## New Planting Procedure - Summary of Integrated Management Plan



## **Guidance Notes:**

This summary management plan shall indicate at a minimum but not be limited to the following:

- Key findings of the various assessments (e.g., potential minor environment and/or social risk requiring mitigation actions; total conservation areas).
- Key mitigation and monitoring regime, covering both the environmental and social aspects.
- Evidence of FPIC and key agreements with local communities (if any).
- An action plan describing operational actions consequent to the findings of the various assessments, referencing the grower's relevant operational procedures.
- Designation of the management team and responsible person for the implementation.

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1	SEIA	The key findings of the NPP were that SIPEF had a suite of procedures for management of the company estates. There was an intention to roll these procedures out to the additional blocks				
		The general conclusions from the SEIA assessor are that :				
		From the results of discussions, interviews, observations and review of documents, the following conclusions and recommendations can be made:				
		<ul> <li>Occupational Safety and Health System, related to the procurement, use and monitoring of management of Personal Protective Equipment (PPE), work equipment, equipment for urgent situations, signs and warning signs, emergency exits, as well as completeness of health facilities and medicines. The observation of PT Hijau Daun was that this was not being comprehensively implemented.</li> <li>Fire prevention and management system including training, procurement of tools, and formation of an integrated team with the community ¬</li> </ul>				

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	<ul> <li>Facilities and infrastructure for employee housing</li> <li>Management of domestic waste, toxic and hazardous waste (B3) and liquid waste, including the application of organic fertilizers and chemical fertilizers in the estate. Ensuring these do not leach into rivers. It was often brought up (both by government and the community) that workers' housing was on riverbanks and the workers threw rubbish in the river. This is not true – the workers live an appreciable distance from the river. This incorrect statement needs to be corrected.</li> <li>Socialization to workers about all benefits provided to workers, including employment contracts, in accordance with applicable regulations. This was often mentioned in the interviews – workers do not clearly understand their benefits.</li> <li>Dissemination to the community about the plantation management plan and related opportunities for collaboration with the community.</li> <li>Protection and good management of identified conservation areas. Improving the quality of Conservation Values and maintaining their existence</li> <li>Minimize pollution in rivers so as not to reduce the ecosystem services provided by these rivers nor spoil the quality of the habitats.</li> <li>Reforesting the river buffer in accordance with applicable regulations. This also implies applying chemicals at least 50 m from any water bodies, managing waste properly, and planting erosion preventing plants in the river buffer.</li> <li>Manage liquid waste and solid waste properly, so as not to damage existing conservation values.</li> <li>Forbid workers and the community to catch fish in ways that are not environmentally friendly (e.g electro fishing or poisoning the rivers) Forbid hunting protected wildlife.</li> <li>Make rules together with the community on sustainable river management.</li> <li>Protect existing cultural sites in order to increase their value so that they can benefit the surrounding community.</li> <li>Giving access to the pub</li></ul>
	In the opinion of the assessor, If the company continues to implement FPIC and work carefully with the communities, this conversion can be considered a <b>low risk project</b> . The main areas of risk in this project is clearly being dragged into the issue relating to the 930 ha of plasma which has been planted in areas zoned for forestry.
	Management and monitoring regime The management team consists of :
	- Estates Manager – implement EHS management system on plantation level. Developing

Objective(s)	Action(s)	Timeline	
Ensure implementation of Occupational Safety and Health System	EHS procurement, use and monitoring of management of Personal Protective Equipment (PPE), work equipment, equipment for urgent situations, signs and warning signs, emergency exits, as well as completeness of health facilities and medicines	Already taken place and ongoing	
Ensure implementation of Fire prevention and management system	Training, procurement of fire fighting tools, and formation of an integrated team with the community	Already taken place and ongoing	
Management of domestic waste, toxic and hazardous waste	Controlling the application of organic fertilizers and chemical fertilizers in the estate. Preparing temporary hazardous waste storage, cooperation with licesend hazardous waste transporter, waste management training for worker, prepare waste bins for waste segregation.	Already taken place and ongoing Reporting or 6 monthly basis.	
	Minimize pollution in rivers so as not to reduce the ecosystem services provided by these rivers nor spoil the quality of the habitats.		
Reforesting the river buffer to maintain water quality and mitigate impact from soil erosion	Reforesting the river buffer in accordance with applicable regulations. This also implies applying chemicals at least 50 m from any water bodies, managing waste properly, and planting erosion preventing plants in the river buffer. Make rules together with the community on sustainable river management.	Already taken place and ongoing Reporting or 6 monthly basis	
Protect and maintain conservation areas, including protection of flora and fauna	Map clearly all High Conservation Values Areas which identified on the operational map. This will ensure that damage can be avoided due to plantation activities	Already taken place and ongoing Reporting or	

	Protection and good management of identified conservation areas. Improving the quality of Conservation Values and maintaining their existence Protect existing cultural sites in order to increase their value so that they can benefit the surrounding community. Giving access to the public to visit natural beauty sites (e.g. waterfall and Batu Kuda lookout) while still implementing security protocols. Monitoring of flora and fauna by estate's staff (pellet count, mark-recapture, line transect)	6 monthly basis
Monitoring on community income and livelihood	Support local business for services and goods provision, uphold regulation on minimum wage, use of proportional workforce from local communities, provision of work vacancy for local communities Socialization to workers about all benefits provided to workers, including employment contracts, in accordance with applicable regulations	Already taken place and ongoing. Reporting on 6 monthly basis
Monitoring and manage social unrest	Implementation of FPIC principle, uphold land compensation procedures, avoid coercion and use of force during negotiation process, use of proportional workforce from local communities, provision of work vacancy for local communities, support local education organizations, provision of transparent information, consultation for CSR program build a harmonious relationship with the local government, and other parties such as NGOs and academics	Already taken place and ongoing. Reporting on 6 monthly basis

2	HCV areas and HCS forests	The HCV / HCS assessment has ma cannot be developed. The area sta some steep areas, remaining fores for conservation.	atement is included in Table	e 1. The key findings	were that
		Table 1. Area Statement (ha) – areas	within the assessment area.		
		Area Type	Smallholder Area (ha)	Batu Kuda Area (ha)	Total Area (ha)
		HCV1	0.26	84.58	84.58
		HCV4	0.26	97.40	97.66
		НСV5	0.26	58.93	59.19
		НСV6		4.05	4.05
		HCS		23.67	23.67
		Total Conservation Area	0.26	126.84	127.10
		Total Developable Area	350.54	1,867.77	2,218.31
		Total Assessment Area	350.8	2,049.97	2,400.77
		<ul> <li>conservation are not distudisturb these areas (e.g. here)</li> <li>opened would stick out on identified during annual survey of the conduct had been cut and from the social monitoring - river be estates where the river but take over the harvesting of annually and 6 monthly us that disputes are quickly a there should be a dialogue person. During an annual</li> </ul>	Monitoring. the most basic thing is that rbed. Particularly that the unting, cutting timber, open satellite images but huntir urveys. It is recommended inservation areas. In the pr e species list would see whe uffers are usually the first a ffers have been abandoned f these areas. For this reas- ing satellite images. The of ddressed and do not affect between the land owners visit any HCV 6 areas shoul	the areas set aside for community does not ning gardens). Garden ag and cutting of indi- that a bird specialist ocess would see whe ether birds were bein areas to be encroach d, the community has on these areas shoul ther element is dispu- the development. F and the Community	or go in and ens being ividual trees goes and does ether trees ng hunted. ed – in other s requested to d be checked ites – ensuring for this reason Engagement
		Table 2. Threats to biodiversity and s			
		Value Threat identified	Management	Monitoring schedule)	(Time
		HCV 1 • Hunting • Agricultural clearance	<ul> <li>Agreements with the community hunting of birds / mammals in the Finor logging.</li> <li>Agreement with smallholders that mammals seen in their areas are not hunted.</li> <li>Patrols recording the sighting of bimammals.</li> </ul>	HCV areas mammals sumeasure chains and mammal ab presence. (for the second seco	urveys to anges in bird undance / 5 monthly) g using a

		<ul> <li>All staff have maps on their handphones. Ensure all HCV areas are marked on these maps.</li> <li>Agreements with the community about no clearance / logging within the HCV areas.</li> <li>Paying ganti rugi for the HCV areas within the assessment area.</li> <li>Socialisation of the boundaries of the concession area with the community.</li> <li>Replanting the buffer zones of S Air Besah with species that can be used by birds and mammals as food sources. Suggested species are :         <ul> <li>Campnosperma auriculata</li> <li>Dracontomelon dao</li> <li>Durio spp</li> <li>Polyalthia glauca</li> <li>Ficus uncinate</li> <li>Santiria tomentosa</li> <li>Syzygium spp</li> <li>Lithocarpus spp</li> </ul> </li> </ul>	informed by staff working in the village about encroachment or logging. (6 monthly – formally / in the course of day to day business - informally)
HCV 2	HCV 2 is not present		
HCV 3	HCV 3 is not present		
HCV 4	<ul> <li>Government requirement to buffer any small / large rivers by 50 m / 100 m respectively.</li> <li>Erosion on areas of steep slopes</li> <li>Encroachment by local people.</li> <li>Lack of awareness by company employees and contractors about HCV 4, particularly small river riparian buffers and mismanagement of high risk activities within buffer areas (e.g building roads through riparian areas, developing steep slopes).</li> </ul>	<ul> <li>Check the distance between the Anak Sg Ular and the concession boundaries in-field to map out if any areas within the concession are within 100 m, demarcate these areas in-field.</li> <li>A slope survey and demarcating areas greater than 22 degrees to be reserved from development.</li> <li>Ensure that the communities realise that the riparian buffers are not empty land available for agriculture. This should be specifically stated in agreements and socialized to the community. These areas should be marked with signs.</li> <li>SOPs to ensure land clearing contractors don't inadvertently clear HCV 4 areas.</li> <li>All staff have maps on their handphones. Ensure all HCV areas are marked on these maps.</li> <li>It is also important to avoid reducing root cohesion on steep hill sides and the diversion of road drainage onto vulnerable slopes.</li> <li>The roading network at Batu Kuda is being reassessed (because there are far too many roads). The network should be designed based on locating roads along ridgelines, placing rock blankets along roads to limit the formation of rills and gullies, drainage systems should be incorporated but should not drain onto disturbed soils or erodible slopes, avoiding deep cuts into soils in mid-slope roads and maintaining the road surface and drainage system<sup>1</sup>.</li> <li>There may be unmapped small streams / waterways in the assessment area (even &lt; 1 m width). Pollutants entering small waterways could have major impacts on water quality in larger rivers. If these are identified by the plantation manager / smallholder an area 10 m either side of the waterway should be reserved from development and ideally planted with natural tree species. Where</li> </ul>	<ul> <li>Monitoring using a combination of monitoring from satellite images as well as on the ground patrols and being informed by staff working in the village about encroachment. (6 monthly – formally / in the course of day to day business - informally)</li> <li>Monitoring of land clearing to ensure buffers and steep areas (if there are local steep areas that were not picked up in the DEM) are not cleared. (6 monthly – formally / in the course of day to day business - informally)</li> <li>Terraces must be regularly inspected for signs of soil erosion. (6 monthly – formally / in the course of day to day business - informally)</li> <li>Cover crops are inspected regularly and replanted in areas in which the cover crop has failed, with priority given to areas particularly vulnerable to erosion such as terrace slopes. (6 monthly – formally / in the course of day to day business - informally)</li> <li>Sediment monitoring in rivers (e.g. taking photos of river beds and checking whether islands of silt are forming). (6 monthly)</li> </ul>

		these areas are already planted the assess trongly recommends that the managers minimise, or ideally eliminate altogether application of fertilisers and pesticides with 10m of small and/or artificial watercours. Maintaining good vegetation cover along banks of small waterways is particularly important during land clearance and planting/replanting of oil palms when latareas of bare soil were often washed int waterways. This is supported by Barclay (2017). This applies to the smallholder palso.	s putting po r, the and check vithin loss is occ ses. Monitorir g the spot erosi appearing o rge o	monitoring by ples in places king to see if soil curring. ng slopes for ion and gullies g. (6 monthly)
5	• HCV 5 follows HCV 4 and is no	pt repeated.		
6	<ul> <li>Inadvertent clearing of the graves.</li> <li>Inadvertent clearing of Batu Kuda and Batu Kambang</li> <li>Inadvertent clearing of the waterfall site</li> </ul>	<ul> <li>Prior to land clearing ensure the area is demarcated so the possibility of errors is minimized.</li> <li>All staff have maps on their handphone Ensure all HCV areas are marked on thes maps.</li> <li>Ensuring the HCV areas remain undistu</li> </ul>	sure on th Take phot s. to monito disturban rbed. (by compa condition	ce of the area
Peat	Not present in the assessr	nent areas	photos).(c	, montiny)
HCS forest	These follow HCV1 and HC	CV 4 and are not repeated here		
Manage	mont Toom			
The mar - -	company. Physical develc Sustainability Manager – engagement. Implement	of : oping the agreements between t opment of the oil palm estate win managing the conservation area ing the recommendations of the seeing the function of the estate	thin Batu Kuda is and commur e HCV / HCS rep	lity port.
The mar - -	nagement team consists o Estates Manager – develo company. Physical develo Sustainability Manager – engagement. Implement Regional Manager – overs	oping the agreements between t opment of the oil palm estate wi managing the conservation area ing the recommendations of the	thin Batu Kuda is and commur e HCV / HCS rep	lity port.
The mar - - - Object Ensure	nagement team consists of Estates Manager – develo company. Physical develo Sustainability Manager – engagement. Implement Regional Manager – overs <b>ive(s)</b>	oping the agreements between t opment of the oil palm estate wit managing the conservation area ing the recommendations of the seeing the function of the estate	thin Batu Kuda Is and commur HCV / HCS rep and Sustainab	lity port.

3	Stakeholder and local people engagement	Within the HCV HCS report there are annexes assessment. Then within the body of the repo communities and land owners. The culminatic conserve map which was signed-off by the res	on of this process was the development /
	(FPIC process)	Findings	Remarks/Company responses
		PT MMAS Company provide plasma participation which is 20%.	Company will not take over plasma land in the forest area
		There are areas to be protected is already controlled by the community	Protected areas that are controlled by the community might be compensated otherwise the company can only do awareness to community
		If there is already a boundary map, please provide it to the forestry office so that a boundary can be made.	Boundaries between plantations and forests have now been mapped and boundaries marked in the field. The plantations that are included in the forest area (Kawasan hutan) have been removed from the concession area.
		What are the social impacts, global warming and food security, if we all build oil palm plantations?	For food security, company understands that the Batu Kuda concession has been built for a long time and is not a new plantation, so its impact has been felt long ago. However, if the community wants to grow food crops such as vegetables, palawija and others, they can coordinate with the company for guidance and other assistance.
		Expectations from the community for the company to participate in improving peoples' lives. The number of unemployed is expected to decrease and the community to become more prosperous.	The company has extension officers to identify and assist with the community needs and expectations.
		It is hoped that there will bes cooperation in assisting the community manage their oil palm plantations, so that the production of community oil palm plantations increases. The company's plantations are 50% more productive than the community's.	
		The company must assist the needs of the community, especially supporting facilities, particularly production roads.	

		Management Tea	m					
		The management team consists of :						
		<ul> <li>Estates Manager – developing the agreements between the communities and the company. Physical development of the oil palm estate within Batu Kuda.</li> <li>Sustainability Manager – managing the conservation areas and community engagement. Implementing the recommendations of the HCV / HCS report and FPIC principles implementation.</li> <li>Regional Manager – overseeing the function of the estate and Sustainability function</li> </ul>						
		Objective(s)		Action(s)		Timeline		
		Ensure that the FPIC process has been undertaken adequately and the development is agreed to by the communities / landowners.		Undertake information sessions with the respective parties. Comments and suggestions from people should be taken into account by the company when formalising the ICLUP. If more GRTT takes place – ensure this is consistent with government regulations and RSPO guidelines for this process.		Already taken place, ongoing		
4	Soil and Topography	In the Assessment hectarage in Batu		the soils are Dystru	idepts or Pal	eudults. Slope c	lass and its	
		Degree of slope	Hectarage (Ha)	Percentage (%)	ן			
		$0.02 - 5.00^{\circ}$	256.9	12.54				
		$5.01 - 10.00^{\circ}$	542.5	26.50				
		10.01 - 15.000	637.8	31.14	]			
		15.01 - 20.000	428.7	20.93	]			
		20.01 - 25.000	141.7					
		>250	40.4	1.97	J			
		The Sustainability Department will be responsible for ensuring the NO GO areas are clearly marked out.					are clearly	
		Objective(s)	Objective(s)		Action(s)			
		Ensure no land c steep areas.	learing of	These areas have marked out in the report and are inc the conservation a out with flagging t to land clearing.	HCV / HCS luded in area. Mark	Prior to land clearing		

5	GHG	The GHG result explain	ed in the	documen	t as follows	:		
				Scenario 1				
		Field emissions & sinks		tCO2e	t CO2e/ ha	tCO2e/t FFB		
		Land clearing		1,148.46	4.96	0.71		
		Crop sequestration		0.00	0.00	0.00		
		Fertilisers		14.41	0.06	0.01		
		N2O		10.84	0.05	0.01		
		Field fuel		34.86	0.15	0.02		
		Peat		-	-	-		
		Conservation credit		-289.98	-1.25	-0.18		
		Total		918.59	3.96	0.57		
		Mill emissions & credit		tCO2e	t CO2e/ ha	tCO2e/tFF	В	
		POME		316.59	1.37	0.20		
		Mill fuel		1.16	0.01	0.00		
		Purchased electricity		-	-	-		
		Credit (excess electricity exp	ported)	-	-	-		
		Credit (sale of biomass for p	ower)	-	-	-		
		Total		317.75	1.37	0.20		
		Total emissions, tCO2e (field	d and mill)	1,236.00				
		t CO2e/t CPO		2.75				
		t CO2e/t PK The scenario 1 is GHG of		2.75				
		Mukomuko Agro Sejah Calculator (RSPO-PRO- The Sustainability Depa operations to ensure e	T04-003 v artment v	V3.0 ENG) will be res <sub>l</sub>	oonsible for		-	
		Objective(s)		Action(s)	)		Timeline	
		To minimise the emiss GHGs	sions of	Minimise and ferti	e the use of liser.	diesel	On-going monitoring	
		Maximise the sequest of GHG	tration	are not d	ne conserva listurbed in ne best grov	order to	On-going monitoring	
		Produce annual accou	unts		calculator t annual carb		Annually	
6	Acceptance of Management Plans	Name of Person Responsible	Sander	Van Den I	Ende			
		Designation	Region	al Director	<sup>-</sup> Sustainabil	ity		

	Signature	pe
	Date	10 December 2022