



EXPERIENCE OF THE PHILIPPINES ON TRACKING TECHNOLOGIES FOR FOREST GOVERNANCE

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OUTLINE

A Glimpse of tracking technologies in the Philippines:

- Log Control Monitoring System (LCMS) - *existing*
 - Forest Stock Monitoring Systems (FSMS) - *draft*
 - Transporting timber/lumber & non-timber products
 - Recent developments timber tracking and chain of custody
- = Short-term project (*Assessment of Existing Philippine Timber Tracking System & the Development of Chain-of-Custody Procedures : PP-A/39-170*)
- = Newly-funded by ITTO (*Development and testing of national Forest Stock Monitoring System (FSMS) with improved governance capabilities at all levels of the Forest Administration : PD 599/11(M)*)



LOG CONTROL MONITORING SYSTEM (LCMS) - *existing*

Covers the harvesting, transporting & disposition of locally produced logs/lumber under existing permits in public forestlands, & private tree plantations.

Aimed at systematic tracking of logs from cutting area to end user; Standardized timber resources data, easy storage, retrieval and audit; Optimized utilization of timber resources; & Improve revenue collection



LCMS *cont'n.....*

LCMS uses Data Capture Forms for raw data and generate report nos. 1 to 5

Form 1. Inventory Master List (harvestable trees & volume of trees served as bases for forest charges including silviculture fees for damaged residuals)

Form 2. Felling & bucking Master List (felled logs with tree nos., set-up nos., & UTM code)

Form 3. Log Landing / Log Deck Master List (marked with species, tree nos., log nos., set-up nos. & UTM block code), for issuance of transport document)

Form 4A. Logs Transport Master List within the province

Form 4B. Logs for Transport Master List outside the province

Form 5. Milled Logs Master List



L C M S *cont'n....*

DRAW BACKS & WEAKNESSES

ENCODING of raw data in Form 1 (Inventory Master List)

- must be finished in one sitting only
- program can be closed only ones and cannot be re-open
- no option for re-opening to continue encoding even if there large files of raw data
- when closed, the program goes to the next step, to encode data in Form 2 (felled logs with tree no., set-up no., & UTM code), and so on and so forth
- When Form 1 is incomplete, the entire program fails. The succeeding step cannot



FOREST STOCKS MONITORING SYSTEM (FSMS) - *draft*

- FoxPro windows version program – enhanced version of LCMS aimed at *recording residual inventory, standardization of timber data, improved procedure of tracking the movement of logs/timber from cutting area, curtail illegal activities, and collection of forest charges*
- Includes imported logs and wood materials
- Monitoring of residual trees left after logging or cutting operations
- This guidelines is still in it final draft stage



F S M S *con't*.....

Uses Capture Forms for recording & reporting filled up manually from the logging set-up down to the mill site or wood processing plants and back to the cutting area for residual inventory

Must be filled out properly to complete the process of recording the reporting various data needed in determining the source of timber down transported to the wood processing plants

Capture Forms will generate summary reports that may be useful for timber tracking



FEATUREF of F S M S

Form No. 1. Inventory Records

Form No. 2. Felled Logs Records

Form No. 3. Log Landing/Log Deck Records

Form No. 4a. Application for Transport of Log within the Province

Form No. 4b. Application for Transport of Logs to Other Provinces

Form No. 5a Milled Logs Records

Form No. 5b. Stocked Logs Record

Form No. 6. Post Harvest (Residual) Inventory Records



TRANSPORTING TIMBER AND LUMBER

ROUND LOGS (from public forestland)

License, Agreement, or Special Tree Cutting Permit

Valid Computer generated Certificate of Timber Origin (CTO) with two 14-digit bar-code (species, quantity, volume, place of loading, conveyance, date of transport, source, consignee, etc)

Auxiliary Invoice/Tally Sheet

*Official Receipt for payment of forest charges
Certificate of Transport Agreement (if owner of the logs rents truck or conveyance)*

Delivery Receipt



TRANSPORTING TIMBER AND LUMBER

ROUND LOGS (Natural growing trees from private titled lands):

Special Private Land Timber Permit (PLTP) or Private Land Timber Permit (SPLTP)

Valid Computer generated Certificate of Timber Origin (CTO) with two 14-digit bar-code (species, quantity, volume, place of loading, conveyance, date of transport, source, consignee, etc)

Auxiliary Invoice/ Tally Sheet

Official Receipt for payment of forest charges

Certificate of Transport Agreement (if owner of the logs rents truck or conveyance)

Delivery Receipt



TRANSPORTING TIMBER AND LUMBER

ROUND LOGS, LUMBER, POST, PILE, ETC
(Planted trees from private titled land):

*Private Tree Ownership Certificate (PTPOC),
Certificate of Timber/Forest Products Ownership
from Private Lands for Transport issued by local
tree farmers assoc. (species, quantity, volume, place of
loading, conveyance, date of transport, source,
consignee, etc)*

*Certificate by a Registered Professional Forester –
certifying the origin of the forest products*

*Tally Sheet, Delivery Receipt, Certificate of
Transport Agreement*



TRANSPORTING NON-TIMBERFOREST PRODUCTS

Minor Forest Products (e.g. rattan, bamboo, anahaw poles, etc)

Photocopy of Rattan Cutting Contract; Valid Certificate of Minor Forest Products Origin

Tally Sheet-original copy

Official Receipts for payment of forest charges

Certificate of Transport Agreement (with the owner of transport vehicle)

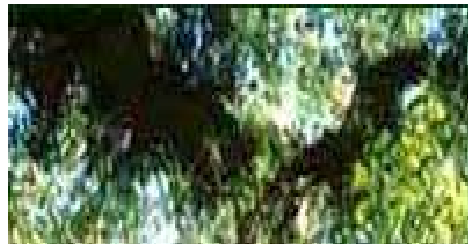
Delivery Receipt



CERTIFICATE OF TIMBER ORIGIN (CTO) / CERTIFICATE OF LUMBER ORIGIN (CLO)

- PRINTED only by authorized personnel at the DENR Regional Offices, in 6 original copies
- ISSUED by DENR field office called Community Environment and Natural Resources Office (CENRO)
- CONFIRMED by authorized personnel at the Forest Management Bureau Operations Center
- VALID for a maximum of 15 days only & UNEXTENDABLE

SAMPLE of a CTO/CLO




Republic of the Philippines
Department of Environment and Natural Resources
Office of the RED R-10
Office of the CENRO
INITAO CTO / CLO No. R-101206666292

CERTIFICATE OF TIMBER / LUMBER ORIGIN

PARTICULARS (TIMBER)	CTOCLONo:	TO WHOM IT MAY CONCERN:
	<u>1206666292</u>	This is to Certify that _____
AAC: _____ m3		(Quantity/ unit of measure in words followed
Beginning Stock _____ m3		of _____ Which is being
Total Volume Manifested (This Date) _____ m3		(Types of Product)
(1) Less this Shipment _____ m3		_____
(2) Total Shipment (To Date) _____ m3		(Place of Loading)
(3) Unshipped Balance (Previous A1) _____ m3		_____ With the Load Level of _____
(4) Allowable Cut Balance _____ m3		(Description of Conveyance)
(5) Unshipped Balance (Previous A1) _____ m3		_____ meters from floor to top most height _____
(6) Allowable Cut Balance _____ m3		were cut, gathered and removed / processed from the forest area / woods
Note: Beginning Stock = AAC + Previous Stocks if any		processing plant of _____ under _____
		(SHIPPERS COPY ONLY) (License)


PARTICULARS (LUMBER) CTOCLONo: 1206666292


(issued by the Secretary of the Department of environment and Natural
and / or his duly authorized representative, to expire on _____)



CTO / CLO *cont'n....*

LOGS FOR TRANSPORT MUST HAVE LOG MARKINGS either PAINTED OR CHISELED AT BOTH ENDS OF THE LOG

SGC - Species Group Code

TN - Tree Number

LN - Log Number

UTM - UTM Block Code

SUN - Set up number

CLM - Company Log Mark

HN - DENR marking hatchet number

SGC - TN - LN

=====

UTM- SUN

CA

HN



RECENT DEVELOPMENTS ON TIMBER TRACKING

- Short-term project (*Assessment of Existing Philippine Timber Tracking System & the Development of Chain-of-Custody Procedures : PP-A/39-170*)
- Recommended to refine the design for chain of custody and the procedures & support systems for timber tracking, including the developed software as a pre-requisite to the pilot testing in selected pilot site to test the effectiveness and workability of the enhanced procedures / systems.



RECENT DEVELOPMENT ON TIMBER TRACKING

- Newly-funded by ITTO (*Development and testing of national Forest Stock Monitoring System (FSMS) with improved governance capabilities at all levels of the Forest Administration : PD 599/11(M)*)
- Will recommend an electronic timber tracking module supporting Verifications of Legal Origin (VLO) including field data capture module enabling law enforcement activities to be integrated in the current Philippines Forest Information System



FOREST GOVERNANCE

Paper tracking system of all timber and non-timber forest products assuring verifiable legality of origin

Bar-coded computer generated Certificate of Timber Origin / Certificate of Timber Origin

Installation of Closed Circuit Television (CCTVs) in all wood processing plants (e.g. sawmills, veneer and plywood plants) nationwide, 2012,

Installation of CTVs in all 117 authorized Forest Products Monitoring Stations nationwide



FOREST GOVERNANCE

Adopted the third party monitoring *procedures* in 2011 using the Philippines' Criteria & Indicators' with audit systems developed with ITTO

Finalizing implementing rules & regulations (guidelines) on the *accreditation* of third party assessment & monitoring organizations

Forest certification widely discussed & strongly considered



CHALLENGES & FOREST GOVERNANCE

New law Executive Order No. 23 (February 2011) banning the harvesting of trees in all natural residual forest nationwide

Pushing hard & lobbying for the passage of a new law on Sustainable Forest Management Act that would replace the old and obsolete Revised Forestry Code of the Philippines (1975)



CHALLENGES & FOREST GOVERNANCE

Adopt electronic timber tracking system soonest

Convince our government to go into e-timber tracking system after completion of our current timber tracking procedures

Exact cost needed to adopt e-timber tracking including maintenance

Connect electronically our 178 field offices nationwide including provision of logistics i.e. hardware, software & maintenance support

Harnessing Forestry Science for Sustainable Development



THANK YOU

SALAMAT