

Slope Protection





8.5 Water Flow

• Additional Water Monitoring Effort (Water Flow)

River Debit

No.	Unit	SW-1	SW-2	SW-3	SW-4	SW-5	SW-6	SW-9
1	m³/s	0.22	0.16	1.15	0.95	2.71	0.32	0.43

8.6 Aquatic Biota

• Summary of Aquatic Biota Monitoring as follow:

	•	mes tion & Post Operati 5 months	Any concerns and measures taken: N/A	
		nalysis of number o Ikton and benthos	of types, composition, abundance, and diversity	
Measurement Points	• Aqu	atic Biota		
Measurement Follits	No	Location Code		
	1	SW-1	Upstream Bangko Karuah River	
	2	SW-2	Downstream Bangko Karuah River	
	3	SW-3	Upstream Bangko Putih River	
	4	SW-4	Downstream Bangko Putih River	
	5	SW-5		
	6	SW-6		
	9	SW-9	Upstream Bangko Hitam River	

Phytoplankton Community

Damantan	Location							
Parameter	SW-1	SW-2	SW-3	SW-4	SW-5	SW-6	SW-9	
Total Taxa	4	4	5	3	4	3	4	
Abundance (Ind/L)	40	69	80	34	40	34	57	
Diversity Index	1.28	1.29	1.43	1.01	1.28	1.01	1.28	
Uniformity Index	0.92	0.93	0.89	0.92	0.92	0.92	0.92	
Domination Index	0.31	0.29	0.27	0.39	0.31	0.39	0.30	

Cyanophycea (1 type), Chlorophycea (6 types), Bacillariphyceae (10 types) and Euglenophyceae (2 types)

Zooplankton Community

Deservator		Location							
Parameter	SW-1	SW-2	SW-3	SW-4	SW-5	SW-6	SW-9		
Total Taxa	4	4	5	3	4	3	4		
Abundance (Ind/L)	40	69	74	23	51	51	34		
Diversity Index	1.28	1.29	1.48	1.04	1.15	0.96	1.33		
Uniformity Index	0.92	0.93	0.92	0.95	0.83	0.88	0.96		
Domination Index	0.31	0.29	0.25	0.38	0.38	0.41	0.28		

Crustacea (2 types), Rotifera (3 types), Nematodes (1 type), and Oligochaeta (1 type)



Benthos Community

Devenuedan	Location							
Parameter	SW-1	SW-2	SW-3	SW-4	SW-5	SW-6	SW-9	
Total Taxa	3	3	4	3	4	4	3	
Abundance (Ind/m ²)	31	25	44	19	38	44	25	
Diversity Index	1.52	1.50	1.95	1.58	1.92	1.84	1.50	
Uniformity Index	0.96	0.95	0.98	1.00	0.96	0.92	0.95	
Domination Index	0.36	0.38	0.27	0.33	0.28	0.31	0.38	

Gastropoda (3 types), Diptera (1 type), dan Odonata (2 types)

8.7 Flora / Fauna

• Summary of Flora / Fauna Monitoring as follow:

Measurement Period	Constr	uction Phas	e:		
	Two tir	nes			Any concerns and measures taken:
	Post op	peration Pha	ase:		N/A
	Every 6	6 months			
Measurement Method	Data co	ollection me	ethod through	Inventory /direct observation of the area	
	to be c	leared and	re-vegetated.		
	Data ai	nalysis thro	ugh vegetatioı		
Measurement Points					
	No	Location	Reference		
	NO	Code			
	1	FF-2	ML-B		
	2	FF-3	ML-H		
	3	FF-4	ML-E		

• Flora

No	Local Name	Scientific Name	L	ocation		Habitus	P.106/2018
NO	Local Name	Scientific Name	ML-B	ML-H	ML-E	Habitus	(Status)
1	Gadog	Bischofia javanica	-	+	+	Tree	Not protected
2	Medang keladi	Cinnamomum spp	+	+	+	Tree	Not protected
3	Tembesu putih	Fagraea fragrans	-	-	-	Tree	Not protected
4	Kenari	Dacryodes	+	+	+	Tree	Not protected
5	Meranti embun	Dacrydium elatum	+	+	+	Tree	Not protected
6	Pasang kapur	Quercus/Lithocarpus	+	+	-	Tree	Not protected
7	Jambu-jambu	Eugenis sp,	+	+	-	Tree	Not protected
8	Puspa	Schima walichii,	+	+	+	Tree	Not protected
9	Bintangur	Calophyllum pulcherrimum	+	+	+	Tree	Not protected
10	Sapat	Cratoxylon ligustrinum	-	-	+	Tree	Not protected
11	Pagar	Ixonanthes icosandra	-	-	-	Tree	Not protected
12	Semasam	Aporosa sp	+	+	+	Tree	Not protected
13	Medang kuning	Alseodaphne sp,	+	+	+	Tree	Not protected
14	Surian bawang	Toona sp	+	+	+	Tree	Not protected
15	Medang putih	Litsea spp	+	+	+	Tree	Not protected
16	Pasang batu	Quercus wallichiana	+	+	+	Tree	Not protected
17	Bayur putih	Pterospermum javanicum	-	+	-	Tree	Not protected
18	Medang cengkeh	Litsea spp	+	+	-	Tree	Not protected
19	Kayu kasai	Pometia	+	+	+	Tree	Not protected



No	Local Name	Scientific Name	L	ocation		Habitus	P.106/2018
NO	Local Name	Scientific Name	ML-B	ML-H	ML-E	Habitus	(Status)
20	Kayu aro	Ficus sp	+	+	+	Tree	Not protected
21	Anggrum/gamal	Gliricidia maculate	-	+	+	Shrub	Not protected
22	Kayu mara	Macaranga tanarius	+	+	+	Shrub	Not protected
23	Kayu bodi	Ficus religiosa	+	+	+	Shrub	Not protected
24	Sikejut	Mimosa pudica	+	+	+	Herb	Not protected
25	Rotan	Calamus,	+	+	+	Herb	Not protected
26	Pakis	Diplazium esculentum	+	+	+	Herb	Not protected
27	Tepus	Achasmacoccineum	+	+	+	Shrub	Not protected
28	Pepaitan	Paspalum conjugatum	+	-	-	Herb	Not protected
29	Balik angin	Macaranga recurvata	+	+	+	Herb	Not protected
30	Harendong	Melastoma affine	+	+	+	Bush	Not protected
31	Resam	Gleichenia linearis	+	+	+	Bush	Not protected
32	Semantung	Ficus sp	+	+	+	Shrub	Not protected
33	Kayu labu	Endospermum sp	-	+	+	Shrub	Not protected
34	Kayu sirih	Piper aduncum	-	-	+	Herb	Not protected



Clearing of Invasive Species

Mammals

No	Local Name	Latin Name	Co	onservation Status	Remarks
No.	Local Name	Latin Name	IUCN	PerMen LHK P.106	
1	Babi	Sus scrofa	LC	TL	Footprints
2	Simpai	Presbitys melalophus	EN	L	Observation
3	Tupai	Callosciurus notatus	LC	TL	Observation
4	Karo/ekor panjang	Macaca fascicularis	LC	TL	Observation
5	Baruak	Macaca nemestrina	VU	TL	Camera Trap
6	Siamang	Sympalangus syndactylus	EN	L	Voice
7	Kalong	Pteropus vampyrus	NT	TL	Observation
8	Rusa sambar	Cervus unicolor	EN	L	Camera Trap
9	Binturong	Arctictis binturong	VU	L	Camera Trap
10	Linsang	Prionodon linsang	LC	TL	Camera Trap



N -			Co	onservation Status	Remarks
No.	Local Name	Latin Name	IUCN	PerMen LHK P.106	
11	Kucing emas	Catopuma temminckii	NT	L	Camera Trap
12	Sigung Sumatera	Arctonyx collaris	NT	L	Camera Trap
13	Puyuh	Arborophila sp	LC	TL	Camera Trap
14	Kuau kerdil	Polyplectron chalcurum	LC	TL	Camera Trap
15	Kijang	Muntiacus muntjak	LC	TL	Camera Trap
16	Bajing tanah	Lariscus insignis	LC	TL	Camera Trap
17	Trenggiling	Manis javanica	CR	L	Camera Trap
18	Tupai akar	Tupaia glis	LC	TL	Camera Trap
19	Puyuh gonggong	Arborophila rubrirostris	LC	TL	Camera Trap
20	Musang congkok	Prionodon linsang	LC	L	Camera Trap
21	Musang bulan	Paguma larvata	LC	TL	Camera Trap

Note: LC (Lest concern)= resiko rendah; NT (Near threatened)=hamper terancam; CR (Critical)=kritis; VU (Vulnerable) rentan; EN (Endangared)=terancam; L (Protected); TL (Not Protected); E (endemic); CT (camera trap)

• Birds

No	Family	Nama Indonesia	Nama Jenis	Endemik	IUCN	CITES	P106
1	Motacillidae	Apung tanah	Anthus rufulus	-	LC	-	-
2	Laniidae	Bentet kelabu	Lanius schach	-	LC	-	-
3	Estrildidae	Bondol haji	Lonchura maja	-	LC	-	-
4	Estrildidae	Bondol Peking	Lonchura punctulata	-	LC	-	-
5	Cuculidae	Bubut Alang - alang	Centropus bengalensis	-	LC	-	-
6	Nectariniidae	Burung Madu Ekor Merah	Aethopyga temminckii	-	LC	-	-
7	Nectarinidae	Burung Madu sp.	Cinnyris sp.	-	-	-	-
8	Dicaeidae	Cabai sp.	Dicaeum sp.	-	-	-	-
9	Alcedinidae	Cekakak sungai	Todirhamphus chloris	-	LC	-	-
10	Cisticolidae	Cinenen kelabu	Orthotomus ruficeps	-	LC	-	-
11	Aegithinidae	Cipoh kacat	Aegithina tiphia	-	LC	-	-
12	Pycnonotidae	Cucak kutilang	Pycnonotus aurigaster	-	LC	-	-
13	Accipitridae	Elang hitam	Ictinaetus malaiensis	-	LC	App II	v
14	Accipitridae	Elang-ular bido	Spilornis cheela	-	LC	App II	v
15	Champephagidae	Jinjing Bukit	Hemipus hirundinaceus	-	LC	-	-
16	Bucerotidae	Julang Emas	Rhyticeros undulatus	-	VU	App II	V
17	Cuculidae	Kadalan Beruang	Phaenicophaeus diardi	-	NT	-	-
18	Campephagidae	Kapasan Kemiri	Lalage nigra	-	LC	-	-
19	Motacillidae	Kicuit Batu	Motacilla cinerea	-	LC	-	-
20	Rhipiduridae	Kipasan Belang	Rhipidura javanica	-	LC	-	V
21	Hirundinidae	Layang - layang Api	Hirundo rustica	-	LC	-	-
22	Hirundinidae	Layang-layang batu	Hirundo tahitica	-	LC	-	-
23	Pycnonotidae	Merbah cerukcuk	Pycnonotus goiavier	-	LC	-	-
24	Sittidae	Munguk Loreng	Sitta azurea	-	LC	-	-
25	Muscicapidae	Niltava Kumbang padi	Niltava grandis	-	LC	-	-
26	Picidae	Pelatuk Kuduk kuning	Chrysophlegma flavinucha	٧	LC	-	-



No	Family	Nama Indonesia	Nama Jenis	Endemik	IUCN	CITES	P106
27	Cisticolidae	Perenjak Jawa	Prinia familiaris	-	LC	-	-
28	Leiothrichidae	Poksai Genting	Garrulax mitratus	-	NT	-	-
29	Champephagidae	Sepah Gunung	Pericrocotus miniatus	-	LC	-	-
30	Muscicapidae	Sikatan Bubik	Muscicapa dauurica	-	LC	-	-
31	Muscicapidae	Sikatan bubik	Muscicapa dauurica	-	LC	-	-
32	Megalaimidae	Takur Bukit	Psilopogon oorti	V	LC	-	٧
33	Megalaimidae	Takur ungkut-ungkut	Psilopogon haemacephalus	-	LC	-	-
34	Columbidae	Tekukur biasa	Spilopelia chinensis	-	LC	-	-
35	Coraciidae	Tiong Lampu Biasa	Eurystomus orientalis	-	LC	-	-
36	Columbidae	Uncal Kouran	Macropygia ruficeps	-	LC	-	-
37	Apodidae	Wallet Linci	Collocalia linchi	-	LC	-	-
38	Cuculidae	Wiwik kelabu	Cacomantis merulinus	-	LC	-	-
39	Cuculidae	Wiwik uncuing	Cacomantis variolosus	-	LC	-	-

Note: LC (Least concern)=resiko rendah; NT (Near threatened)=hamper terancam; CR (Critical)=kritis; VU (Vulnerable)=rentan; EN (Endangared)=terancam; L (Protected); TL (Not Protected); E (endemic); CT (camera trap)

Habitat Tracking Sheet and Habitat Mapping

Habitat Tracking Sheet can be seen in Attachment 8. Biodiversity Habitat Database Mapping can be seen in Attachment 9.

The tracking sheet includes past data with a breakdown based on species (with latin name), IUCN status, national protected status, number of animals seen, type of observation (visual or camera trap). This tracking sheet is in line with the habitat mapping database for ease of reference.

8.8 Biodiversity (endangered species)

• Summary of Biodiversity (endangered species) Monitoring as follow:

Measurement Period	Construction Phase: Regularly (At least every 3 years) Operation Phase: Regularly (At least every 3 years)	Any concerns and measures taken: N/A Note: • Nursing amorphophalus sp (EN) at insitu nursery
Measurement Method	Direct observationCamera Trap	near WP-F.
Measurement Points	 Number of locations will be determined later based on analysis of the observation data. The below are the previous locations during biodiversity study. 	 Attachment 9 Habitat Database Mapping

A location near WP-E and Security Posts GP-9 is often visited by Surili (Presbytis melalophos). They hang out at Sengon trees at the forest edge, at the other side of the road from the Post). The ownership of lands at the side of the Post is Private Land (Area Penggunaan Lain / APL) that are used for farmings, rice fields, shrubs, and transmission lines so it is deemed not appropriate to install an arboreal bridge at this location since it does not connect to another forest, can create conflicts with farmers and also has a potential for them to climb the transmission lines and disturb operations. See Biodiversity Action Plans (BAP) poins #6 and #27.



The location of Surili sightings is also recorded in the tracking sheet for all animals observed within the Project.



Plot of Surili Sightings Near WP-E / Security Post GP-9



9. Permit Compliance

9.1. Compliance with AMDAL Documents

• Summary of AMDAL Document compliance as follow:

Monitoring Item	Monitoring Results during Report Period
Conditions attached to AMDAL approval (Conditions shown in the Sixth Article and Seventh Article of AMDAL Approval Letter dated 22 October 2013 and	 Please confirm if you have achieved all conditions attached to AMDAL approval. : [Yes / No]
Conditions shown in Addendum #1 AMDAL Approval Letter dated 14 January 2015 and Addendum #2 AMDAL Approval Letter dated 22 September 2020)	 Describe the situation and measures taken if delays/complications in implementation of the conditions/obligations are identified. None

9.2. Compliance with Environmental Permit

• Summary of environmental permit compliance as follow:

Name	Competent Authority	Status
Permit for B3 Waste	Regent of Solok Selatan	Has the permit approved/ issued?: Yes / No
Temporary Storage (Izin Tempat Penyimpanan Sementara Limbah B3)	(Bupati Solok Selatan)	If "Yes", please provide the approved/issued date (DD/MM/YYYY). Please also submit a copy of the permit together with this monitoring form. Decree of Regent of Solok Selatan no. 660.263-2017 dated 28 August 2017.
		If "No", please provide the expected approval/issuance date (DD/MM/YYYY).
Any issues regarding Monitoring Item mentioned above	Reasons/Background Information	Measures: • Production rate of hazmat is low • Keep minimum hazmat stock at site



10. Biodiversity Action Plan

• Summary of Biodiversity Action Plan as follow:

Monitoring & Action Item	Monitoring Results during Report Period
Completion of Biodiversity Action Plan	Has Biodiversity Action Plan (BAP)(including Supplemental Report) been completed? : Yes / No
	If "Yes", please provide the information of the completion date (DD/MM/YYYY) : BAP v11, dated 23 June 2017 and approved by ADB on 24 July 2017. For each action item detail the actions taken and the current status and outcomes.
Impacts on biodiversity in/around the project site	Are there any problems regarding impacts on biodiversity pointed out by the National/Local authority? Yes./ No
	During this period of the project
	If yes, please describe the outline of the problems and measures taken.

Any issues regarding Monitoring Item mentioned above	Reasons/Background Information	Mitigation Measures
N/A	N/A	N/A



• PT SEML Biodiversity Action Plan Status

No	Action Plan	Status	Date
1	Appoint a Site Support Manager to supervise SHE aspects at site	 Done. Yulnofrins Napilus has been appointed as Site Support Manager. Asharry Sofyan has been appointed as Site Biodiversity Offset Manager. Ryski Darma Busta and Hans Primananda have been appointed as biodiversity offset officers. 	December 2016
2	Implement adaptive management measure	Done.	
		Established procedure: SE-MSHE-ENA-PRO-0001 Chance Finds Procedure (4 February 2017) SHE meetings between parties include discussion of any biodiversity issues and requirements for adaptive measures. Adaptive management measures are implemented on site in response to fauna sightings.	Procedure has been issued on 4 February 2017 and will be revised when required.
3	Develop protocols for the management of injured wildlife	 Done; refer to: ML-MSHE-WOR-GUI-0002-Wildlife Sheperding Protocol (13 June 2017) 27-SE-MSHE-WOR-PRO-0014 Wild Animal Interference (12 February 2018) 	Date Composed: • 13 June 2017 • 12 February 2018
4	Establish an incident reporting mechanism	 Done; refer to: SE-MSHE-IRI-PRO-0001 Incident Notification Reporting (17 April 2018) SE-MSHE-IRI-PRO-0002 Incident Accident Reporting & Investigation (24 October 2012) 	Date Composed: • 17 April 2018 • 24 October 2012
5	Identification of Wildlife Crossing Points	Done. Not needed.	Current Update:
		Based on current observation, the installation of a wildlife crossing point is not needed.	No report is received to require the installation of wildlife crossings for terrestrial and arboreal mammals.
6	Assess the need for the installation of artificial crossing for endangered arboreal mammals	Done. Not needed. A location near Security Posts-GP9 is often visited by Surili. They hangout at Sengon trees at the forest edge, at the other side of the road from the Post). The land at the side of the Post is used for farmings, rice fields, shrubs, and transmission lines so it is deemed not appropriate to install an arboreal bridge at this location since it does not connect to a forest, can create conflicts with farmers and also has a potential for them to climb the transmission lines and disturb operations. See #27 and Attachment 16 for Arboreal Crossing Review	
7	Conduct a flora and fauna survey prior to construction of wellpad	Done by UNAND University and EPC-C.	 The survey was done prior to clearing for Wellpad F (See attached report) Biodiversity Study of area surrounding Wellpad F was conducted in early March 2017 1 protected fauna species (Siamang) was identified by sound, but is located far from the project boundary Endangered flora (amorphophalus sp. Was encountered)



			 Initial amorphophalus relocation and nursery 24 March 2017 Current Update: Done in conjunction with Biodiversity Offset Program
8	Wildlife shepherding activities	Done.	
		 Procedure has been established: ML-MSHE-WOR-GUI-0002-Wildlife Shepherding Protocol (13 June 2017) Socialisation to SEML and contractor employees. No critical activities related to wildlife shepherding was required during construction. Wild Animal Interference (including Injured Wildlife Protocol) will be referred to in the event that injured wildlife is encountered. Land clearance for project is marked and monitored by SEML and Contractor. 	Current Update: During the reporting period, no sensitive incident involving wildlife was encountered. Biodiversity campaign is maintained and monitored by Biodiversity Offset Officers.
9	Ensure clearing has been limited to the identified	Done.	
	area	Monitored by SEML Project and EPC Contractor. SHE personel from both SEML and EPC ensured the limit and checked during biodiversity study prior to land clearing.	No additional vegetation clearance had occured since March 2017 (wellpad F) Current Update: None
10	Brief all involved personnel on wildlife shepherding	Done.	
	activities	 Prior to conducting work, SEML & EPC-C have conducted a kick-off-meeting to discuss SHE matters including biodiversity issues. Site coordination meeting was conducted after a preland-clearing survey to discuss findings and method of clearings to prevent unnecessary damage. Trainings on procedures and biodiversity awareness, both through induction and refresher trainings, have been conducted for employees. 	Conducted regularly during induction of employees, through refresher trainings, and campaigns.
11	Establish a site nursery	Done	
		 A site Main Nursery has been established adjacent to the Admin Block in 2017 and improved in 2020/2021. The nursery cultivates local seedlings for use in revegetation around the Project site; no pesticides are used. An in-situ nursery for endangered species Amorphophalus is established near well pad F. A flying nursery has been established at the TNKS 	March 2017 and improved in 2021.
12	Develop a comprehensive Offsite Biodiversity	restoration area sine December 2020. Done.	
12	Offset Design	Latest version 3.5 of the BOMP has been approved by ADB in April 2020	April 2020.
13	Conduct a water extraction pre-feasiblity	Done.	
	assessment	• Water extraction pre-feasibility was conducted prior to initial drilling campaign and again in 2017.	2017
		 Drilling campaign has been completed and water is now mainly to supply domestic needs. 	End 2019.



14	Collect native flora seed before land clearance	Done.	
		 Conducted by Site Environment Engineer and Biodiversity Officers. Since 2H19, some local seedlings were collected from project area and its surrounding. Other seedlings were also procured via various instances. 	 On a regular basis by daily labor (used for nursery establishment) Current update: Native seedlings and species planted are monitored and inventorized regularly. Nursery balance sheet is updated monthly (See attachment) 27,000 trees have been planted at the restoration site. Approx. 9,000 trees are maintained in main nursery.
15	Local community engagement to raise awareness of the conservation value of forest	Done • Socialisation has been completed with the local community to raise awareness of biodiversity issues. • Socialisation on forestry management protection (signs, campaign, coaching, etc.) • Other activities : • Patrols • Focus Group Discussions • Offset surveys • Meetings with government employees • CSR related to environment and biodiversity • CSR during flood / landslide occasions at broader Muara Laboh area. • Radio Talks with TNKS	Conducted as necessary: • When poaching occurs • When deforestation occurs • Prior to land clearing • During offset surveys Other than additional signs, no critical socializations were required
16	Undertake regular monitoring of PT SEML access roads to secure them from poaching activity	Done. Daily patrol within project site is conducted by SEML Security Drone surveys are conducted regularly, at least once a month.	 Current Update: Due to the Covid-19 pandemic, regular joint (onsite) patrol with forestry could not be conducted. Onsite Patrol: Daily patrol within project site is conducted by SEML Security. SEML did not invite external parties to enter project area due to Covid-19 prevention. Offset Patrol: Patrol at Restoration Area is conducted by the Planting Contractor (a conservationist group) and TNKS staff assigned specially at site to supervise the restoration. This activity is done outside project area.
17	Company drivers to receive internal defensive driving training	Done. Company drivers receive Defensive Driving Course (DDC).	Company drivers are given DDC prior to hiring and when starting as well as refreshment training on a yearly basis. They will receive further training during violation of driver's ethics.
18	Conduct speed check	Done. Conducted on a monthly basis by site Safety and/or Security Officers using radar guns.	Conducted regularly.
19	Lighting management	Done. Conducted during drilling/construction activities. Site SHE will socialize and monitor the limitation of lighting use to prevent	ls conducted during drilling/construction activities (night time)



20 Ensure night works will not disturb wildlife Done Current Update: Construction has been co 21 Conduct regular monitoring of flora and fauna in Project areas Done Nightwork impact on wilk monitoring is done daily success of biodiversity campaigns, discussions, etc. to ensure the success of biodiversity campaign. Nightwork impact on wilk monitoring is done daily regularly. Monithy three success of biodiversity campaign. 23 Put up and maintain information posters and literature on ecological awareness Monitor compliance with PT SEML environmental protection policy Monitoring of flora and fauna is conducted through activities such as: camera trap monitoring, fauna sighting, invasive species clearing, revegetation, routine patrol, etc. Monitoring of flora and fauna is every wellpad, every facility, every junction and near biodiversity monitoring spots and are regularly maintained and replaced if needed. Biodiversity awareness in done infrequently. 2 Compliance to environmental protection policy. Biodiversity monitoring spots and are regularly maintained and replaced if needed. Biodiversity awareness in formitor all parameters with respect to relevant environmental protection policy. Biodiver file and life conflict, illegal loggin and poaching is done on a monthy basis by way of joint patrol. As of 2H18, only one instance of potential illegal logging was encountered near access road to wellpad H. This is immediately asseed and resolved during the Wildlife conflict, illegal loggin monthy basis. No wildlifi	Idlife when there is a activity. fauna is done ugh camera ha sightings, species hrough RKL-RPL s currently
21 Conduct regular monitoring of flora and fauna in Project areas SEML SHE and EPC SHE have been conducting surveys, socialisation with workers and nearby settlers, creating signs, award campaigns, discussions, etc. to ensure the success of biodiversity campaign. Nightwork impact on with monitoring is done daily night time construction a 23 Put up and maintain information posters and literature on ecological awareness Monitoring of flora and fauna is conducted through activities such as: camera trap monitoring, fauna sighting, invasive species clearing, revegetation, routine patrol, etc. Monitoring of flora and fauna is every wellpad, every facility, every junction and near biodiversity signs are installed all over the project area (at every wellpad, every facility, every junction and near biodiversity monitoring spots and are regularly maintained and replaced if needed. Biodiversity awareness info posted all over project si 24 Compliance to environmental protection policy Biodiversity signs are installed all over the project area (at every wellpad, every facility, every junction and near biodiversity monitoring spots and are regularly maintained and replaced if needed. Biodiversity awareness info posted all over project si 25 Monitoring for signs of wildlife conflict and illegal logging and poaching is done on a monthly RL-RPL survey is conducted to monitor all parameters with respect to relevant environmental protection policies. Biodiversity bioly bioly poaching monitoring is done monthly Basis by way of joint patrol. As of 2H18, only one instance of potential logging was encountered near access road to wellpad H. This is immediately asseesed and resolved during the Wildlife conflict, i	when there is a activity. fauna is done ugh camera ha sightings, species through RKL-RPL s currently
 Project areas All construction personnel and PT SEML staff will undertake biodiversity awareness training Put up and maintain information posters and literature on ecological awareness Monitor compliance with PT SEML environmental protection policy Monitor construction areas for signs of potential wildlife conflict, illegal logging and poaching Biodiversity signs are installed all over the project area (at every wellpad, every facility, every junction and near biodiversity wonthoring spots and are regularly maintained and replaced if needed. Compliance to environmental protection policy is inspected on a daily, weekly monthly basis by SEML and EPC SHE team. A 6 monthly RL-RPL survey is conducted to monitor all parameters with respect to relevant environmental protection policies. Monitoring is done on a monthly basis by way of joint patrol. As of 2H18, only one instance of potential illegal logging was encountered near access road to wellpad H. This is immediately asseesed and resolved during the found in the restoration site. 	when there is a activity. fauna is done ygh camera ha sightings, species hrough RKL-RPL s currently
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monthly patrol. 1H21.	done on a fe conflict, ning has been
Biodiversity awareness training is currently not done on a scheduled basis, but done infrequently.	
26 Workers to be trained in noise-reduction Done behaviours	
A number of workers and SHE personel equiped with Noise detectors. Both EPC and SEML SHE officers conduct daily noise monitoring as well as monthly monitoring (reported in lender's monthly report). SHE officers of SEML pert	
Noise reduction behaviour practices are conducted Noise-reduction behaviour through socialization during pre-job toolbox meetings . Noise-reduction behaviour infrequently socialized during assembly and pre-job toolbox meetings .	uring morning
27 Crossing points/ arboreal crossing bridge is Done N/A retained in good functional condition	
No artificial wildlife crossing has been installed during this period.	
See # 6 and Review for the Need for Arboreal Crossing has been mentioned in 1H21 report.	
28 Measure long term population changes and trends for key species Done / On going Habitat database mappin produced.	ng has been
Camera traps and fauna sightings have been recorded for habitat database mapping. Habitat Database Map updated until Dec 202 9.	
29 Consultation relevant stakeholders to determine Done.	
the composition and type of planting to be achieved Consultation with local and provincial forestry agencies	



		Onsite: Padang Forestry Department, Agronursery, local	PT UAP has commissioned Main
		 Offste: Fadag forestry Department, Agronusery, Jocar suppliers (PT UAP), ICS NGO, and Conservationist Group Bangunrejo are consulted for nursery/ revegetation purposes. Offsite: Kartaraharja Utama and ERM has been selected as Biodiversity Offset program consultants 	 Nursery in May 2021. Conservationist Group Bangunrejo has completed planting at the 52 ha TNKS restoration site and continue with 1st year Maintenance since May 2021. A TNKS staff from Padang Office has been appointed as site restoration guide and stay in Muara Labuh.
30	Develop a community based forest restoration project	 Ongoing Community is engaged during forestry restoration project through the use of local contractors. A Community Conservation Agreement Area (CCAA) is being prepared to support the Biodiversity Offset Program. 	 Current Update: Ex farmers are working as planters under supervision of KPKM Bangun Rejo and TNKS. Potential CCAA location has been identified (Attachment 10) Discussions regarding CCAA with stakeholders have been conducted intensively since end of 2021 and will be continued with socioeconomic surveys and stakeholder engagement in 2022.
31	Install warning signs regarding hunting and poaching at the border of the buffer area of the Protection Forest.	 Done Many protection signs have been installed. Currently every wellpad, every facility, and critical junction. Will be a continuous effort and additional signs will be added if necessary. 	In November 2019, 65 TNKS marker posts have been repaired, 127 new TNKS boundary markers and 88 new zinc signs have been installed in the restoration area. These have been maintained by SEML. Four additional signs have been installed in December 2021.
32	Establish a communication system with the local forestry office and report illegal hunting / logging.	 Done SEML identifies areas suspected of illegal poaching/logging through regular patrols and drone flights for both Project area and offset site. Socialisation is carried out by SEML and local authorities to try to discourage land clearance by the local community. TNKS has assigned a site representative and he is working together with SEML Biodiversity staff. SEML can directly call and/or make report to TNKS (both in Solok Selatan, Padang and Sungai Penuh Offices). 	Continuous.
33	Develop and update habitat mapping database	 Done. Will be conducted every 3 years. SEML has established a database for habitat mapping reflecting data gathered from camera trap and visual observations since 2018. SEML has shown the habitat mapping to TNKS (during the evaluation of yearly program) and Environmental Office of Solok Selatan. SEML has developed a tracking sheet for all observations (visual and camera trap) which includes species, IUCN status, national protected status, number of observations and observation type to be filtered by year. This allows for easy tracking for future analysis and reference. See Attachments 8 and 9. 	Habitat mapping database has been updated to December 2021. Attachment 9 SEML Habitat Database Mapping (December 2021)



34	Construct security gates to restrict access of	Done	March 2017
	vehicle	24-hours manned security posts have been constructed at access to Project area .ie Kerinci Post and GP-9 Post. A security camera has also been installed at GP-9 post	
35	Conduct regular patrols of the project boundary	 Done Regularly conducted by PT SEML security, and often accompanied by local and provincial forestry agency (onsite patrol). Vandalism to vegetation (chopping of trees) was reported at the road access before MLC junction and near Taratak tinggi junction on 20 October 2020. This has been reported to the local police. Investigation is in progress. Intensified patrolling around the project area Aerial survey using drone is conducted regularly. 	 Current update : Due to the Covid-19 pandemic, regular joint (onsite) patrol with forestry could not be conducted. Onsite Patrol: Daily patrol within project site is conducted by SEML Security. SEML did not invite external parties to enter project area due to Covid-19 prevention. Offset Patrol: Patrol at Restoration Area is conducted by the Planting Contractor (a conservationist group) and TNKS staff assigned specially at site to supervise the restoration. This activity is done outside project area.
36	Conduct regular drone flight	Done.	Current Update:
		 Drone survey is conducted in a monthly basis; also during instances of possible land clearing. Upon sighting or discovery of illegal clearance, a report will be made to TNKS or the forestry department for further action. 	Drone patrol is conducted regularly. The latest was in December 2021.
37	Conduct and clearing of invasive species.	 Done Has been conducted prior land clearing. Regularly cleared using daily manpower. A wheel wash station has been installed to minimise the spread of invasive species. 	Continuous effort throughout construction and operation
38	Educate local people and restrict clearing by local people	 PT SEML has conducted socialization with local forestry agency. Local Disaster Agency, and TNKS. 	 Restriction due to Covid-19 pandemic limits this activity. During this condition, education is limited to ex-farmers who work as planting staff in the restoration area and main nursery. Conducted socialization through Radio Tallk with TNKS on 9 December 2021
39	Interviews with local people on their ecosystem service use within Project Area and Aol	 Done An ecosystem services assessment was completed by ERM in November 2017 A census has been done by local consultant (ICS NGO) (Census) in May 2019. 	November 2017 and May 2019.
40	Monitor land clearing and assess feasibility of providing alternative income	 Done SEML monitor land clearing through patrols and drone flights. To be noted that the surrounding area is categorized as Other Use Land (APL) and is free to be used by the owners. Any illegal activity has notified to the authorities. Livelihood Restoration Program has been developed for Project Affected Persons (PAP). 	Land clearing is monitored on a regular basis. If spotted during patrol, drone will be deployed for observation. Once confirmed, Biodiversity team will contact the local forestry and/or TNKS and/or other authority for further action.



11. Information Disclosure

Are the results of environmental and social safeguards monitoring disclosed? (Yes / No)	If yes, please provide RKL-RPL or Monitoring reports.
 This Safeguard E&S Monitoring Report is issued to lenders every semester. 	• This Safeguard E&S Monitoring Report is sent to lenders.
 RKL-RPL report will be submitted to certain parties as specified in AMDAL document. 	 RKL/RPL report for 2nd Semester 2021 has been issued to the government.
	JBIC,ADB, and will disclose URL or Monitoring reports on their websites, unless disagreement expressed.



ATTACHMENTS

- ATTACHMENT 1 BUSINESS CONTINUITY PLAN REV 4
- ATTACHMENT 2 SOCIALIZATION OF BCP REV 4
- ATTACHMENT 3 DECREE OF MINISTER OF KLHK REGARDING 2021 PROPER EVALUATION RESULTS
- ATTACHMENT 4 BOMP SEQUENCE OF EVENTS
- ATTACHMENT 5 PLANTING OF OFFSET SITE YEAR-1 MAINTENANCE REPORT
- ATTACHMENT 6 DECREE OF MINISTER OF ENERGY REGARDING 3RD AMENDMENT OF CONCESSION AREA
- ATTACHMENT 7 IMPLEMENTATION REPORT OF LIVELIHOOD RECOVERY PROGRAM : 3RD YEAR
- ATTACHMENT 8 HABITAT TRACKING
- ATTACHMENT 9 HABITAT DATABASE MAPPING
- ATTACHMENT 10 POTENTIAL LOCATION FOR CCAA
- ATTACHMENT 11 SOEBROTO AWARD 2021 FOR ENVIRONMENTAL MANAGEMENT : ADITAMA PRIZE (HIGHEST LEVEL)
- ATTACHMENT 12 SOEBROTO AWARD 2021 FOR SAFETY & HEALTH MANAGEMENT : ADITAMA PRIZE (HIGHEST LEVEL)
- ATTACHMENT 13 RECEIPT FROM KLHK : ACCEPTANCE OF 2H21 RKL/RPL REPORT

	SAFETY HEALTH AND ENVIRONMENT	PROCEDURE
supreme energy	SITE BUSINESS CONTINUITY PLAN PROCEDURE FOR COVID-19 PANDEMIC	ML-MSHE-WOR-PRO-0004 Rev : 4

APPROVAL

	POSITION	NAME	SIGNATURE	DATE
Prepared by	Production Superintendent	Munggang HP	Signed	26-Mar-20
	Site SHE Coordinator	Fikry Rhidany	Signed	26-Mar-20
	Sr. Site Contract Engineer	Achmad Novianto	Signed	26-Mar-20
Reviewed by	Construction Manager	Achmad Gunawan	Signed	26-Mar-20
	Site Manager	Christian Pintea	Signed	26-Mar-20
	Plant Manager / KTPB (Technical Head of Geothermal)	Yoza Jamal	Signed	26-Mar-20
	Project Manager	Wahyu Mulyana	Signed	26-Mar-20
	Sr. SHE Manager	M. Arief Tarunaprawira	Signed	26-Mar-20
	Sr. Manager Human Resources	Hardinald Aslam	Signed	26-Mar-20
Approved by	Executive Vice President Relations & Support Services	Prijandaru Effendi	Signed	26-Mar-20
	Chief Financial Officer	Akio Kajimoto	Signed	26-Mar-20
	Chief Operating Officer	Victor Van Der Mast	Signed	26-Mar-20
	President & CEO	Nisriyanto	Signed	26-Mar-20

REVISION HISTORY

REV	DATE	PREPARED	REVIEWED	APPROVED	DESCRIPTION
0	26-Mar-2020	ANV/MHP/FR,	CP/AG/YJ, WM/MAT/HA	PE/AK, VVDM/NIS	ISSUED FOR USE
1	18-Apr-2020	EA	HA/MAT/YJ/ WM	PE/ NIS	ISSUED FOR USE
2	08-Jan-2021	FR/DR/SYI	HA/AS/AG/MAT/ WM	PE/TY/VVDM/ NIS	ISSUED FOR USE
3	15-Jul-2021	FR/DR/TH/TT	HA/AS/AG/MAT/ DJK/WM	PE/TY/VVDM/ NIS	ISSUED FOR USE
4	24-Nov-2021	FR/DR/TT	HA/AS/AG/MAT/ DJK/WM	PE/AK/VVDM/ NIS	ISSUED FOR USE

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1. BACKGROUND

The Indonesian government has taken numerous measures to respond to the COVID-19 pandemic with an evaluation of public activity restriction (PPKM) in all provinces, recently weekly new cases and deaths have dropped by 23% and 16% at the province and national levels, this trend align with the current condition in SEML site area with have **1 (one) active case only.**

As many as **134,614,136** Indonesians have received their first vaccinations meanwhile, **89,426,870** people have received their second vaccinations.

The Ministry of Home Affairs has issued Minister of Home Affairs Instruction (Inmendagri) No. 60/2021 on the implementation of PPKM Level 3 to Level 1 on the islands of Java and Bali.

The Ministry Home Affairs has issued Minister of of Home Affairs Instruction (Inmendagri) No. 60/2021 on the amendment to Minister of Home Affairs Instruction No. 55/2021 on the implementation of PPKM Level 3 to Level 1 on Java and Bali, as well as Inmendagri No. 61/2021 on the amendment to Minister of Home Affairs instruction No. 56/2021 on the implementation of PPKM level 3 to Level 1 in areas outside of Java Bali

PT Supreme Energy Muara Laboh ("SEML or Company") Site Business Continuity Plan Procedure (BCP / Procedure) is amended to reflect this change of regulation. This Procedure will be effective from **15 Dec 2021** until further notice made by the President & CEO.

2. REFERENCE

- 1) CEO Memo Mitigation for the Spread of COVID-19 dated 12-Mar-20
- 2) CEO Memo Guidelines Business Continuity Plan Jakarta Office dated 16-Mar-20
- 3) SEML Site Emergency Response Procedure ML-MSHE-EMP-PRO-0001 Rev. 2

3. SCOPE

This Procedure describes a guideline to minimize the possibility of the employees to be exposed to the COVID-19 and at the same time limits the impact in case any employee is infected by the COVID-19.

This Procedure shall apply to all Personnel who are currently working at Muara Laboh Geothermal Project Site including but not limited to:

- All direct contract and permanent employees under SEML
- All contractors, vendors, suppliers, and/or business partners.
- All local stakeholders and government agencies personnel.
- All visitors (including Supreme Energy employees from Jakarta office and other entities)

All employees who perform overseas or domestic (outside Solok Selatan) business travel must obtain an approval TAF (Travel Authorization Form) from the President & CEO and must strive to implement the stipulated health protocol. All employees will require additional self-isolation for 3 days and taken additional COVID-19 test on Days 4 (four) with negative result prior to entering the SEML premises. The details of self-isolation period and additional COVID-19 test shall refer to Section 4.6

4. PROCEDURE

4.1 General

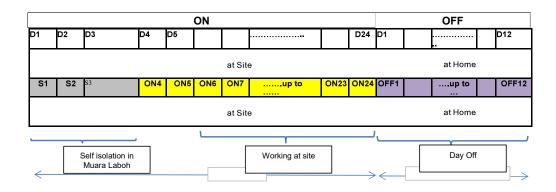
- a) SEML and Contractor employees shall submit complete vaccine certificates prior to entering SEML site area
- **b)** SEML and Contractor employees (from Java Island or outside West Sumatra region) must take Antigen swab test is 24 hours before departure PCR from an approved and registered laboratory.
- c) Closely monitor Covid-19 authority information of COVID-19 in all region community in Indonesia.
- **d)** Minimize exposure to public crowd and/or environment potential for exposure to COVID-19 including public transportation
- e) All persons who enter SEML sites must wear a double mask e.g. surgical mask inside underneath a fabric cloth mask 3-ply or single mask of N95.
- f) Promote, facilitate, and improve personal hygiene protocol, by obeying 7M COVID-19 prevention practices (wear mask(s), wash hands with soap or hand sanitizer, keep safe distance, stay away from crowds, limit mobilization, do not eat together and increase immunity)
- **g)** Each employee shall be responsible to declare any situation related to COVID-19 infection of his/her, the family or people surrounding, to their direct supervisor or user manager and to HR.
- **h)** Company supports the promotion of safe COVID-19 behavior by regularly distributing Multivitamin, etc
- i) <u>Company will impose a disciplinary action to personnel who violate this</u> <u>BCP rules</u>

4.2 Management of Site Workforce

A modified grouping and working schedule is established for SEML employees only to ensure the SEML business process will not be disrupted.

The working schedule of SEML employees under rotational basis is divided into two major groups:

a) Jakarta-based employees under 24 days ON-12 days OFF rotation The modified rotation consists of 24 days working at site (ON-Duty) including 3 days self-isolation (at Self Isolation Area) and 12 days on leave (OFF-Duty).



This rotation schedule will be adjusted to reflect the Self-Isolation Period under Section 4.6

Day	Description	Remarks
D-1	- Take Rapid Antigen Swab test with validity 24 hours before departing from an approved and registered laboratory.	
D1 – D2	 Travel from Jakarta airport to Padang airport Arrive at Padang Airport, directly go to Solok Selatan, upon arrival in appointed dedicated operational vehicle to self-isolation area, taken rapid antigen swab test Continue self-isolation in Solok Selatan Appointed self-isolation area Work from the appointed self-isolation area 	
D3	 On D+3, take PCR swab test at self- isolation area. Upon receives the PCR swab test result: Negative result : wait for Company doctor's clearance Positive result : follow procedure in Appendix 3 	ON Duty D1 – D24
D4 – D24	 Upon Company doctor's clearance , employee can be allowed to work at site area Employee moves to the assigned Accommodation. Every 7 days, all on-duty personnel must take regular Antigen swab test Antigen Swab Test before departure Upon negative result, the Company doctor prepares a clearance letter for traveling. Upon positive result : follow procedure in Appendix 3 	

D25	Travel homeOFF Days	OFF Duty D1 – D12

The rotational employees under self-isolation are prohibited to have interaction with personnel who has been released from self-isolation and working at site.

b) Muara Laboh-based employees

The majority of SEML Muara Laboh based employees is mainly assigned under SEML O&M, Site Support, and SHE Team.

b.1 Maintenance, Site Support, and SHE

The working schedule is become 20 days ON and 10 days OFF.

The living quarter for Maintenance team, SHE under O&M, and medical team will stay at SEML Admin Blocks. Site Support and SHE under project will stay at an appointed accommodation.

Day	Description	Remarks
D1	 Traveling from home to site or from pick up points (Muara Laboh and Padang Aro) Must fill-in and declare to SEML COVID-19 screening questionnaires Take 1st antigen swab test Work for self-isolation 	
D2 – D2	- Continue self-isolation until day three (D+2)	
D3	 On D+3, take PCR swab test at isolation area. Upon receives the PCR swab test result: Negative result : wait for Company doctor's clearance Positive result : follow procedure in Appendix 3 	ON Duty D1 – D20
D4 – D24	 Upon Company doctor's clearance , employee can be allowed to work at site area Employee moves to the assigned Accommodation. Every 7 days, all on-duty personnel must take regular antigen swab test on site Antigen swab test before departure Upon negative result, the Company doctor prepares a clearance letter for traveling. 	

	Upon positive result : follow procedure in Appendix 3	
D21	Travel homeOFF Days	OFF Duty D1 – D10

b.2 Production Shift

Due to the nature of SEML Production shift who require to be present physically at site, SEML Production Shift still follow schedule of **10** days ON and 5 days OFF.

The living quarter of O&M Production shift workers will stay at SEML Accommodation Blocks.

Day	Description	Remarks
D1	 Must fill-in and declare to SEML COVID-19 screening questionnaires Take 1st Rapid Antigen test at SEML clinic at 06:30 AM Personnel with Rapid Antigen Test negative result, can allow to start working by strictly implementing health protocol and wearing specific visible vest until PCR test is obtained Always maintain 7M COVID-19 prevention practices within their own group and among other group Wearing double mask (surgery mask plus fabric cloth mask or single N95 mask) 	
D2 – D3	 On D+3, take PCR swab test screening at SEML Clinic at 06:30 AM and wait for the result within 1 day after Employee under this condition shall stay at their accommodation room. All basic needs will be delivered to the room. 	ON Duty D1 – D10
D4 – D10	 Upon negative PCR swab test result, the employee receives medical clearance from the Company's appointed doctor Employee can be allowed to work at site area Employee move to the assigned Accommodation. PCR swab test before departure Upon negative result, the Company doctor prepares a clearance letter for traveling. Upon positive result : follow 	

	procedure in Appendix 3	
D11 – D15	Travel homeOFF Days	OFF Duty D1 – D5

4.3 Accommodation

In order to minimize the physical interaction among groups, SEML will also adjust the employee accommodation.

- SEML employees who work ON DUTY will stay at SEML Admin Block and Company's appointed accommodation
- Prior to enter the site area, the group will stay at an Appointed Self-Isolation Area until PCR negative test result obtained
- O&M employees who currently live in Solok Selatan will be temporarily relocated to SEML Admin Block.
- All food & beverage are processed through international HACCP (Hazard Analysis and Critical Control Points) standard, all SEML island mode employee are allowed to eat in restaurant (buffet) to reduce plastic wastes & Physical distancing implementation by maintaining minimum 1 meter distance
- Additional hand sanitizers are set up at the restaurant/lounge area.
- Sterilization atomic spray fogging will be conduct on weekly basis at all accommodation area (admin office and TO#2) and office (Plant office, control room, admin office, Supervisor room, permit office, pantry, workshop and warehouse)

During Self-Isolation Period prior to entering the site, SEML will provide the isolation and observation facilities in an appointed hotel or other place ("Self-Isolation Area"). The Company will provide logistics. Self-Isolation Period shall refer to Section 4.6.

4.4 Travelling

a) Overseas Travel

- Overseas travel for business shall obtain SEML BOD Approval
- Overseas travel must follow Refer to Decree of the head of COVID-19 Handling Task Force No 9 of 2021 and Addendum Number 23 of 2021
 - Indonesia will ban the entry of travellers who have been declared confirmed the new omicron coronavirus variant (South Africa, Botswana and Hongkong) and extend close country in eight African countries (Angola, Zambia, Zimbabwe, Malawi, Mozambique, Namibia, Eswatini and Lesotho) and extend quarantine times for all arrivals to curb the spread of the new Omicron coronavirus variant.
 - Comply with the health protocols set by the Indonesian government
 - Show a negative RT-PCR test result which sample taken in the

country of origin within a maximum of 3 x 24 hours before departure upon health checks or attach it on the Indonesian eHAC system on the PeduliLindungi App (download for Android / iOS)

- Show a complete (full dose) COVID-19 vaccine card/certificate (printed/digital) that has been done minimum 14 days before departure date written in English or origin country language
- Foreign citizens are mandatory to show proof of health insurance/travel insurance ownership which include health financing for quarantine & treatment if exposed with COVID-19
- Upon arrival, the passenger must go through an Isotermal Molecular test (NAAT/similiar) or RT-PCR test and must undergo a centralized quarantine 7 x 24 hours or 14 x 24 hours
- On the 6th day of the quarantine, both Indonesian (WNI) & Foreign Citizens (WNA) must go through another NAAT/RT-PCR test.
- On the 13th day of the quarantine, both Indonesian (WNI) & Foreign Citizens (WNA) must go through another NAAT/RT-PCR test.
 - Negative results: the traveler may continue their journey and are recommended to continue 14 days of self-quarantine and keep following the health protocols
 - Positive results: medical treatment on a isolation/health facilities based on the symptoms level will be given to Indonesian Citizens at the Indonesian government expense and for Foreign Citizens at their own expense;
- Traveling from Padang to dedicated isolation accommodation in Solok Selatan with using dedicated regular vehicle from site
- Upon arrival in appointed dedicated isolation accommodation will conduct next PCR with result
 - Negative results: the Company doctor prepares a clearance letter for starting on duty
 - Positive result : follow procedure in appendix 3

b) Domestic Travel (Jakarta & outside Solok Selatan)

- Domestic personal travel for personal leisure shall be restricted
- Domestic business travel for rotational employees must follow the protocol of medical check and Self-Isolation as stipulated in this Procedure.
- Domestic business travel for unavoidable meeting or appointment shall be approved by the President & CEO.
- Company encourage all Jakarta based employee to take first flight (11:00 AM)

4.2 Visitors and Business Meeting

a) Visitor

The access and acceptance for the visitor to entering the SEML site shall Page 10 of 14

be strictly controlled and restricted. All visitors shall fill a Medical Clearance Form and get prior approval from SEML KTPB/WKTPB prior to entering any SEML site and facilities. Visitors who are not business related shall not be allowed to enter the SEML site and facilities. Such approval shall be in writing.

For visitors under Supreme Energy employees from Jakarta office and other entities, the regulation shall refer to Memorandum for Guidelines Business Continuity Plan - Jakarta Office.

All visitors shall be Self-isolated prior to entering site area as specified under Section 4.6.

Level of potential contact shall be determined prior additional self-isolation required for visitors.

b) Business Meeting

Business meeting with other parties shall be limited as much as possible. The conference meeting by telephone and/or by internet access facilities is the first option.

Any unavoidable important and urgent meeting that needs to be attended is subject to fill up a Medical Clearance Form prior to entering the site and get approval of SEML KTPB/WKTPB. Such approval shall be in writing. The meeting as much as practical shall be held outside SEML site facilities.

7M COVID-19 prevention practices shall be implemented.

4.3 Safety Guidelines

a) Before & During Traveling

- Ensure all travel requirements are in-hand e.g. vaccine card / form, Antigen Swab Test result from the approved and registered laboratory, and when applicable, a Letter of Worker Registration (*Surat Tanda Registrasi Pekerja* / STRP)
- Do not travel if you do not fell well / sick or do not plan to travel with someone who is sick;
- Bring your valid ID Card/Passport/Visa
- Respect COVID-19 health protocol and follow the relevant Company regulations
- Provide appropriate PPE such as wear masks (N95) & Safety Googles or Face Mask, pocket hand sanitizer before leaving the house
- Be attention to minimize using public facilities during the traveling.
- Filling Health Alert Card (Peduli lindungi apps) during onboarding or at the arrival terminal

b) Protocol arrival in terminal destination and entering hotel/Self-Isolation

- All arriving passengers should have their body temperatures taken
- Keep the vaccine card, PCR or Antigen Test result, and Health Alert Card ready to be shown to authorities
- The SEML Jakarta based employees will be picked up by Company's assigned vehicle and directly travel to Solok Selatan.
- Immediately after arrive at self-isolation area, take 1st antigen swab test, take off your shoes and clothes and place those in your laundry basket
- Take shower immediately
- Clean up your mobile phone or safety googles/eyeglasses with alcohol or disinfectant including with all of your belongings
- Stay in your appointed self-isolation room and eat in your room with room services or delivery services
- Employees shall notify Company doctor or SHE personnel if they become symptomatic
- After receive 1st PCR result that shows negative result, the SEML employee will travel to Solok Selatan using an assigned vehicle.

c) Self-Isolation in appointed accommodation

- Upon arrival in Muara Laboh, Company will determine self-isolation accommodation
- Both (Jakarta and Muara Laboh) employee will stay for 3 days until obtain PCR result that shows negative result
- Company's appointed Doctor will issue a letter declared that the employee condition is fit to work and allowed to enter SEML premises
- All Crew change employee under self-isolation period, totally forbidden to leave the accommodation and return to his/her home without official approval from Contract Owner.
- Conduct incidental inspection to ensure all employees under isolation do not return back to his/her home without permit.
- NON Island mode employee is prohibited to entering SEML area. NON Island mode employee to support project or O&M on call basis is strongly advised to limit physical interaction with ISLAND MODE operation. Non-island mode employee will wear SPECIAL visible vest.
- Regular (weekly basis) disinfection will be done for frequently touch points at power plant area including operational vehicles.

4.4 Supporting Contractors

All direct supporting contractor's employees who are working within SEML facilities such as SEML Admin Block, Power Plant, CCR, Plant Office Building and other facilities shall follow the same regulation as describes in this Procedure including but not limited to drivers, camp services, and labor supply.

The direct supporting contractors who are working with SEML employees shall follow the SEML working schedule pursuant to Section 4.2 above. A segregation among the contractor employees shall also be applied. Additional

temporary employees will be considered to fill the gap, if necessary.

For EPC contractor and SEML Direct Contractors, a separate and specific procedure will be developed and shall align with this Procedure.

For other contractors, SEML will apply medical clearance certificate upon arrival and prior to entering site. Such medical clearance shall include PCR test results. Self-isolation period shall be applied to the contractor as described in Section 4.6. The personnel is obliged to wear mask and perform weekly antigen swab test during working at site.

4.5 Access Control and Check Point

At access control point Security Post SEML Admin Block, SEML will conduct body temperature screening and spraying hand sanitizers prior to entering the Muara Laboh Project Site in daily basis.

At access control point at Security Post GP9, SEML & EPC Contractor will also do the same for all workers prior entering the SEML site and facilities

At access control point at Power Plant Gate, SEML will conduct body temperature screening, spraying hand sanitizer and check Permit's validity, work document and/or reason to entering power plant site.

Any abnormal body temperature (equal and above 37.5 degree Celsius) will be immediately reported to the Site SHE and User Manager. He/she will be further screened for his/her health condition by a medical doctor from Company and/or Contractor.

4.6 Medical Arrangement

Company will provide and allocate a dedicated medical room at power plant for early medical treatment and examination by Doctor/Paramedic. The medical room will be also be utilized as a temporary and short-term isolation / quarantine room.

Company will assign dedicated doctor(s) during this period.

Specific arrangement to monitor the hygiene and health practices at site will be established. Specific procedure or occupational health program will be developed.

Attachment 3 of this Procedure shows protocol when found an employee with or suspected with COVID-19.

4.7 Emergency Response Team

Emergency Response Team shall refer to the applicable Emergency Response Team Procedure.

5. Mitigation Plan (When the Situation Getting More Serious)

Further mitigation procedure will be assessed based on site development and/or through instruction from the President & CEO of Supreme Energy, including but not limited to:

- Number of COVID-19 case is increasing significantly
- Government declaration of emergency situation in Indonesia
- Lock down of Solok Selatan or Padang or Jakarta
- There is suspected case of COVID-19 from SEML site employee
- There is suspected case of COVID-19 at SEML site premises.
- There is suspected case of COVID-19 from SEML site employee's family member.

In the event of any one of the above situations occurs, the President & CEO may instruct the followings:

- a) Scale Down Site Activities
 - Scale down the site activities and limit to only critical works, with the operations of Muara Laboh Geothermal Power Plant Unit-1 as priority.
 - Stop any incoming person to the site.
 - Self-Isolation protocol under Section 4.6 item a will be applied.
 - The salary of all affected standby employees will still be paid.
 - Further arrangement on SEML site employees who still be working during this period will be conducted.
 - If required, all O&M production team will be relocated to SEML Admin Complex.
- b) Project Isolation
 - Project Isolation will be called if there or suspected case of COVID-19 from SEML site employee and/or at SEML site premises or other cases. See Attachment 2.
 - Such Self-Isolation protocol under Section 4.6 will be applied.
 - If possible, the site activities will only be limited to the operations of Muara Laboh Geothermal Power Plant Unit-1 (O&M Operation personnel who are working in Power Plant CCR).
 - Stop any incoming person to the site.
 - The salary of all affected standby employees will still be paid.
 - Further arrangement on SEML site employees who still be working during this period will be conducted.

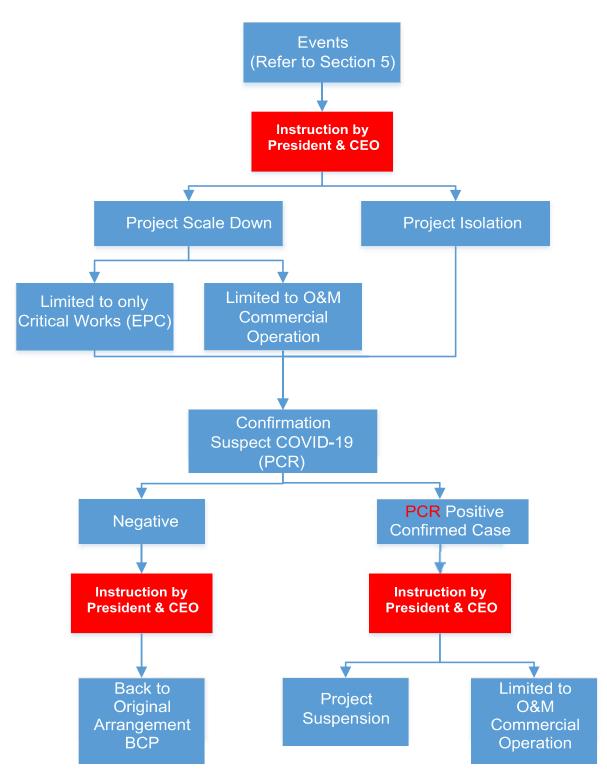
- c) Project Suspension
 - If any PCR swab test has confirmed case of COVID-19 found from SEML site employee and/or at SEML site premises, then all site activities will be suspended except power generation
 - If possible, the site activities will only be limited to the operations of Muara Laboh Geothermal Power Plant Unit-1 (O&M Operation personnel who are working in Power Plant CCR).

6. Attachments

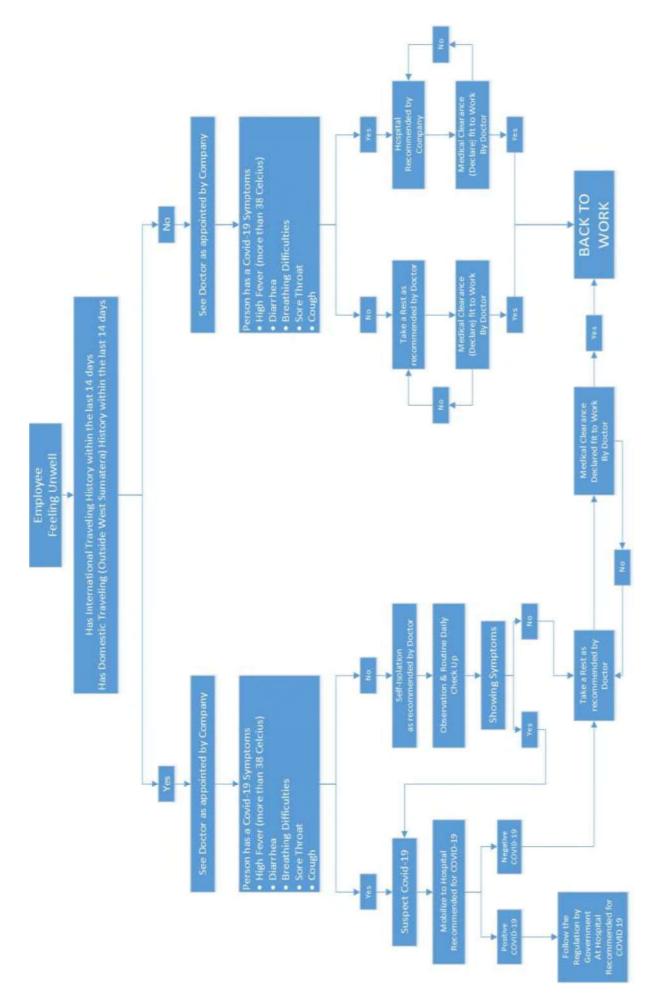
- Attachment 1 BCP Site Employee Arrangement
- Attachment 2 Flowchart Protocol if Suspected Case is Found
- Attachment 3 Flowchart Protocol if Found a Sick Employee / Worker

ATTACHMENT - 1 BCP Site Employee Arrangement

ATTACHMENT 2 Flowchart Protocol if Suspected Case is Found









OBJECTIVE BCP

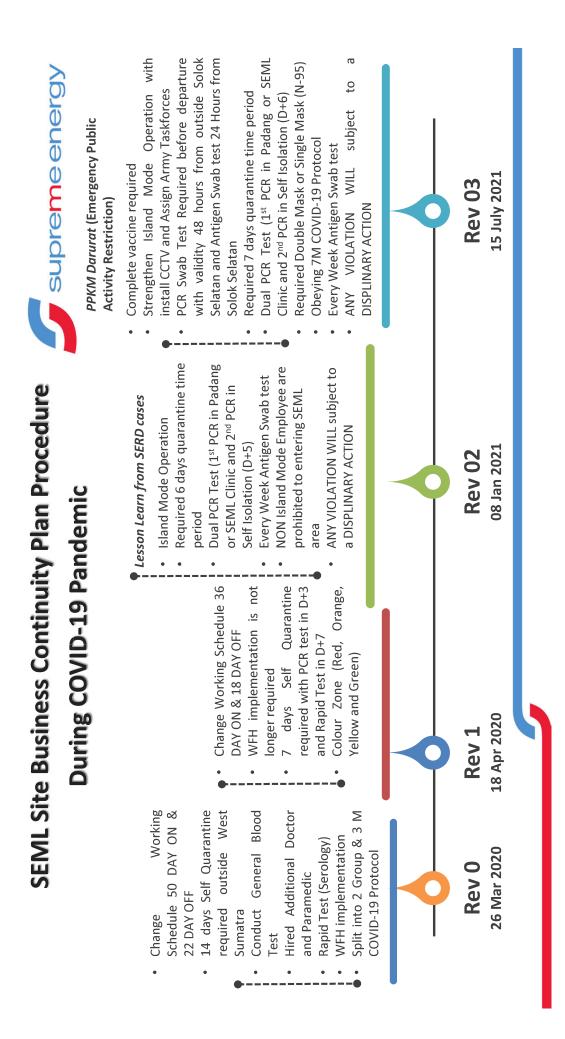


- Ensure the business continuation of site operations of Muara Laboh **Geothermal Power Plant Unit-1**
- Minimize the possibility of the employees to be exposed to the COVID-19 and at the same time limits the impact in case any employee is infected by the COVID-19. ī
- Implemented Island Mode Operation and enhance robust screening prior allow employee (SEML and Contractors) entering SEML Site area
- Provide mitigation plan if a suspected case found at SEML site premises (handling and evacuation process)



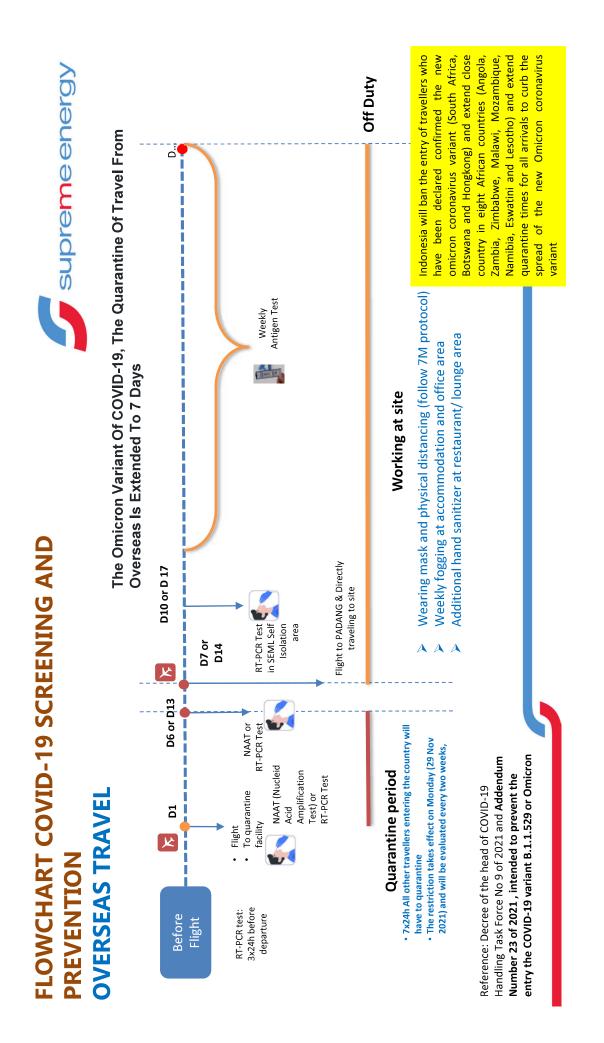


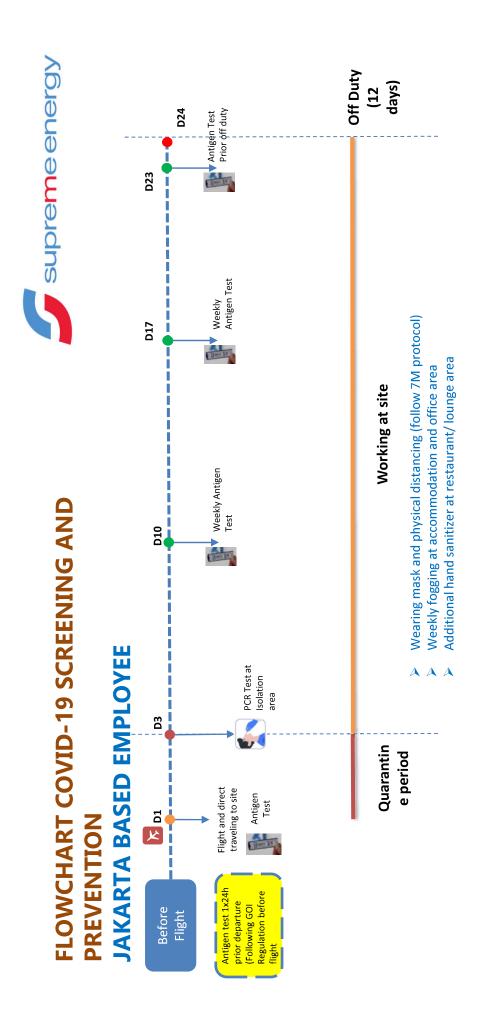


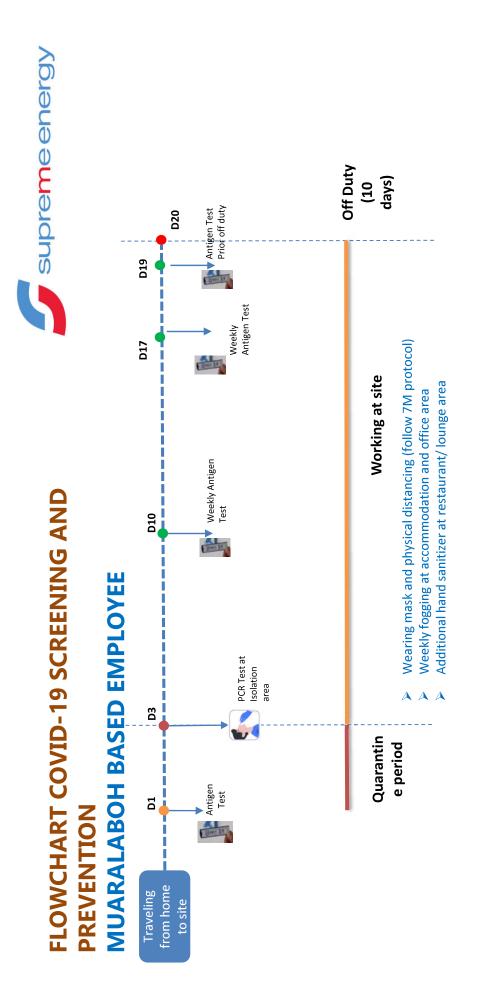


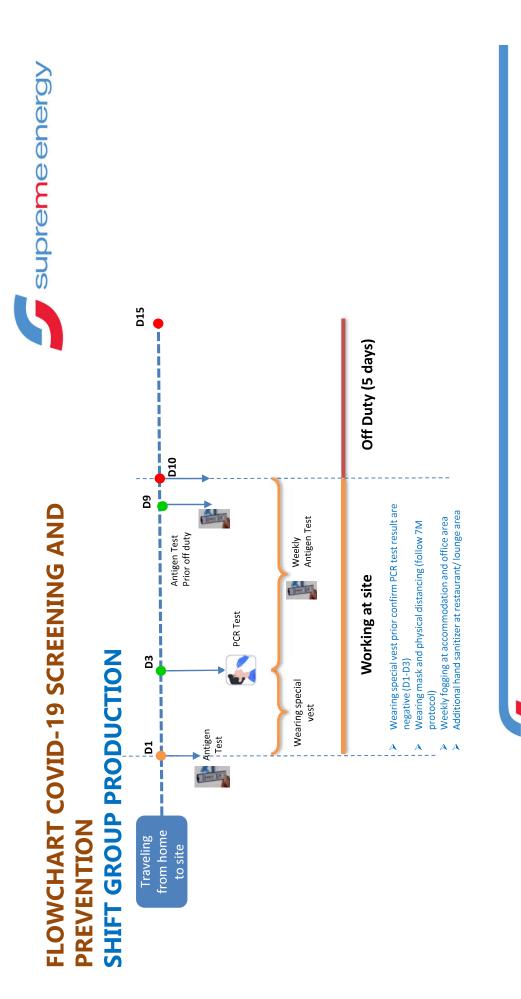
 Complete vaccine required (SEML, Contractor & visitor) for wh Rapid Antigen Swab Test Required before departure with vali Change Working Schedule with below arrangements Lakarta Based Employee (24:12) Muara Laboh Based Employee (24:12) Muara Laboh Based Employee (20:10) Production shift (10:5) Required 3 days quarantine time period and all basic need will Required 3 days quarantine time period and all basic need will briect Traveling from Padang to appointed self-isolation area On D+3 take PCR Swab test, waiting result, D+4 after received Every Week Antigen Swab test Antigen swab test Antigen swab test through international HACC allowed to eat in restaurant (buffet) to reduce plastic wastes Sterilization atomic spray fogging will be conduct on weekly room, admin office, Supervisor room, permit office, pantry, w ANY VIOLATION WILL subject to a DISPLINARY ACTION 	SEML Site Business Continuity Plan Procedure During COVID-19 Pandemic	supremeenergy
	 Complete vaccine required (SEMI, Contractor & visitor) for who will entering SEML area Rapid Antigen Swab Test Required before departure with validity 24 hours before departure from an approved and registered laboratory Change Working Schedule with below arrangements Lakara Based Employee (24:12) Muara Laboh Based Employee (24:12) Muara Laboh Based Employee (24:12) Production shift (10:5) Production shift (10:5) Production shift (10:5) Required 3 days quarantine time period and all basic need will be delivered to his/her room Required 3 days quarantine time period and all basic need will be delivered to his/her room Required 3 days quarantine time period and all basic need will be delivered to his/her room Required 3 days quarantine time period and all basic need will be delivered to his/her room Required 3 days quarantine time period and all basic need will be delivered to his/her room Required 3 days quarantine time period and all basic need will be delivered to his/her room Required 3 days quarantine time period and all basic need will be delivered to his/her room Required 3 days quarantine time period and all basic need will be delivered to his/her room Required 3 days quarantine time period and all basic need will be delivered to his/her room Required 3 days quarantine time period and all basic need will be delivered to his/her room Required 3 days quarantine time period and all basic need will be delivered to not dot or, employee can be allowed to work at site area with respect 7M Retex Week Antigen Swab test before departure (Field break time) Antigen swab test b	for who will entering SEML area I:h validity 24 hours before departure from an approved and registered laboratory ed will be delivered to his/her room n area , upon arrival taken rapid antigen swab test by SEML Doctor or SEML Paramedic ceived clearance from doctor, employee can be allowed to work at site area with respect 7M HACCP (Hazard Analysis and Critical Control Points) standard, all SEML island mode employee are astes & Physical distancing implementation by maintaining minimum 1 meter distance eekly basis at all accommodation area (admin office and TO#2) and office (Plant office, control try, workshop and warehouse)
		Rev 4 27 Nov 2021

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ATTACHMENT 3



MENTERI LINGKUNGAN HIDUP DAN KEHUTANAN REPUBLIK INDONESIA

KEPUTUSAN MENTERI LINGKUNGAN HIDUP DAN KEHUTANAN REPUBLIK INDONESIA NOMOR SK.1307/MENLHK/SETJEN/KUM.1/12/2021 TENTANG HASIL PENILAIAN PERINGKAT KINERJA PERUSAHAAN DALAM PENGELOLAAN LINGKUNGAN HIDUP TAHUN 2020 - 2021

DENGAN RAHMAT TUHAN YANG MAHA ESA

MENTERI LINGKUNGAN HIDUP DAN KEHUTANAN REPUBLIK INDONESIA,

- Menimbang : a. bahwa untuk melaksanakan ketentuan Pasal 43 Peraturan Menteri Lingkungan Hidup dan Kehutanan Nomor 1 Tahun 2021 tentang Program Penilaian Peringkat Kinerja Perusahaan dalam Pengelolaan Lingkungan Hidup, perlu menetapkan peringkat kinerja pengelolaan lingkungan hidup;
 - b. bahwa pelaksanaan penetapan peringkat kinerja sebagaimana dimaksud dalam huruf a berdasarkan hasil evaluasi kriteria penilaian program penilaian peringkat kinerja perusahaan dalam pengelolaan lingkungan hidup;
 - c. bahwa berdasarkan pertimbangan sebagaimana dimaksud dalam huruf a dan huruf b, perlu menetapkan Keputusan Menteri Lingkungan Hidup dan Kehutanan tentang Hasil Penilaian Peringkat Kinerja Perusahaan dalam Pengelolaan Lingkungan Hidup Tahun 2020-2021;