Management shall provide detailed instructions and minimum standards for the design, construction and maintenance of roads and extraction tracks

Verifiers & Guidance:

Instructions provided on:

- 1. Location of bridges and culverts
- 2. Map requirements for alignment of roads, tracks, loading sites, bridges and culverts
- 3. Road and track network subjected for approval prior to permission to enter compartment
- 4. Specifications for road construction (width, surface cover, drainage etc)
- 5. Specifications for landing sites (permanent locations)
- 6. Specifications for road junctions (permissible angles, area covered by junction, approach slopes etc)
- 7. Acceptable slopes on which roads and tracks may be situated
- 8. Acceptable gradients for roads and extraction tracks
- 9. Operational conditions clearly laid down when road and bridge construction are:
 - permitted
 - not permitted (wet weather conditions etc)
- 10. Stabilization or roads, embankments and cuttings
- 11. Acceptable road density (per ha)
- 12. Re-use of roads, loading and skid trails
- 13. Operational rules established for roads, streams, buffer zones etc.

Discussions with FC

Discussions with forest managers

Logging Manual.

Detailed instructions and standards for Reserve Forests are covered by MoP Section C

Indicator 6.5.8	Verifiers & Guidance:
Trees to be harvested shall be indicated on maps of an appropriate scale prior to felling	Stock map exists at appropriate showing all trees prior to felling.
g	2. Trees selected according to appropriate criteria.
	3. Stock map identifies trees to remain (seed trees, buffer zone etc)
	Discussions with forest managers and
	DFM office
	See MoP Section D
Indicator 6.5.9	Verifiers & Guidance:
Felling direction of trees and/or extraction route	1. Stock map with felling direction marked
shall be marked on map prior to felling.	2. Stock map with extraction route and provisional loading bays marked
	Discussions with forest managers and
	DFM office
Indicator 6.5.10	Verifiers & Guidance:
Felling and extraction equipment shall be specifically selected to minimise environmental	Appropriate decision making criteria and process for selectic and purchase of harvesting and extraction machinery
impact	2.Machines of dimensions and specifications higher than D6 ar
	D7 not allowed Discussions with forest managers
	Ghana Logging Manual
	Chang Logging manda
Indicator 6.5.11	Verifiers & Guidance:
Relevant staff shall be trained and should be aware of the provisions of the written guidelines	1. Training records
aimed at minimising impact of their operations	2. Discussion with field workers Field visit
	i ield visit
environmentally friendly no avoid the use of chemical p and chlorinated hydrocarbo whose derivatives remain b beyond their intended use; agreement, shall be prohibi	promote the development and adoption of on-chemical methods of pest management and strive to pesticides. World Health Organisation Type 1A and 1B on pesticides; pesticides that are persistent, toxic or piologically active and accumulate in the food chain as well as any pesticides banned by international ited. If chemicals are used, proper equipment and o minimise health and environmental risks.
Indicator 6.6.1	Verifiers & Guidance:
Documented pest, disease and weed control	Manuals and operational guidelines exist
strategies shall be available.	Discussions with forest management entity
	FC

The use of all pesticides shall be discouraged, actively monitored and plans for their progressive phasing out made part of the management process.

- 1. A suitable and foolproof means of monitoring and recording the storage and use of chemicals exists and is documented
- 2. Guidelines and manuals for chemical use exist and good practice is adopted
- 3. Chemicals register (pesticides and herbicides). Including records of chemical use:
 - a) Name of the product
 - b) Location of the site treated;
 - c) Area of the site treated;
 - d) Method of application;
 - e) Date chemical use started;
 - f) Date chemical use finished;
 - g) Total quantity of the chemical used
- 4. Contingency plans are documented and in place in the event of pollution or poisoning of the environment or individuals
- 5. Adequate preventive and health and safety measures in place and implemented
- 6. A clear plan for the phasing out of chemicals is detailed in the management plan together with a justification for the continued use of the chemical

Field and office inspection of forest management

Discussions with forest managers

Auditors should consult advice notes on FSC list of prohibited pesticides

Indicator 6.6.3

Environmentally friendly means of pest and weed control shall be adopted wherever possible. Chemicals shall be used only where there is no existence of known non-chemical alternative or entails excessive cost or an unrealistic expenditure of resources.

Verifiers & Guidance:

- 1. Documented justification for use
- 2. Documentary evidence that alternatives are being considered. Field inspections.

EPA quidelines on non-chemical pest management.

Indicator 6.6.4

Chemical prohibited by FSC (FSC-POL-30-601), World Health Organisation Type 1A and 1B and chlorinated hydrocarbon pesticides; as well as any highly hazardous pesticides banned by international agreement shall be prohibited, unless a FSC derogation has been obtained for their use in certified forests in Ghana.

Verifiers & Guidance:

- Records of chemicals purchased and used.
- Field observation.
- Discussions with managers, staff and contractors.

Auditors shall consult advice notes on FSC list of prohibited pesticides

Indicator 6.6.5

Where chemicals are used, proper equipment and training shall be provided to minimise health and environmental risks.

Verifiers & Guidance:

- 1. Procedures are in place to record all use of synthetic chemicals by the forest management enterprise
- 2. Training and appropriate equipment provided to all operators.
- 3. Chemical tanks and stores located so that spillages and waste will not enter watercourses
- 4. All equipment for the transport, storage and application of chemicals is maintained in safe condition and leak-proof containers

Criterion 6.7 Chemicals, containers, liquid and solid non-organic wastes including fuel and oil shall be disposed in an environmentally appropriate manner at off-site locations. Indicator 6.7.1 Mechanical equipment shall be maintained to function efficiently so that pollution and spillage are minimised Weriflers & Guidance: 1. Service records 2. Records of maintenance programmes 3. Absence of spillage on operational sites 4. Where servicing and repairs in the forest are unavoidable all polluting material is collected returned to camp or is disposed or properly Visual inspection - working and stationary Field visits Veriflers & Guidance: 1. Waste material properly disposed 2. Clear procedures and directives for proper waste disposal 3. Offsite locations identified for the disposal of chemicals, oil lubricants and non-organic waste of streams etc 5. Forest camps and operators/contractors based in the field abide by the same rules as HQ based staff Visits to field sites and directives for proper waste disposal of other disposal of all its chemicals, containers, liquid and solid non-organic wastes (including fuel and oil). Veriflers & Guidance: 1. Waste material properly disposed 2. Clear procedures and directives for proper waste disposal of streams etc 5. Forest camps and operators/contractors based in the field abide by the same rules as HQ based staff Visits to field sites and camps. Veriflers & Guidance: 1. Waste material properly disposed 2. Clear procedures and directives for proper waste disposal of ubicinaris and non-organic waste and waste disposal of chemicals, oil ubicinaris and non-organic waste waste disposal of chemicals, oil ubicinaris and non-organic waste waste disposal in forests, along sides of streams etc 5. Forest camps and operators/contractors based in the field abide by the same rules as HQ based staff Visits to field sites and camps.		5. No application of chemicals within 10m of watercourses and
Criterion 6.7 Chemicals, containers, liquid and solid non-organic wastes including fuel and oil shall be disposed in an environmentally appropriate manner at off-site locations. Verifiers & Guidance: 1. Service records		6. No application in heavy rain or on ground baked dry during a
Criterion 6.7 Chemicals, containers, liquid and solid non-organic wastes including fuel and oil shall be disposed in an environmentally appropriate manner at off-site locations. Verifiers & Guldance: 1. Service records 2. Records of mantenance programmes 3. Absence of spillage on operational sites 4. Where servicing and repairs in the forest are unavoidable all polluting material is collected returned to camp or is disposed of properly Visual inspection - working and stationary Field wisits Verifiers & Guldance: 1. Service records 2. Records of mantenance programmes 3. Absence of spillage on operational sites 4. Where servicing and repairs in the forest are unavoidable all polluting material is collected returned to camp or is disposed of properly Visual inspection - working and stationary Field wisits Verifiers & Guldance: 1. Waste material properly disposed 2. Clear procedures and directives for proper waste disposal 3. Offsite focations identified for the disposal of chemicals, oil lubricants and non-organic waste 4. No evidence of waste and waste disposal in forests, along sides of streams etc. 5. Forest camps and operators/contractors based in the field abide by the same rules as HO based staff Visits to field sites and camps. Verifiers & Guldance: 1. Waste material properly disposed 2. Clear procedures and directives for proper waste disposal of chemicals, oil lubricants and non-organic waste 4. No evidence of waste and waste disposal of chemicals, oil lubricants and non-organic waste 4. No evidence of waste and waste disposal in forests, along sides of streams etc. 5. Forest camps and operators/contractors based in the field abide by the same rules as HO based staff Visits to field sites and camps.		
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Visits to field sites and camps. Criterion 6.8 Use of biological control agents shall be documented, minimised, monitored and strictly controlled in accordance with national laws and internationally accepted		
strictly controlled in accordance with national laws and internationally accepted		
strictly controlled in accordance with national laws and internationally accepted		
scientific protocols. Osc of genetically infoamed organisms shall be prombited.		
Indicator 6.8.1 Verifiers & Guidance:	<u> </u>	· · · · · · · · · · · · · · · · · · ·

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Genetically modified organisms shall not be	Plant supply records	
used		
	Discussions with forest managers.	
	The creation of GMOs involves gene transfer under laboratory conditions and not the product of tree breeding, vegetative propagation, cloning or tissue culture programmes.	
Indicator 6.8.2	Verifiers & Guidance:	
Use of biological control agents shall be	1. Introduction protocols	
documented, minimized, monitored and strictly controlled.	2. Permission from MoFA, EPA, FC	
controlled.	3. Supporting trial results	
	4. Documented procedures for monitoring impacts	
	EPA Guidelines on non-chemical pest management	
	T S	
Criterion 6.9 The use of exotic species s avoid adverse ecological in	shall be carefully controlled and actively monitored to npacts	
Indicator 6.9.1	Verifiers & Guidance:	
The use of exotic species shall be carefully controlled and actively monitored to avoid adverse ecological impacts.	1. Documented procedures for monitoring ecological impacts of exotic species or existence of a long history of use without known, significant negative ecological impacts	
Indicator 6.9.2	Verifiers & Guidance:	
The likely ecological impacts of any exotic species shall be evaluated prior to its use.	any exotic 1. Documented evidence of evaluation prior to the use of an	
circumstances where conv a) entails a very limite b) does not occur on	ed portion of the forest management unit; and	
across the forest n	ubstantial, additional, secure, long-term conservation benefits nanagement unit.	
across the forest m	ubstantial, additional, secure, long-term conservation benefits nanagement unit. Verifiers & Guidance:	
Indicator 6.10.1 Forest conversion to plantations or non-forest land uses shall not occur, except in	ubstantial, additional, secure, long-term conservation benefits nanagement unit. Verifiers & Guidance: 1. Maps of areas planted	
Indicator 6.10.1 Forest conversion to plantations or non-forest land uses shall not occur, except in circumstances where conversion: a) entails a	ubstantial, additional, secure, long-term conservation benefits nanagement unit. Verifiers & Guidance: 1. Maps of areas planted 2. Maps of land use prior to planting	
Indicator 6.10.1 Forest conversion to plantations or non-forest land uses shall not occur, except in circumstances where conversion: a) entails a very limited portion of the forest management unit; and b) does not occur on high conservation	ubstantial, additional, secure, long-term conservation benefits nanagement unit. Verifiers & Guidance: 1. Maps of areas planted	
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Indicator 6.10.1 Forest conversion to plantations or non-forest land uses shall not occur, except in circumstances where conversion: a) entails a very limited portion of the forest management unit; and b) does not occur on high conservation value forest areas; and c) will enable clear, substantial, additional, secure, long term conservation benefits across the forest management unit. Indicator 6.10.2 The area affected shall not exceed 0.5% of the	ubstantial, additional, secure, long-term conservation benefits nanagement unit. Verifiers & Guidance: 1. Maps of areas planted 2. Maps of land use prior to planting 3. Conversion objectives	
Indicator 6.10.1 Forest conversion to plantations or non-forest land uses shall not occur, except in circumstances where conversion: a) entails a very limited portion of the forest management unit; and b) does not occur on high conservation value forest areas; and c) will enable clear, substantial, additional, secure, long term conservation benefits across the forest management unit. Indicator 6.10.2 The area affected shall not exceed 0.5% of the area of the FMU in any one year, nor affect a	ubstantial, additional, secure, long-term conservation benefits nanagement unit. Verifiers & Guidance: 1. Maps of areas planted 2. Maps of land use prior to planting 3. Conversion objectives Verifiers & Guidance:	
Indicator 6.10.1 Forest conversion to plantations or non-forest land uses shall not occur, except in circumstances where conversion: a) entails a very limited portion of the forest management unit; and b) does not occur on high conservation value forest areas; and c) will enable clear, substantial, additional, secure, long term conservation benefits across the forest management unit. Indicator 6.10.2 The area affected shall not exceed 0.5% of the	ubstantial, additional, secure, long-term conservation benefits nanagement unit. Verifiers & Guidance: 1. Maps of areas planted 2. Maps of land use prior to planting 3. Conversion objectives Verifiers & Guidance: 1. Maps of areas planted	

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PRINCIPLE 7. MANAGEMENT PLAN:

A management plan - appropriate to the scale and intensity of the operations - shall be written, implemented, and kept up to date. The long-term objectives of management, and the means of achieving them, shall be clearly stated.

Criterion 7.1 The management plan and supporting documents shall provide:

- a) management objectives;
- description of the forest resources to be managed, environmental limitations, land use and ownership status, socio-economic conditions, and a profile of adjacent lands;
- description of silvicultural and/or other management system, based on the ecology of the forest in question and information gathered through resources inventories
- d) rationale for rate of annual harvest and species selection;
- e) provisions for monitoring of forest growth and dynamics;
- f) environmental safeguards based on environmental assessments;
- plans for the identification and protection of rare, threatened and endangered species;
- h) maps describing the forest resource base including protected areas, planned management activities and land ownership;
- i) description and justification of harvesting techniques and equipment to be used.

Indicator 7.1.1

Management plan for FMU/DFA/TUC Area, the attached and referenced documents shall provide

- a. Clear management objectives
- b. Description of the resource, exploitation, land use ownership, socio-economic conditions and adjoining lands
- c. Description of silviculture and or other management system based on knowledge of the ecosystem of the forest in question and information gathered through resource inventory
- d. Rationale for annual harvest and species selection.
- e. Description and justification of the techniques and equipment to be used
- f. Environmental safeguard based on environmental assessment
- g. Measures for identifying and protecting of rare, threatened and endangered species
- h. Map(s) describing the forest resource including protected areas, unique biological or cultural resources, watercourses and drains, compartments/blocks, roads, log landings, , and other planned management activities;
- i. Strategies for monitoring forest growth and dynamics

Verifiers & Guidance:

- 1 Copies of relevant and up to date FRMPs available
- 2. Clear and unequivocal management goals
- 3.Management goals for the FMU are congruent with the forest policy and do not conflict with each other
- 4. For TUCs, management goals are congruent with FMU management goals.
- 5.One or more maps at an appropriate scale showing the boundaries of the DFA and with reference to survey points or clear and recognisable geographical or topographical features
- 6. Maps require all appropriate features to be included:
 - rivers and water features with buffer zones
 - black star species
 - scarlet star species
 - Slopes
 - Cultural sites
 - Research sites
 - Proposed roads, extraction tracks, junctions and loading sites
- 7.All relevant personnel have access to plans, maps and technical data as required
- 8. Adequate information exists on which to base an FRMP Forest Management Plan

Visits to DFM office and discussions with DFM

Discussions with forest managers

Refer to:

- National Forestry Plan
- Forest Reserve Management Plans

	Forest Protection Strategy (Fine and coarse grained)
	Manuals of Procedures
	MoP Section D
	- WIOT GECTION D
Indicator 7.1.2	Verifiers & Guidance:
TUCs shall be observed in formulating the FMU plans and they should follow the agreed format.	1. Socio-economic survey
, ,	2. Field reconnaissance
	3. Conservation and protection areas
	4. Maps
	5. Forest Reserve Annual Reports
	6. Team composition for FMU plans
	7. Stakeholder workshops for FMU plans
	DFM and RFM
Indicator 7.1.3	Verifiers & Guidance:
Information on the flora of the DFA/FMU shall be clearly documented.	1. Forest Reserve Management Plan
clearry documented.	2. Forest inventory
	3. Forest stock maps
	DFM, DFO, DFM
	National Forest Inventory of 1984-9 may provide baseline data about the FMU as well as the national status of the forest resource and the Multi-resource inventory of MRI (2003)
	Annexes and zonation maps should accompany the Forest Reserve Management Plan
Indicator 7.1.4	Verifiers & Guidance:
Information on the fauna of the DFA/FMU shall	1. Forest Reserve Management Plan
be clearly documented	2. Ecological survey which details the status of fauna within the DFA
	DFM, Wildlife Division and Min of Environment
	DFM, Wildlife Division and Min of Environment DFM and/or Forest management entity are expected to conduct some form of survey to assess the current status of fauna within the DFA/FMU
	DFM and/or Forest management entity are expected to conduct some form of survey to assess the current status of fauna within
Indicator 7.1.5	DFM and/or Forest management entity are expected to conduct some form of survey to assess the current status of fauna within
DFA/FMU shall be covered by a valid harvesting	DFM and/or Forest management entity are expected to conduct some form of survey to assess the current status of fauna within the DFA/FMU
	DFM and/or Forest management entity are expected to conduct some form of survey to assess the current status of fauna within the DFA/FMU Verifiers & Guidance:
DFA/FMU shall be covered by a valid harvesting	DFM and/or Forest management entity are expected to conduct some form of survey to assess the current status of fauna within the DFA/FMU Verifiers & Guidance: 1. Harvesting schedule available
DFA/FMU shall be covered by a valid harvesting	DFM and/or Forest management entity are expected to conduct some form of survey to assess the current status of fauna within the DFA/FMU Verifiers & Guidance: 1. Harvesting schedule available 2. Accompanying maps 3. DFA/FMU appropriately subdivided into compartments
DFA/FMU shall be covered by a valid harvesting	DFM and/or Forest management entity are expected to conduct some form of survey to assess the current status of fauna within the DFA/FMU Verifiers & Guidance: 1. Harvesting schedule available 2. Accompanying maps 3. DFA/FMU appropriately subdivided into compartments 4. Harvesting Schedule for DFA/FMU is appropriate based on the
DFA/FMU shall be covered by a valid harvesting	DFM and/or Forest management entity are expected to conduct some form of survey to assess the current status of fauna within the DFA/FMU Verifiers & Guidance: 1. Harvesting schedule available 2. Accompanying maps 3. DFA/FMU appropriately subdivided into compartments 4. Harvesting Schedule for DFA/FMU is appropriate based on the 40 felling cycle and compartment history
DFA/FMU shall be covered by a valid harvesting	DFM and/or Forest management entity are expected to conduct some form of survey to assess the current status of fauna within the DFA/FMU Verifiers & Guidance: 1. Harvesting schedule available 2. Accompanying maps 3. DFA/FMU appropriately subdivided into compartments 4. Harvesting Schedule for DFA/FMU is appropriate based on the 40 felling cycle and compartment history Forestry Commission

Indicator 7.1.6	Verifiers & Guidance:
Compartment inspection shall be completed for	1. Detailed compartment map at 1:10,000 scale
the DFA/FMU	Detailed compartment information available according to
	format
	Discussion with DFM
	Format and key elements to be included are laid down in MoP Sections C and E
Indicator 7.1.7	Verifiers & Guidance:
Stock Survey and Compartment inspection shall	Completed inspection form and stock survey signed off by
be completed for the DFA/FMU	District Forest manager.
	Discussion with DFM, forest manager
	Format laid down in MoP Section D and Logging Manual
	See MoP Sections C
Indicator 7.1.8	Verifiers & Guidance:
DFA/FMU compartment logging plan shall be prepared.	Logging plan which adheres to a detailed pre-determined format:
	2. Stock maps and yield maps at 1:2,500 scale or better
	3. Yield summary in tabular form
	4. Compartment logging plan with details of:
	roads and skid trails
	bridges and culverts
	 areas where soil erosion control measures may be required
	proposed location of log loading sites
	 streams and areas part of the coarse grained protection strategy
	5. Forestry Commission approval of logging plan
	Discussion with the DFM and DFA managers
	Format laid down in MoP Sections B and C and the Logging Manual
	Manag
Indicator 7.1.9	Verifiers & Guidance:
Applicable to SLIMF (1) DFAs only: (note: above	1 Written management plan of DFA
indicators do not apply except when required by law or FC administrative directive)	2 Managers knowledge of the management plan's contents
DFA shall have written management plan	Discussion with DFA managers
that at minimum includes the following:	Discussion with DFM
a. Objectives of management;	
b. A description of the forest;	
c. How the objectives will be met.	
d. Sustainable harvest limits that is consistent with FSC criteria 5.6);	
e. Conservation of rare species habitats and any	

Criterion 7.2 The management plan shall	
	I be periodically revised to incorporate the results of c and technical information, as well as to respond to ocial and economic circumstances
Indicator 7.2.1	Verifiers & Guidance:
Planning and overall management of the forest	1. Forest inventories and surveys
resource shall be based on the best and most up-to-date information possible and shall be	2. Compartment records and closing reports
regularly reviewed and revised to incorporate new information.	3. Research, bulletins, briefing papers
new information.	4. Forest Reserve Management Plans
	5. Document tracking system for research reports to ensure proper circulation.
	6. Schedule for revision of management plans at regular intervals.
	7. EIA guidelines for forest and wood industries
	Discussions with FC
	FORIG and DFA managers
Indicator 7.2.2	Verifiers & Guidance:
The forest management system (FMS) shall be constantly upgraded and improved in the light of new information and of the results of monitoring	Organisations and individuals responsible for systems modification are clearly identified and are aware of their responsibilities
to ensure its continuing suitability and effectiveness	2. Provisions are made for the periodic review, evaluation and revision of the FMS and its component parts
	3. Evaluation of policy objectives and targets in light of information from internal monitoring procedures, audits and feedback from stakeholders
	4. Failures to meet intended goals or manifest failures of FMS are identified
	5. Appropriate modifications in the FMS developed and installe
	6. Document tracking system for research reports to ensure proper circulation.
	7. Schedule for revision of management plans at regular intervals.
	8. EIA guidelines for forest and wood industries.
	Discussions with FC and DFA managers
	Discussions with FC and DFA managers
Indicator 7.2.3	Discussions with FC and DFA managers Verifiers & Guidance:

Applicable for SLIMF (1) DFA's only (Note: above indicators do not apply except where it is required by law or FC administrative directive)

Management plan shall be reviewed at least every 10 years and updated, if necessary, incorporating the results of monitoring to plan and implement future management.

- 2. Monitoring results
- 3. Available research results on the DFA

Discussions with managers

Criterion 7.3 Forest workers shall receive adequate training and supervision to ensure proper implementation of the management plan

Indicator 7.3.1

The Forest Management Organisation shall assign responsibilities to employees and delegate authority to them to enable them to fulfil their responsibilities.

Verifiers & Guidance:

- 1. Clear documentation exists identifying roles and responsibilities
- 2. Organisational chart identifying individuals, and respective responsibilities
- 3. Respective individuals are aware of their responsibilities
- 4. Instruction sheets to staff and workers
- 5. Contracts and terms of employment

Discussions with staff of forest management entity

It is important for management staff to be as fully informed as possible and that the authority and responsibilities of those responsible for the management of the resource are clear and transparent.

Indicator 7.3.2

Regular assessments of training and education needs of employees and contractors shall be conducted by the managers.

Verifiers & Guidance:

1. Records of training assessments

Discussions with managers

Both for forest mangers own employees and contractors

Indicator 7.3.3

Regular assessments of employees and contractors' performance and actions shall be conducted regularly by managers to identify and correct poor performance, failure to meet standards or other shortcomings

Verifiers & Guidance:

- 1. Records of training assessments
- 2. Records of induction courses
- 3. Appropriateness of content of induction courses
- 4. Records of courses on health and safety
- 5. Individual training records (personnel records)

Discussions with managers

Indicator 7.3.4

Sufficient workers with appropriate levels of skills shall be employed by the managers to execute the work required by the forest management system.

Verifiers & Guidance:

- 1. Adequate workforce
- 2. Regular and appropriate training and re-training programmes

Discussions with DFM, Forest manager

Workforce of the forest management entity will need to be evaluated to see if they can fulfil their respective functions

Indicator 7.3.5

Any changes in operational procedures from that laid down by the FMS or arising from corrective or preventive actions shall be recorded.

Verifiers & Guidance:

1. Forest managers operations manuals

Discussions with FC staff

Discussions with forest managers

Indicator 7.3.6

Provisions shall be made for the periodic review

Verifiers & Guidance:

1. Licence holder continues to meet its legal, technical and

and evaluation of forest managers procedures to detect, prevent or remedy non-conformities and to determine the extent to which actual outcomes of the operations coincide with forecasts.

organisational obligations (eg under TUC)

- 2. Relevant and appropriate targets and performance indicators have been established by management
- 3. Maps of DFA/FMU and its constituent components readily and widely available and regularly updated
- 4. Management comprises suitable monitoring systems which provides information to improve and modify the management of the DFA / FMU

Discussions with managers

Indicator 7.3.7

Management systems shall ensure good internal communications and transparency.

Verifiers & Guidance:

System exists for communication between the contract/licence holders and the government agencies responsible for management as well as landowners, farmers and other stakeholders

- 1. Formal system of recording and documenting correspondence and communications exists
- 3. Public reporting mechanisms exist
- 4. Stakeholder awareness programme exists (see also 2.5)

Discussions with: DFM, Communities, Staff of Forest management entity among other stakeholders

Indicator 7.3.8

Manuals of management and or Standard operations procedures (SoP) shall be established and maintained.

Verifiers & Guidance:

- 1. Appropriate manuals of procedures and operational guidelines exist and are regularly in use
- 2. Regular revisions/updates

Discussions and office visit with forest management entity

Discussions visit with FC

It is the FC who is principally responsible for maintaining the Manuals of Procedures, Logging Manual and associated technical manuals.

However, it is reasonable to expect TUC holders to produce their own operations and field manuals even if they are distillations of the manuals prepared by the FC.

Criterion 7.4

While respecting the confidentiality of information, forest managers shall make publicly available a summary of the primary elements of the management plan, including those listed in Criterion 7.1 above.

Indicator 7.4.1

A summary of the primary elements as in 7.1 (i to j) of the management plan shall be made publicly available, including the elements listed in FSC Criterion 7.1 and 9.3

Verifiers & Guidance:

- 1. Publicly available management plan summary.
- 2. Stakeholders have received the public summary when they have requested it.

The summary should be available to members of the public on request.

Criterion 7.5 Measures shall be taken to prevent and minimise outbreaks of fire (Additional Criterion for Ghana – bush fire is a problem in the country).	
Indicator 7.5.1	Verifiers & Guidance:
The need for fire management and control shall	1. FRMP and District Area Plans
be properly evaluated and documented.	2. District Forest Development Plan
	Discussions with DFM
	Discussions with District Assemblies
	MoP G
	National Wildlife Management Policy 2006
Indicator 7.5.2	Verifiers & Guidance:
In fire-prone areas, or those in which fire is an	1. Fire plan based on appropriate maps and consideration of:
integral feature of the ecology of the forest, there shall be a fire management plan.	a) Known ignition sources;
there shall be a lire management plan.	b) Direction of main threat;
	c) Fuel, distribution and flammability;
	d) Ecological features and processes in the forest;
	e) Special features e.g. archaeological sites, rare fire susceptible flora;
	f) Local communities;
	g) Local assets requiring protection;
	h) Access, firebreaks and fuel reduction measures;
	i) Fire detection and suppression procedures;
	j) Resources for control and suppression
	Discussions with DFM
	Discussions with District Assemblies
	MoP G
	National Wildfire Management Policy 2006
	The Ghana National Fire Service Act, 1997
Indicator 7.5.3	Verifiers & Guidance:
Forest managers shall implement fire	1. Implementation procedures
management plan and monitor its effectiveness	2. Monitoring records
	3. Action on monitoring results
	4. Field visits

PRINCIPLE 8. MONITORING AND ASSESSMENT:

Monitoring shall be conducted - appropriate to the scale and intensity of forest management - to assess the condition of the forest, yields of forest products, chain of custody, management activities and their social and environmental impacts.

Criterion 8.1

The frequency and intensity of monitoring <u>should</u> be determined by the scale and intensity of forest management operations as well as the relative complexity and fragility of the affected environment. Monitoring procedures <u>should</u> be consistent and replicable over time to allow comparison of results and assessments of change.

Indicator 8.1.1

Forest management shall include systems for periodic monitoring and reporting of key elements of forest management and their impacts.

Note: see also Indicators for implementation of Criterion 8.2, below.

Verifiers & Guidance:

- 1. Existence of monitoring system
- 2. Coverage of monitoring system eg environmental, social, and economic and operation.
- 3. Actions on monitoring results

Compartment Records

Indicator 8.1.2

The frequency and intensity of monitoring shall be based on the size and complexity of the operation and the fragility of the resources under management

Verifiers & Guidance:

- 1 Assessment of complexity of operations and the ecosystem.
- 2. Periodicity of monitoring
- 3. Monitoring reports

Auditors must refer to the classification contained in schedule 1 of the Timber Resources Management Regulation L.I 1649 of 1998: 20km2,125km2 and125+ km2 for small, medium and large operators respectively

Indicator 8.1.3

Applicable to SLIMF (1) DFA's only (Note: above indicators do not apply except where it is required by law or FC administrative directive):

DFA managers shall conduct regular and consistent monitoring in connection with harvesting operations.

Verifiers & Guidance:

- 1. Evidence of monitoring of harvesting operations
- 2. Consistency of monitoring

Discussions with managers

Criterion 8.2 Forest management <u>should</u> include the research and data collection needed to monitor, at a minimum, the following indicators:

- a) yield of all forest products harvested;
- b) growth rates, regeneration and condition of the forest;
- c) composition and observed changes in the flora and fauna;
- d) environmental and social impacts of harvesting and other operations;
- e) costs, productivity, and efficiency of forest management.

Indicator 8.2.1

Forest management shall include systems to monitor the growth rates, regeneration and condition of the commercially exploitable tree crops

Verifiers & Guidance:

- 1. Post harvesting inventory
- 2. Compartment registers
- 3. Compartment closure report (for baseline data and purposes of comparison)
- 4. Research records and reports
- 5. Analysis of data from permanent sample plots (PSP)

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	Post harvesting inventory data
	Aerial photographs
	Satellite and remote sensing imagery
	Satellite and remote sensing imagery
Indicator 8.2.2	Verifiers & Guidance:
Forest management shall include systems to monitor changes in the structure of the forest	1. Compartment records
ecosystem - its flora and fauna.	2. Forest maps
	3. Permanent sample plots and continuous inventory
	4. Data and forms for recording fauna
	5. Remote sensing, aerial photography
	6. Ongoing monitoring of fauna and flora component
	7. Routine reporting systems by forest guards
	Discussions with managers/FC
	Discussions with forest guards
Indicator 8.2.3	Verifiers & Guidance:
Forest management shall include systems to	1. Monitoring records on HCV
monitor the effectiveness of the measures employed to maintain or enhance the high conservation value attributes identified as a result of the analysis specified in indicator 9.1.1.	2. Analysis and use of results
Indicator 8.2.4	Verifiers & Guidance:
Forest management shall include systems to monitor costs, productivity, and efficiency of	1. Annual reports for on reserve forests
forest management operations.	2. Comparison of performance with 5 year plan
	3. Monthly reports.
	4. Quarterly expenditure and revenue reports.
	5. Published accounts
	Discussions with forest managers.
Indicator 8.2.5	Verifiers & Guidance:
Adequate compartment registers shall be	Compartment registers of an appropriate format exist detailing:
established and maintained by the managers	a) location, area and boundaries
	b) history of operations and interventions
	c) schedule for harvesting including date of next cut
	d) location and descriptions of environmentally sensitive areas and requirements for their conservation
	2. Compartment maps
	2. Compartment maps Visit to offices of forest management entity and the DFM
Indicator 8.2.6	
Indicator 8.2.6 Applicable to SLIMF (1) DFAs only (Note: above	Visit to offices of forest management entity and the DFM
	Visit to offices of forest management entity and the DFM Verifiers & Guidance: 1. Monitoring records

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information on the following: Amount of products harvested; Regular monitoring of any identified high conservation values; Fire threats Forest growth and regeneration. Post harvest inspection for erosion and stream flow: and. Periodic inventory (every 10 to 15 years). Criterion 8.3 Documentation shall be provided by the forest manager to enable monitoring and certifying organisations to trace each forest product from its origin, a process known as the "chain of custody." Indicator 8.3.1 Verifiers & Guidance: Forest management shall include a system for 1. FC's log tracking procedure identifying and marking, in a unique and 2. Physical marking of timber/other products unambiguous manner, the identity of timber or other commercial forest products and its point 3. System of timber tagging of origin. 4. Marking or tagging corresponds to field surveys and tree maps Discussions with forest management entity Field visits to harvesting sites in field Visits to roadside check stations Timber Resource Management Regulation L.I 1649 Ghana Logging Manual Indicator 8.3.2 Verifiers & Guidance: Forest management shall include systems for 1. Control systems in place and functioning effectively tracking timber or other commercial forest 2. FC tracking system products from the point of origin to the point of sale or point of conversion. 3. Yield summaries, TIF, LIF, LMCC, production Discussions with forest management entity and FC Field visits Note: The Free Zone Board holds quarterly production, export, local sales and other data for registered free zone forest entities Indicator 8.3.3 Verifiers & Guidance: 1. Procedure documented The forest management entity shall maintain control of the chain of custody of commercial 2. Invoices or appropriate documentation issued for timber sales forest products up to the point of sale. that clearly identifies the: a) commercial product (permitting its source to be traced) b) date of sale quantity and specifications (species, dimensions, quality) point at which the buyer takes control of the chain of custody of the product Discussions with forest management entity

Discussions with FC

Field visits at various points along the custody of chain Criterion 8.4 The results of monitoring shall be incorporated into the implementation and revision of the management plan. Indicator 8.4.1 Verifiers & Guidance: The management plan shall include protection 1. System exists for regular review of management plans and conservation strategies are modified in 2. Results of environmental studies response to new data and information 3. Results of forest inventories and permanent sample plots 4. Wildlife studies and information from Wildlife Division on forest ecosystems 5. Remote sensing data and aerial photography 6. Forest maps and compartment records 7. Fire protection plans Discussions with forest management entity, FC staff (RMSC) and **FORIG** Discussions with Wildlife Division Discussions with forest management entity Criterion 8.5 While respecting the confidentiality of information, forest managers shall make publicly available a summary of the results of monitoring indicators, including those listed in Criterion 8.2. Indicator 8.5.1 Verifiers & Guidance: A summary of the results of monitoring shall be 1. Publicly available summary of results of monitoring. made publicly available, including the elements 2. Stakeholders have received the public summary when they listed in FSC Criterion 8.2. have requested it. The summary should be available to members of the public on request. **MAINTENANCE OF HIGH CONSERVATION VALUE FORESTS:** PRINCIPLE 9. Management activities in high conservation value forests shall maintain or enhance the attributes, considered in the context of a precautionary approach. Criterion 9.1 Assessment to determine the presence of the attributes consistent with High Conservation Value Forests will be completed, appropriate to scale and intensity of forest management Indicator 9.1.1 Verifiers & Guidance: 1. Forest surveys The results of assessments specified in Indicator 6. 1.1. shall be analysed to determine 2. Maps of forest types, important habitats and critical areas (incl. the presence of High Conservation Value GSBA and coarse grained protection areas) attributes, as defined in the FSC Glossary. 3 Environmental impact assessment Ghanaian assessments of Globally Significant Biodiversity Areas (GSBA). An Interpretation of Global HCVF toolkit for use in Ghana Areas (GSBA): Areas within Ghana that are assessed as being outstanding (globally and nationally) as repositories of

biodiversity. Key elements of Ghana's protected area network.

Broadly synonymous with High Conservation Value Forests..." Verifiers & Guidance: Indicator 9.1.2 Sites within the DFA that are of special cultural, 1. TOS and SRA ecological or religious significance to local 2. Clear policy exists for identifying and dealing with such sites communities shall be identified in collaboration when they are encountered with such people, documented and provided with such protection that they continue to fulfil 3. Operational or field guidelines of forest managers their functions 4. Surveys and maps accompanying forest management 5. Clear guidelines exist for the subsequent protection of such sites when identified Discussions with forest management entity Discussions with local communities Field visits Guidelines for the appropriate processes can be found in MoP Section C Details of sites should also appear in the TUC and appropriate annexes and the SRA Criterion 9.2 The consultative portion of the certification process must place emphasis on the identified conservation attributes, and options for the maintenance thereof. Indicator 9.2.1 Verifiers & Guidance: Forest managers shall consult and document in see indicators 4.4.5 and 4.4.6 consultation with stakeholders on the Existence of consultation documentation. identification of High Conservation Values, and Discussion with stakeholders. the management options thereof. During evaluation for certification the certification body should (see Indicators 4.4.5 and 4.4.6) consult to confirm whether the Managers' consultation with stakeholders was adequate in relation to consideration of High Conservation Values. Indicator 9.2.2 Verifiers & Guidance: Applicable to SLIMF (1) DFAs only (Note: above 1. Evidence of any earlier consultations indicators do not apply except where it is required by Discussions with mangers. law or FC administrative directive): Managers shall have consulted with relevant stakeholders to identify HCVs and/or HCVF. This may occur during the actual certification

Criterion 9.3

threats

The management plan shall include and implement specific measures that ensure the maintenance and/or enhancement of the applicable conservation attributes consistent with the precautionary approach. These measures shall be specifically included in the publicly available management plan summary.

Indicator 9.3.1

The management plan shall include specific measures for the maintenance and/or enhancement of those attributes identified in Criterion 9.1 as being High Conservation Values

assessment. If HCVs or HCVF are present, managers are required to take all reasonable steps to protect these values and/or reduce

Verifiers & Guidance:

Management planning documents

An Interpretation of Global HCVF toolkit for use in Ghana

Criterion 9.4 Annual monitoring shall be conducted to assess the effectiveness of the measures employed to maintain or enhance the applicable conservation attributes.	
Indicator 9.4.1	Verifiers & Guidance:
See Indicator 8.2.3	
PRINCIPLE 10. PLANTATIONS:	
Principle 10 and its Criteria. While plantations and can contribute to satisfying the world's n	accordance with Principles and Criteria 1 - 9, and s can provide an array of social and economic benefits, needs for forest products, they should complement the comote the restoration and conservation of natural
Criterion 10.1 The management objectives of the plantation, including natural forest conversion and restoration objectives, shall be explicitly stated in the management plan, and clearly demonstrated in the implementation of the plan.	
Indicator 10.1.1	Verifiers & Guidance:
Objectives of plantation shall be clearly stated in	1.Management plan
the management plan to include:	2. Supporting documents
Conservation and restoration of the nature forest, social acceptability and environmental	Forest manager's office
appropriateness.	Discussions with other stakeholders
	Plantation Manual of Procedures (MoP) Section A, B and C
Indicator 10.1.2	Verifiers & Guidance:
The means of achieving plantation management objectives shall be documented in the	1.Management plan
management plan	2. Supporting documents
	Forest Manager's office
	For areas less than 20 ha a management plan may not be necessary documented
Indicator 10.1.3	Verifiers & Guidance:
Plantation management objectives shall be	1 Management plan
demonstrated in forest management activities	2. Forest manager's field operational procedures/instructions
	Forest managers office
	Discussions with other stakeholder
	Field visit
Criterion 10.2 The design and layout of plantations should promote the protection, restoration and conservation of natural forests, and not increase pressures on natural forests. Wildlife corridors, streamside zones and a mosaic of stands of different ages and rotation periods, shall be used in the layout of the plantation, consistent with the scale of the operation. The scale and layout of plantation blocks shall be consistent with the patterns of forest stands found within the natural landscape.	
Indicator 10.2.1	Verifiers & Guidance:
Plantation design and layout shall demonstrate	1 Management plan
the commitment to protect, restore and conserve	2. supporting documents
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natural forest	3. Planning procedures
	4. Plantation and blocks map
	Plantation MoP (A)
	DFO, Field visits.
	S. O, FISIA VISIO.
Indicator 10.2.2	Verifiers & Guidance:
Plantation design and layout shall establish	1. Plantation and block maps
riparian zones in accordance with Ghana's best	2. Field inspection
practices, wildlife habitats and corridors suitably located across plantation areas.	Field visits
	Discussions with other stakeholders
Indicator 10.2.3	Verifiers & Guidance:
The layout of plantation blocks shall be	1. Management plan
consistent with the patterns of the landscape	2. Planning procedures
and natural feature of the area	3. Field inspection
	Field visits, Topographical map of the area
	, , , , , , , , , , , , , , , , , , , ,
composition of species, ago	e ciasses and structures.
1. 1	Veriffere 9 Orders
	Verifiers & Guidance: 1 Management plan (number of species)
Plantation establishment shall place emphasis on combining / varying, varying block sizes, age	Verifiers & Guidance: 1.Management plan (number of species) 2. Field visits (block sizes, age classes)
Plantation establishment shall place emphasis on combining / varying, varying block sizes, age	1.Management plan (number of species)
Plantation establishment shall place emphasis on combining / varying, varying block sizes, age class and structure	1.Management plan (number of species)
Plantation establishment shall place emphasis on combining / varying, varying block sizes, age class and structure Indicator 10.3.2 Plantation design and management shall ensure	1.Management plan (number of species) 2. Field visits (block sizes, age classes)
Plantation establishment shall place emphasis on combining / varying, varying block sizes, age class and structure Indicator 10.3.2 Plantation design and management shall ensure	1.Management plan (number of species) 2. Field visits (block sizes, age classes) Verifiers & Guidance:
Plantation establishment shall place emphasis on combining / varying, varying block sizes, age class and structure Indicator 10.3.2 Plantation design and management shall ensure	1.Management plan (number of species) 2. Field visits (block sizes, age classes) Verifiers & Guidance: The number of species and management practices
Plantation establishment shall place emphasis on combining / varying, varying block sizes, age class and structure Indicator 10.3.2 Plantation design and management shall ensure	1.Management plan (number of species) 2. Field visits (block sizes, age classes) Verifiers & Guidance: The number of species and management practices Diversity of flora and fauna within plantation Reports indicating changes in species diversity since plantation
Plantation establishment shall place emphasis on combining / varying, varying block sizes, age class and structure Indicator 10.3.2 Plantation design and management shall ensure	1.Management plan (number of species) 2. Field visits (block sizes, age classes) Verifiers & Guidance: The number of species and management practices Diversity of flora and fauna within plantation Reports indicating changes in species diversity since plantation establishment
Plantation establishment shall place emphasis on combining / varying, varying block sizes, age class and structure Indicator 10.3.2 Plantation design and management shall ensure	1.Management plan (number of species) 2. Field visits (block sizes, age classes) Verifiers & Guidance: The number of species and management practices Diversity of flora and fauna within plantation Reports indicating changes in species diversity since plantation establishment Field visit
Plantation establishment shall place emphasis on combining / varying, varying block sizes, age class and structure Indicator 10.3.2 Plantation design and management shall ensure species and genetic diversity. Criterion 10.4 The selection of species for the site and their appropria enhance the conservation of exotic species in the estable ecosystems. Exotic specie greater than that of native services and structure.	1.Management plan (number of species) 2. Field visits (block sizes, age classes) Verifiers & Guidance: The number of species and management practices Diversity of flora and fauna within plantation Reports indicating changes in species diversity since plantation establishment Field visit
Plantation establishment shall place emphasis on combining / varying, varying block sizes, age class and structure Indicator 10.3.2 Plantation design and management shall ensure species and genetic diversity. Criterion 10.4 The selection of species for the site and their appropria enhance the conservation of exotic species in the estable ecosystems. Exotic specie greater than that of native smortality, disease, or insections.	1.Management plan (number of species) 2. Field visits (block sizes, age classes) Verifiers & Guidance: The number of species and management practices Diversity of flora and fauna within plantation Reports indicating changes in species diversity since plantation establishment Field visit Botanical and other wildlife reports r planting shall be based on their overall suitability for teness to the management objectives. In order to of biological diversity, native species are preferred over ishment of plantations and the restoration of degraded is, which shall be used only when their performance is species, shall be carefully monitored to detect unusual
the site and their appropria enhance the conservation of exotic species in the establ ecosystems. Exotic specie greater than that of native s	1.Management plan (number of species) 2. Field visits (block sizes, age classes) Verifiers & Guidance: The number of species and management practices Diversity of flora and fauna within plantation Reports indicating changes in species diversity since plantation establishment Field visit Botanical and other wildlife reports r planting shall be based on their overall suitability for teness to the management objectives. In order to of biological diversity, native species are preferred over ishment of plantations and the restoration of degraded is, which shall be used only when their performance is species, shall be carefully monitored to detect unusual toutbreaks and adverse ecological impacts.

Indicator 10.4.2	Verifiers & Guidance:
Indigenous species shall be given first	1. Justification for specie selection
consideration during species selection.	2. Discussion with manager on potentials and limitations of
	indigenous species
	Discussion with other stakeholder (FORIG, FRNR)
	[
Indicator 10.4.3	Verifiers & Guidance:
The choice of exotic species shall be justified to include that it out-performs against native	1. Justification for selection of exotic species
species for selected management objectives.	2. Discussions with management
	Discussions with research institutions eg FORIG, FRNR
Indicator 10.4.4	Verifiers & Guidance:
Exotic species shall not be planted on a large	1. Species local trial results
scale until local trials and /or experience have shown that they are well adapted to the site and	2. Species trial results from other published sources
do not have serious adverse ecological impact.	Discussion with research, eg FORIG, FRNR
	Field visits
restore the site to a natural	Verifiers & Guidance:
A proportion of the existing natural ecosystem	1. Maps
shall be managed to enhance its natural characteristics. (Note. Reference is also being	2. Justification for total area managed for natural forest restoration
made to indicators 10.2.1, 10.2.2 and 10.2.3)	3. Field visits
Indicator 10.5.2	
	Verifiers & Guidance:
Applicable to SLIMF (2) only: (Note, Indicator above	Verifiers & Guidance: 1. Maps
Applicable to SLIMF (2) only: (Note, Indicator above do not apply except where it is required by law or FC administrative directive) Plantation design and management shall	1. Maps
Applicable to SLIMF (2) only: (Note, Indicator above do not apply except where it is required by law or FC administrative directive)	1. Maps
Applicable to SLIMF (2) only: (Note, Indicator above do not apply except where it is required by law or FC administrative directive) Plantation design and management shall enhance ecological values especially	1. Maps
Applicable to SLIMF (2) only: (Note, Indicator above do not apply except where it is required by law or FC administrative directive) Plantation design and management shall enhance ecological values especially conservation features Criterion 10.6 Measures shall be taken to biological activity. The tech construction and maintenar	maintain or improve soil structure, fertility and nniques and rate of harvesting, road and trail nce, and the choice of species shall not result in long verse impacts on water quality, quantity or substantial
Applicable to SLIMF (2) only: (Note, Indicator above do not apply except where it is required by law or FC administrative directive) Plantation design and management shall enhance ecological values especially conservation features Criterion 10.6 Measures shall be taken to biological activity. The tech construction and maintenar term soil degradation or administrative direction.	maintain or improve soil structure, fertility and nniques and rate of harvesting, road and trail nce, and the choice of species shall not result in long verse impacts on water quality, quantity or substantial
Applicable to SLIMF (2) only: (Note, Indicator above do not apply except where it is required by law or FC administrative directive) Plantation design and management shall enhance ecological values especially conservation features Criterion 10.6 Measures shall be taken to biological activity. The tech construction and maintenar term soil degradation or addeviation from stream course lindicator 10.6.1 Plantation establishment and management shall	maintain or improve soil structure, fertility and nniques and rate of harvesting, road and trail nce, and the choice of species shall not result in long verse impacts on water quality, quantity or substantial se drainage patterns
Applicable to SLIMF (2) only: (Note, Indicator above do not apply except where it is required by law or FC administrative directive) Plantation design and management shall enhance ecological values especially conservation features Criterion 10.6 Measures shall be taken to biological activity. The tech construction and maintenar term soil degradation or addeviation from stream course lindicator 10.6.1 Plantation establishment and management shall incorporate specific measure to maintain or	maintain or improve soil structure, fertility and nniques and rate of harvesting, road and trail nce, and the choice of species shall not result in long verse impacts on water quality, quantity or substantial se drainage patterns Verifiers & Guidance: 1. Management plan
Applicable to SLIMF (2) only: (Note, Indicator above do not apply except where it is required by law or FC administrative directive) Plantation design and management shall enhance ecological values especially conservation features Criterion 10.6 Measures shall be taken to biological activity. The tech construction and maintenar term soil degradation or addeviation from stream course lindicator 10.6.1 Plantation establishment and management shall incorporate specific measure to maintain or enhance the soil in terms of structure, fertility	maintain or improve soil structure, fertility and nniques and rate of harvesting, road and trail nce, and the choice of species shall not result in long verse impacts on water quality, quantity or substantial se drainage patterns Verifiers & Guidance: 1. Management plan 2. Species selection
Applicable to SLIMF (2) only: (Note, Indicator above do not apply except where it is required by law or FC administrative directive) Plantation design and management shall enhance ecological values especially conservation features Criterion 10.6 Measures shall be taken to biological activity. The tech construction and maintenar term soil degradation or addeviation from stream course lindicator 10.6.1 Plantation establishment and management shall incorporate specific measure to maintain or	maintain or improve soil structure, fertility and nniques and rate of harvesting, road and trail nce, and the choice of species shall not result in long verse impacts on water quality, quantity or substantial se drainage patterns Verifiers & Guidance: 1. Management plan

	Plantation MoPs A and C
Indicator 10.6.2	Verifiers & Guidance:
Plantation design and management activities shall not lead to soil degradation	1. Management plan
	2. Field visit
	Discussions with other stakeholders
	Plantation MoPs
Indicator 10.6.3	Verifiers & Guidance:
Plantation activities shall not degrade water	1. Management plan
quality, and impact negatively on local hydrology.	2. Other plans (maps, annual plan of work)
nyurology.	3. Field visits
	Discussions with other stakeholder (eg fringe communities)
	(5 5 7
Indicator 10.6.4	Verifiers & Guidance:
Where soil rehabilitation or improvement is	1. Discussions with managers
required, organic fertilisers, cover cropping or	2. Documentation on methods used.
other non-chemical means shall be adopted in	
profesence to increanic fortilizare wherever	Site visits of rehabilitation areas
and invasive plant introduc essential part of the manag	prevent and minimise outbreaks of pests, diseases, fire tions. Integrated pest management shall form an ement plan, with primary reliance on prevention and rather than chemical pesticides and fertilisers.
Criterion 10.7 Measures shall be taken to and invasive plant introducessential part of the management shall be taken to and invasive plant introduces and invasive plant introduces and invasive plant introduces and invasive plant introduces and invasive plant introduces.	prevent and minimise outbreaks of pests, diseases, fire ctions. Integrated pest management shall form an gement plan, with primary reliance on prevention and rather than chemical pesticides and fertilisers. ould make every effort to move away from chemical ncluding their use in nurseries. The use of chemicals is
Criterion 10.7 Measures shall be taken to and invasive plant introducessential part of the manage biological control methods Plantation management she pesticides and fertilisers, in also covered in Criteria 6.6	prevent and minimise outbreaks of pests, diseases, fire ctions. Integrated pest management shall form an gement plan, with primary reliance on prevention and rather than chemical pesticides and fertilisers. ould make every effort to move away from chemical ncluding their use in nurseries. The use of chemicals is
Criterion 10.7 Measures shall be taken to and invasive plant introducessential part of the manages biological control methods Plantation management shapesticides and fertilisers, in also covered in Criteria 6.6	prevent and minimise outbreaks of pests, diseases, fire tions. Integrated pest management shall form an gement plan, with primary reliance on prevention and rather than chemical pesticides and fertilisers. ould make every effort to move away from chemical including their use in nurseries. The use of chemicals is and 6.7. Verifiers & Guidance:
Criterion 10.7 Measures shall be taken to and invasive plant introducessential part of the manages biological control methods Plantation management shapesticides and fertilisers, in also covered in Criteria 6.6 Indicator 10.7.1 Plantation management shall take measures to prevent outbreaks of pest, disease, fire and	prevent and minimise outbreaks of pests, diseases, fire ctions. Integrated pest management shall form an gement plan, with primary reliance on prevention and rather than chemical pesticides and fertilisers. ould make every effort to move away from chemical including their use in nurseries. The use of chemicals is and 6.7. Verifiers & Guidance: 1. Management plan
Criterion 10.7 Measures shall be taken to and invasive plant introducessential part of the manage biological control methods Plantation management shapesticides and fertilisers, in also covered in Criteria 6.6 Indicator 10.7.1 Plantation management shall take measures to	prevent and minimise outbreaks of pests, diseases, fire ctions. Integrated pest management shall form an gement plan, with primary reliance on prevention and rather than chemical pesticides and fertilisers. Ould make every effort to move away from chemical including their use in nurseries. The use of chemicals is and 6.7. Verifiers & Guidance: 1. Management plan 2. Records on species selection
Criterion 10.7 Measures shall be taken to and invasive plant introducessential part of the manages biological control methods Plantation management shapesticides and fertilisers, in also covered in Criteria 6.6 Indicator 10.7.1 Plantation management shall take measures to prevent outbreaks of pest, disease, fire and	prevent and minimise outbreaks of pests, diseases, fire ctions. Integrated pest management shall form an gement plan, with primary reliance on prevention and rather than chemical pesticides and fertilisers. ould make every effort to move away from chemical including their use in nurseries. The use of chemicals is and 6.7. Verifiers & Guidance: 1. Management plan
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Criterion 10.8

Appropriate to the scale and diversity of the operation, monitoring of plantations, shall include regular assessment of potential on-site and off-site ecological and social impacts, (e.g. natural regeneration, effects on water resources and soil fertility, and impacts on local welfare and social well-being), in addition to those elements addressed in principles 8, 6 and 4. No species should be planted on a large scale until local trials and/or experience have shown that they are ecologically well-adapted to the site, are not invasive, and do not have significant negative ecological impacts on other ecosystems. Special attention will be paid to social issues of land acquisition for plantations, especially the protection of local rights of ownership, use or access.

Indicator 10.8.1

Monitoring shall include evaluation of potential on-site and off-site ecological and social impact of plantation activities

Verifiers & Guidance:

- 1. Monitoring schedules
- 2. Monitoring results
- 3. Evidence of use of monitoring results in plantation management

EPA 's Sector-Specific Environmental Impact Assessment Guidelines for Forest and Wood Industries

Indicator 10.8.2

Application to SLIMF (2) only (note indicator 10.8.1 does not apply except when required by law or FC administrative directive)

Plantation management shall document negative environmental and social impact and design and implement measures to address the impacts

Verifiers & Guidance:

- 1. Documented evidence of negative impacts
- 2. Field visits

Discussions with other stakeholders

Indicator 10.8.3

Land acquisition for plantation establishment shall not impact negatively on the communities and / or resource use by the local people

Verifiers & Guidance:

- 1. Land acquisition records
- 2. Field visits

Discussion with local communities and other stakeholders

Criterion 10.9

Plantations established in areas converted from natural forests after November 1994 normally shall not qualify for certification. Certification may be allowed in circumstances where sufficient evidence is submitted to the certification body that the manager/owner is not responsible directly or indirectly of such conversion.

Indicator 10.9.1

Plantation shall not be established on land converted from natural forest since November 1994, unless clear evidence exist that the current manager/owner was not responsible.

Verifiers & Guidance:

- 1. Evidence of previous land use
- 2. Date of plantation establishment
- 3. Field visits

Discussions with other stakeholders.

Indicator 10.9.2

Where conversions after November 1994 have occurred, steps shall be taken that convincingly compensate for such conversions based on interviews or other evidence gathered from other stakeholders and interested parties

Verifiers & Guidance:

- 1. Evidence of compensating activities
- 2. Field visit

Discussions with other stakeholders and interested parties

APPENDIX A

Α.	NATIONAL LEGISLATION
Α.	Legal Rights to Harvest:
	Land tenure and management rights
	Legislation covering land tenure rights, including customary rights as well as management rights that includes the use of legal methods to obtain tenure rights and management rights. It also covers legal business registration and tax registration, including relevant legal required licenses.
	 Concession licenses Legislation regulating procedures for the issuing of forest concession licenses, including use of legal methods to obtain concession license. Especially bribery, corruption and nepotism are well-known issues in connection with concession licenses.
	 Management and harvest planning Any legal requirements for management planning, including conducting forest inventories, having a forest management plan and related planning and monitoring, as well as approval of these by competent authorities.
	Harvesting permits Legislation regulating the issuing of harvesting permits, licenses or other legal document required for specific harvesting operations. It includes the use of legal methods to obtain the permit. Corruption is a well-known issue in connection with the issuing of harvesting permits.
1.	Timber Resource Management Act 1997
	Timber Resource Management Amendment Act, 2002 Act 617
2.	Timber Resources Management Regulation of 1998, LI 1649 and (Amendment) LI 1721 of 2003
3.	Forestry Commission Act 1999
4.	Trees and Timber Amendment Act 493 1997
5.	Provincial ordinances
6.	Manual of Procedures Sections A, B C, D, E, G Plantation Manual of Procedures A, B and
7.	National Forest Inventory of 1984-9 (provides baseline data about the FMU as well as the national status of the forest resource)
	Taxes and Fees
	Payment of royalties and harvesting fees Legislation covering payment of all legally required forest harvesting specific fees such as royalties, stumpage fees and other volume based fees. It also includes payments of the fees based on correct classification of quantities, qualities and species. Incorrect classification of forest products is a well-known issue often combined with bribery of officials in charge of controlling the classification.
	 Value added and sales taxes Legislation covering different types of sales taxes which apply to the material being sold, including selling material as growing forest (standing stock sales).
	• Income and profit taxes Legislation covering income and profit taxes related to the profit derived from sale of forest products and harvesting activities. This category is also related to income from the sale of timber and does not include other taxes generally applicable for companies or related to salary payments.
8.	Companies Code 1963 and/or Incorporated Private partnerships Act 1962
9.	Investment Act
	Timber Harvesting Activities
	• Timber harvesting regulations Any legal requirements for harvesting techniques and technology including selective cutting, shelter wood regenerations, clear felling, transport of timber from felling site and seasonal limitations etc. Typically this includes regulations on the size of felling areas, minimum age and/or diameter for felling activities and

elements that shall be preserved during felling etc. Establishment of skidding or hauling trails, road construction, drainage systems and bridges etc. shall also be considered as well as planning and monitoring of harvesting activities. Any legally binding codes for harvesting practices shall be considered.

Protected sites and species

Covers legislation related to protected areas as well as protected, rare or endangered species, including their habitats and potential habitats

Environmental requirements

Covers legislation related to environmental impact assessment in connection with harvesting, acceptable level for soil damage, establishment of buffer zones (e.g. along water courses, open areas, breeding sites), maintenance of retention trees on felling site, sessional limitation of harvesting time, and environmental requirements for forest machineries.

Health and safety

Legally required personal protection equipment for persons involved in harvesting activities, use of safe felling and transport practice, establishment of protection zones around harvesting sites, and safety requirements to machinery used. Legally required safety requirements in relation to chemical usage. The health and safety requirements that shall be considered relate to operations in the forest (not office work, or other activities less related to actual forest operations).

Legal employment

Legal requirements for employment of personnel involved in harvesting activities including requirement for contracts and working permits, requirements for obligatory insurances, requirements for competence certificates and other training requirements, and payment of social and income taxes withhold by employer. Furthermore, the points cover observance of minimum working age and minimum age for personal involved in hazardous work, legislation against forced and compulsory labour, and discrimination and freedom of association

- 10. Forest and Wildlife Policy 1994
- Wildlife Conservation Regulations 1971 LI 685 and its amendments of 1983 L.I 1284; 1988 L. I 1357; 1989 L. I 1452
- 12. Environmental Health Act
- 13. National Health and Safety Regulations
- 14. Labour Act 651 of 2003
- 15. Environmental Management Plan EPA 490/94
- 16. Environmental Protection Agency (EPA) Sector-Specific Environmental Impact Assessment Guidelines for Forest and Wood Industries.
- 17. National Wildfire Management Policy 2006.
- 18. The Ghana National Fire Service Act, 1997

Third Party Rights

Customary

rights

Legislation covering customary rights relevant to forest harvesting activities including requirements covering sharing of benefits and indigenous rights

Free prior and informed consent (FPIC)

Legislation covering "free prior and informed consent" in connection with transfer of forest management rights and customary rights to the organisation in charge of the harvesting operation

Rights of indigenous peoples

Legislation that regulates the rights of indigenous people as far as it's related to forestry activities. Possible aspects to consider are land tenure, right to use certain forest related resources or practice traditional activities, which may involve forest lands

19.

Trade and Transport

Classification of species, quantities, qualities

Legislation regulating how harvested material is classified in terms of species, volumes and qualities in connection with trade and transport. Incorrect classification of harvested material is a well-known method to reduce/avoid payment of legality prescribed taxes and fees

Trade and transport

All required trading permits shall exist as well as legally required transport document which accompany

	transport of wood from forest operation	
	• Offshore trading and transfer pricing Legislation regulating offshore trading. Offshore trading with related companies placed in tax havens combined with artificial transfer prices is a well-known way to avoid payment of legally prescribed taxes and fees to the country of harvest and considered as an important generator of funds that can be used for payment of bribery and black money to the forest operation and personal involved in the harvesting operation. Many countries have established legislation covering transfer pricing and offshore trading. It should be noted that only transfer pricing and offshore trading as far as it is legally prohibited in the country, can be included here.	
20.	Foreign Exchange Act 2006 (Act 723)	
21.	Free Zones Act, 1995 (Act 504)	
	Free Zones Amendment, Act 2002 (Act 618)	
22.	Competitive Bidding for Timber Utilisation Contract Procedures Manual	
	Custom regulations	
	Custom legislation covering areas such as export/import licenses, product classification (codes, quantities, qualities and species)	
23.		
	CITES CITES permits (the Convention on International Trade in Endangered Species of Wild Fauna and Flora, also known as the Washington Convention)	
24.		
	Other	
25.	Status Report on Collaborative Management Practices in the High Forest Zone' and Developments and Setbacks in Forest Conservation', by Kofi Smith	
26.	Forest Protection in Ghana by Hawthorne and Abu-Juam (details Genetic heat index and the star system in Ghana)	
27.	FSC list of prohibited pesticides (http://www.fsc.org))	
28.	An Interpretation of Global HCVF Toolkit for use in Ghana. Tim Rayden et al, 2006	
29.	Ecological Profile of Ghanaian Forest Tree. Hawthorne. OFI TFP 29	
В.	REGULATIONS PERTINENT TO FORESTRY RELATED TO AND EMERGING FROM NATIONAL LEGISLATION AND OTHER LEGISLATIVE INSTITUTIONS:	
30.	Environmental Protection Agency (EPA) Sector-Specific Environmental Impact Assessment Guidelines for Forest and Wood Industries.	
C.	INTERNATIONAL AGREEMENTS PERTINENT TO FORESTRY	
31.	Convention on Biological Diversity (CBD)	
32.	Convention on the International Trade in Endangered Species (CITES)	
33.	International Labour Organisation (ILO) ILO Conventions: http://www.ilo.org/public/english/region/eurpro/london/country/ Forced Labour Convention, 1930. Freedom of Association and Protection of the Right to Organise Conventions, 1948. 29 Forced Labour Convention, 1930. 87 Freedom of Association and Protection of the Right to Organise Conventions, 1948. 98 Right to Organise and Collective Bargaining Convention, 1949. 97 Migration for Employment (Revised) Convention, 1949. 100 Equal Remuneration Convention, 1951. 105 Abolition of Forced Labour Convention, 1957. 111 Discrimination (Occupation and Employment) Convention, 1958. 131 Minimum Wage Fixing Convention, 1970.	
	138 Minimum Age Convention, 1973. 182 Worst Forms of Child Labour Convention, 1999.	

	ILO Code of Practice on Safety and Health in Forestry Work (ILO 1998) Recommendation 135 Minimum Wage Fixing Recommendation, 1970.
	Note: Conventions number 29, 87, 98, 100, 105, 111, 138 and 182 are Core Standards covered by the 1998 ILO Declaration on Fundamental Principles and Rights at Work and its follow up
34.	FAO model of forest harvesting practice, FAO, 1996
35.	International Tropical Timber Agreement (ITTA)
36.	Ramsar Convention
37.	International Conventions on Climate Change and Desertification
D.	LOCAL STANDARDS AND BEST OPERATING PRACTICES
38.	National Forest Inventory of 1984-9 may provide baseline data about the FMU as well as the national status of the forest resource.
39.	The Multi-Resource Inventory (MRI) of 2002
40.	Ghana Logging Manual

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APPENDIX B

LIST OF RARE THREATENED AND ENDANGERED SPECIES LISTED FOR GHANA

List of, endangered timber species in Ghana (refer to as restricted timber species)

Local Name Trade Name Botanical Name

Edinam Gedu-Nohor Entandophragma anglolense

Penkwa Sapele E. Cylindricum

Efobrodedwo Utile E. Utile
Penkwa-akoa Candollei E. Candollei

Krumben Mahogany Kaya anthotheca/grandifolia

Dubine Mahogany K. Ivorensis

Odum Iroko Millicia excels/regia
Kusia Opepe Nauclea diderichii
Kokrodua Afromosia Pericopsis elata
Baku Makore Tieghemella heckeli

Hyedua Black Hyedua Guibotea ehii

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APPENDIX C

LIST OF ISSUES OF CONTENTION RAISED BY STAKEHOLDERS IN TERMS OF THIS STANDARD

Issue Nr	Issue

End of Standard