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CIRCULATION

This work instruction is issued on controlled basis to:

S/NO.	DESIGNATION	COPY NUMBER
1	Executive Director	02
2	Director, Operations	03
3	Manager, Grading and Inspection	04
4	Management Representative (MR)	09
5	Area Manager, Sunyani	10
6	Area Manager, Kumasi	11
7	Area Manager, Takoradi	12
8	Area Manager, Tema	13
9	Area Manager, Final Inspection, Takoradi	14
10	Area Manager, Jasikan	15
11	Area Manager, Akim Oda	16
12	Area Manager, Techiman	17
13	Area Manager, Sefwi Awaso	18
14	Area Manager, Samreboi	19
15	Area Manager, Bolgatanga	20
16	Area Manager, Assin Fosu	21
17	Area Manager, Accra	22
18	Deputy Management Representative	23

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1 PURPOSE

The purpose of this Work Instruction is to provide guidelines for inspection and grading of round log at Checkpoint and Log Yards.

2. SCOPE

The Scope of application of this document is GI work instruction for round log inspection, measurement, volume calculation and grading.

3 RESPONSIBILITY

Director of Operations (DO) is responsible for setting out criteria for round logs inspection and grading.

Manager, Grading and Inspection (MGI) is responsible for development of work instructions and supervising its implementation

Area Manager (AM) is responsible for supervising field application of this Work Instruction Inspector of Timber (IT) is responsible for carrying out inspection and grading of logs.

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4. INSTRUCTION

Cl/ No	Та	nsk	Respon sibility	Related Documents
4.0	TOOLS REQUIRED			
	Steel tape	Linen tape		
	Utility Knife	Magnifying lens		
	Timber crayon	Ladder		
	Calculator			
	DOCUMENTS REQUIRED			
	Timber Reckoner	Species Identification Manual		
	Log Register	Field Notebook Embargo Forms		
	Log Re-measurement and Con	veyance Certificate		
	Clip Board	•		
4.1	Step No. 1			
	Collect and inspect the following documents	ments from the driver of the	IT	
	vehicle conveying the logs.	1		
	a. Property Mark Holder's Waybill;b. Four (4) copies (not photocopies) of Forestry Commission			
	Log Measurement and Conve			
	PLMCC	yance cerameate, haveen		
	c. (Two copies in the case of Log	Transfer Certificate)		
4.2	Step No.2			
	Check the above mentioned documents			
•	 a. Check to ensure the waybill is day holder's authorized representative 			
	b. Check to ensure the LMCC/LTC		IT	
	has been duly filled, signed and			
	official of the Forest District/TID			
	expired.			
	c. Check to ensure that vehicle			
	driver's name as given tally wi Way bill and LMCC/LTC/PLM	1		LMCC/LTC/
	•			PLMCC
	d. Information on waybill and LMCC/LTC/PLMCC tallies with waybill.			
	NB. Issue an embargo form under the following condition:			
	Falsification, alterations or ex LMCC/LTC/PLMCC;	epiration of waybill and or		

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	~		TO	T
4.3	Step No.3		IT	
a.	Check to ensure that both ends of each log are properly marked with			
	white waterproof paint (not chalk/crayon)			
	Check to ensure log markings at both ends tally with the information on			
b.	the LMCC/LTC and Waybill:	OFE DEGERAGE		
	ON-RESERVE	OFF-RESERVE		
	i. Property Mark	Property Mark		
	ii. Locality Mark	Locality Mark		
	iii. Reserve Code	Stock Number		
	iv. Stock Number	Species Code		
	v. Compartment Number	Tree Number		
	vi. Species Code	Log Number		
	vii. Tree Number and			
	viii. Log Number			
	(Plantation Logs do not have the abo			
	NB. Issue an embargo form under	the following conditions:		
	a. Improperly marked log(s);	mant not talking with information		
		ment not tallying with information		
1.1	on waybill and or LMCC/LT	С.		
4.4 i.	Step No.4			
1.	Identify/Verify timber species			
	Identify timber species and ensure it tally with information on waybill and LMCC/ LTC/PLMCC			Species Identification
				Manual
				Ivianuai
	NB. Issue an embargo form under	the following conditions:		
	a. Misnaming of timber specie	es;		
4.5	Step No. 5			
	Measure butt and tapering ends			
	i. At the butt end of log, locat			
		nortest diameter (cm) through the		
	imaginary centre using stee			
	· · · · · · · · · · · · · · · · · · ·	this point as the true <i>centre</i> ., e.g.		
	66.90cm/ $2 = 33.45$ cm			
		whole centimetre; e.g. 66.90cm is		
	recorded as 66cm			
		endicular passing through the true		
	centre determined, and r	ecord as Db2 to the last whole		
	centimetre. E.g. 85.70cm is	s recorded as 85cm.		
	vi. Determine the average of D	b1 and Db2 ie (Db1+Db2)/2		
	as Db and record to the last			
	whole centimetre ie (66cm	+85)/2=75.5=75cm		
	vi. Repeat i)- v) at the tapering	end of log as Dt1 and Dt2		
	vii. Determine the average of I	Ot1 and Dt2 ie (Dt1+Dt2)/2 as Dt		

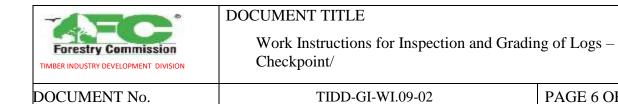


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	and record to the last whole centimetre.	
viii.	Using linen tape, measure length (L) of log in meters between	
	two ends and at two opposite sides and record the shorter	
	distance to the last whole 10cm E.g. 9.99 M is recorded as 9.90	
	M;	
ix.	Write length of log at one of the two ends and draw circle around	
	it.	
х.	Check whether diameters and lengths measurements tally with	
NB.	waybill and LMCC/LTC.	
ND.		
1.	Issue Re-Measurement Log Measurement and	
	Conveyance Certificate (RLMCC) Under The	
	Following Conditions:	
	a. Measured length varies from LMCC/LTC length by ± 20cm. Or	
	b. Measured average diameter of Db or Dt exceeds	
	LMCC/LTC average by ± 3-4 cm.	
	ENTECTIFIC average by 2.5 Tenn.	
2.	Issue An Embargo Form Under The Following	
	Conditions:	
a.	Measured length measurement varies by ± 30cm	
	Measured average diameter(s) of Dt or Db varies by \pm 5 cm of	
	LMCC/LTC diameter	
Step	No. 6 - Calculate Volume	
i.	Using log volume table (Ready Reckoner), find Db and Dt on	
	the vertical and horizontal axis respectively.	
ii. iii.	Find the value in the intersection of Db and Dt. Calculate volume by multiplying value in (ii) by the length (L).	
iv.	Check whether calculated volumes tally with waybill and	Ready Reckoner
	LMCC/LTC	
NB. Is	sue an embargo form under the following condition:	
Volun	ne obtained exceeds volume in LMCC/LTC	
Step		
How	to issue Embargo Form or RLMCC	
i.	Collect original LMCC/LTC/PLMCC	
ii.	Fill Embargo form or RLMMC	
iii.	Hand over Original and Triplicate copies to client and retain	
	quadruplicate as book copy	
iv.	Immediately submit duplicate and LMCC/LTC/PLMCC/	
	RLMCC to AM for onward submission to GIM.	



Step	8	
i.	Identify defects and grade all logs on the truck using the Ghana Standards for logs,	
ii.	Record defects and grade on the four (4) copies of the LMCC/PLMCC	GS 1190:2018
	(For LTC compare determined defects and grade with same in the GWTS)	
Step 9	9	
Valid	ate LMCC/LTC/PLMCC as follows:	
i.	Validate the logs in transport model of the GWTS	
ii.	Stamp Way-bill as" INSPECTED" where verifications are confirmed	
iii.	Complete TIDD section of the 4 copies of the LMCC/PLMCC and stamp "PASSED FOR MILLING" ((Two copies in the case of Log Transfer Certificate)	
iv.	Detach and return duplicate and triplicate copies; to Area Manager (AM) and hand over original and quadruplicate to the bearer.	
v.	Return duplicate to AM for onward submission to MGI and duplicate to FSD	
	(In the case of LTC, give the original copy to the bearer and submit duplicate to AM)	
Step		
Recor	rd details of inspection into log register.	

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5. **REFERENCE**

Ghana Standard for Grading Round Logs Timbers Species Identification Manual of Ghana

TIDD-GI-P6.2-01 Procedure for rules of access and access to facilities and equipment

TIDD-GI-P7.4-01 Procedure for preparation and submission of inspection report/certification.

Tropical Round Logs: Standard Specifications and Grading Rules.(GS 1190:2018)