EXECUTIVE SUMMARY

Project Name	Forest Resource Utilization and Plantation Development Project under Integrated Forest Management Agreement (IFMA) Numbered 18-2007
Project Location	The IFMA No. 18-2007 covering the Municipalities of Esperanza, Lebak, Kalamansig, Bagumbayan, and Senator Ninoy Aquino, all in the Province of Sultan Kudarat, Region XII SOCCSKSARGEN.
Nature of Project	Harvesting operations, plantation development and forest protection and maintenance activities
Size / Scale	Approved IFMA area covering a total of Twenty Nine Thousand Eighty Five (29,085) hectares
Rationale	*The IFMA 18-2007 original area of 1,555 hectares was approved in the year 2007 but pending its release, until the M&S Company secured the Free Prior Informed Consent (FPIC) from National Commission on Indigenous People (NCIP). Then, the approved Certificate of Pre-condition was issued by NCIP Main Office last April 13, 2009. Thus, DENR officially released the approved IFMA License denominated as IFMA No. 18-2007 last May 27, 2009. *Since the IFMA 18-2007 with 1,555 hectares are accessible and contiguous to Silvicultural Industries, Inc. (SII) under IFMA No. 022 with 27,530 hectares, the MSCI management decided to consolidate, merge and integrate the SII IFMA 022 to MSCI IFMA 18-2007 for its effective management, supervision and control of the entire consolidated IFMA area. *On June 17, 2015, the DENR issued the approval of the integration / consolidation of the IFMA 022 into IFMA 18-2007 for better and effective management, supervision and control of the accumulated area of 29,085 hectares The overall objective of this consolidated project is for the company to continuously develop, improve, protect and manage the whole area of 29,085.0 hectares under IFMA No. 18-2007 into a sustainable and productive combination of the natural and plantation forests that will support the requirements for timber and non-timber forest products supply for its affiliated wood processing plant and the local market; and attain ecological balance and efficiently functioning ecosystem by means of sustainable management.

	Present Land Use/Vegetative Cover	Area (has)	Development and Management Strategies	Allocation of area (has)
	Production Residual Forest (PRF	2,116	* Manage as production natural forest where selective timber harvesting will be implemented pursuant to DAO 99-53 but subject to the lifting of E.O 23 and other forestry laws and regulations. * Maintain as production natural forest.	2,116
	Degraded Residual Forest (DRF)	12,038	*Develop and manage into industrial forest plantation based on the exemption of E.O 23.	9,823
			* develop as protection or buffer zone forest.	2,215.00
	Established Plantation	10,442	* Continue protecting and managing as forest trees plantation	10,442
	Cultivated/ Agroforestry Areas	1,043	* Continue protecting and managing as forest tree plantation/ fruit tree plantation and Other High Valued Crops plantation such as, rubber trees, oil palm or coffee tree plantations.	1,043
	Open / Brush Land	2,713	* Maintain as productive cultivated /agro-forestry area. * Develop into mix fruit tree plantation and palm oil or rubber trees plantation.	2,713
	Resettlement Area	733	* Manage in place and resettled forest occupants.	733
	TOTAL	29,085		29,085
Components	 Harvesting of M 	latured For	on / Maintenance est Trees Plantation esidual Forest based on item	2.2 of E.O

	 Selective Logging System and Enrichment Planting or Timber Stand Improvement for Production Residual Forest (Once E.O 23 is lifted) Nursery development Plantation Development Forest Protection and Maintenance Infrastructures development Community Development
Process /	The general strategy for the whole project is to fully utilize the productive
Technology	potential of the IFMA area to produce wood raw materials and agricultural food crops, with the least adverse effects on environmental stability and generate optimum socio-economic benefit for the LGUs, the company, the IFMA community particularly the Indigenous Peoples, and other forest occupants in a sustainable manner possible. The logs produced from the area will be processed in the company's existing wood processing plant in Barangay Recodo, Zamboanga City.
	The company will use a manual labor and / or mechanized logging activities using carabao logging or wrecker / skyline depending the status of operations, or as the need arises. While silviculture and thinning will be undertaken to ensure quality tree growth.
Products	Timber
Major Waste Streams, Types & Estimated Generation Rate	Logging residue (slash, stumps) – Approx . 50% of biomass
Manpower	Operations Phase – Male 482; Female 123
Requirement	Abandonment/Decommissioning Phase – Male 188; Female 5
Project Investment Cost	Php 6.5 Billion
Project Duration	Remaining 14 Years of 25-year IFMA: CY 2019 to CY 2032
and Schedule	Operations Life: 25 years and renewable for another 25 years thereafter
	IFMA Expiry: December 31, 2032

BRIEF SUMMARY OF EIA PROCESS

EIA Team

Name	Expertise	Module Assigned	DRRCC- Trained
Rodrigo B. Mallonga	Environmental Planning, civil engineering, water management	All	Yes
Corazon M. Baylon	Socio-Economics	People	Yes
Hannah R. Molde	Industrial engineering	People	No
Raul R. Buñao	Forestry	Terrestrial Flora	Yes
Zita M. Rosales	Environmental Management	All	Yes

EIA Study Area

The study area was focused on the perceived direct impact areas of consolidated IFMA 18-2007 covering the Municipality of Esperanza, Lebak, Kalamansig, Senator Ninoy Aquino, Bagumbayan, and Esperanza, all in the Province of Sultan Kudarat. Specific locations for the IFMA and sampling stations for each module are identified and discussed in the succeeding sections.

EIA Study Schedule and Methodology

The EIA study team conducted both primary and secondary data collection for the period August 2018 to March 2019.

Activity	Period Covered	Weather/Season
Site Inspection	August 26, 2018	Rainy
Terrestrial Flora and Fauna	August 27 – 31, 2018	Rainy
Assessment		
Socio-economic & Cultural research	August 27 – 31, 2018	Rainy
Public Scoping	August 30, 2018	Rainy
Public Participation / IEC	March 26-30, 2019	Sunny
Air Quality Assessment	April 26, 2019	Sunny
Water Quality Assessment	October 24, 2018	Sunny
-	May 2019	Rainy
Draft of EIS report	September 2018 to September 2019	

SUMMARY OF PUBLIC PARTICIPATION (IEC/FGD/PUBLIC SCOPING)

Location	Stakeholder/Community	Discussed / Resolved Issues / Concern
Esperanza	Tribal Leader, Legodon	*M&S will only cut trees within IFMA area *Girdling of M&S Plantation trees made by IP's to give direct sunlight to their coffee trees underneath was properly accounted and informed to concerned agency and
	Asst. Municipal IFMR	IPs will be prioritized for employment for manual skidding in harvesting operations
	Brgy. Kagawad Marquez	There will be no compensation for coffees planted inside IFMA area planted by IP's without permission
	Municipal LGU representative	There is no threat of flooding as there is no harvesting operation in natural protection forests.
	Tibal Leader – Brgy Marquez	*Thankful to M&S for the farming supplies, basket and plants, titled area for settlement and farming and housing provision *provide resettlement initially from 7 families which grows to 25 IP
Sen Ninoy Aquino	Brgy Kuden –Kagawad for Environment School In-charge	*Brgy endorsement / resolution with list of names whose under Committee on environment of Brgy Kuden to gain entry & exit permit in passing through the IFMA area . *Submit requisition with barangay endorsement for school
	Tuga Legal, IP from Tumangan	*M&S already had approved FPIC under IFMA 18-2007
	Brgy Chairman	*Collaboration activity on the road rehab and maintenance

Bagumbayan	Brgy Sto. Nino, IP Representative, Timboy Sandigan	*M&S will no longer allowed IP's to plant coffee trees inside the IFMA area otherwise, it will be a precedent on girdling of trees by IPs to give more way for direct sunlight to their coffee trees. *M&S will provide planting materials but IPs should plant it outside the IFMA area
Lebak	Reynaldo Ostan, from religious sector	*As agreed, they can secure first cutting permit before the M&S will buy the cut logs from their previous community reforestation project.
Kalamansig	Submitted request for IEC/FGD/Public scoping	*no action / denied request

SUMMARY OF BASELINE CHARACTERIZATION

The Land	The province of Sultan Kudarat's terrain is diverse with extensive coast, plains and valleys, hills and mountains.							
	hectares or 48.4% are alienable and disporting timberlands. (Map 2-1). The consolidated IFN within the timberlands area.	The province has a total land area of 513,530 hectares of which 248,288 hectares or 48.4% are alienable and disposable while the rest are timberlands. (Map 2-1). The consolidated IFMA Project Area lies entirely within the timberlands area. The existing vegetation within the IFMA area are as follows:						
	Vegetative Cover	Present Area						
	Production Residual Forest	(in hectares) 2,116						
	Degraded Residual Forest	12,038						
	Established Tree Plantation	10,442						
	Agro-forestry/Cultivated Areas	1,043						
	Open land/brush land	2,713						
	Resettlement Area	733						
	Total	29,085						
The water	The Project Area straddles portions of the Kab Salaman watershed Kabulnan-2 has a drainage area of about 498.8 Salaman River has a drainage area of 8,176 h Sultan Kudarat, 2010) or 81.76 sq.km	89 sq.km. (NIA, 2007) while						

	There are three major river systems running through the IFMA areas: Tran, Salaman, and Kabulnan.
The Air	Based on modified Corona's Climate Classification (1951-2003), the climatic condition in the province of Sultan Kudarat falls under Type III and Type IV climate type. Thus, the IFMA project falls under Type IV. Thus, characterized by rainfall which is more or less evenly distributed throughout the year.
	Based on the average of all weather stations in the Philippines, the mean annual temperatures of the areas in Sultan Kudarat Province with higher altitudes such as those in the Daguma Mountain Range is expected to be lower than those in the plains and valleys with lower altitudes.
The People	The IFMA area is under the political jurisdiction of the municipalities of Esperanza, Senator Ninoy Aquino, Bagumbayan, Lebak and Kalamansig, all in the province of Sultan Kudarat.
	Majority of the inhabitant source of livelihood income comes from farming and fishing. The dialects spoken are mixed such as Ilonggo, Visaya, Teduray, Manobo and Muslim.

SUMMARY OF IMPACT ASSESSMENT AND ENVIRONMENTAL MANAGEMENT PLAN

Proj. Phase/ Envtl Aspect	Envtl Component likely to be Affected	Potential Impact	Options for prevention / mitigation	Cost	Guarante Fee
Pre-Operations					
*Survey & Mapping *Road Rehab & maintenance *Repair and maintenance of existing support facilities	Land	*Erosion *Dilapidation of roads	*No logging operations allowed on highly eroded areas *Highly eroded areas and boundary should be properly marked in the map *frequent road rehab and maintenance *avoid passing through during heavy rainfall		
	Air & noise quality	*Dust generation *Noise pollution	*frequent watering of unpaved roads during dry period		
	People	*Traffic / Transportation safety	*Controlled / scheduled movement to avoid road accidents / traffic occurrence		
Operations					
*Cutting and skidding *Nursery Management	Land	*Solid waste generation	* Implement regular waste collection and disposal system at site. *Implement re-use, reduce and recycle		
*Plantation development		*soil compaction	*concentrate heavy equipment on few tracks as possible		

*Hauling and Transport		Landslide	Installation of appropriate physical barrier (terracing, contour trenching, bund construction) to give the chance the roots to anchor	
	Air & Noise	*Dust generation *Noise pollution	*frequent watering of unpaved roads during dry period *hauling trucks must have canvass or any materials of same kind to cover backloads *use heavy equipment during day time only	
	Water	Water quality degradation	*Prohibit direct disposal of waste to water bodies *continue water conservation measures (protection of buffer zones -40 meters on both sides of rivers and streams)	
	People	Income generation to impact areas Forest Fire	*priority hiring on local inhabitants esp. the IP's *Formulate / implement programs on forest fire prevention and protection	
Post Operations Information for abandonment to DENR and concerned LGU Removal of facility / equipment at site Revegetation of log areas	Land	*Solid waste generation *Log over areas	* Implement regular waste collection and disposal system at site. *Implement re-use, reduce and recycle *should be revegetated with fast growing species	
	Air & Noise	*Dust generation *Noise pollution	*hauling trucks must have canvass or any materials of same kind to cover backloads *use heavy equipment during day time only	

SUMMARY OF ENVIRONMENTAL MONITORING PLAN

Key	Potential	Potential Parameter Sampling & Measurement Plan Lead			Annual	EQP	MT MGT	COST				
Envt'l Aspect	Impact	To be Monitored	Method	Freq	Location	Person	Person Responsible	Est'd cost	Eqpt Ran	ge		
Pre-Operations												
Water Quality	Siltation	TSP	Water sampling for lab analysis	Semi- Annual	*Tran river *Cabulanan River *Salaman River	PCO	In-house monitoring					
Operations												
• Land	Solid Waste	Total solid waste generated	On-site inspection	quarterly	Inside IFMA area	PCO	In-house monitoring					
Water Quality	Siltation	TSP	Water sampling for lab analysis	Annual	*Tran river *Cabulanan River *Salaman River	PCO	In-house monitoring					

Air Quality	Dust / Gas emission	PM 10 and TSP	Ambient Monitoring	Annual	*Bravo area *Plamango Area	PCO	In-house monitoring			
People	Health Profile	Top 5 causes of morbidity / mortality	Key informants interview	Semi- Annual	*Inside IFMA area	PCO	In-house monitoring			
Post Operations/abandonment										
• Land	Solid Waste	Total solid waste generated	On-site inspection	quarterly	Inside IFMA area	PCO	In-house monitoring			
Water Quality	Siltation	TSP	Water sampling for lab analysis	Annual	*Tran river *Cabulanan River *Salaman River	PCO	In-house monitoring			