DEFINING & CALCULATING TRACEABILITY TO MILL







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a. Definition and Benefit of Traceability (Ketelusuran)



Traceability is a method used to trace back, follow, understand and track the source of raw materials (FFB) of end product (CPO, CPKO, PK and other refined products). (Sources : Peraturan Menteri Pertanian No 11 Tahun 2015)



b. Traceability Flow – in General





C. Definition and Requirement of Traceability to Palm Oil Mill

- Traceability Level : Refinery, Bulking and Per Batch System
- Scope : Palm Oil Mill Producing CPO and PK

Traceable to Mill				
Mandatory		Optional		
Information	Company Name	Parent Group		
required of mills	 Mill name Mill Address and Location 	 Certification Status (RSPO/ISPO/ISCC) 		
	 Verified Latitude and Longitude coordinates Volume Supply to Facility 			

Traceable to Mill (Refinery/Bulking/Batch level) is when the mill suppliers of CPO and/or CPKO product received by Refinery/Bulking can be traced and the mill's mandatory information, such as company's name, mill's name, mill's address, GPS coordinate (latitude and longitude), CPO and PK volume/quantity (tonnage) are available and verified.



d. How to Calculate Traceability to Palm Oil Mill :

1. Mill Numeric Calculation method

Mill Numeric Calculation Method is a verification process using palm oil mill's Company Name, Mill Name, Address/Location, GPS coordinates.

It can be declare 'traceable' once the all mandatory information are Verified

The Mill Numeric Calculation method should be applied as a minimum approach due to mill volume data being difficult to obtain in many cases.

Refinery/Bulking (%) Traceability to Mill = <u>Total of 'traceable' supplying mills</u> Total number of supplying mills



1. Mill Numeric Calculation method (Continued....)

Refinery1/Bulking (%) Traceability to Mill=Total of 'traceable' supplying millsTotal number of supplying mills

Mills supplying refinery/Bulking	Minimum mill info obtained? Traceable/Untraceable
Mill A	Yes
Mill B	Yes
Mill C	Yes
Mill D	No
Mill E	No
Total Mills: 5	Total Traceable: 3

Refinery1/Bulking Traceability to Mill (Numeric Basis) = 3/5 = 60%



d. How to Calculate Traceability to Palm Oil Mill :

2. Mill Volume Calculation method

Mill Volume Calculation Method is a verification process using combination of Numeric calculation and volume. Once both are verified it can be declare traceable.

Refinery1/Bulking (%) Traceability to Mill= <u>Total 'traceable' Volume Supplied</u> Total Volume Supplied



2. Mill Volume Calculation method (Continued...)

Refinery1/Bulking (%) Traceability to Mill= Total 'traceable' Volume Supplied
Total number of Volume Supplied

Mills supplying refinery	Minimum mill info obtained? Traceable/Untraceable	Volume Supplied
Mill A	Yes	100
Mill B	Yes	200
Mill C	Yes	110
Mill D	No	50
Mill E	No	100
Total Mills: 5 (560)	Total Traceable: 3 (410)	Total Volume : 560

Refinery1/Bulking Traceability to Mill (Volume Basis) = 410/560 = 73%





d. How to Calculate Traceability to Palm Oil Mill

3. Mill Per Batch System Calculation Method

Mill Per Batch System Calculation Method is a verification process based on the shipment of CPO, PK and other palm oil product by Vessel.

At the level of Shipment, it is ' traceable ' to the mill if the CPO and / or CPKO loaded by Vessel / Ship can be traced which mill suppliers it came from and the related information on TDD which is mandatory fulfilled and verified.

This calculation is performed by using information such as Company Name mill, Mill Name, Address, GPS Coordinates and Volume verified or traceable. Percentage of traceability is calculated by dividing the total volume of the mill which is traceable with the total volume of the mill which supplies.

Calculation of traceability at the shipment level is calculated to palm oil product (CPO, CPKO and / or derivative product) which contained in the Vessel, that means in the case of shipment loading from the refinery / bulking or more in the particular vessel then the traceability calculated on the Vessel / boat not to Refinery / Bulking.



3. Mill Per Batch System Calculation Method (Continued...)

Shipment (%) Traceability to Mill= Total 'traceable' Volume Supplied Total number of Volume Supplied _____

Mills supplying	Traceable (Yes)/Untraceable	
Refinery/Bulking	(No)	
Mill A	Yes	100
Mill B	Yes	200
Mill C	Yes	110
Mill D	No	50
Mill E	No	100
Total Mills: 5	Total Traceable: 3	Total Volume : 560

Shipment Traceability to Mill (Volume Basis) = 410/560 = 73%





Thank you

References

Defining & Calculating Traceability Document Ver. 01 June 2015. Rob M. William, The Forest Trust.

Regulation of Ministry of Agriculture No. 98 Year 2013 on Plantation License Guidelines.

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