Public Summary Website: www.shinyang.com.my Document Date: 10th April 2019 Danum FMU T-3342 Person In Charge: Mr Andy Wong Ko Hock, Forest Managger & SY FMC Advisor Address :	Shin Yang Industries (Btu) Sdn Bnd			
Document Date: Name Of FMU: Danum FMU T-3342 Person In Charge: Mr. Andy Wong Ko Hock, Forest Manager & SY FMC Advisor Address: Lot 515, Jln. Datuk Edward Jeli, Plasau Industrial Estate, P.O.Box 1599, 98008 Miri, Sarawak, Malaysia		Danum Forest Management Unit (T-3342)		
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(INA) Polated to HoPa. Donum EMILT 2242 is partially located within the region of which is one of the partial area of	(III) Boundaries	 a. Sg. Danum, cut-lines and tributaries of Sg. Danu b. The Malaysia/ Indonesia International Boundary c. Sg. Bungau, Sg. Kajang and cut-lines to the So 	um and sg. Plieran to the north ; to the east	
(IV) Related to nods Danton Figor 1-3342 is partially located within the region of which is one of the portion area of	(IV) Related to HoBs	Danum FMU T-3342 is partially located within the region	on of which is one of the portion area of	
the proposed HoB which is, part of Danum Protected Forest, part of Linau Protected Forest §	, ,			

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Forest Manager & SY FMC Advisor

Part of Balui Protected Forests. The coverage area by respective PFEs within the Danum FMU are as below.

Protected Forest (PF)	Total of Area (ha) in Danum FMU	Est. Coverage within HoB, ha(s) & (%)	
Balui PF	28,441	- (Nil)	
Linau PF	117,547	72,238.4 (61%)	
Danum PF	54,395	54,394.3 (100%)	
Total Area	200,383	126,632.7 (63%)	

In connection to HoB, 63% of the total area of Danum FMU T-3342 are located within the HoB area and the type of forest are Mixed- Dipterocarp Forest. Hence, the management of Danum FMU is to ensure to have a proper FMP to ensure the integrity of the forest values within the Protected Forest are being maintained.

(V) Forest Condition Function Zoning

a. Protected zone

- 1. The protection is more related to the HCVs/ HCVF attributes;
- 2. Area of over 35° slope (Terrain IV);
- 3. Watershed protection or the conservation of plant and wildlife habitat will be designated as protected zone:
- Water catchment at coupe 5AR;
- 5. 1 km International Boundaries Buffer Zone at south east part;
- 6. 4 Salt Licks and 1 nesting areas;
- 7. Shifting Algriculture & cultural sites of 2 Communities, Long Lidem & Long Tanyit;
- 8. The protection area within summed up as 19,002 ha which covered 9.48% of the Danum FMU area.
- b. Production area
 - 1. The estimate area permitted to uses for timber production is approximately 152,605 ha (76.15% of the total area).
- c. Community Area
 - 1. FMU is free from any gazette NCR lands;
 - 2. Through the consultation with the communities, about 895 ha(s) of the land along Sg. Linau and Sg. Kajang, within Coupe 5AR and 25AR are utilized by the local communities which has been preserved for shifting cultivation (SA), this area will be preserved for extraction of fire woods and non-timber forest product (e.g. rattan lentik, rattan segak & bamboo, etc) for own use and hunting for food dependence; and
 - 3. There are 3 burials ground within the Danum FMU which belong to Long Lidem, Long Tanyit and Long Kajang. For people from Long Abit, their burial ground was located at the downstream of Sg. Linau, while for Long Lidem is located about 1km upstream of Sg. Kajang from the longhouse. [MC&I 8.2 e]

(VI) Management Objectives

- Danum FMU T-3342 is to have a multiple-use forest for economic, social and environmental purposes, while ensuring that the productive capacity of the forests for both goods and services is maintained and/or enhanced;
- b. To sustain production and revenue of high value timber based on an annual allowable cut;

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		T " " " " " " " " " " " " " " " " " " "		Forest Manager & SY FMC Advisor
	0			ventory (CFI) and ensure rate of harvest
		shall not greater than estimated regrow		
	10			n the Annual Harvesting Coupe or Annual
		Cutting Cycle (ha/ yr.)= 6,098 ha;	sea on Net r	Harvestable Production Area divided by
	6		na the nlan ne	riod, in areas where potential commercial
		species are present for the purpose	of regenera	tion and enhancement of their growth
		performance to ensure sustainability in		tion and emiancement of their growth
	f.	To ensure available of DF circular 6/99		e strictly complied:
	g	To adhere strictly to Reduce Impact Lo		
	10			or ecological significance through the
				t will be remained undisturbed/ buffered;
	i.			the stakeholders e.g. workers and local
		community within the FMU area through		
	j.	To provide a safety environment to the	staffs as well	as their family ; &
	k. To respect the right of the local community and workers;			
(VII) Forest Resources	a.	FMU is hill mixed-Dipterocarp forest ((MDF), it cons	ists trees of the family Dipterocarpaceae,
& Forest		an important source of timber e.g. M	eranti (Shore	a spp.), Selangan Batu (Shorea spp.),
Research		Keruing (Dipterocarpus spp.), Kapur (D	Pryobalanops	spp.) and Mersawa (Anisoptera spp.) in
				forest. Meanwhile, mid-storey dominated
		by small species such as Asam (Magifera spp.), Bintangor Putih (Calophyllum spp.),		
				onandra spp.) and Ubah (Eugenia spp.).
			eneration or la	arger species thickly dominate the lower
	h	storey;	the only Tate	Illy Bustonted Blants
		Ensurai (Dipterocarpus oblongifolius) is		
	0.	There are twelve (12) Protected P	in the ILICN F	Red List of Threatened Species global,
		Sarawak Plant Red List and other publis		
	d			(30cm dbh and above) is averaged at
	"			(35.6%) and 60 cm above (8.2%). [MC&I
		8.2a]	Trom coom ((0.270). [MOCK
	e.	Non-timber product such as rattan, ba	amboo, palm	and wild vegetable and fruits are still
		available at the FMU and	, 1	g
	f.	FMU has the Total of ERT species of fa	auna with 114	species of fauna consist of 19
		mammals, 90 aves, four (4) reptiles and		
/III) Yield a. The diameter-limit cutting are ≥ 50 cm dbh and above for Dipterocarp species AND ≥		e for Dipterocarp species AND ≥ 45cm		
Regulation for non-Dipterocarp species and to ensure that all species listed as Totally Protected un				
		the Wild Life Protection Ordinance 1998		
	b.	The Danum FMU involves the select		
		accordance with the term and conditions		
	C.	The area will be worked over a period of		
	d.	Coupe Sequences justification of forest r	research, fore	est manager has elected the South West
		part of the Danum FMU to be the initial		
		will gradually move to the middle part of	the FMU and	lastly to the eastern part.
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			Shin Yang Industries (Btu) So	n Rnd	
			num Forest Management Unit		
		Da	Public Summary	. (1-33-2)	
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10	Aprii ,2013		Danum No 1-3342	Forest Manager & SY FMC Advisor	
/IV)	Rate of Annual	a The average	of harvostable violds within the	research psps is 51.87 m ³ ha-1, derived from high	
(IX)	Harvest		ž.		
	riaivest	density and low density of productivity areas (fair representative of PSPs)			
		1	b. Economy cut is initially set at 22.0 m³ha-¹ is , then it will be initially set as net volumes for		
		, ,	verifying the AAC; Allowable Cutting Area (ACA) in ha(s) = 6,098 ha; AND		
				uction limit for the initial planning of this FMP .	
/Y)	Harvesting			tting, re-entry timber harvesting of all hill forest in	
(X)	Techniques	1	with the term and conditions of	- ,	
	recrimques	# 1 to 1000000000000000000000000000000000		npact logging (RIL) for ground based harvesting	
		The same of the sa		are used to minimize impact to the residual stand	
				s to ensure that the proper planning of roads and	
		The second secon	peration is of utmost importance		
				stwork will enable forest harvesting operation in	
				0 1	
		The state of the s	Danum FMU area to be carried out in a proper and economical way during the whole duration of the licence and results in long term economic benefits for the licence		
			of the licence and results in long term economic benefits for the licensee. d. The RILs systems adopted by FMU practicing the Reduced impact logging (RIL) which		
			involves pre-harvesting, harvesting and post harvesting planning and related activities.		
			e. The Monitoring and Control within the FMU during the pre-harvesting, harvesting and post		
			harvesting is executed by Forestry Agency and FMU management team will follow the		
			guidelines of pre-felling and post harvesting activities, quarterly EMR monitoring and SIA		
		monitoring.			
(XI) F	orest Growth		opted into the monitoring forest	growth on :	
, ,					
			, or the death of trees ; a	A set in the second sec	
		d. Ingrowth I, o	d. Ingrowth I, or the appearance of new trees in measurable size classes from regeneration; and		
		e. Simulation m	0. 10. 11. 11. 11. 11. 11. 11. 11. 11.		
		f. Average Basal Area for the 1st Assessment for 15 research plots is 12.897 m ² ha ⁻¹ .			
		g. For the 1st FMP, MAI is defined base on the literature study and the FMU will continue monitor			
		growth with i	nterval 5 years during the revise	e of the FMP.	
(XII)	Environmental	a. The EIA of Danum FMU (T-3342) under terms and approval condition of approval in			
	sessment &	accordance with the provisions of Natural Resources and Environment Ordinance			
Qua	ality Monitoring		1993(Cap.84- Laws of Sarawak) and Natural Resources & Environment (Prescribed Activities)		
			Order, 1994, has been approved by the controller of Environment Quality Sarawak (EQS) on		
		3 rd December , 2015;			
	b. The FMU is conducting quarterly Environmental Monitoring Report (EMR) to monitor the state				
		of General Terms & Conditions and mitigations as required in the approved EIA report; and			
		EQM of Danum FMU is corporate into quarterly EMR;			
		 To establish environmental baseline and trend; 			
		To inform policy design and decision making and			
		To ensure compliance with environmental regulation.			
	c. The environmental baseline of water quality of Danum FMU is Compliance Limits are				
			d at Class IIB of the National Wa	ater Quality Standards of Malaysia (NWQSM).	
		[MC&I 8.2c]		Λ	

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(XIII) High Conservation Value(s)

- a. Six major (6) values listed in the HCVF Malaysia Toolkit (2009) are present in FMU. A significant number of HCV biodiversity species are present in the study area and its surroundings.
- b. There were also signs of critically endangered (CR), endangered (EN), vulnerable (VU) and nearly threatened (NT) flora and fauna (HCV 1.2) observed during the assessment. A total of 114 fauna and 18 flora species were found to be an ERT species.
- c. There are 10 endemic fauna and 66 flora species found in the study sites (HCV 1.3).
- d. Areas for critical temporal use were also identified to be present (HCV 1.4).
- e. The area is an important linkage between other larger forest landscape complexes as it is surrounded by other logging concession, Totally Protected Areas and Forest Management Unit (HCV 2).
- f. Part of the FMU was inundated due to the impoundment of Murum dam, as a result the FMU become an important refuge which provide food source for wildlife in vicinity of the FMU(HCV 3).
- g. The landscape of Danum FMU consist of undulating and steep areas that classified as Terrain Class IV (HCV 4.1).
- h. River buffer prohibiting logging operations is required for service of nature (HCV 4.2), and the size of the buffer depends on the size of the river or stream, in order to control soil erosion.
- i. Furthermore, the entire FMU is within HoB initiatives site, which linking the TPA networks between Sarawak, Sabah and trans boundary networks in Brunei and Kalimantan (HCV 4.3).
- j. Result of the assessment for social and cultural values suggested HCV 5 is present as the communities within or adjacent to the FMU depend on hunting, fishing and collecting jungle produce.
- k. HCV 6 is present as three (3) burial grounds found within the Danum FMU.
- I. Patrolling and monitoring on the HCV will be conducted in the interval once a year by the monitoring crew through the designed internal audit to check the boundary & encroachment AND also the wildlife monitoring through Camera Trap and Transect trails monitoring.
 IMC&I 9.3.21

(XIV) Protection of Rare , Threatened and Endangered Species.

- a. FMU will continual monitor and observe changes in Flora and Fauna ,especially ERT Species by:
 - 1. Internally appointed 10 rangers in periodical patrolling the FMUs area:
 - 2. The DF Circular 6/99 should be strictly complying with especially on hunting activity in the license area. Workers and adjacent communities are to be informed of this policy;
 - 3. New wildlife posters (Color copy) and written instruction from the Managing Director on the 'No hunting' policies should be made available on site;
 - 4. Regular patrols should be conducted to discourage and apprehend offenders. Signage and fencing can be erected at certain areas especially at the entry points to control the movement of unauthorized and illegal entries;
 - To avoid road-kills, the management prescription should take into consideration to initiate speed limits for logging truck and company vehicles especially inside the logging road. This initiative also can contribute in reducing logging road accidents in the area;
 - 6. Community Education, Participation and Awareness (CEPA) program by the management is highly recommended. The management can engaged relevant agencies or organization with the program structures; and
 - 7. Appoint the Honorary Wildlife Ranger to monitor the Wildlife Conservation works.

Shin Yang Industries (Btu) Sdn Bnd			
Danum Forest Management Unit (T-3342)			
Public Summary			
	Website: www.shinyang.com.m		
Document Date:	Name Of FMU:	Person In Charge:	
10 th April ,2019	Danum FMU T-3342	Mr Andy Wong Ko Hock,	
		Forest Manager & SY FMC Advisor	
(XV) Socio			
Economic	Long Kajang was located inside the FMU, while		
Conditions	b. The main communities living here are Penan a		
	a population of 587 people, averaging 5 persor		
	c. A "Sustainable Forest Management Liaison Co	ommittee" has been established with numbers	
	consisting of FMU ;		
	d. Local community as a "Corporate Social Resp		
	individual longhouse and the regional landscap		
	e. There is no legal case filed by any local commu		
(XVI) Safety &	a. As forestry work even within a single FMU espe		
Health	is widely scattered with frequent changing wor	•	
	forest workers at the FMU sites are highly en		
	occupation safety demand great effort by all le	evels of management and self-reliance of the	
	workers.		
	b. The FMU has committed to ensure safety at working place through the safety policy written		
	and signed by the General Manager on 14/03/2017. The FMU collaborates closely with SFC		
	and Sarawak Timber Association (STA) in their design and implementation of training		
	programs for job specific skills, health and safe	ety and venue of vocational training in the field	
	of forestry and forestry industry		
(XVII) Social Impact	The SIA has covered introduction of affected com		
Assessment	introduction, the identification of social impacts of		
	mitigation and enhancement measures and moni		
	benefits while having the continuous relations		
	Additionally, monitoring and enhancement measur		
SYSB SIA practitioner monitoring members and SYSB surveyor team. As for the conclusion part			
of SIA, the overall satisfaction of the communities to the FMU is fair. However, the FMU has to			
continuous monitoring the satisfaction of the communities through the compliance monitoring and			
parameter monitoring [MC&I 8.2b].			
	XVIII) Budget In order to achieve the forest management certification, the management of Danum FMU has		
Allocation	Allocation planned and allocated total operations cost amounting RM 385,321,000 (estimation) for the Forest		
0/0/0 B I !! !	Management Certification for the period 2018 -202	(10 years planning). [INIC & 1 8.2 0]	
(XIX) Publish	http://www.shinyang.com.my		
Website	CALD OF CLIMANA DV FOD DANIEM EMIL		

END OF SUMMARY FOR DANUM FMU T-3342

Prepared by,	Verified by,	Approved by,
3	James .	- James De
Mr. Lau Keiw Hieng (Assistant Certification In Charge) Date :10/4/2019	Mr. Andy Wong Ko Hock (General Manager) Date:10/4/2019	Mr. Mr. James Ling Lu Kiong (Group Managing Director) Date:11/4/2019