



FLEGT COMPLIANCE IN GHANA

Developing the capacity of Loggers without processing mills

TRAINING MANUAL

A reference manual on FLEGT Legality Principles

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**Developing the capacity of Loggers without processing
mills**

FAO - EU FLEGT PROGRAMME



Food and Agriculture
Organization of the
United Nations



Sweden
Sverige



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ACRONYMS

FC	Forestry Commission
FLEGT	Forest Law Enforcement Governance and Trade
FSD	Forest Services Division
GhLAS	Ghana Legality Assurance System
LAS	Legality Assurance System
MoP	Manual of Procedure
TREC	Timber Rights Evaluation Committee
TUC	Timber Utilisation Contract
TVD	Timber Validation Department
VPA	Voluntary Partnership Agreement
LMCC	Log Measurement and Conveyance Certificate
PLMCC	Plantation Log Measurement and Conveyance Certificate

1.0 INTRODUCTION OF TRAINING MANUAL

To ensure compliance to the FLEGT-VPA, Nature and Development Foundation under the FAO EU FLEGT Programme funded project titled “FLEGT Compliance: Developing the capacity of Loggers without Processing Mills” is developing this manual to aid loggers without sawmills to conform to the requirements. This manual is also aimed at helping loggers to improve on their management systems with regards to timber harvesting, transportation, sales, etc.

This manual is developed for all loggers, but special emphasis is on loggers without processing facilities. Because of the peculiarity of the targeted audience, the manual is tailored towards their needs and answers questions and issues relating to their role in the supply of legal timber to both the domestic and international markets.

1.1 Objectives of Training Manual

The main objective of this training manual is to build the capacity of Loggers/Concession holders without processing mills to comply with FLEGT compliance and address of compliance to Ghana’s Legality System.

Specifically, this training manual is to:

- Equip Loggers with the technical knowledge on the importance of abiding by rules and regulations as spelled out in the legality checklist.
- To contribute to improved forest governance and promote legal timber trade.
- To enlighten users on the importance of promoting sustainable forest management

1.2 Design of Training Manual

This manual has been designed solely for the purpose of training and equipping loggers with the requisite know-how on the harvesting and trading in legal wood in Ghana. This manual is not iterative, meaning it is not structured to be used in sequential manners. Where it deemed fit, the user can refer and apply. It is practical and results oriented.

The training manual is structured to deliver per the needs of the user. It starts with exercises to test the level of needs per each user. For the user of this manual to appreciate the main training points, the manual exposes the user to the basic tenets of the Ghana Legality Assurance System (GhLAS) which are the Legality Definition, the Chain of Custody System Legality Verification (i.e., Wood Tracking System), Verification of compliance and The Independent monitor. The idea is to give general knowledge as some companies without processing facilities can be owners in future and also appreciate the impact their activities have on other processes within timber supply chain.

The manual then focuses solely on the principles and criteria that have direct impact on loggers without processing facilities. These are principles 1, 2, 3, 4 and 7 with their corresponding criteria and highlights the importance of loggers in the timber supply chain as the initiators of the supply process and how their input feeds into the other stages of the supply chain. At each of the principles, definition is given and their corresponding criteria indicated. Guidance notes (these are information sources of which the checklists derive its legal backing) are stated. Important documents to be kept by loggers are also provided.

At each stage, exercises are attached to assess knowledge improvement of users of this manual and also stimulate interest.

Finally, conclusions are drawn to highlight the main points of the training. A post-training evaluation is conducted to assess the capacity that has been built with the training for FLEGT compliance.

1.3 Pre-Training Knowledge Level Analysis

SECTION A

DEMOGRAPHIC CHARACTERISTICS OF RESPONDENT

A. Forest District of Engagement

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B. Name of Company

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C. Job Position

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D. The number of years you have been in your present position

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E. Number of years of company operation

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SECTION B

GHANA LEGALITY ASSURANCE SYSTEM (GHLAS) & FLEGT LICENSES

1. What is Legal Timber according to Ghana's Legality Definition?

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2. What do you know about the VPA?

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Section B continues on next page

Section B continued

3. What are the importance of loggers in the supply chain of timber in Ghana?

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SECTION C

UNDERSTANDING THE GHANA WOOD TRACKING SYSTEM

1. What is the Ghana Wood Tracking System (GWTS)?

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2. The Ghana Wood Tracking System as part of the GhLAS. Please tick YES or NO in response to the following questions and positions.

No.	Question	Yes	No
1.	Only Processing facilities/ sawmills encounter the GWTS		
2.	The GWTS is only for sales and trade		
3.	The GWTS does real-time reconciliation		

SECTION D

VERIFICATION PROTOCOLS

Please tick YES or NO in response to the following questions and positions.

Principle 1: Source of Timber

(Timber originated from prescribed sources and concerned individual, group and owners gave their written consent to the land being subjected to the grant of timber rights).

No.	Question	Yes	No
1.	Must Logger pay for the cost of stock survey?		
2.	Is Stakeholder consultation (consent seeking) required by loggers before harvesting operations or before logging commences?		

Section D continued

Principle 2: Timber Rights Allocation

(The logger held a TUC issued by the Minister and ratified by Parliament following the specified competitive process or Logger held a Salvage Permit issued by the Forestry Commission or a Certificate of Purchase).

No.	Question	Yes	No
1.	A Logger must always hold a TUC, Salvage Permit or Certificate of Purchase?		
2.	Apart from the above, are there other sources of timber rights?		

Principle 3: Timber Harvesting Operations

(The logger complied with forest operation procedures and standards specified by statute).

No.	Question	Yes	No
1.	Have you had any training on timber harvesting operation?		
2.	Are Logs supposed to be hauled to delineated log dump sites only?		
3.	Do you understand the importance of labelling tree stumps?		
4.	Have you had accidents in your harvesting operations?		
5.	Does the logging company have a Health and Safety procedure?		
6.	Is it the responsibility of loggers to record log parameters appropriately?		
7.	Do you understand the relevance of SRAs?		

Principle 4: Transportation

(Timber was at all times transported in accordance with standards prescribed by statute).

No.	Question	Yes	No
1.	Without LMCC, PLMCC documentation can a logger transport logs?		
2.	Logs can be transported at any day and any time		

Principle 7: Fiscal Obligation

(Neither the logger nor the Vendor was at the time of sale or export in default of fees, rents or taxes, prescribed by statute).

No.	Question	Yes	No
1.	A Logger can decide not to pay ground rent		
2.	Stumpage is paid 20 days after issue of yield		
3.	SSNIT and Income tax is not mandatory to pay		

Section D continued

4. What are the requirements for the renewal of property mark?

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SECTION E

SUSTAINABLE FOREST MANAGEMENT

1. In your capacity as a logger/ concession holder, what do you expect to learn or achieve at the end of the training program?

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2. What role do you play as a logger in promoting sustainable forest management/ sustainable utilization of forest resources (Timber)?

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2.0 HISTORY OF THE VOLUNTARY PARTNERSHIP AGREEMENT

In 2003, the European Union (EU) published its EU Forest Law Enforcement, Governance and Trade (FLEGT) Action Plan. Central to this plan is the negotiation and implementation of Voluntary Partnership Agreements (VPAs). VPAs are bilateral agreements between the EU and countries exporting timber products into the EU. Under VPA, partners agree to establish a Legality Assurance System (LAS) which will ensure that timber and timber products destined for the EU markets are produced in accordance with the existing legislation of the exporting country.

The GhLAS has five (5) elements:

1. A legality standard. This defines the legal requirements that must be complied with by all organisations (government and non-government) operating in forestry and associated industries in Ghana.
2. A national Wood Tracking System (WTS) to monitor the movements of timber and timber products from the forest to the point of export or final point of sale in the domestic market.
3. Verification of operators' compliance with the legality standard and requirements as set out by the WTS.
4. Issuance of FLEGT licenses.
5. Independent monitoring of the LAS and its implementation.

The Government of Ghana and the EU signed the world's first VPA on 20 November 2009. In addition to ensuring that exports of timber products from Ghana to the EU have been legally produced, Ghana's VPA aims to:

- Contribute to governance reforms within the forestry sector;
- Strengthen sustainable forest management;
- Realize the full economic value of forests;
- Ensure that the forest sector within Ghana contributes to poverty alleviation.

2.1 Voluntary Partnership Agreement (VPA)

The Republic of Ghana ratified its Voluntary Partnership Agreement (VPA), (2010) in 2009 with the European Union (EU) under the Forest Law Enforcement, Governance and Trade (FLEGT) Action Plan in 2003 (Commission of the European Communities, 2003)¹.

The objective of the VPA, consistent with the parties' commitment to sustainable forest management, is to provide a legal framework aimed at ensuring that all imports into the Community from Ghana of timber products covered by this Agreement have been legally produced. The VPA is further consistent with Ghana's forestry sector policy on sustainable forest management as it contributes to forest law enforcement and Governance of Ghana's forest sector.

¹ The VPA has been published in the Official Journal of the European Union (19.3.2010) and is also available at www.fcghana.org; and www.ec.europa.eu/environment/forests/flegt.html

In order to determine whether timber and timber products sourced from Ghana is legally produced, the VPA contains a definition of “Legal Timber”² which contains legal principles and criteria that must be complied with in the production of timber and timber products to demonstrate legality. The definition of Legal Timber is based on Ghana’s legal and administrative requirements³.

2.2 Ghana Legality Assurance System (GhLAS) & FLEGT Licenses

An important part of Ghana’s VPA is the establishment of a licensing scheme to ensure that only timber products that have been produced in accordance with Ghana’s national legislation (*its definition of legal timber*) are imported into the EU. Under the licensing scheme, import into the EU of timber exported from a Partner Country will be prohibited unless the timber is covered by a valid FLEGT license.

The central part of the FLEGT licensing scheme in Ghana is the Ghana Legality Assurance System (GhLAS)⁴ which aims to provide a reliable means to distinguish between legal and illegally produced timber products. The GhLAS applies to all sources of commercial timber and products processed and acquired in Ghana destined for both European Union (EU) and non-EU markets, as well as all timber sold on the domestic market. FLEGT Licenses are however, only issued for exports to the EU.

The GhLAS has five elements that are interlinked and work interdependently:

- i. A legality standard defining the legal requirements that must be complied with;⁵
- ii. A national Wood Tracking System (WTS) to monitor the movements of timber and timber products from the forest to the point of export/sales on domestic market ;⁶
- iii. Verification of compliance with the legality standard & requirements of the WTS;⁷
- iv. Issuance of FLEGT licenses;⁸ &
- v. Independent audit of the LAS implementation⁹.

The implementation of the VPA in Ghana falls within the functional mandate of the Ghana Forestry Commission (FC), and in particular within the core activities of its Timber Validation Department (TVD). The diagram below provides a brief overview of the elements of the GhLAS in Ghana as well as the interaction between these elements (Timber Resource Management and Legality Licensing Regulations, 2017).

2 Hereinafter the “Legality Definition” or “Legality Standard”.

3 The Legality Definition of Ghana is contained in Annex II to the agreement.

4 Annex V of the Ghana VPA.

5 Article 7 & Annex II to the Ghana VPA.

6 Article 8 & Annex V to the Ghana VPA.

7 Article 8 & Annex V to the Ghana VPA.

8 Articles 3 to 8, Annex IV & V to the Ghana VPA.

9 Article 10, Annex V & VI to the Ghana VPA.

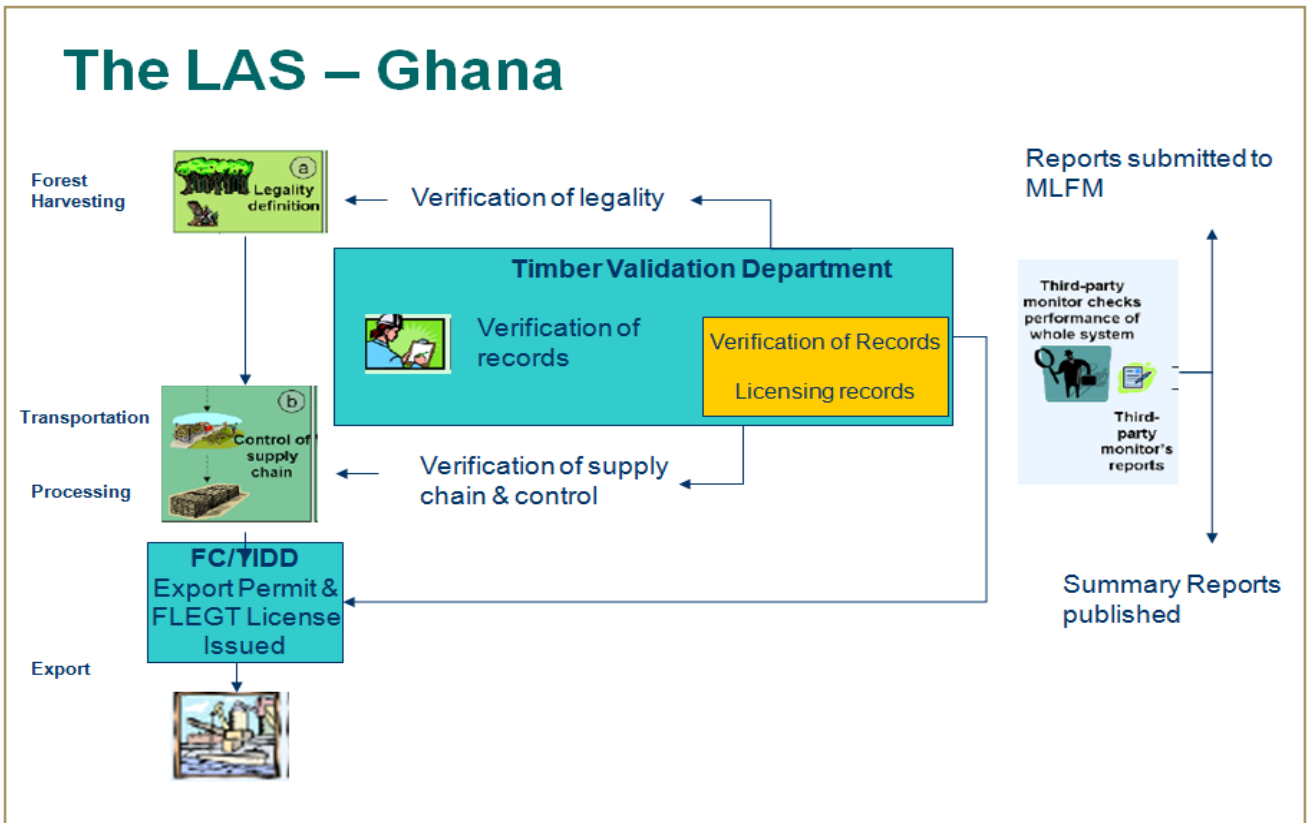


Figure 1: Schematic illustration of the interactions of the five elements of the GhLAS (Voluntary Partnership Agreement between the European Community and the Republic of Ghana, 2010 p. 33)

ACTIVITY 1

Q1. What is Legal Timber according to Ghana’s Legality Definition?

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Q2. Why is legal timber important to the sustainability of the timber trade?

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Q3. What is the cost of not promoting the exploitation and trading in legal timber to your business and Ghana’s forestry?

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2.3 Understanding the Ghana Wood Tracking System (GWTS)

The Ghana Wood Tracking System as part of the GhLAS was instituted to track timber from source through to export or sale. The system tracks timber source, harvesting, transportation, processing and trade. Transactional data collected along these critical control points are reconciled to ensure data collected are synchronised. Where there are deviations, red flags are shown.

Even though it is aimed at collecting transactional data, it also handles logger registration and property mark renewal. As a computer system, data collected from various workstations are all assembled in one database. This means it does not matter the number of places and locations you are working. The system does real-time reconciliation and provides reports as and when needed.

As a logger, one of the systems you will encounter much is the GWTS. It will handle your enumeration and yield allocation process, your harvesting process and data, your transport process and data and lastly post your harvesting for invoicing. It is used in your daily work as logger.

ACTIVITY 2

Q1. What is the Ghana Wood Tracking System?

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Q2. As a logger at what stage or stages do you encounter the use of the GWTS in your work?

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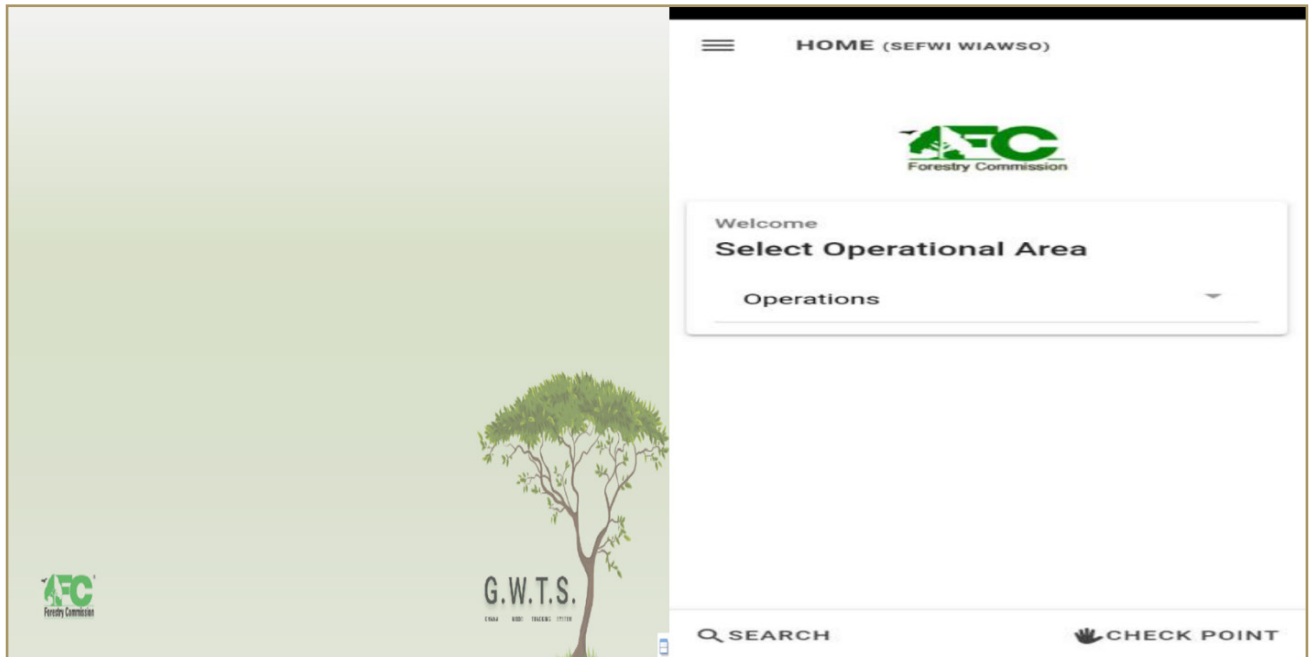


Figure 2: The desktop and mobile version of the GWTS

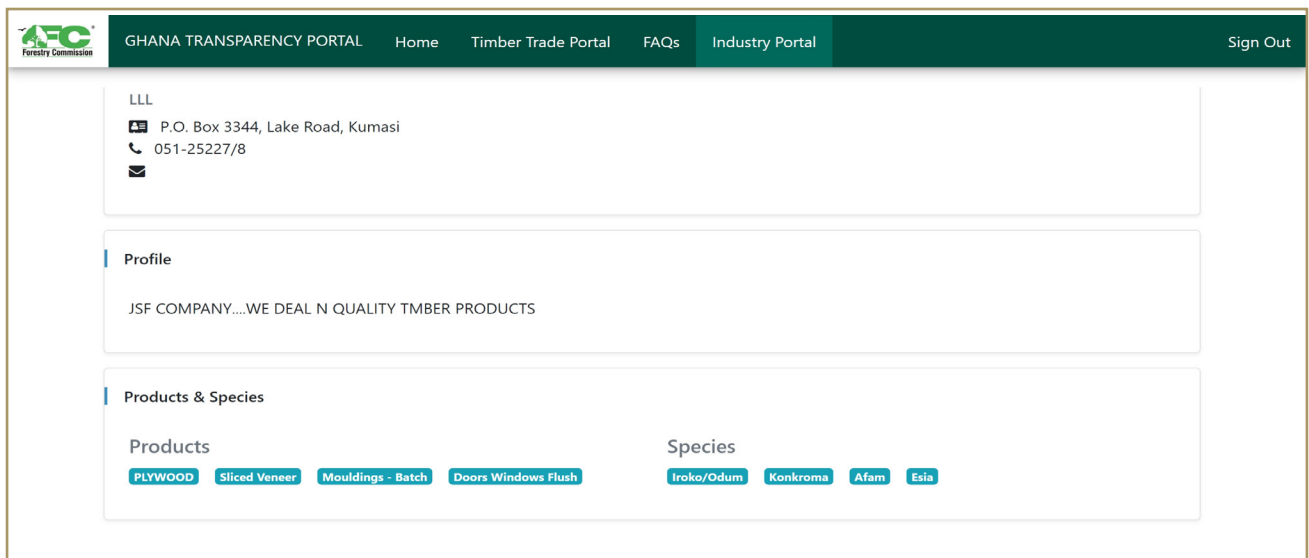


Figure 3: Industry version of the GWTS

3.0 THE VERIFICATION PRINCIPLES

The significance of loggers without sawmills cannot be discounted within the legality framework and the supply chain of timber in Ghana. Within the timber supply chain, all loggers (including those with mills) are the initiators of the supply chain. They supply the needed raw materials for processing facilities. Their work starts from timber rights allocation through to transportation. All the activities within this band are critical before raw materials can be delivered to a processing site for compliance to FLEGT and GhLAS.

3.1 Internal GhLAS Audit

The TVD uses the verification manual and accompanying verification protocol (Forestry Commission (FC), 2014) and it is based on Table 2 of Annex V of the VPA. The GhLAS verification employs principles and criteria to ensure audits are conducted in objective and legal manner. A Principle is “fundamental truth or law as the basis of reasoning or action” (CSCE Seminar and the “Montreal Process” as ref. in Namkoong et al., 2002). Criterion is a “standard that a thing is judged by” (Helsinki Process as ref. in Namkoong et al., 2002).

Ghana’s audit principles were formulated around core laws, policies, manuals, procedures and other international conventions related to forest management. It is explicitly tailored towards timber exploitation in Ghana from allocation to the point of sale. The audit principles and criteria are designed based on the legality definition timber in Ghana. Ghana’s audit criteria are formulated based on the country’s audit principles. It is designed to help the internal technical auditor to monitor compliance in the implementation forestry best practices. The audit principles are also formulated to improve on the management system with regards to timber harvesting, transport, processing and trade.

The audit principles are seven (7) with twenty-three (23) key criteria. Table 1 below shows the principles and corresponding criteria.

Table 1: Principles and Criteria of the Ghana Legality Standard.¹⁰

GHANA LEGALITY STANDARD		
Principle 1: Source of Timber Timber originated from prescribed sources and concerned individual, group and owners gave their written consent to the land being subjected to the grant of timber rights.		Affected Entity
Criterion 1.1	i. For Timber Utilisation Contracts (TUC) in on-reserves, forest management plan preparation covers strategic plan; ii. Delineation of TUCs; iii. Conduction of an inventory before harvesting (on-reserve, off reserve and plantation); iv. Written consent of concerned individual, group or owners.	Logger
Criterion 1.2	Land owner, individual or group written consent.	Logger

¹⁰ As adapted from Annex II of the VPA. Only the Principles and Criterion of the Legality Standard has been reproduced in this document.

Principle 2: Timber Rights Allocation The logger held a TUC issued by the Minister and ratified by Parliament following the specified competitive process or Logger held a Salvage Permit issued by the Forestry Commission.		Affected Entity
Criterion 2.1	Natural Forest and Plantation TUCs; Qualification of loggers for grant of TUC by TREC.	Logger
Criterion 2.2	Salvage permit ¹¹ Issuance of Salvage Permit.	Logger
Criterion 2.3	Confiscated Timber Permit for duly auctioned confiscated timber issued.	Logger
Principle 3: Timber Harvesting Operations The logger complied with forest operation procedures and standards specified by statute.		Affected Entity
Criterion 3.1	Stock surveys (including pre-felling inspections for off-reserve areas) were conducted in accordance with the logging manual. Harvesting plan.	Logger
Criterion 3.2	Logging was carried out in accordance with harvesting requirement in areas designated for timber production.	Logger
Criterion 3.3	Logs were accurately measured and recorded.	Logger
Criterion 3.4	Timber harvested corresponded to the species and volumes or numbers authorised in the TUC or Salvage permit.	Logger
Criterion 3.5	Stumps and logs were marked and numbered in accordance with the logging manual.	Logger
Criterion 3.6	The logger executed and complied with the relevant Social Responsibility Agreement.	Logger
Criterion 3.7	Compensation was paid to affected farmers in respect of crop damage if any	Logger

¹¹ The Forestry Commission issues a permit subject to such terms and conditions as shall be specified therein for the salvage of trees from an area of land undergoing development such as road construction, expansion of human settlement or cultivation of farms.

Principle 4: Transportation Timber was at all times transported in accordance with standards prescribed by statute.		Affected Entity
Criterion 4.1	Timber was transported with official documentation detailing its origin and corresponding with physical identification of the timber.	Logger
Criterion 4.2	Timber was transported within the time periods permitted by law.	Logger
Principle 5: Processing		Affected Entity
Criterion 5.1	Timber processing facilities have valid licences and registration with FC and complied with all legal requirements.	Processor
Criterion 5.2	Industrial relation practices conform to legal standards.	Processor, Logger and Exporter
Principle 6: Trade All vendors/exporters have valid license or permits to market timber.		Affected Entity
Criterion 6.1	Exporters have acquired FC permit.	Exporter
Criterion 6.2	Domestic Vendors have FC registration.	Domestic Vendor
Principle 7: Fiscal Obligations Neither the logger nor the Vendor was at the time of sale or export in default of fees, rents or taxes, prescribed by statute.		Affected Entity
Criterion 7.1	Logger was not in default of stumpage fees or any other fees payable by loggers in Ghana.	Logger
Criterion 7.2	Logger was not in default of ground rents.	Logger
Criterion 7.3	Exporter was not in default of export levies.	Exporter
Criterion 7.4	Neither Logger nor exporter was in default of corporate income tax.	Logger and Exporter

Amongst these principles and criteria, five (5) principles with corresponding seventeen (17) criteria are applicable to this training. For this reason, it is right to assume that many of the corrective requests will be generated at this stage. This stage has legality effect on the other principles that are not applicable to loggers.

ACTIVITY 3

Q1. What are the importance of loggers in the supply chain of timber in Ghana?

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Q2. What are the principles of legal timber?

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4.0 THE VERIFICATION PROCESS FOR LOGGERS WITHOUT PROCESSING FACILITIES

The verification process is the standards, protocols and conducts to ensure legal compliance. It also shows the obligations placed on TVD auditors to ensure its effectiveness. The section introduces loggers to the verification process of the GhLAS. It will show how the verification process is managed to ensure compliance among loggers.

4.1 Managing the verification process

The TVD in a systematic manner, conducts and manages legal timber audits. In order to perform audits a standard for defining legal timber (see Table 1- Principles and Criteria of the Ghana Legality Standard) has been established to measure compliance.

In order to measure compliance with the standard and in determining legal compliance of shipments, TVD manages the audit process through audit cycles that ensure systematic evaluation at specified intervals. Verification of the GhLAS also relies on the TVD applying either conventional audit techniques or utilizing the GWTS to assess and ascertain compliance.

Best auditing practices that ensure verification of legal timber shall be applied by TVD. These audit practices are outlined in various protocols¹², supporting documents¹³, policy¹⁴, guidelines¹⁵ and work instructions¹⁶ and contracts annexed to this framework. They aim to ensure that the verification system remains not only credible but also practical and implementable.

4.2 Ensuring compliance from Loggers: Explaining Principles 1, 2, 3, 4 and 7

This section introduces the various principles and criteria that relates to loggers without mills. In this case five (5) principles (1, 2, 3, 4 and 7) with their corresponding criteria. The five (5) principles have several criteria and not all relate to loggers. For that matter, only the related criteria are shown in this section of the manual. At each of the subsections, the main definition is provided and the various related criteria are bulleted.

Guidance notes (i.e. Policies, Laws, Manuals and Procedures) are provided at end of each subsection. Relevant documents that should be kept by loggers are also provided.

Note: Although all Principles apply to each and every source of timber not every criterion will necessarily apply to each source. This is mainly as a result of the construction of the Legality Standard

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- 12 Examples of protocols are- PROT 01: TVD Audit protocol; PROT 02: Sanctioning and CARs; PROT 03: Issuance of FLEGT Licences; PROT 04: Complaints and Appeals; PROT 05: Independent audit and management review; PROT 06: Document control, records and communication; PROT 07: Training and qualifications
- 13 Examples of supporting documents are- SD 01A: Administration audit checklist; SD 01B: Forest audit checklist; SD 01C: Transport audit checklist; SD 01D: Processing, Trade and Export audit checklist; SD 01E: WTS audit checklist; SD 02: Audit itinerary; SD 03: Audit opening meeting checklist; SD 04: Audit closing meeting checklist; SD 05: Audit attendance record; SD 06: CAR Log; SD 09 Auditee feedback form; SD 13 FLEGT Licence application form; SD 22 Application for replacement licence, etc.
- 14 PD 01 Conflict of interest policy
- 15 GD 01 Guidelines for specialists
- 16 WI 01 Auditing timelines; WI 02: Sampling and itineraries



Figure 4: TVD Audit officers conducting opening meeting during audit

4.2.1 Principle 1: Source of Timber

Timber originates from prescribed sources and concerned individual, group and owners gave their written consent to the land and/or timber products being subjected to the grant of timber rights. There are two (2) criteria in this principle.

Principle 1: Source of Timber

Timber originated from prescribed sources and concerned individual, group and owners gave their written consent to the land being subjected to the grant of timber rights.

Criterion 1.1	<ul style="list-style-type: none"> i. For Timber Utilisation Contracts (TUC) in on-reserves, forest management plan preparation covers strategic plan; ii. Delineation of TUCs; iii. Conduction of an inventory before harvesting (on-reserve, off reserve and plantation); iv. Written consent of concerned individual, group or owners.
Criterion 1.2	Land owner, individual or group written consent.

GUIDANCE NOTES

- LI. 2254
 - » PART1: Identification of lands suitable for the grant of timber rights;
 - » PART2: Procedure in Relation to Lands other than Public Land and Existing Forest Reserves, for grant of timber rights;
- MOP Section F - Controlled timber production off-reserve
 - » 2.1 (ii) Identification of TUC areas
 - » 3.7 (C) (off-reserve delineation)
 - » F3.2 Consultation process (written consent).

DOCUMENTS TO KEEP AND SHOW WHEN REQUESTED BY ANY FORESTRY OFFICIAL

- Copy of Timber rights (TUC, Salvage, Imported, and Confiscated/Abandoned)
- Copy TUC area Map
- Management plans if applicable
- Inventory Data (Stock Survey/Yield Marking, Pre-felling and Plantation Assessment)
- Written Consent of Land owners, concerned group or individuals

ACTIVITY 4

Q1. What is the prescribed source of obtaining a timber right in Ghana?

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Q2. What are the challenges of obtaining prescribed source of timber?

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Q3. As a logger, what are the advantages of producing timber from prescribed source?

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4.2.2 Principle 2: Timber Rights Allocation

The timber rights holder possesses a TUC issued by the minister and ratified by Parliament following the specified competitive process or timber rights holder possesses a salvage permit or certificate of purchase (in the case of confiscated / abandoned timber product) or other permit issued by the Forestry Commission. There are three (3) Criteria in this Principle.

Principle 2: Timber Rights Allocation	
Criterion 2.1	Natural Forest and Plantation TUCs; Qualification of loggers for grant of TUC by Timber Right Evaluation Committee (TREC).
Criterion 2.2	Salvage permit ¹⁷ Issuance of Salvage Permit: The Forestry Commission issues a permit subjected to such terms and conditions as shall be specified therein for the salvage of trees from an area of land undergoing development such as road construction, expansion of human settlement or cultivation of farms.
Criterion 2.3	Confiscated Timber Permit for duly auctioned confiscated timber issued.

GUIDANCE NOTES

- LI 2254: Terms and conditions of TUC (PART 5)
- Act 547: Ratification by parliament (Section 9)

DOCUMENTS TO KEEP AND SHOW WHEN REQUESTED BY ANY FORESTRY OFFICIAL

- Copy of Salvage permit
- Certificate of Purchase, Court order

¹⁷ The Forestry Commission issues a permit subject to such terms and conditions as shall be specified therein for the salvage of trees from an area of land undergoing development such as road construction, expansion of human settlement or cultivation of farms.

ACTIVITY 5

Q1. What are the requirements before a timber right will be allocated to a logger?

a) TUC

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b) Salvage Permit

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Q2. How long does it take for timber right allocation to expire?

a) TUC

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b) Salvage Permit

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Q3. Is the time allocated for the timber right sufficient?

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4.2.3 Principle 3: Timber Harvesting Operations

The Timber Rights Holder shall comply with forest operation procedures and standards specified by statute. There are seven (7) criteria in this principle.

Principle 3: Timber Harvesting Operations	
Criterion 3.1	Stock surveys (including pre-felling inspections for off-reserve areas) were conducted in accordance with the logging manual. Harvesting plan.
Criterion 3.2	Logging was carried out in accordance with harvesting requirement in areas designated for timber production.
Criterion 3.3	Logs were accurately measured and recorded.
Criterion 3.4	Timber harvested corresponded to the species and volumes or numbers authorised in the TUC or Salvage permit.
Criterion 3.5	Stumps and logs were marked and numbered in accordance with the logging manual.
Criterion 3.6	The logger executed and complied with the relevant Social Responsibility Agreement.
Criterion 3.7	Compensation was paid to affected farmers in respect of crop damage if any



Figure 5: FC staff conducting enumeration as part of the legality requirements

GUIDANCE NOTES

- MoP Section F- Controlled Timber Production Off-reserve
- Logging Manual (Section 10 of Act 547).
- Logging Manual Section 4.2 (Penalties)
- MoP Plantation Section C - Field Operation
- Regulation on procedure for salvage timber (Act 547 section 18g); salvage of timber products LI2254 Regulation 28, 29, 30
- Procedure relating to timber operations (i.e. Harvesting plan)- LI 2254 PART 10;
- MoP Section E- Preparation of timber harvesting schedules for forest reserve;
- Operational Guidelines and procedures
- ILO Code of Practice of Safety and Health in Forestry Work; Table1 (Page 37).
- LI 2254 regulation 59, 61 -Measurement of timber; Marking Logging Manual appendix 5: Logging Control Forms (TIF & PPC)

DOCUMENTS TO KEEP AND SHOW WHEN REQUESTED BY ANY FORESTRY OFFICIAL

- Copies of TIFs and PPCs
- Copies of Harvesting Plan
- Copies of Logging Plan
- Harvesting Records

ACTIVITY 6

Q1. What are some of the damages as a result of wrong timber harvesting operations?

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Q2. As a logger, what are some of the challenges in timber harvesting operation?

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Q3. Why is it important to institute the adherence of occupational health and safety in our working environment?

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Figure 6: FC staff measuring logs as part of the legality requirements



Figure 7: Company workers dressed in minimum PPEs as part of requirement for health and safety

4.2.4 Principle 4: Transportation

Timber shall at all times be transported in accordance with standards prescribed by statute. There are two (2) criteria in this principle.

Principle 4: Transportation	
Criterion 4.1	Timber was transported with official documentation detailing its origin and corresponding with physical identification of the timber.
Criterion 4.2	Timber was transported within the time periods permitted by law.

GUIDANCE NOTES

- Procedure relating to timber operations (Approved periods of timber operations and transport of forest produce): LI2254 regulation 18.

DOCUMENTS TO KEEP AND SHOW WHEN REQUESTED BY ANY FORESTRY OFFICIAL

- Valid Form C
- Log Measurement Conveyance Certificate (LMCC)
- Weekend and Holiday Permit from the Chief Executive or his assignee if applicable

DOCUMENTS TO KEEP AND SHOW WHEN REQUESTED BY ANY FORESTRY OFFICIAL

- Transport documents
 - » LMCC
 - » PLMCC

ACTIVITY 7

Q1. What document do you need before transporting timber from one place to another?

.....
.....

Q2. As a logger, what are the challenges when transporting timber?

.....
.....

Q3. Do you organise training for your drivers who transport your timber? If yes, how often and by who?

.....
.....



Figure 8: FC Officials taking measurement for the issuance of LMCC

4.2.5 Principle 7: Fiscal Obligations

This principle states that: Neither the timber rights holder nor vendor, shall at the time of sale or export, be in default of fees, rents or taxes as prescribed by statute. There are four (4) criteria but only three (3) are applicable in this principle.

Principle 7: Fiscal Obligations	
Neither the logger nor the Vendor was at the time of sale or export in default of fees, rents or taxes, prescribed by statute.	
Criterion 7.1	Logger was not in default of stumpage fees or any other fees payable by loggers in Ghana.
Criterion 7.2	Logger was not in default of ground rents.
Criterion 7.4	Neither Logger nor exporter was in default of corporate income tax.

GUIDANCE NOTES

- LI 2254
- Imposition of Income Tax (Income from Business): Act 592 Section 7

DOCUMENTS TO KEEP AND SHOW WHEN REQUESTED BY ANY FORESTRY OFFICIAL

- Copies of invoices and receipts issued by the FSD
- Copies of Valid Income Tax returns

ACTIVITY 8

Q1. What are the documents needed in the renewal of property mark?

.....

.....

Q2. What is the importance of negotiating social responsibility agreement before commencement of operation?

.....

.....

5.0 FLEGT COMPLIANCE IN GHANA FOR LOGGERS WITHOUT PROCESSING MILLS: DOS & DON'TS

PRINCIPLE 1

SOURCE OF TIMBER

Timber originated from prescribed sources and concerned individual, group and owners gave their written consent to the land being subjected to the grant of timber rights.

DOs	DON'Ts
1. Demand and keep copies of strategic management plan of the forest reserve where your TUC is located	1. Don't default to pay for cost of stock survey where a fee is required.
2. Clearly mark the boundaries of your TUC area by fixing boundary pillars with prescribed survey descriptions.	2. Don't commence harvest operations in off-reserve areas with farmlands without permission from farm/land owners.
3. Keep copies of approved yield. Keep your off-reserve TUC/salvage area clearly delineated and mapped out all times.	3. Don't trespass from your permit areas
4. Keep boundaries of active compartments always open at all times.	
5. Maintain marked area of plantation permit areas at all times	

PRINCIPLE 2**TIMBER RIGHTS ALLOCATION**

The logger held a TUC issued by the Minister and ratified by Parliament following the specified competitive process or Logger held a Salvage Permit issued by the Forestry Commission.

DOs	DON'Ts
1. Apply for the conversion of your extant and expired leases and permits to TUC	1. Don't default to pay for inspection fees after Salvage permit application
2. Apply for TUC areas as advertised by FC by submitting completed application forms and relevant attachments	2. Don't use middlemen in acquiring timber rights
3. Apply for salvage, abandoned and confiscated timber permits by submitting application forms/letters with relevant attachments	3. Do not evacuate abandoned timber until you have the authorization to do so
4. Accompany FC staff during the initial survey of an area for the suitability of the grant of timber rights	4. Do not flout conditions that have been stated in your permit
5. Appraise yourself with relevant terms and conditions enumerated in your permits	5. Do not fell, haul and transport logs when your timber rights expires.
6. Keep copies of your timber rights at all times	
7. Apply for renewal where applicable after expiry of your timber rights	
8. Identify areas you want to extract timber from submerged forest and apply for the necessary permit from related statutory bodies	
9. Ensure all information relating to your timber rights is uploaded unto the GWTS before commencement of field operation	

PRINCIPLE 3**TIMBER HARVESTING OPERATIONS**

The logger complied with forest operation procedures and standards specified by statute.

DOs	DON'Ts
1. Prepare logging plans for reserve areas and harvesting plans for off-reserve areas to be approved before commencement of harvesting operations	1. Don't haul logs before TIF is captured
2. Keep copies of stock and yield maps	2. Don't log in environmentally sensitive and prohibited areas such as rivers and streams.
3. Ensure enumeration has been conducted in timber rights areas before harvesting commences	3. Don't log in areas that you have not been permitted to do so
4. Get approval and endorsement of your yield from Regional Manager and RMSC Director respectively before harvesting operation commences	4. Don't construct roads that will cause huge disturbances to the forest, farms, rivers and streams.
5. Get approval from the Minister or his/her assignee before you fell any restricted species.	5. Don't harvest trees with numbers that don't match with yield list numbers
6. Provide workers with prescribed PPEs and ensure that workers are wearing PPEs at all times	6. Don't start logging operations without a written, correctly documented and signed SRA, including an agreed timeframe for payment.
7. Put in measures to prevent accidents and forest fires.	7. Don't log if the weather is not conducive to do so
8. Obtain written consent from landowners before logging	8. Don't fell undersize trees even if they are in your yield
9. Pay appropriate compensation in respect of crops damaged.	9. Don't swap stock survey numbers and species during logging operation
10. Maintain records of compensation transaction.	10. Don't alter or deface stock numbers on a tree or stump
11. Ensure LIF is issued and copy is given to FC	11. Do not haul logs through water bodies

Principle 3 continued

DOs	DON'Ts
12. Be environmentally cautious during the construction of roads	12. Do not spill oil in the forest
13. Maintain all constructed roads throughout the harvesting rights lifespan.	13. Don't leave chemicals and empty chemical bottles on the forest floor especially close to river bodies
14. Label all felled tree stumps and logs in your yard at all times	
15. Keep environmental hygiene at all times	
16. Repair areas where there has been damage as a result of your activity	
17. Request for compartment closure when operation is complete	

PRINCIPLE 4

TRANSPORTATION

Timber was at all times transported in accordance with standards prescribed by statute

DOs	DON'Ts
1. Secure a valid transport documents (LMCC and PLMCC) for every log and load of timber to be transported, where such a load is legal.	1. Do not make changes on issued transport documents.
2. Always request for a valid Form C before applying for transport documents.	2. Do not transport logs with expired transport document.
3. Transport timber between 6:00 am and 6:00 pm on working days (Monday to Friday).	3. Don't repeat log numbers on your application for transport documents.
4. Apply and receive weekend and holiday permit before working on weekends and statutory holidays.	4. Don't under-declare/over-declare measurement of logs during transportation.

Principle 4 continues on next page

Principle 4 continued

DOs	DON'Ts
5. Pay required fees for weekend and holiday permits and keep copies of receipts at all times.	5. Don't transport logs where you do not know the destination you are sending them to.
6. Keep records of transported logs at all times	
7. Sign for all transport documents issued to you	

PRINCIPLE 7**FISCAL OBLIGATIONS**

Neither the logger nor the Vendor was at the time of sale or export in default of fees, rents or taxes, prescribed by statute

DOs	DON'Ts
1. Pay all issued statutory fees and taxes on time <ul style="list-style-type: none"> a. Stumpage b. Timber Rights Fees (TRF) c. Annual ground rent d. Corporate income tax e. Inspection fee f. Weekend & Holiday permit Fee 	1. Don't operate when you have defaulted in honoring your statutory requirement.
	2. Don't destroy or misplace certificates, invoices and receipts for payment of statutory fees.
	3. Don't forget to request for receipts of payments to statutory bodies.

6.0 CONCLUSION

Legality principles and criteria are the bedrock for verifying legal wood in Ghana. Ghana's legality framework identifies seven (7) principles and 23 criteria. Five (5) of these principles, i.e. Principles 1, 2, 3, 4 and 7 are effective on loggers without processing mills. Not adhering to the requirements of these principles may render logs supplied by a logger illegal.

By the use of this manual, loggers without processing mills are equipped with expertise in their day-to-day activities, as timber suppliers, to comply with FLEGT and Ghana's Legality Grid.

This manual shows the significance of loggers in the timber supply chain. It also shows the various stages loggers encounter with the legality verification process, a general overview of the GWTS and how it affects loggers in the process of supplying legal timber to processing sites. The manual shows the various critical controls at which the GWTS is applied and enforced.

7.0 REFERENCES

1. Commission of the European Communities. (2003, May 21). Forest Law Enforcement, Governance and Trade (FLEGT) Action Plan. Communication from the Commission to the Council and the European Parliament. <https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:52003DC0251&from=EN>
2. Forestry Commission (FC). (2014). Verification Framework. Forestry Commission.
3. Namkoong, G., Boyle, T., El-Kassaby, Y. A., Palmberg-Lerche, C., Eriksson, G., Gregorius, H.-R., Joly, H., Kremer, A., Savolainen, O., Wickneswari, R., Young, A., Zeh-Nlo, M., & Prabhu, R. (2002). Criteria and Indicators for Sustainable Forest Management: Assessment and Monitoring of Genetic Variation (FGR/37E). <http://www.fao.org/3/AC649E/ac649e00.html>
4. Timber Resource Management and Legality Licensing Regulations, Pub. L. No. L.I. 2254 (2017). <https://www.documents.clientearth.org/wp-content/uploads/library/2017-11-03-timber-resource-management-and-legality-licensing-regulations-2017-l.i-ext-en.pdf>
5. Voluntary Partnership Agreement between the European Community and the Republic of Ghana. (2010). Official Journal of the European Union, L70/10, 3–75.

8.0 FURTHER READING

1. The Logging Manual for Ghana
2. Timber Resource Management and Legality Licencing Regulations, 2017
3. Manual of Procedures A, B, C, D, F
4. The Verification Protocol of TVD

9.0 APPENDIX

APPENDIX 1

POST - TRAINING KNOWLEDGE ASSESSMENT

FLEGT Compliance: Developing the capacity of loggers without processing mills on Harvest Operations and Transportation

■ Case Study 1

Yaw Kumi Company Limited was applying for a permit to harvest trees in the Kwenkwen Community. The said unincumbered land belongs to the Abena Kwabena family and land contains several scattered cocoa and food crops. In the process of the application, the applicant requested the FSD to grant him the permit but was denied.

In your experience what could have accounted for the rejection?

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.....

■ Case Study 2

Kweku Manu Company Limited was applying for a permit to harvest trees in the Asempanaye Community. The said unincumbered land belongs to the Yaa Agyeiwaa family and land contains several scattered cocoa and food crops. The applicant received the permit from the Forestry Commission. At the start of the operation, the community, the landowners and farmers on the land were not happy so they moved to stop the logging operation.

What could the company have done to prevent this opposition?

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Case Study 3

Kofi Babone Company Limited was applying for a permit to harvest trees in the Beposo Community. The said unincumbered land belongs to the Ama Rose family and land contains several scattered cocoa and food crops. The company after felling trees decided to haul the logs to a log dump of the company. When checks were conducted, the company was arguing that the Forestry Commission staff has taken measurement of the logs but the official is also saying he has not done so.

What could be accounting to this issue?

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Case Study 4

Opong Kyekyeku Company Limited is transporting some logs on 25th of December. The trucks carrying the logs were impounded and later confiscated. His argument was that he is having valid Form C so he doesn't understand why the arrest.

Discuss and bring out what could have accounted for these happenings.

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Q1. What is your overall assessment of the workshop? **(Circle)**

Poor	Good	Very Good	Excellent
------	------	-----------	-----------

Appendix 1 continued

Q2. Please rate usefulness of the different sessions to your organisation:

1. Not useful 2. Useful 3. Very Useful

Question	Rating (circle)		
GhLAS, VPA and FLEGT	1	2	3
Ghana Wood Tracking System (GWTS)	1	2	3
Verification Protocols	1	2	3

Q3. How do you plan to use the learning from this training in the next 6 months (if at all)?

.....

.....

.....

.....

Q4. Please rate these:

1. Poor 2. Good 3. Very Good 4. Excellent

Item	Rating (circle)			
Participation selection	1	2	3	4
Participants contribution	1	2	3	4
Facilitation	1	2	3	4
Venue	1	2	3	4
Food	1	2	3	4

Q5. Comments and suggestions (including activities or initiatives you think would be useful, for the future)

.....

.....

.....

.....

.....

10 ANNEXES

10.1 Copies of some the required documents to be kept by the logger

NOG ~~FAST~~ 90462016 B

TIMBER RESOURCES MANAGEMENT ACT, 1997 (ACT 547)

TIMBER RESOURCES MANAGEMENT REGULATIONS, 1998
(L.I. 1649)

TIMBER RESOURCES MANAGEMENT (AMENDMENT) ACT, 2002
(ACT 617)

TIMBER RESOURCES MANAGEMENT (AMENDMENT) REGULATIONS, 2003
(L.I. 1721)

TIMBER UTILISATION CONTRACT FOR ON-RESERVE

THIS Timber Utilization Contract is made this ^{24th}..... day of December, 2015. BETWEEN the **GOVERNMENT OF GHANA** acting by the Minister for LANDS AND NATURAL RESOURCES herein referred to as the "Minister" which expression shall where the context so admits or requires, include his **MARIPOMA ENTERPRISE LIMITED** (name of partnership or company) of P.O.BOX AH 1283, ACHIMOTA-ACCRA herein referred to as "the Holder" which expression shall where the context so admits or requires includes its assigns on the other.

WHEREAS:

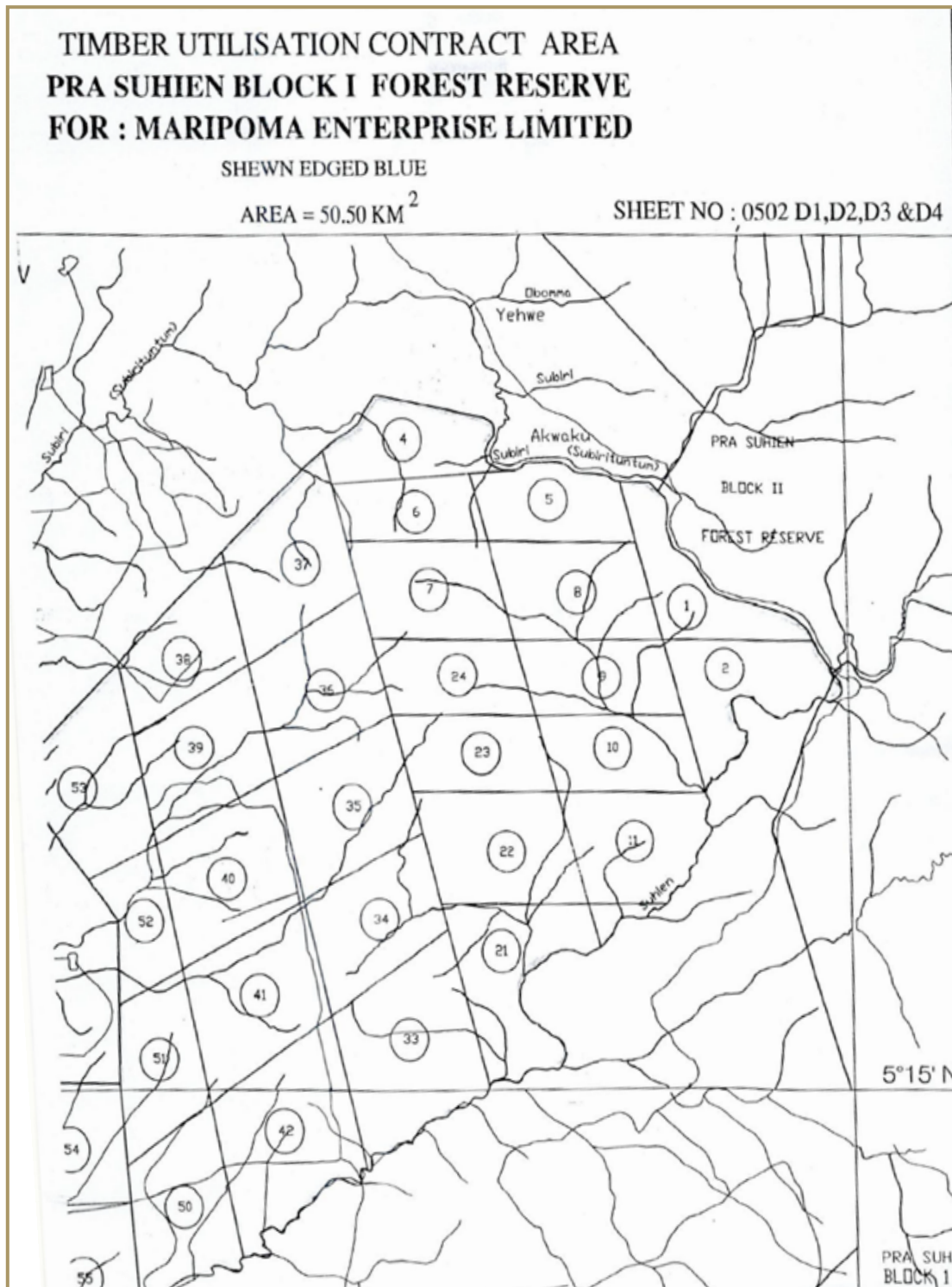
- (1) The Government of Ghana is desirous of regulating the grant of timber rights in a manner that secures the sustainable management and utilization of the timber resources of Ghana; and,
- (2) For that purpose has adopted the process of competitive bidding by pre-qualified applicants for the grant of timber rights; and,
- (3) The Holder, in response to an invitation for bids for the grant of timber rights in an On-reserve area of land has submitted a successful bid and has been issued with a Notice of Grant of Timber Rights.

NOW THEREFORE the Parties hereto agree as follows:


1.0 Definitions

1.1 In this Contract the following terms shall have the following meanings:

"Annual Yield" - the volume permitted to be removed by the Holder as provided under the approved Bidding Prospectus governing the TUC Area.



Annex 2: Copy of TUC Area Map

 **OFFICE OF THE OMANHENE**

Sefwi Wiawso Traditional Area

Your Ref.....

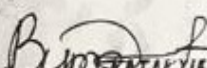
Our Ref **SWTC/FC/OPS/IV/1/35** 23rd JANUARY, 2019

**LETTER OF CONSENT TO EXTRACT TIMBER FROM KAMA OPAREKROM
OFF RESERVE**

I, Katakylie Kwasi Bumagama II, Omanhene of Sefwi Wiawso Traditional Area, have given this letter of consent to enable Kofi Bosopim Company Ltd. to extract timber from **KAMA OPAREKROM OFF RESERVE AREA**.

This letter of consent is however given out on condition that the Forest Service Division finds this operation in the Kama Oparekrom area free from any illegalities.

Thank you.


KATAKYIE KWASI BUMAGAMA II
 OMANHENE OF SEFWI WIAWISO
 TRADITIONAL AREA
 P. O. BOX 42
 SEFWI WIAWISO

THE OPERATION DIRECTOR
 FORESTRY SERVICE DIVISION
ACCRA

ANNEX 3

SOCIAL RESPONSIBILITY AGREEMENT


This Social Responsibility Agreement is made this ^{18th} day of JUNE, 2014 BETWEEN the Stool, acting by its lawful attorney, the Paramount Chief/ Divisional Chief/ /Sub-Chief, of ABIREM TRADITIONAL AREA, hereinafter called the "Stool" AND the District Assembly, acting by its lawful attorney, the District Chief Executive and witnessed by Assembly Member of KOMENDA EDINA EGYAFO ABIREM MUNICIPAL ASSEMBLY, hereinafter called "Assembly" of the one part and acting by its lawful attorney MARIPOMA ENTERPRISE LIMITED of hereinafter called the "Contractor" of the other part.

RECITALS

- A. WHEREAS the Chief Executive of Forestry Commission (the "Grantor") has granted the Contractor the right to harvest timber (the "Grant") in Para Luberu BK 1, Foray Road which area is situated within
- B. WHEREAS it is a condition of the Grant that the Contractor execute this Agreement with the Stool and the Assembly in order that the Contractor shall for the benefit of communities and inhabitants of BREASE ABIREM

 represented herein by the Stool and Assembly (the "Community") contribute financially to the provision of social and economic amenities, services or benefits (the "Assistance").
- C. WHEREAS the Contractor desires to provide the Community with such Assistance and the Stool and Assembly desire to receive such Assistance on behalf of the Community.
- D. WHEREAS the parties hereto desire to be bound by this Agreement pursuant to the terms hereof.

NOW, THEREFORE, the parties hereto agree as follows:



FORESTRY COMMISSION
(FOREST SERVICES DIVISION)

P. O. BOX 884 ACCRA - GHANA
TEL: (233-302) 402119 / 402116 / 402227
FAX: (233-302) 401197
E-mail: info.fsc@ghana.gov.gh
Website: www.fscghana.org

9th November, 2020

Our Ref: _____
Your Ref: G477-S1V83/62

The Regional Manager
Forest Services Division
Ashanti Region
Kumasi

The District Manager
Forest Services Division
New Edubiase

Dear Sir,

RE: APPLICATION FOR PERMIT TO SALVAGE ECONOMIC TREES BEING AFFECTED BY FARMING ACTIVITIES AT ANWIAM/TAWIAHKROM OFF-RESERVE IN THE NEW EDUBIASE FOREST DISTRICT OF THE ASHANTI REGION


CE's Ref. No. FC/A.30/SF.6/V.120/21 of 22/10/2020
ED's Ref. No. G477-S1.V.83/26 of 12/10/2020
RM's Ref. No. G.66-S.7th/10 of 11th September, 2020
DM's Ref. No. G.45.S.5109/41 of 17th August, 2020

Following an application forwarded to the Chief Executive of the Forestry Commission in connection with **Messrs. Paulina Arthur Timbers Limited** requesting for a permit to salvage **Two Hundred (200)** economic trees of various species at **Anwiam/Tawiahkrom Off-Reserve Area** in the New Edubiase Forest District of Ashanti Region.

This is to inform you that the Chief Executive of the Forestry Commission has granted approval to **Messrs. Paulina Arthur Timbers Limited** to harvest **One Hundred and Fifty-Eight (158)** economic trees from **Anwiam/Tawiahkrom Off-Reserve Area**. The trees with diameters below the felling limit would improve the growth of cocoa and other agricultural crops in the area. The yield has therefore been revised taking into consideration the sustainability of the vegetation in providing continuous ecological services.

Summary of the revised yield tabulated below:-

No.	Species	Code	Diameter Classes					Total	
			50-69	70-89	90-109	110-129	130-149		150+
1	Tanuro	Tri	-	-	1	-	-	-	1
2	Dhaa	Sto	-	4	1	-	-	-	5
3	Ofram	Ts	-	6	3	1	-	-	10
4	Kumnini	Law	-	6	2	1	-	-	9
5	Wama	Rih	-	3	8	-	-	-	11
6	Celba	Cp	-	-	2	5	7	5	19
7	Akata	Bbu	-	8	8	2	-	-	18
8	Hotrohotro	Hak	-	3	6	2	-	-	11
9	Sinuro	Abo	-	-	6	1	-	-	7
10	Esia	Pef	-	1	-	-	-	-	1
11	Aprokuma	Ami	-	1	-	-	-	-	1
12	Yaya	Amp	-	2	5	1	-	-	8
13	Eso	Cem	-	7	2	1	-	-	10
14	Wawa	Tri	-	1	2	-	-	-	3
15	Emire	Ti	-	2	2	-	-	-	4
16	Hyedua	Do	-	-	-	-	1	-	1



Forestry Commission

Our Ref:

Your Ref: G-28S1.V.4/10

FORESTRY COMMISSION

(FOREST SERVICES DIVISION)

P. O. BOX MB 434, ACCRA - GHANA
 TEL: (233-302) 401210 / 401216 / 401227
 Fax: (233-302) 401197
 E-mail: info.hq@fcghana.org
 Website: www.fcghana.org

11th November, 2020

The Managing Director
 Messrs. Wurtemberg Consulting Limited
 P. O. Box AN 8785
 Accra North
 Tel: 0208-246537

Dear Sir,

ENTRY PERMIT
RE: REQUEST FOR PERMIT AND FACILITATION

Released to client per [Signature]

Min. of Finance Ref. No. RMERD/NTPU/10/19-FC/HP of 21st November, 2019
CF's Ref. No. FC/A.43/Vol.82/69 of 1st September, 2020
ED's Ref. No. G-28-S.1.V.3/94 of 22nd September, 2020
ED's Ref. No. G-28-S.1.V.3/74 of 29th July, 2020

Permission is hereby granted to your company, Messrs. Wurtemberg Consulting Limited to harvest only the allocated Teak trees WITHIN Compartment 4 of Bosomkese Forest Reserve in the Bechem Forest District following the confirmation of stand statistics, the signing of Social Responsibility Agreement with Ntotroso Community and the payment of GHc30,319.99 (VAT & NHIL inclusive vide Forestry Commission Official Receipt No. RN/PCT/00556 dated 5th November, 2020) representing 14.6% of the total revenue due the Stool Land owner as part of the Benefit Sharing Agreement in respect of four thousand, two hundred and forty-eight (4,248) Teak trees with an estimated total standing tree volume of 943.9m³.

Please find below the summary of the stand statistics:

FOREST DISTRICT	FOREST RESERVE	COMPT.	SPECIES	PLANTATION TYPE	COUNTED STEMS	TOTAL STANDING TREE VOL. (M ³)
Bechem	Bosomkese	4	Teak	HIPC	4,248	943.9
Total					4,248	943.9

Your operations must be in conformity with forestry rules and regulations.

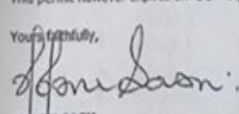
Any unauthorized felling will attract a penalty of 10 times the value of the timber so harvested.

The Regional Manager and District Manager would strictly monitor the operations of the company and submit special monthly reports on progress of the harvesting operation to this office by the 7th of each succeeding month during the period of operation. The report is to include an environmental audit as well.

The District Manager must submit through the Regional Manager an Operations Completion Certificate duly endorsed by the contractor at the end of logging and harvesting operations.

The Regional and District Managers would be jointly held responsible for the abuse of this permit.

This permit however expires on **30th April, 2021.**

Yours faithfully,

OPPON SASU
 EXECUTIVE DIRECTOR

cc: The Minister
Ministry of Finance
Accra

The Executive Director
T.I.D.D., Accra

The Minister
MLNR
Accra

The Area Manager
T.I.D.D., Sunyani

The Chief Executive
Forestry Commission
Accra

The Regional Manager
Ahafo Region
ESD, Goaso

The Director
RMSC
Kumasi

The District Manager
FSD, Bechem

The Director, Finance
Forestry Commission
Accra

Annex 6: Copy of Plantation Permit

Abandoned : Enquire/Change

Certificate Information
 Register Code: ABR2ASUKCPT16 (certificate of purchase reference)
 Description: ABANDON LOGS AT ASUKESE F/R
 Date Registered: 30/12/2020 Date Notified:

Contractor
 Contractor: AYUM Ayum Forest Products Co. Limited
 Mark: AYUM Expires: 30/06/2021
 Local Sale **Local Buyer**
 Name:
 Add:

Location Information
 District: Suryani Locality: BR02
 Location: AYUM FOREST PRODUCT
 Estimated Log Volume: 0.000 Wood Volume: 167.647
 Delivered Log Volume: 167.747 Wood Volume: 0.000

FC Invoice Ref. RCP014794 FC Sale Report Ref.

Print Setup
 Preview
 Export
 Print Summaries
 Print Details

*Log lines are created by the C.L.M.C.C.
 Wood Lines are created by inspection certificate (Abandoned)
 Changes should be entered on those documents*

No	Docket No	Code	Local N ..	Db1	Db2	Dt1	Dt2	Length	Volume
1	BR0059216	TRI	Wawa	93	92	76	75	11.80	6.490
2	BR0059216	TRI	Wawa	76	75	62	61	11.80	4.366
3	BR0059216	TRI	Wawa	91	90	75	75	10.90	5.886
4	BR0059216	TRI	Wawa	75	75	69	68	10.90	4.360
5	BR0059216	CEM	Esa	90	89	64	63	16.00	7.520
9	BR0059218	CP	Oryina	141	140	108	107	13.70	16.714
10	BR0059218	CP	Oryina	149	148	135	135	11.40	18.012
11	BR0059218	CP	Oryina	135	135	117	116	11.40	14.136
12	BR0059219	CP	Oryina	138	138	102	100	13.10	15.065
13	BR0059219	CP	Oryina	160	158	136	135	10.40	17.784



FORESTRY COMMISSION

P. O. Box MB 434, Accra. Ghana
 Tel: +233 302 401210, 401216, 401227
 E-mail: info.hq@fcghana.org

CERTIFICATE OF PURCHASE

No. **000000**

Court Order (Magistrate/ Circuit/ High)

Administrative Order

Division.....

District / Area / Regional Office..... Suit No:.....Date.....

THIS IS TO CERTIFY that.....(full name)

of House No.....(location address)

With Contact (Mobile) No..... has (Tick the appropriate box)

Won the auction conducted on.....(date) at.....(place)

consisting of the under-mentioned Wood Products/Logs.

Been declared the purchaser of under-mentioned abandoned / confiscated Wood Product/Logs.

Item No.	Species		Specifications/Dimensions	No. of Pieces	Volume (m3)	Remarks
	Name	Code				

Destination:..... Mill / Market:..... Other (Specify)

That, the above-mentioned timber product(s) were sold with the approval of..... (approving authority), and the amount involved has been fully paid as per the attached.

FC Receipt Number..... Issued on.....(date) at.....(place of issue).

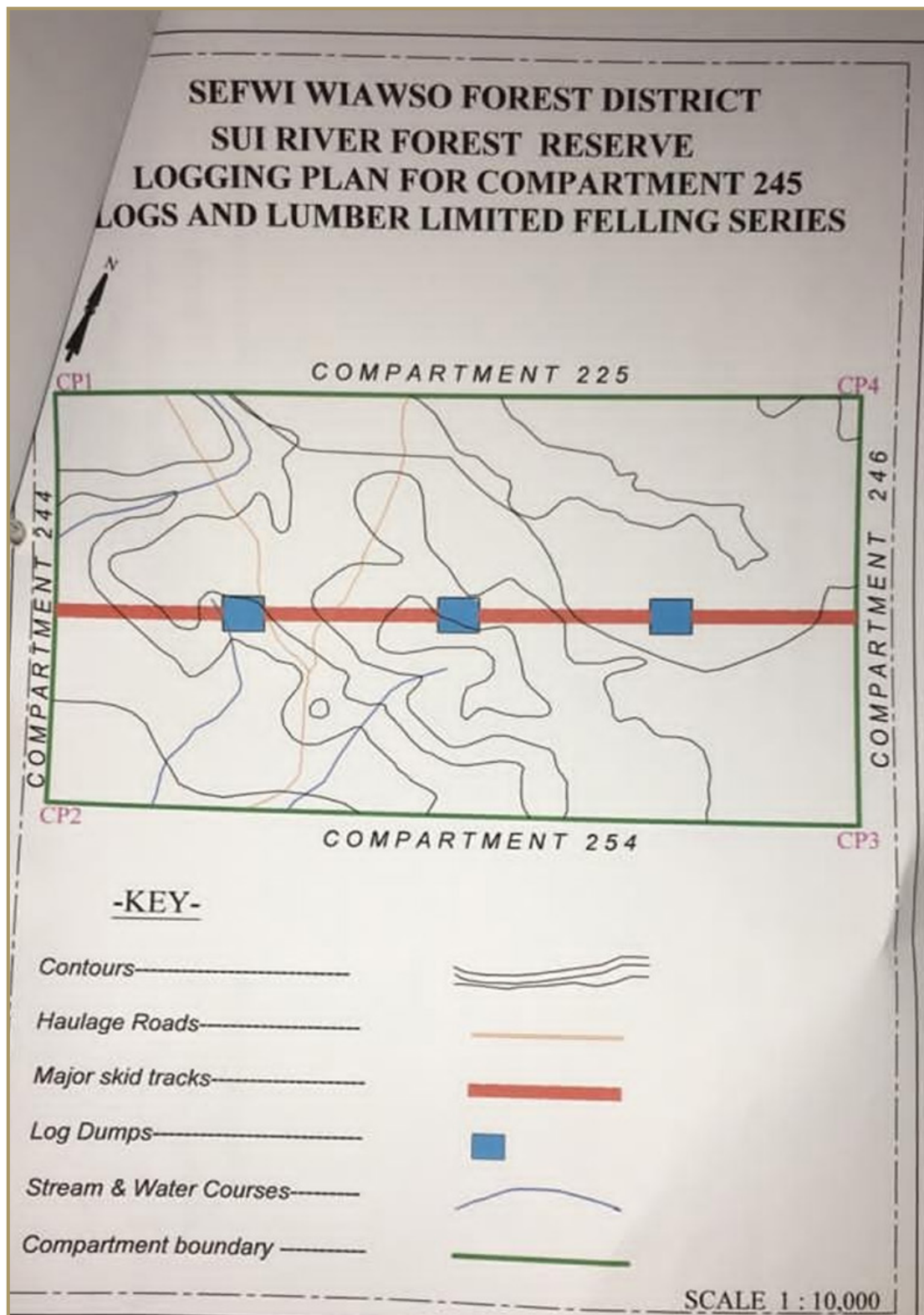
I certify that the information provided above is true as verified by me, an authorized officer of the Forestry Commission and that this certificate is issued without erasure of any kind.

..... (Signature) Name Rank Date

Products Received by: Name of Purchase Signature Date

..... (Sig. & Stamp of Approving Authority) Name Rank Date

Date of Issue:..... Date of Expiry:.....



Annex 9: Copy of Compartment Logging Plan



FORESTRY COMMISSION
(FOREST SERVICES DIVISION)

P. O. BOX 527 ACCRA, GHANA
TEL: (233- 21) 401210/ 401227/ 401216/ 401231/ 401249
FAX: (233- 21) 401215
E-MAIL: info_fsd@hq.feghana.com

G4C-2077-V-2/21

The Regional Manager
Forest Services Division
Central Region
Cape Coast

10th February, 2020

The District Manager
Forest Services Division ✓
Cape Coast



Dear Sir,

**RE: APPLICATION TO WORK ON WEEKENDS AND PUBLIC HOLIDAYS IN PRA SUHIEN
BLOCK I & II FOREST RESERVE
CAPE COAST FOREST DISTRICT- CENTRAL REGION**

RM's Ref. No. TC.277.V2/27 of 3/02/2020
DM's Ref. No. G.2.S.1/15 of 3/02/2020

In line with Section 62 of L.I 2254 of 2017, permission is hereby granted to **Messrs. Maripoma Enterprise Limited** to work and transport logs from Compartments 34, 40 and 41 in **Pra Suhien Block I** and Compartments 4, 9, 30, 34, 41 and 51 in **Block II Forest Reserve Area** on week-ends and public holidays in the **Cape Coast Forest District** of the **Central Region** for **Three (3) Months**.


Messrs. Francis Ogum Tetteh (Forest Range Manager) and **Osei Smith (Range Supervisor)** will be in-charge of **TIF** preparation whilst **Cynthia A. A. Okine (Assist. Dis. Manager)** and **Michael Asiedu (Ag. Assist. Dis. Manager)** will be in-charge of **LMCC** for the period.

The Company has paid the salaries and overnight allowances of the officers who have been assigned to supervise the operations vide Receipt No. **RN/FSDHQ/00060** of **7th February, 2020**.

A report on the operations of the contractor should be submitted by the **7th** of the ensuing month.


This authorization expires on **9th May, 2020**.

Yours faithfully,


EDITH ABRUQUAH (MRS)
DIRECTOR OF OPERATIONS (NF)
FOR: EXECUTIVE DIRECTOR

CC: The Managing Director

The Direct



FORM C

Original

TREE AND TIMBER DECREE, 1974

NRC D 273

No. 18270

Certificate of Registration of a Property Mark

This Certificate expires on: 31st DECEMBER 22

Issued for Locality: W3 TUC No: PP/TEA (C/2)

Forest District: BUBANI Stool: _____

(CERTIFIED TRUE COPY OF APPROVED YIELD ATTACHED)

I Hereby Certify that the following Property Mark was registered by me on the 29th day of OCTOBER 2020 in the name of MESSRS GEORGE K DONALD COMPANY LIMITED, P.O. Box 1, Sewi Awas for the trees listed in the attached yield.

GKD

TC-149

30/10/20

946

Date: 29th OCTOBER 22

Signed: _____

Executive Director
Forest Services Division

Receipt No: PP/TEA/10257 of 29/10/22

Copies: PP/TEA - 2,000.00

1. (Orig.)	Producer
2. (Dup.)	TIDD
3. (Trip.)	RM
4. (Quard)	DM
5. (Quint)	Book / Reference

Contracts of Sale to be permitted only from the approved yield.

ADMS / AC

Fuji

E.A

Annex 11: Copy of Form C



On Reserve Stock Survey Detail Report

Printed: 30/01/2021

Time: 08:35:30

On Reserve Stock Survey Detail Report								
Forest District	Sunyani							
Forest Region	Bono							
Company Name	Asuo B. Timbers & Sawmills Ltd							
TUC Reference	tB5ASUKFRABTS							
Forest Reserve Code	ASUK							
Compartment ID	23							
Scheduled Date of Harvesting								
Base Point UTM	30 N 0 m E 0 m N							
Baseline Bearing	0							
Completed Tie Line Survey	true							
Completed Pre-Stock Survey	true							
Suitable for Harvest	true							
Date of Completion	18/12/2016							
Team Leader	Samuel Tsawe							
Number of Stock Trees	2961							
Number of Yield Trees	1145							
Strip Line Details								
Strip Line Number	Strip Line Direction	Strip Line Offset From Base						Strip Line Length
1	A->B	30						650
3	B->A	30						650
5	A->B	150						650
7	B->A	210						650
9	A->B	270						650
11	B->A	330						650
13	A->B	390						650
15	B->A	450						650
17	A->B	510						650
19	B->A	570						650
21	A->B	630						650
23	B->A	690						650
25	A->B	750						650
27	B->A	810						650
29	A->B	870						650
31	B->A	930						650
33	A->B	990						650
35	B->A	1050						650
37	A->B	1110						650
39	B->A	1170						650
41	A->B	1230						650
43	B->A	1290						650
45	A->B	1350						650
47	B->A	1410						650
Strip Line Tree List								
Stock No.	Distance	Off-set	Species	DBH	Seed	Damaged	Canoe	Yield
1	2	Left 15	STE	50.0	No	No	No	No
2	10	Left 20	STE	60.0	No	No	No	No
3	15	Left 5	RIH	50.0	No	No	No	No
4	18	Left 2	TRI	60.0	No	No	No	No
5	20	Left 20	TRI	70.0	No	No	No	No
6	20	Right 20	CEM	90.0	No	No	No	Yes
7	25	Right 0	STE	60.0	No	No	No	No



YIELD SUMMARY

Printed: 30/01/2021

Page: 1

Details

Species	Limit	Yield	Name	30-49	50-69	70-89	90-109	110-129	130-149	150+	Total
DAK	0	Standard	Dacryode		406,412,418, 535,672, (5)	193, (1)					6
TRH	0	Standard	Trichilia		530, (1)						1 <u>7</u>
ONG	50	Standard	Angueuk/Bodwe		253,1013, (2)	1515, (1)					3
STR	50	Standard	Afena	170,287,295, 386,545,725, 844,875, (8)							8
AUB	70	Standard	Dahomanini		69,216,233, 273,313, (5)	792,829, (2)	279,312, (2)				9
BBR	70	Standard	Bombax/Kontroti		86,194,362, 369,444,912, 920,1576, (8)	112,139,318, 342,1131, (5)					13
BBU	70	Standard	Akata		1242, (1)						1
BER	70	Standard	Ebiara/Berlinia		81,92,97, 261,454,523, 809,1178, (8)	715, (1)					9
CEM	70	Standard	Cellis/Ohia		9,28,44, 90,95,209, 219,226,236, 249,259,291, 332,333,334, 352,366,369, 401,426,471, 476,492,493, 512,592,593,	242,252,254, 301,617,634, 645,752,764, 828,861,877, 878,929,1007, 1023,1025,1046, 1057,1082,1094, 1103,1158,1253, 1256,1408,1413,	649,1011, (2)				193



On Reserve Plantation Stock Assessment Detail Report

Printed: 30/01/2021

Time: 22:11:48

On Reserve Plantation Stock Assessment Detail Report						
Region		WESTERN NORTH				
District		Enchi				
Company Name		Samaritex T. & Plywood Co. Ltd				
TUC Reference		W4TANICOMPT50				
Reserve		TANI				
Harvest Area						
Date		11/06/2018				
Group : A : CEDRELLA PERMIT						
Stock No.	Species Code	Species	DBH(cm)	Height(m)	Volume(m3)	
108	CEO	Cedrela	30.0	8.0	0.346	
109	CEO	Cedrela	40.0	9.0	0.710	
110	CEO	Cedrela	43.0	8.0	0.734	
111	CEO	Cedrela	52.0	12.0	1.629	
112	CEO	Cedrela	41.0	10.0	0.831	
113	CEO	Cedrela	42.0	10.0	0.873	
114	CEO	Cedrela	55.0	11.0	1.676	
115	CEO	Cedrela	54.0	12.0	1.761	
116	CEO	Cedrela	36.0	12.0	0.760	
117	CEO	Cedrela	32.0	8.0	0.396	
118	CEO	Cedrela	36.0	9.0	0.570	
119	CEO	Cedrela	42.0	11.0	0.961	
120	CEO	Cedrela	42.0	10.0	0.873	
121	CEO	Cedrela	39.0	12.0	0.898	
122	CEO	Cedrela	34.0	13.0	0.731	
123	CEO	Cedrela	47.0	14.0	1.543	
124	CEO	Cedrela	48.0	11.0	1.266	
125	CEO	Cedrela	55.0	12.0	1.829	
126	CEO	Cedrela	54.0	11.0	1.614	
127	CEO	Cedrela	35.0	12.0	0.717	
128	CEO	Cedrela	36.0	8.0	0.507	
129	CEO	Cedrela	35.0	7.0	0.418	
130	CEO	Cedrela	38.0	8.0	0.567	
131	CEO	Cedrela	54.0	9.0	1.321	
132	CEO	Cedrela	52.0	10.0	1.358	
133	CEO	Cedrela	32.0	11.0	0.545	
134	CEO	Cedrela	37.0	12.0	0.805	
135	CEO	Cedrela	33.0	11.0	0.581	
136	CEO	Cedrela	53.0	12.0	1.695	
137	CEO	Cedrela	55.0	8.0	1.219	
138	CEO	Cedrela	56.0	7.0	1.107	
139	CEO	Cedrela	57.0	13.0	2.132	
140	CEO	Cedrela	58.0	10.0	1.700	
141	CEO	Cedrela	52.0	8.0	1.086	
142	CEO	Cedrela	51.0	7.0	0.913	
143	CEO	Cedrela	35.0	6.0	0.359	
144	CEO	Cedrela	44.0	10.0	0.962	
145	CEO	Cedrela	48.0	7.0	0.806	
146	CEO	Cedrela	39.0	9.0	0.674	
147	CEO	Cedrela	37.0	12.0	0.805	
148	CEO	Cedrela	35.0	12.0	0.717	
149	CEO	Cedrela	52.0	10.0	1.358	
150	CEO	Cedrela	36.0	12.0	0.760	

Original - Contractor's Copy

AFC Forest Services Division F C

Property Mark **YIC**

Company Address: **Youngtree Timbers**

Location: **Avilaok (079)**

Reference No. (Pre-felling inspection/Yield): **9477-SL.V.70/46 of 7/10/2017**

Tree Information Form **0123664**

Forest District	Locality Mark	Stump Landowner	Disturbed Area/Assembly
BUNIKWA	C1	EF77-SUGDRU	AFPIN CENTRAL

Stock Survey No. OR Tree Count No.	Class Type No.	Species Trade Name	Code	Tree Length (m)	Diameter (cm)	Volume (m³)
54	76	CEIBA	CP25.00150	9.630	0.870	0.870
ONE (1) TREE ONLY						
TOTAL: 9.630						

Species Code	Species Trade Name	No. of trees recorded	Volume (m³)
CP	CEIBA	01	9.630
TOTAL			
		01	9.630

Manager Supervisor's Name: **TAWAH ISAC**

Signature: **Mawinda 17-2-2018**

Print Version 2

Approved By: **Roslyne** On: **20/1/2021 21:55:55**

Printed By: **Roslyne** On: **20/1/2021 21:59:25**

AFC Forest Services Division

Property Mark **LLL**

Contractor: **Logs & Lumber Limited** Compartment: **10** No. **0007701**

Forest Code: **BNBN**

Reference No. (Pre-felling inspection/Yield): **IC1BNBNFRLL / 21/11/2003**

Tree Information Form

Forest District	Locality Mark	Stump Landowner	Disturbed Area/Assembly
Dunkwa-on-Offin	CR01	Kayreku Stool Land	Yof-Ali Morwa

CONT. TREE NO.	STUMP BARCODE	SPECIES NAME	DIAMETER (cm)			Length (m)	bole Vol (m³)	BRANCH Vol (m³)	VOLUME (m³)
			CODE	DB 1	DT 1				
1040	57	Daberna/Daberna	PIP	36	53	21.00	0.000	0.000	9.660
1031	41	Daberna/Daberna	PIP	37	66	11.90	0.000	0.000	6.060
1069	58	Daberna/Daberna	PIP	100	57	15.70	8.164	0.000	8.164
1030	50	Daberna/Daberna	PIP	32	66	13.50	8.750	0.000	6.750
1077	51	Sapelli	EC	130	87	20.00	15.820	0.000	18.400
1482	37	Sapelli	EC	110	56	22.60	13.550	0.000	13.550
1001	57	Hotohro	HAN	115	66	24.20	17.182	0.000	17.182
1071	46	Hotohro	HAN	112	67	21.50	15.040	0.000	15.040
1043	53	Wawa	TR	105	60	22.40	12.992	0.000	12.992
1034	48	Bombax/Kontroll	BBR	80	51	14.20	4.970	0.000	4.970
TOTAL	10								112.787

Summary			
Species Code	Species Trade Name	No. of trees recorded	Volume (m³)
BBR	Bombax/Kontroll	1	4.970
EC	Sapelli	2	31.960
HAN	Hotohro	2	32.222
PIP	Daberna/Daberna	4	30.643
TR	Wawa	1	12.992
TOTAL:		10	112.787

Annex 15: Copy Tree Information Form (TIF)

4 ESA - 73, 74, 75, 76
 1 DANIA - 77
 1 KENKYEI - 78

FC
 Forestry Commission

Contractor's Copy
 2M-FSD Copy
 RMSC
 Book
 357373

-White
 -Blue
 -Pink
 -Yellow

ER

No. 357373

PLANTATION PRODUCTION CERTIFICATE

ADANSI CARAVAN
 COMPANY LTD

Company Name (logger) ACC
 Region EASTERN Property Mark AKIM
 Forest District ODA

Reserve Code	Compt. No. / Series	Species	No. of Logs	Contract Ref. No.
PRAN	RWC	ESA, DANIA, KENKYEI	6	RM's Ref. No. TC 441/33 of 22/05/11

Log No.	Length (m)	Mid-Point Diameter (cm)	Volume (m³)	Log No.	Length (m)	Diameter (cm)	Volume (m³)
73	27.60	48	4.994				
74	23.20	57	5.920				
75	26.50	49	4.997				
76	24.00	44	3.649				
77	19.20	54	4.297				
78	28.00	112	28.081				

Total Volume **52.032**

I hereby certify that the dimensions and volumes of logs indicated above have been duly taken and computed by me, an authorized official of the Forest Services Division.

Name: ASARE-BEDIAKO F.
 Signature: [Signature]
 Rank: CLR
 Date: 30/08/19

I hereby confirm that the above measurements were taken in my presence and have been cross-checked by me, the Property Mark Holder or Agent and found to be accurate.

Name: Ohene Acheampong
 Signature: [Signature]
 Rank: Bush manager

Annex 16: Copy of Plantation Production Certificate (PPC)



Forestry Commission
LOG MEASUREMENT AND CONVEYANCE CERTIFICATE
SEFINI WANGCO


Contractor: **MADRIPANA** **FAUT LTD** UR: **41103453**
 Property Mark: **MIEL**
 Forest District: **SEFNI - KILIMNSO**
 Locality Mark: **M2**
 L.F. Ref. No: **608152**

Driver's Name: **YAKI AMPONSAH**
 Vehicle Reg. No: **GF 6143-19**
 Designation: **JANY (KABRIM)**
 Check Point: **MILE 81**
 Small: **FOWOOD CO. LTD**

T/A No	SPECIES	CONTRACTORS	DIAMETER (CM)				Length (M)	Vol (M ³)	Defects	Grade
			DB1	DB2	DB3	DB4				
0253	AK	811362	85	82	83	79	77.78	1000	5100	
0253	AK	811362	123	125	124	121	118	117.600	6760	
0253	AK	811362	121	118	119	114	110	112	6000	6300
0253	AK	811362	114	110	112	105	99	102	1370	1230
8 FOUR (4) LOGS ONLY										

These logs have been measured by the Property Mark Holder and approval to Transport them is hereby granted.
 Authorised FSD Officer: **Leticia Ofori**
 Name: **Leticia Ofori**
 Date: **09/19/2019**

These logs have been daily checked and certified for processing.
 Authorised TDO Officer: **Michael Mwaah**
 Name: **Michael Mwaah**
 Date: **09/19/2019**



Forestry Commission
LOG MEASUREMENT AND CONVEYANCE CERTIFICATE
No. **WR416574**

Date: **9/1/2020** Expires: **8/1/2022**
 Contractor: **Grana Forest Products** Driver's Name: **Abu Joseph**
 Property Mark: **GP** Vehicle Reg. No: **GT 302U**
 Forest District: **SEFINI** Destination: **Kilginnac Co. Ltd**
 Locality Mark: **W54** Check Point:

T/A No	SPECIES	CONTRACTORS	DIAMETER (CM)				Length (M)	Vol (M ³)	Defects	Grade
			DB1	DB2	DB3	DB4				
0253	AK	811362	85	82	83	79	77.78	1000	5100	
0253	AK	811362	123	125	124	121	118	117.600	6760	
0253	AK	811362	121	118	119	114	110	112	6000	6300
0253	AK	811362	114	110	112	105	99	102	1370	1230

These logs have been measured by the Property Mark Holder and approval to Transport them is hereby granted.
 Authorised FSD Officer: **Leticia Ofori**
 Name: **Leticia Ofori**
 Date: **9/1/2020**

These logs have been daily checked and certified for processing.
 Authorised TDO Officer: **Michael Mwaah**
 Name: **Michael Mwaah**
 Date: **8/1/2022**

Annex 17: Copy of Transport document (LMCC)

DISTRICT MANAGER
 FOREST SERVICES DIVISION
 FORESTRY COMMISSION
 AKIM - ODA


AFC
 Forestry Commission

Contractor's Copy - White
 TIDD Copy - Blue
 2M-FSD Copy - Pink
 Contractor's Copy - Yellow
 Book - Green

ER 151369

LOG MEASUREMENT AND CONVEYANCE CERTIFICATE (PLANTATION TIMBER)

Contractor: MODERN WOOD TECH. CO. LTD. Driver's Name: KWABENA NKRAMPAH
 Property Mark: M.W.T Veh. Reg. No: A-S 76 917
 Plantation Area: AMANTIA Destination: KUMASI
 Locality Mark: E5 Check-Point: KENTINKROND
 PPC Ref. No: ER357374/357376 Sawmill: M.W.T.C

Reserve Code	Compt. No./Series	Species Name	Log No.	Length (m)	Mid-Point Diameter(cm)	Volume (m ³)	Defects	Grade
			44-1	13.50	35	1.299		
			51-1	13.40	35	1.287		
			53-1	14.00	36	1.405		
			54-1	14.50	36	1.476	BUT	BC
			55-1	14.50	37	1.559		
			56-1	14.00	37	1.505		
			57-1	15.00	35	1.443		
			58-1	14.70	35	1.414	X/H/H	BC
			59-1	14.00	40	1.781		
			60-1	14.00	38	1.588		
			16-1	14.50	36	1.476		
			18-1	14.70	37	1.581	KWAZI	BC
			19-1	15.00	35	1.448		
			26-1	13.80	34	1.180		
			28-1	14.00	36	1.445		

FIFTEEN (15) LOGS ONLY.

F. S. D. CHECK POINT
 KUMA
 DATE: 11-11-19
 SIGN: 

Total Volume(m³) 21.907

I confirm that the above log information have been verified by me and found to be accurate. Approval to transport them is hereby granted.

I hereby confirm the accuracy of the log information provided above.

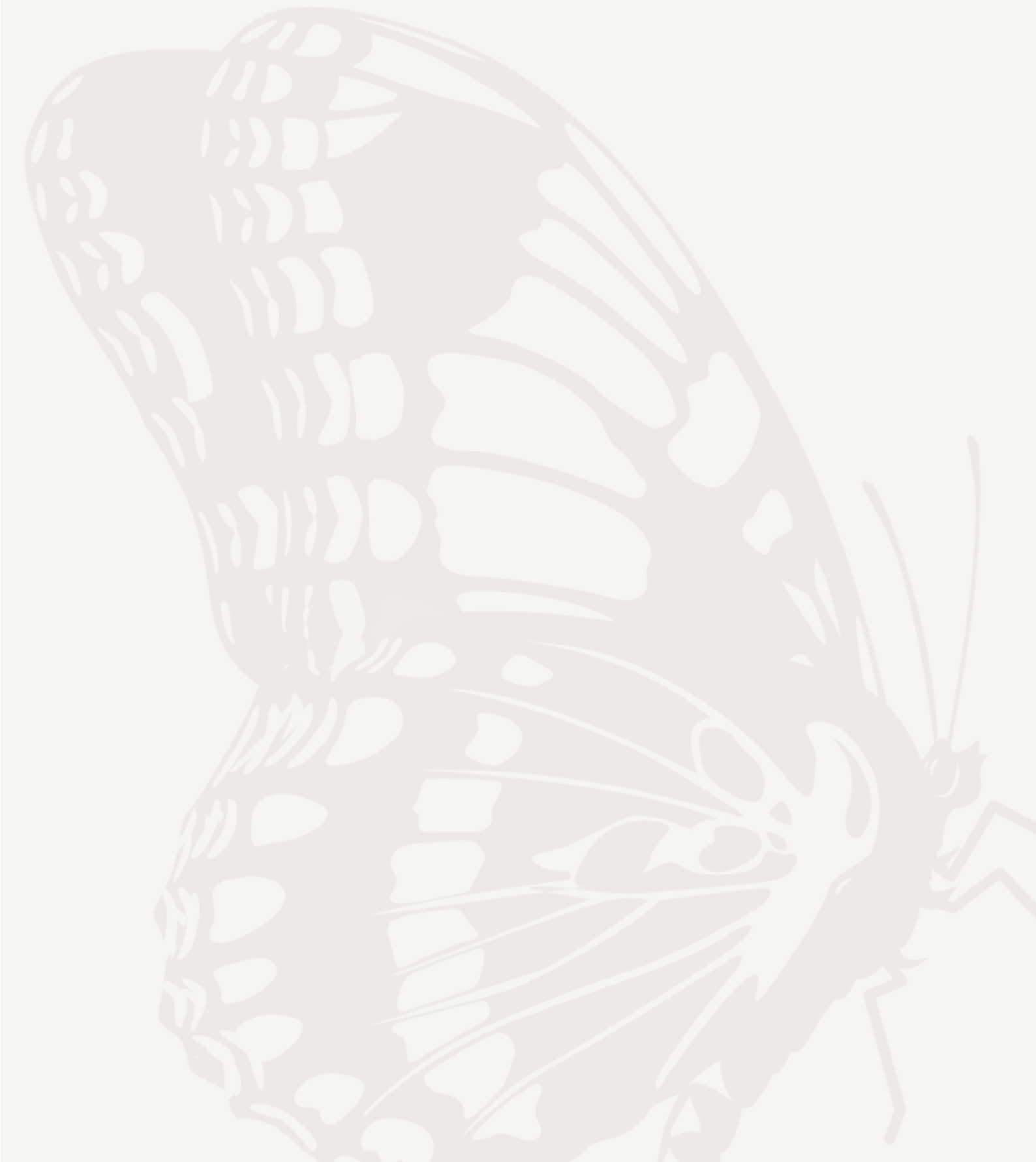

 These logs have been duly checked and certified for processing.

PASSED FOR M...
 KUMASI

Authorised FSD Officer: ASARE-BENIAKO
 Name: Saviour Dzeku
 Signature: 
 Date of Issue: 11/11/19
 Validity Date: 12/11/19

Authorised TIDD Officer: ANGELLA ANJEI
 Name: Uto
 Signature: 
 Date: 11-11-19

ASA (A)				ASA (A)			
STOCK	CODE	STOCK	CODE	STOCK	CODE	STOCK	CODE
2	2138	CEM	2384 ✓	CEM	2511 ✓	2620 ✓	CEM
2	2155 ✓	CEM	2390 ✓	CEM	2515 ✓	2701	CEM
26	2157 ✓	CEM	2391 ✓	CEM	2519 ✓	2715 ✓	CEM
19	2158 ✓	CEM	2393 ✓	CEM	2536	2719 ✓	CEM
17	2164	CEM	2396 ✓	CEM	2537 ✓	2740 ✓	CEM
15	2166 ✓	CEM	2402	CEM	2538 ✓	2757	CEM
19	2283 ✓	CEM	2410 ✓	CEM	2545	2762 ✓	CEM
15	2288 ✓	CEM	2411 ✓	CEM	2584 ✓	2592	CEM
1	2295	CEM	2431	CEM	2587	2768	CEM
1	2306 ✓	CEM	2435	CEM	2596	2773	CEM
9	2309 ✓	CEM	2501 ✓	CEM	2598	74 ✓	CEM
2	2316 ✓	CEM	2503	CEM	2604 ✓	109 ✓	CEM
2	2362 ✓	CEM	2504	CEM	2605 ✓	170	CEM
2	2378 ✓	CEM	2505 ✓	CEM	2606	205	CEM
2	2581 ✓	CEM	2506 ✓	CEM	2612 ✓	286 ✓	CEM



Nature & Development Foundation

Centre for African Wetlands

University of Ghana

Legon.

Tel: +233(0)30 290 3359

Email: info@ndfwestafrica.org

Website: ndfwestafrica.org