

Environmental Monitoring Report

PUBLIC

Project Number: 55020-001

Loan Number: 4283

Semestral Report (January – June 2025) July 2025

Indonesia: Infrastructure Improvement for Shrimp Aquaculture Project

Prepared by the Directorate General of Aquaculture, Ministry of Marine Affairs and Fisheries for the Asian Development Bank (ADB).

This environmental monitoring report is a document of the borrower. The views expressed herein do not necessarily represent those of ADB's Board of Directors, Management, or Staff, and may be preliminary in nature. Your attention is directed to the "[terms of use](#)" section of ADB's website.

In preparing any country program or strategy, financing any project, or by making any designation of or reference to a particular territory or geographic area in this document, ADB does not intend to make any judgments as to the legal or other status of any territory or area.

TABLE OF CONTENTS

TABLE OF CONTENTS.....	1
LIST OF TABLES.....	2
LIST OF FIGURES.....	2
LIST OF APPENDIXES	2
I. INTRODUCTION	1
II. PROGRESS OF CORE SUB-PROJECTS	1
III PROGRESS OF NEW SUB-PROJECTS.....	5
IV INSTITUTIONAL SETUP AND RESPONSIBILITIES FOR EMP IMPLEMENTATION AND SUPERVISION.....	17
V COMPLIANCE WITH ENVIRONMENT RELATED PROJECT COVENANTS	24
VI MITIGATION MEASURES.....	25
VII QUANTITATIVE MONITORING.....	29
IX HEALTH AND SAFETY	32
X ENVIRONMENTAL TRAINING.....	33
XI KEY ENVIRONMENTAL ISSUES.....	34
XII CONCLUSION	35

LIST OF TABLES

Table 1. Changes and Progress of IISAP Core Subprojects.....	2
Table 2. Siting Criteria (Ref. EARF, Nov 2023; 55020-001-earfab.pdf)	5
Table 3. Overview of new SubProject	11
Table 4. Domestic Environmental Screening Criteria – Fishery and Multisector	17
Table 5. Environment Safeguard Focal Person for IISAP	18
Table 6. Environmental Safeguard Personnel in Consultants, Contractors, and Vendors	18
Table 7. Contract and Clauses Safeguard Documents Status for the Construction Works	23
Table 8. Compliance with IISDAP Loan Covenants of Environmental Safeguards	24
Table 9. Responsibilities for HSE Monitoring and Reporting	29
Table 10. Sampling Point for Environmental Quality Tests.....	30
Table 11. Compliance with Occupational Health and Safety Compliance (Yes, No, Partial)	33
Table 12. Training and Capacity Building Related to Environmental Safeguard.....	33
Table 13 Environmental Issues.....	34

LIST OF FIGURES

Figure 1. Proposed Waste Treatment Scheme of UPT Pond Pinrang	26
Figure 2. Wastewater Treatment at the Pinrang Pond UPT.....	26
Figure 3. Wastewater Treatment for Community Ponds and Broodstocks	26
Figure 4. Wastewater Treatment for labs	27
Figure 5. Site plan of laboratories in BPBAP Ujung Batee (Aceh).....	28

LIST OF APPENDICES

Appendix 1 PKKPR SEA.....	37
Appendix 2 PKKPR Land	39
Appendix 3 Situation of Pasir Sakti Channel to Mangrove.....	40
Appendix 4 Traffic Management Plan	41
Appendix 5 Environmental Monitoring and Management Plan	42
Appendix 6 Air Quality Test Results	50
Appendix 7 Noise Test Results	51
Appendix 8 Water Quality Test Results	52
Appendix 9 Planning Training and Capacity Building	56
Appendix 10 NIB And SPPL.....	57
Appendix 11 The coordinates of sampling points	58

I. INTRODUCTION

1. The ADB approved the Infrastructure Improvement for Shrimp Aquaculture Project (IISAP, Loan No. **4283-INO**) on 14 December 2023, for an amount of ¥13,940,700,000 (equivalent to \$93.0 million). The project became **effective on 23 January 2023** with a completion date of 30 June 2028.
2. The project will help MMAF to introduce sustainable shrimp aquaculture to increase the productivity, quality, profitability, and environmental sustainability of shrimp farming by smallholders. The project is aligned with the following impact: contribution of the fisheries industry to the national economy increased. It will have the following outcome: productivity, profitability, and environmental sustainability of shrimp aquaculture increased. The project will be delivered through three outputs:
 - Output 1: Quality and sustainability of inputs for shrimp production increased
 - Output 2: Sustainable and climate adaptive aquaculture infrastructure and services developed
 - Output 3: Shrimp aquaculture supply chain strengthened
3. The DGA, MMAF is the executing agency, under which the CPMU or PMO has been established; and the Directorate for Regional Development Aquaculture, and Fish Health and Environment, Directorate of Fish Feeds and Medicine, and Directorate for Seeds under DGA, and MMAF technical operating units (UPTs) are the implementing agencies, under which six PIUs¹ have been established i.e., (i) Brackish Water Aquaculture Development Center (BPBAP) Ujung Batee (Aceh); (ii) Center for Investigation of Fish Health and Environment (BPKIL) Serang (Banten); (iii) Main Center for Brackishwater Aquaculture Development (BBPBAP) Jepara (Central Java); (iv) Brackishwater Aquaculture Development Center (BPBAP) Situbondo (East Java); (v) Broodstock Center for Shrimp and Mollusc (BPIU2K) Karangasem (Bali), and (vi) Brackish water Aquaculture Development Center (BPBAP) Takalar (South Sulawesi).

II. PROGRESS OF CORE SUB-PROJECTS

4. Core sub-projects are those identified and assessed during loan preparation in 2021-2022. Their feasibility studies and environmental assessments were completed and approved with environmental management plans (EMPs) ready for implementation but not all environmental assessments in-country. Their overview and progress so far is summarized in **Table 1**.
5. During this reporting period, there are major changes for the core sub-projects. The most notable change is that all subprojects on UPT shrimp pond subprojects are being dropped except for the one in Pinrang, South Sulawesi. Secondly, the BBPBL laboratory in **Pesawaran (Lampung)** is also dropped. The third change is the need to dig a deep well in the UPT Shrimp ponds in Pinrang (South Sulawesi). The drilling and extraction of groundwater (GW) requires environmental impact assessment (UKL-UPL) for the corresponding permits. In addition,

¹ One of the PIUs dropped, i.e., BBPBL Lampung dropped. For community shrimp ponds cluster and non clusters in Lampung will be managed by BBPBAP Jepara (Central Java)

exploitation of the potential groundwater requires a groundwater drilling permit (SIP), which is then required for groundwater exploitation (SIPA). Both groundwater exploration and exploitation require permits, i.e., SIP and SIPA, respectively. For the only remaining UPT pond subproject, the UKL-UPL is planned to start in November 2024 and is planned to be completed in February 2025. Work is required to obtain a groundwater permit, which is expected to commence in September 2024 with the design of boreholes. During this period, the adequacy of the environmental documentation for the Lab, MBC and UPT ponds has also been determined, as shown in the table below.

Table 1. Changes and Progress of IISAP Core Subprojects

PIUs and Core Subproject	Original Design	Changes	Domestic Environment Status	Remarks
Shrimp Pond				
BPPBAP Takalar (South Sulawesi)	UPTs Pond (Pinrang), 70 ha, 40 ponds x 2,000 m ³	Construction and operation of deep well to get ground water requires Gov additional permits as applicable	Draft UKL-UPL with support of Andalalin and PKKPR-D being prepared by the team assigned by PMTC with a target completion date of August 2025.	<ul style="list-style-type: none"> ➤ There are 2 locations of drilled well points. Location 1 for pond activities and Location 2 for domestic/office, with a depth of 150 meters and a capacity of @15 m³/day. ➤ Data needs analysis and water balance calculations have been carried out for domestic and non-domestic water needs, pond and office needs, ➤ SIPA licensing will soon be submitted by the contractor to the relevant agencies, based on data analysis of borehole needs ➤ Due diligence for UPT Shrimp Ponds shall be prepared
Broodstock (NBC/MBC)				

PIUs and Core Subproject	Original Design	Changes	Domestic Environment Status	Remarks
BPIU2K (Karangasem, Bali)	BC Bugbug Karang Asem 4.1 ha within the complex; 50% capacity increase	Development activities at BPIU2K Karangasem include MBC rehabilitation and construction of new laboratories. There is additional construction of new laboratories in other locations within the complex	UKL-UPL (2020, completed) (Ref. No 660/2170/DLH/2020) An independent screening has been conducted between PMTC and the environmental consultant, that to include the construction of a new laboratory in the BPIUK Karangasem Bali complex requires Revision of UKL-UPL, which will be confirmed with the local environmental agency, DLH. A letter of request for direction of environmental documents has been submitted to the Karangasem District Environmental Agency. Currently, the UKL-UPL revision is in the process of Pertek and waste approval process with a target completion in August 2025.	<ul style="list-style-type: none"> ➤ Revision of UKL-UPL is required to accommodate the construction of new laboratory and rehabilitation of NBC/MBC (both are in the same location). ➤ The UKL-UPL revision will be processed by an environmental consultant with support from PMTC with a target completion date of August 2025. ➤ PMTC will also assist in the PKKPRL completion process
BPBAP(Ujung Batee, Aceh)	MBC Aceh 7.27 hectares; 75% capacity increase		UKL-UPL (2023, completed) – integrated with the laboratory (collocated) (Ref. No. 660/028/UKL-UPL/XII/2023)	<ul style="list-style-type: none"> ➤ Co-located with lab, and integrated in one UKL-UPL ➤ PMTC will assist in PKKPRL process.
BPBAP Takalar (South Sulawesi)	MBCs Takalar 2 ha Capacity increase by 50%		The UKL-UPL is in the on-going process, waiting for approval of PKKPRD with a target completion date of September 2025.	A new UKL-UPL is required to accommodate the MBC development. The UKL-UPL will be developed with the support of environmental consultants and from PMTC.

Laboratories ²				
BBPBAP Jepara, Central Java	Lab. Jepara 2.3 Ha Increased capacity by 50%		UKL-UPL (2023, completed) (Ref. No. 667.2/PL/14/2023)	
BPBAP Takalar (South Sulawesi)	Lab. Takalar 3 ha Capacity increase by 300%		UKL-UPL (2023, completed) (Ref. 018/DLHP-LH/PL/XI/2023)	
BPBAP Situbondo, East Java	Lab. Situbondo 3 Ha Capacity increase by 100%		UKL-UPL (2023, completed) (Ref. No. 660/02/431.309.2/PKPLH/2023)	
BPBAP (Ujung Batee, Aceh)	Aceh Lab 1.3 hectares; Increased capacity 100%		UKL-UPL (2023, completed) - integrated with MBC (Ref. No. 660/028/UKL-UPL/XII/2023)	<p>MBC is located in the same location as the laboratory, and integrated in one UKL-UPL</p> <p>PMTC will assist in the</p>

				PKKPRL completion process.
BPKIL Serang, Banten	Lab. Serang 5.5 Ha Increased capacity by 300%	Additional requirement for traffic impact assessment	Draft DPLH, including Pertek (Wastewater) and Rintek (Hazardous Wastes) prepared by PMTC BPKIL Serang is preparing <i>Andalalin</i> to support the DPLH (as required by <i>Dishub</i>)	Delayed due to additional requirement of traffic impact assessment (<i>Andalalin</i>). The study is still ongoing with a target of completion in August 2025
BPIU2K Karang Asem (Bali)	Lab. Bugbug Karangasem 4 Ha Increased capacity by 50%	Development activities at BPIU2K Karang Asem includes MBC rehabilitation and construction of a new laboratory. There is additional construction of new laboratories in other locations within the complex.	UKL-UPL (2020, completed) – (Ref. No 660/2170/DLH/2020) It has been screened independently between PMTC and the environmental consultant, that to include new laboratory construction activities in the BPIUK Karangasem Bali complex requires a revised UKL-UPL, which will then be confirmed with the local environmental agency, DLH. A letter of request for direction of environmental documents has been submitted to the Karangasem District Environmental Agency. Currently, the UKL-UPL revision is in the process of Pertek approval and effluent review with a target completion date of August 2025.	The UKL-UPL revision is required to accommodate the expansion of the laboratory and NC/MBC (both in the same location). The UKL-UPL revision will be processed by a third party with support from PMTC with a target completion date of August 2025.

² As noted in SA-EMR #1, laboratory for Lampung was dropped.

6. PKKPRL is a permit in Indonesia to use sea space, including beaches, for all activities that use sea space and marine resources, commercial and non-commercial based on the Minister of Marine Affairs and Fisheries Regulation No. 28 of 2021 concerning the Implementation of Marine Spatial Planning. Community ponds do not take seawater directly from the sea and do not use sea space, so they do not require PKKPRL. However, if in the future it will use/take seawater for its activities, it will require PKKPRL. Approval for compliance with the marine spatial plan (PKKPRL)¹ for the Pinrang subproject as per the Decree of the Minister of Marine Affairs and Fisheries No. B.1871/MEN-KP/XI/202, dated November 9, 2023 and Takalar as per the Decree of the Minister of Marine Affairs and Fisheries No.B.1872/MEN-KP/XI/2023, dated November 9, 2023 has been granted, while for the Aceh and Karangasem Bali subprojects it is currently in the process of being obtained. (**Appendix 1**).

7. PKKPRD is an Approval of Conformity of Space Utilization Activities for activities on land. It is a licensing document stating that the planned space utilization activities, such as development or business, are in accordance with the applicable Spatial Plan (RTR), especially for areas that do not yet have a Spatial Detail Plan (RDTR) or RDTR that has not been integrated with the OSS (Online Single Submission) system. This PKKPRD is part of an environmental document, in accordance with Government Regulation No. 22 of 2021 concerning the Implementation of Environmental Safeguard and Management (Appendix III Guidelines for Filling in the UKL - UPL Form), namely the initiator must have basic approval in the form of Conformity of Land Use Activities (KKPR Land). Of the 11 core project activity plans there are 6 locations that already have PKKPRD, 4 more locations are still in process, namely pond activities in Pinrang, labortorium activities in Takalar, BC in Tigaron Karangasem and modern ponds in North Bolaang Mongondow (**Appendix 2**).

III PROGRESS OF NEW SUB-PROJECTS

8. For the eligibility all new subprojects shall meet the siting criteria as presented in **Table 2**. Compliance with the criteria shall be proved with overlay with maps or issuance of certain approval (for example compliance with coastal spatial plan).

Table 2. Siting Criteria (Ref. EARF, Nov 2023; [55020-001-earfab.pdf](#))

Type	Key environ siting criteria in the EARF
All	Comply regional, coastal spatial plan
Ponds, broodstock hatchery etc.	Not inside or in 100 m from boundary of mangrove or any protected areas;
	Min. 100 m from coastal line, min 100m from bank of large river, min. 50 m for small river
	Free from pollution, hazards etc.
Rural roads or others canal etc.	Not inside mangrove and any protected or conservation areas
	Min. 5m from river embankment foot; min 100m from large river without embankment; min 50m from tributary without embankment
Lab	Avoid areas prone to flood, fire, landslide, volcanoes eruption, etc.

¹ In the event that the project utilizes marine space for pipeline laying or WWTP treatment and discharge, PKKPRL should be secured as a mandatory requirement (in addition to onshore spatial compliance).

9. Facilitators under the direction of PMTC have collected data on the features of the new subprojects and initial screening for their environmental safeguards requirements. All locations so far meet all environmental site criteria in EARF, except for Pasir Sakti (East Lampung). At this location there is a channel from the pond to the protected mangrove forest. Based on the results of discussions and consultations with the River Basin Agency (BBWS), the channel repair will still be carried out by complying with the agreed administration and work methods. Administratively, BBWS will issue a technical recommendation letter for the arrangement of the pond channel, as well as recommendations from the East Lampung Regency Forestry Service regarding the mangrove forest in the activity location. While the work method used is to empower the surrounding community in normalizing the channel, without the use of heavy equipment. An image of the location is presented in **Appendix 3**. Mostly SPPL required for each ponds cluster at respective location (less than 10 ha as threshold for UKL-UPL) and equal to Category C according to ADB standard, as presented in **Table 3** and documented in SADP. However, each will be consulted and confirmed with local environmental agency (DLH).

10. During this reporting period, an Area-Based Shrimp Pond Aquaculture was selected: the construction of a modern shrimp farm in North Bolaang Mongondow District. A Master Plan is currently being developed for this project, which will be used as a reference for the DED. The DED will then be used for the environmental approval documents. These documents are expected to be finished by the end of 2025. As well as the Tigaron Broodstock Development in Kubu District, Karangasem Regency, Bali Province, which is the renovation of the Hatchery and several supporting buildings, the DED and budget (RAB) have been made and are currently in the process of preparing environmental approval documents

Table 3. Overview of new SubProject

No.	Subproject	Tech essentials	Scale (ha or km)	Location and Site Features	Domestic Environ Requirement	Conclusion (cat. A, B, C)
A.	Cluster of Community Shrimp Ponds	Semi intensive ponds	<p>Typical scale and components for each pond at respective location:</p> <ul style="list-style-type: none"> - Total 5 ha with 2,500 m² per pond - Water reservoir (10,000 m²) - WWT (10,000 m²) - Irrigation canal (@ 1000 m² (l=250m; w= 4 m) - Buildings - Production/ access roads (1200 m² (pj=300; lbr=4 m) - Mangrove plantation (550 seedlings) 	<p>Aceh Besar: Ladong Village, Sub-district Mesjid Raya</p> <p>Biureun : Blang Me Timu Village, Sub-district Jeunih</p> <p>Pidie Jaya: Paya Village, Sub-district Tringgadeng</p> <p>East Lampung: Purworejo Village, Sub-district Pasir Sakti</p> <p>South Lampung: Berundung Village, Sub-district Ketapang</p> <p>Bone (1) : Sumpang Minangae Village, Sub-district Sibulue Bone (2) : Bulie Village, Sub-district Sibulue</p> <p>Sinjai : Bua Village, Sub-District Tellulimpoe</p> <p>Bulukumba: Manyampa</p>	<p>8 NIBs of Pokdakan members and 8 SPPL documents from a total of 11 members have been completed.</p> <p>5 NIBs of Pokdakan members and 5 SPPL documents from a total of 10 members have been completed</p> <p>0 NIBs of Pokdakan members and 0 SPPL documents from a total of 12 members have been completed</p> <p>10 NIBs of Pokdakan members and 9 SPPL documents from a total of 10 members have been completed</p> <p>0 NIBs of Pokdakan members and 0 SPPL documents from a total of 20 members have been completed</p> <p>0 NIBs of Pokdakan members and 0 SPPL documents from a total of 21 members have been completed</p> <p>9 NIBs of Pokdakan members and 9 SPPL documents from a total of 10 members have been completed</p> <p>1 NIBs of Pokdakan members and 0 SPPL documents from a total of 11 members have been completed</p>	<p>Category. C So far, all sites meet all environmental site criteria in the EARF.</p> <p>SPPL requirement for all new sub-projects considering the cluster pond area which less than 10 ha (on average the size is 5 ha).</p>

No.	Subproject	Tech essentials	Scale (ha or km)	Location and Site Features	Domestic Environ Requirement	Conclusion (cat. A, B, C)
				Village, Sub-district Ujung Loe	documents from a total of 10 members have been completed	
				Wajo: Pattangae Village, Sub-district Bola	0 NIBs of Pokdakan members and 0 SPPL documents from a total of 14 members have been completed	
B	Non-Cluster of community Shrimp Ponds	Traditional ponds with scale and components: - Reservoir - Waste Water Treatment - Irrigation canals - Mangroves plantation	154 ponds total 150 ha	Aceh Besar: Ladong Village, Sub-district Mesjid Raya	13 NIBs of Pokdakan members and 13 SPPL documents from a total of 154 members have been completed.	Category C For all ponds so far considering the area is less than 10 ha, and all sites meet all environmental siting criteria
			734 ponds total 325 ha	North Aceh: Matang Puntong Village, Sub-district Seunoddon, Matang Panyang Village, Sub-district Seunoddon, Cut Petisah Village, Sub-district Seunoddon, and Lhok Puuk Village, Sub-district Seunoddon	12 NIBs of Pokdakan members and 12 SPPL documents have been completed from a total of 329 Members	
			1087 ponds total 560 ha	Biereun: Blang Me Village, Sub-district Jeunih, Kuala Raja Village, Sub-district Kuala, and Ujung Blang Village, Sub-district Kuala	23 NIBs of Pokdakan members and 23 SPPL documents have been completed from a total of 380 members	
			366 ponds total 185 ha	Pidie: Meuraksa Village, Sub-district Kembang Tanjung, Tanjung Krueng Village, Sub-district Kembang Tanjung, and Kayee Panyang Village, Sub-district Kembang Tanjung	210 SPPL documents in process	
			960 ponds total 475 ha	Pidie Jaya: Sagoe Village, Sub-district Tringgadeng, Udeung Village, Sub-district Bandar baru, Cot Lheu Village,	4 NIBs of Pokdakan members have been completed and 628 SPPL documents are	

No.	Subproject	Tech essentials	Scale (ha or km)	Location and Site Features	Domestic Environ Requirement	Conclusion (cat. A, B, C)
				Sub-district Tringgadeng, Meunasah Jurong Village, Sub-district Meurah Dua, and Tijien Daboh Village, Sub-district Ulim	in the process of being processed.	
			700 ponds totaling 475 ha	East Lampung (1): Purworejo Village, Pasir Sakti Sub-district	340 NIBs of Pokdakan members and 300 SPPL documents out of a total of 414 members have been completed.	
			365 ponds totaling 350 ha	East Lampung (2): Bandar Negri Village, Labuhan Maringgai Sub-district	68 NIBs of Pokdakan members and 68 SPPL documents out of a total of 365 members have been completed. (Appendix10 NIB And SPPL)	
			485 ponds totaling 400 ha	South Lampung: Pematang Pasir Village, Ketapang Sub-district	119 NIBs of Pokdakan members and 119 SPPL documents from a total of 320 members have been completed.	
			Total 380 ponds with 183 ha	Jembrana: Budeng Village, Jembrana Subdistrict, Lelateng Village, Negara Subdistrict, Tegal Badeng East Village, Negara Subdistrict, Pengambengan Village, Negara Subdistrict and Tuwed Village, Melaya Subdistrict	36 NIBs of Pokdakan members and 36 SPPL documents from a total of 199 members have been completed.	
			488 ponds with a total of 200 ha	Bone: Mallusetasi Village, Sibulue Sub-district Mabiring Village, Sibulue Sub-district, and Pattiro Riolo Village, Sibulue Sub-	210 NIBs of Pokdakan members and 210 SPPL documents from a total of 323 members	

No.	Subproject	Tech essentials	Scale (ha or km)	Location and Site Features	Domestic Environ Requirement	Conclusion (cat. A, B, C)
				district	have been completed.	
			Total 812 ponds with an area of 583 ha	Sinjai: Balandnipa Village, North Sinjai Subdistrict, Lappa Village, North Sinjai Subdistrict, Samataring Village, East Sinjai Subdistrict, Tongke-Tongke Village, East Sinjai Subdistrict, Pasimarannu Village, East Sinjai Subdistrict, Panaikang Village, East Sinjai Subdistrict, and Samataring Village, East Sinjai Subdistrict.	130 NIBs of Pokdakan members and 129 SPPL documents from a total of 539 members have been completed.	
			323 ponds with a total of 323 ha	Bulukumba: Garanta Village, Ujung Loe Sub-district and ManyakKP Village, Ujung Loe Sub-district	Completed 95 NIBs of Pokdakan members and 95 SPPL documents from a total of 281 members	
			396 ponds with a total of 200 ha	Wajo: Pasir Putih Village, Bola Sub-district and Minangae Village, Sajoangin Sub-district	212 NIBs of Pokdakan members and 177 SPPL documents from a total of 354 members have been completed.	
			Total 118 ponds with an area of 118 ha	Pinrang: Data Village, Duampanua Sub-district	89 NIBs of Pokdakan members and 32 SPPL documents from a total of 118 members have been completed.	
C.	Area-Based Shrimp Pond Aquaculture	Modern Shrimp Pond Tatelu Freshwater Aquaculture Center (BPBAT	Cultivation Area about 194 Ha Supporting Area about 2.64 Ha Main Components of the Pond : - Shrimp rearing	Biontong 1 Village, Bolang Itang East Sub- district, North Boolang Mongondow District North Sulawesi Province	Currently, activities for the modern pond sub-project in North Boolang Mongondow are still in the Master	Subject to screening and categorization (expected to be B Category)

No.	Subproject	Tech essentials	Scale (ha or km)	Location and Site Features	Domestic Environ Requirement	Conclusion (cat. A, B, C)
		Tatelu) North Sulawesi	<ul style="list-style-type: none"> plots/ponds - Seawater reservoir pond - Sewage Treatment Pond - Runoff water channel around the pond area - Inlet channel - Outlet Channel - Production Road - Laboratory - Harvesting ward - Pond guard house <p>Supporting Infrastructure:</p> <ul style="list-style-type: none"> - Management Office - Control room - Operator's house / employee mess - House of Worship/public facilities - Warehousing (feed, saprokan, etc.) 		<p>Plan Development process.</p> <p>Based on business type category Environmental Approval Documents required:</p> <ol style="list-style-type: none"> 1. UKL-UPL document 2. Wastewater Pertek 3. Rintek B3 Waste 4. Andalalin 5. PKKPR_Marine 6. PKKPR_Land <p>The activities of making this document will be carried out if the location and design have been finalized and agreed upon.</p>	
D	Broodstock (NBC/MBC)	BC Tigaron Karangasem-Bali BPIU2K Karang Asem (Bali)	<p>Supporting Area about 2 Ha</p> <p>Rehabilitation Activity:</p> <ol style="list-style-type: none"> 1. Hatchery Building (Rehab) 2. Hall Building (R) 3. Tandon Building (R) 	Sukadana village Kubu sub-district Karangasem district Bali	<p>Independent screening has been conducted between PMTC and the environmental consultant.</p> <p>This rehabilitation</p>	<p>Subject to screening and categorization (expected to be B Category)</p> <p>Category. B</p>

No.	Subproject	Tech essentials	Scale (ha or km)	Location and Site Features	Domestic Environ Requirement	Conclusion (cat. A, B, C)
			4. WWTP (R) 5. Pump House (New) 6. Generator (N) 7. Reservoir Building (N)		construction activity requires a new UKL-UPL, which will be further confirmed with the local Environmental Agency. With this category eating environmental approval requires UKL-UPL documents, PKKPR Land, Andalalin Technical Approval, Pertek, and Waste management plans with a target completion of October 2025.	

11. As sector loan, new sub-projects have been identified since the loan became effective. Their basic information and national environmental requirements are shown in **Table 4** with current progress. The last column on categorization is the result of screening according to the criteria and procedures in the EARF. The screening criteria and siting criteria in the EARF are reproduced below, against which these sub-projects are checked and screened to determine their environmental category.

Table 4. Domestic Environmental Screening Criteria – Fishery and Multisector

No.	Indicative Type of Projects	Threshold Criteria by Scale		
		AMDAL	UKL-UPL	SPPL
A	Shrimp Aquaculture			
	Shrimp aquaculture (sea water)	>500 Ha	500 - >10 Ha	≤10 Ha
	Shrimp aquaculture (brackish water)	>500 Ha	500 - >10 Ha	≤10 Ha
B	Infrastructure (Public Works)			
	New development of irrigation	≥ 3000 ha	3000 – 1,000 ha	< 1,000 ha
	Improvement of irrigation (additional irrigation schemes)	≥ 1,000 ha	1,000 - 100 ha	< 100 ha
	Rural roads: (by length) (by land acquisition area)	≥5 km with land acquired ≥ 40 Ha ≥ 40 ha	<5 km and/or land acquisition < 10 ha <40 Ha	
	Development / Rehabilitation / Renovation of buildings (including laboratory)	Built area ≥ 10,000 m ²	5,000 – 10,000 m ² , except for cultural heritage which require AMDAL for any scale	< 5,000 m ² , except cultural heritage which require AMDAL for any scale
	Construction of drainage			
	a. Big /Metropolitan city	≥ 5 km	5 km > Length > 100 m	< 100 m
	b. Medium/Small city or rural area	≥ 10 km	10 km > Length >100 m	< 100 m
	Drilling for groundwater (with flow)	≥50 l/sec	50 l/sec > Flow > 10 l/sec	< 10 l/sec
	Retaining wall and/or breakwater	≥ 500 m	500 m > Length > 10 m	≤ 10 m
C	Energy (Electricity)			
	Development of solar photovoltaic powerplant (PLTS)	≥ 50 MW	≥ 1 MW – < 50 MW	< 1 MW

ha = hectare, km = kilometer, l = liter, m = meter, m² = square meter, MW = megawatt, sec = second.

Source: MOEF Regulation No. 4/2021

ADB

1. If ponds cluster >10 ha, need UKL-UPL = IEE
2. Rural roads: but in-farm production road just SPPL
3. Irrigation: serve 100-1000 ha need UKL-UPL = IEE.

1. *Jika kluster tambak >10 ha, perlu UKL-UPL = IEE*
2. *Jalan desa: jalan produksi hanya perlu SPPL*
3. *Irigasi: melayani 100-1000 ha perlu UKL-UPL = IEE.*

30

IV INSTITUTIONAL SETUP AND RESPONSIBILITIES FOR EMP IMPLEMENTATION AND SUPERVISION

4.1 Institutional responsibilities for environmental management

12. The DGA is the Executing Agency responsible for overall subproject, while the subproject implementation unit (PIU) is the Technical Implementation Unit (UPT)/Balai. PIU will be responsible for the day-to-day implementation of the Subproject and will be accountable for technical, safeguards and financial reporting. The PIUs will appoint one qualified staff to be designated as their Environmental Focal Person, as shown in **Table 5**.

17

Table 5. Environment Safeguard Focal Person for IISAP

Assignment (Base)	Role	Name of Personnel	Status (as of June 2025)
BPKIL Serang	Responsible for Licensing	Mr. Aziz
BPIU2K Karangasem	Responsible for Licensing	Mr. Ahmad Faisal Ramadhan
BPBAP Takalar	Responsible for Licensing	Mr. Isharyadi
BPBAT Tatelu	Head of Center	Mr. Maikel

13. The project supporting consultants called the Project Management and Technical Consultant (PMTC) are hired to support the PIU in construction implementation at local level. Similarly, DED consultants and other vendors (subcontractors) are hired to support the implementation as shown in **Table 6**.

Table 6. Environmental Safeguard Personnel in Consultants, Contractors, and Vendors

Company/ Entity	Role	Environmental Safeguard Personnel	Status (as of June 2025)
Project Management and Technical Consultant (PMTC based in Jakarta)			
PT Duta Cipta Mandiri (joint venture with PT Sucofindo Advisory Utama, PT Iname Utama, and PT Cakra Buana Aghna)	<p>PMTC supports CPMU/PMO and PIU for Assist the CPMUs in all aspects of the environment-related implementation of the project, mainly the EARF and subproject initial environment examinations (IEEs) and the EMPs.</p> <p>(i) Supervise the implementation of EARF through desk review and field inspection of subprojects, Ensure that the steps and requirements of the EARF covering environmental screening, assessing and management of environmental impact are followed by PIUs and beneficiary farmers.</p> <p>(ii) Carry out screening of</p>	<p>Shauqi Sulthoni Romli Environmental Safeguard Specialist (1 person, full-time,xx.. months)</p> <p>Rheza Ardiya Assistant Environmental Safeguard Specialist (1 person, full-time, ..xx.... months)</p>	<p>Contracted: April 2025 to December 2027</p>

Company/ Entity	Role	Environmental Safeguard Personnel	Status (as of June 2025)
	<p>environmental impacts to identify key issues for assessment and scoping to determine spatial and temporal scope of initial environmental examinations (IEEs);</p> <p>(iii) Coordinate with and base on domestic environmental impact assessment process to ensure compliance with domestic and ADB requirements as well as consistency and data sharing between the two;</p> <p>(iv) Based on the IEEs, develop specific environmental management plans (EMPs) to clarify who do what, and when and how, and include monitoring and training plan.</p> <p>(v) Ensure gender mainstreaming and youth inclusion into project activities under its field of expertise.</p> <p>(vi) Develop and implement environment training programs for PIUs, extension workers and facilitators</p>		
DED Consultant (based in Jakarta)			
PT Arkonin Engineering Manggala Pratama	DED Consultant is responsible for Ensure basic design and prepare detailed engineering designs for farmer ponds for sustainable fisheries cultivation (cluster/ individual ponds), including climate and disaster resilience, gender responsive and inclusive features; rehabilitation of irrigation and drainage channels; pond roads; and communal wastewater treatment plants.	Riana Wulansari, ST. Environmental Safeguard Specialist (1 person, full-time, 9 months)	Contracted: July 2024 to March 2025 (Demobilized)

Company/ Entity	Role	Environmental Safeguard Personnel	Status (as of June 2025)
Contractors (based at site level)			
PT BRP	<p>The Contractor is responsible for The project will ensure that bidding and contract documents include specific provisions requiring contractors to comply with all (i) applicable labor laws and core labor standards on (a) prohibition of child labor as defined in national legislation for construction and maintenance activities, (b) equal pay for equal work of equal value regardless of gender, ethnicity or caste, and (c) elimination of forced labor; (ii) the requirement to disseminate information on sexually transmitted diseases including HIV/AIDS to employees and local communities surrounding the project sites; and (iii) responsibility of the construction contractor for reinstatement of temporary impacts and compensation for construction related impacts during implementation of rural roads (output 2).</p> <p>Contractors will carry out all environmental and social mitigation and monitoring measures outlined in their contract, including paying attention and compensation, if needed, for any unanticipated impact occurred during construction activities (crops, trees, infrastructures) to the affected households, if any. PMC experts and PIU safeguard officers will assist the CPMU safeguard officer in monitoring contractor's compliance activities. The CPMU will also ensure that no contract award or civil</p>	<u>Amni Syukron Juniansyah</u> HSE Engineer ((x people, full-time, 14 months)	Contracted: January 2025 to February 2026

Company/ Entity	Role	Environmental Safeguard Personnel	Status (as of June 2025)
	works activity will start prior to the safeguard document clearance from ADB (i.e., DDR, SADP, MHADP, etc.) of the respective package		
Vendors and Subcontractors (based at local sites)			
PT. CITRA HIJAU PIRANTI	Responsible for the preparation of the Andalalin Study for BPKIL Serang	Rika Ditasya Environmental/AMDAL Specialist Team	Contracted: May to August 2025
PT. CITRA HIJAU PIRANTI	Responsible for the preparation of DPLH (UKL-UPL).	Rika Ditasya Environmental/AMDAL Specialist Team	Contracted: May to August 2025
CV. DWIJAYA SENTOSA	Responsible for the preparation of UKL-UPL (including Andalalin) for NC/BC and Lab Karangasem.	Siswaji Nugraha Environmental/AMDAL Specialist Team	Contracted: June to September 2025
PT. BUMI PANRITA INDONESIA	Responsible for the preparation of UKL-UPL (Including PKKPRD and Andalalin) for Broodstock Takalar	Adyaat Ridho Agam Environmental/AMDAL Specialist Team	Contracted: June to September 2025
PT. BUMI PANRITA INDONESIA	Responsible for the preparation of UKL-UPL (including PKKPRD and Andalalin) for the Pinrang Shrimp Pond UPT.	Adyaat Ridho Agam Environmental/AMDAL Specialist Team	Contracted: April to September 2025

14. The Contractor will be responsible for implementing all environmental, health and safety (EHS) actions included in the EMP and relevant clauses in the bidding documents and contract during the pre-construction and construction period. Each contractor will appoint a qualified health, safety and environment (HSE) to supervise construction works in compliance with the CEMP and the Indonesia regulatory and policy framework.

4.2 Incorporation of Environmental Requirements into Project Contractual Arrangements

15. The environmental safeguards requirements have already been incorporated in Bidding Document as well as Works Contracts. Provisions regarding environmental protection and implementation of environmental mitigation and monitoring (including HSE) have been stated in the Particular Conditions of Contract Part B-Specific Provisions for FIDIC based contract, as follows.

- Ref. GCC 4.18: Protection of the Environment;
- Ref. GCC 6.4: Labour Law;
- Ref. GCC 6.7: Health and Safety;
- Ref. GCC 6.12: Child Labour; and
- Ref. GCC 11.2: Cost of Remediating Defect.

16. During construction, each contractor shall be guided by its detailed CEMP. This shall be based on the EMP with details on staff, resources, implementation schedules, and monitoring

procedures. Status of completeness of CEMP and SMKK documents for subprojects are as shown in **Table 7** below.

Table 7. Contract and Clauses Safeguard Documents Status for the Construction Works

Package	Description of Package	Contractor and Contract		Clauses CEMP and SMKK in Contracts	Clauses Safeguard Document	
		Type of Contract	Contractor and Contract Number		CEMP	SMKK
UPT Pinrang Shrimp Ponds	<p>The construction of this pond aims to support the fisheries and aquaculture sector, especially in improving the quality and quantity of shrimp products, in order to meet the needs of domestic and export markets. In addition, this pond is also expected to be a center for training, research and development of sustainable shrimp farming technology.</p> <p>Work of 40 units of ponds and supporting buildings (office, laboratory, warehouse and others)</p>	FIDIC	<p>PT BRP, contracted for 420 days,</p> <p>Ref: 4593/DJPB/IISAP/CONTR ACT/XII/2024</p> <p>dated December 24, 2024</p>	<p>Clause on HSE (<i>CEMP and SMKK</i>) included in the Contract (<i>Part B, Sub Clause 4.4.5</i>).</p> <p>Identification of occupational safety and risks (included in the CEMP document).</p>	Being finished	Completed (SMKK approved on January 4, 2025.).

V COMPLIANCE WITH ENVIRONMENT RELATED PROJECT COVENANTS

17. The CPMU/PMO has roles and responsibility to ensure that loan covenants in the loan agreements are complied. The CPMU also provide quarterly and annual reports including environmental safeguards as required under the loan agreement and submit to ADB.

18. The list of status of all environmental related loan covenants, and assesses project's compliance with the covenants with concluding statement on compliance or non-compliance, and corrective actions as needed. The status of all environmental related loan covenants is as shown in **Table 8** below.

Table 8. Compliance with IISDAP Loan Covenants of Environmental Safeguards

Product	Schedule	Para No.	Description	Compliance	Progress Status/Corrective Actions
Loan 4283	4	3	<p>Procurement</p> <p>3. The Borrower, through the Project Executing Agency, shall not award any Works or Non consulting Services contracts until:</p> <p>(a) the final approval of the IEE or other applicable environmental documents have been granted by the appropriate environment authority of the Borrower In accordance with the Borrower's laws and regulations and the Project Executing Agency has obtained ADB's clearance according to the EARF;and</p> <p>(b) the Project Executing Agency has Incorporated the relevant provisions from the EMP into the Works contract.</p>	<p><u>ADB Requirement:</u> Complied with completion and approval of the IEE (EMP) documents (in November 2022).</p> <p><u>GOI Law and Regulations:</u> Complied with completion and approval of:</p> <ul style="list-style-type: none"> Environmental document requirement: Amdal/UKL-UPL/SPPL (Government Regulation Number 22 of 2021). Sustainable procurement (Presidential Decree Number 16 of 2018 juncto Presidential Decree Number 46 of 2025). 	<ul style="list-style-type: none"> IEE completed, no significant changes. Some UKL-UPL and SPPL documents done, while others in progress. Met requirement environmental aspect and Sustainable Procurement (Presidential Decree Number 16 of 2018 juncto Presidential Decree Number 46 of 2025).
Loan 4283	4	5	<p>Environment</p> <p>5. The Borrower shall ensure, or cause the Project Executing Agency to ensure, that the preparation, design, construction, implementation, operation and decommissioning of the Project, each Subproject and all Project facilities comply with</p> <p>(a) all applicable laws and regulations of the Borrower relating to</p>	<p><u>ADB Requirement:</u> Complied with ADB SPS 2009 (Appendix I) in the term environmental safeguard measurement in Safeguard Monitoring Report.</p>	<p>Monthly CEMP Monitoring Report.</p> <p>Complied with EMR:</p> <ul style="list-style-type: none"> SA-EMR I (January-June 2024) SA-EMR II (July-

Product	Schedule	Para No.	Description	Compliance	Progress Status/Corrective Actions
			<p>environment, health, and safety;</p> <p>(b) the Environmental Safeguards; and</p> <p>(c) all measures and requirements set forth in the respective IEE and EMP, and any corrective or preventative actions set forth in a Safeguards Monitoring Report.</p>	<p><u>GOI Laws and Regulations:</u> Complied with completion and approval of:</p> <ul style="list-style-type: none"> • Semestral Environmental Monitoring Report (Amdal/UKL-UPL) to DLH (Government Regulation Number 22 of 2021). • Sustainable procurement (Presidential Decree Number 16 of 2018 juncto Presidential Decree Number 46 of 2025Regulasi K3 & SMKK • MPWH Number 10 of 2021 (Construction Safety Management System or SMKK). 	<p>December 2024)</p> <ul style="list-style-type: none"> • SA-EMR III (January-June 2025), including in this report. <p>Monthly SMKK Monitoring Report.</p>
Loan 4283	4	9	<p><u>Safeguards – Related Provisions in Bidding Documents and Works Contracts</u></p> <p>9. The Borrower, through the Project Executing Agency, shall ensure that all bidding documents and contracts for Works contain provisions that require contractors to:</p> <p class="list-item-l1">(a) comply with the measures relevant to the contractor set forth the IEE, the EMP and the RP (to the extent they concern impacts on affected people during construction), and any corrective or preventative actions set forth in a Safeguards Monitoring Report;</p> <p class="list-item-l1">(b) make available a budget for all such environmental and social measures;</p> <p class="list-item-l1">(c) provide the Borrower with a written notice of any unanticipated environmental, resettlement or indigenous peoples risks or impacts that arise during construction, implementation or operation of the Project that were not considered in the EMP, CDF, IPPF or MHADP.</p>	<p>Complied with environmental clauses and social clauses in bidding documents and contract.</p>	<ul style="list-style-type: none"> • IEE completed, no significant changes. • Some UKL-UPL and SPPL documents prepared, while others being prepared. • Met requirement environmental aspect and Sustainable Procurement (Presidential Decree Number 16 of 2018 juncto Presidential Decree Number 46 of 2025).

Product	Schedule	Para No.	Description	Compliance	Progress Status/Corrective Actions
Loan 4283	4	10	<p>Safeguards Monitoring and Reporting</p> <p>10. The Borrower, through the Project Executing Agency, shall do the following:</p> <ul style="list-style-type: none"> (a) submit semi-annual Safeguards Monitoring Reports to ADB and disclose relevant information from such reports to affected persons promptly upon submission; (b) if any unanticipated environmental and/or social risks and impacts arise during construction, implementation or operation of the Project or any Subproject that were not considered in the IEE or IPPF and/or MHADP, promptly inform ADS of the occurrence of such risks or impacts, with detailed description of the event and proposed corrective action plan; and (c) report any actual or potential breach of compliance with the measures and requirements set forth in the EMP, EARF, CDF, IPPF or MHADP promptly after becoming aware of the breach. 	Complied with First SA-EMR (January-June 2024), Second SA-EMR July-December 2024, and also this report (Third SA-EMR; January-June 2025).	Complied with EMR: <ul style="list-style-type: none"> • SA-EMR I (January-June 2024) • SA-EMR II (July-December 2024) • SA-EMR III (January-June 2025), including this report.
Loan 4283	4	11	<p>Prohibited List of Investments</p> <p>11. The Borrower shall ensure, or cause the Project Executing Agency to ensure, that no proceeds of the Loan are used to finance any activity included in the list of prohibited investment activities provided in Appendix 5 of the SPS.</p>	Complied with project screening and categorization, which confirmed Category B and excluded the PLIs.	Complied with screening and categorization, which confirmed Category B and excluded the PLIs (ADB SPS 2009, Appendix 5).
Loan 4283	4	12	<p>Labor Standards, Health and Safety.</p> <p>12. The Borrower shall ensure, and shall cause the Project Executing Agency to ensure, that the core labor standards and the Borrower's applicable laws and regulations are complied with during Project implementation. The Borrower, through the Project Executing Agency, shall include specific provisions in the bidding documents and contracts financed by ADB under the Project requiring that the contractors, among other things:</p> <ul style="list-style-type: none"> (a) comply with the Borrower's applicable labor law and regulations and incorporate applicable workplace occupational safety norms; (b) do not use child labor; (c) do not discriminate workers in respect of employment and occupation; (d) do not use forced labor; (e) allow freedom of association and effectively recognize the right to collective bargaining; and 	Complied with Construction Contract.	Complied with MPWH Number 10 of 2021 (Construction Safety Management System or SMKK).

Product	Schedule	Para No.	Description	Compliance	Progress Status/Corrective Actions
			<p>(f) disseminate, or engage appropriate service providers to disseminate, information on the risks of sexually transmitted diseases, including HIV/AIDS, to the employees of contractors engaged under the Project and to members of the local communities surrounding the Project area, particularly women.</p> <p>13. The Borrower shall, or shall cause the Project Executing Agency to, strictly monitor compliance with the requirements set forth in paragraph 12 above and provide ADB with regular reports</p>		
Loan 4283	4	16	<p>Grievance Redress Mechanism</p> <p>16. The Borrower, the Project Executing Agency, and the implementing agencies shall (a) comply with ADB's Anticorruption Policy (1998, as amended to date) and acknowledge that ADB reserves the right to investigate directly, or through its agents, any alleged corrupt, fraudulent, collusive or coercive practice relating to the Project; and (b) cooperate with any such investigation and extend all necessary assistance for satisfactory completion of such investigation.</p> <p>17. The Borrower, the Project Executing Agency and the implementing agencies shall ensure that the anticorruption provisions acceptable to ADB are included in all bidding documents and contracts, including provisions specifying the right of ADB to audit and examine the records and accounts of the executing and implementing agencies and all contractors, suppliers, consultants, and other service providers as they relate to the Project.</p>	<p>Complied with CEMP implementation and GRM report.</p>	<p>GRMs Monthly report has not yet.</p>

VI MITIGATION MEASURES

19. The EMP measures for the pre-construction phase have been implemented, among others application of EARF's selection criteria for new sub-projects, preparation of climatic resilient DEDs, preparation of domestic environmental documents (UKL-UPL and SPPL) and permits (PKKPRL and groundwater extraction).

20. The DED consultant, PT Arkonin Engineering Manggala Pratama prepared DEDs for Laboratory, Clusters and Farmer Ponds, including technical drawings and bidding documents for the six laboratories in six UPTs (BBPBAP Jepara, BPBAP Ujung Batee, BPKIL Serang, BPBAP Situbondo, BPIU2K Karangasem and BPBAP Takalar) and cluster/farmers shrimp ponds. The designs (DEDs) have considered and incorporated several inputs related to the environment, as follows:

a) Environmental Input on Laboratory Design/DED:

- Wastewater treatment; a biotank (combined with reedbed) to treat liquid waste from laboratory.
- Wastewater recycling; the wastewater will be used to water the garden by addition of a wastewater recycling unit (carbon and sand filter).
- Emissions; an incinerator to treat combustion of biological/medical wastes from labs.
- Solid Waste; solid waste will be collected and placed in the temporary storage area and will be transported periodically in cooperation with the Environmental Department (*UPT Kebersihan*). Burning wastes is not allowed.
- Hazardous wastes/ LB3; Biological wastes will be decontaminated first with autoclave before collected and burned in an incinerator. Chemical/solvent spent will be collected and stored safely before transferring to third party for treatment and/or disposal.
- Construction Materials: Avoid the use of building materials identified as forbidden under ADB's Negative List such as asbestos.
- Stormwater; Rainwater will be absorbed by blowing into infiltration wells / infiltration ponds. The overflow may be discharged to the receiving water through drainage channels.

b) Environmental Input for DED (Pond/Broodstock and Laboratory)

- Wastewater treatment plant and *Pertek* (as part of environmental permit/UKL-UPL); To treat wastewater from pond to meet effluent quality standard (BMAL).
- Emissions; The generator used as energy standby/reserve only less than 3 MW, and negligible for its emission .
- Solid waste; Solid waste including from unused tarpaulins / used pond mats will be collected and stored in the temporary waste storage area and will be transported periodically in cooperation with the Environmental Department (*UPT Kebersihan*).

c) WWTP Concept for UPT Ponds

As refers to Rynan Technology as well as to respond the requirements in IEE, the Consultants (PT Arkonin Engineering Manggala Pratama) suggested an artificial constructed wetland wastewater treatment plant with main blocks as illustrated in **Figure 1** and its layout in **Figure 2**.

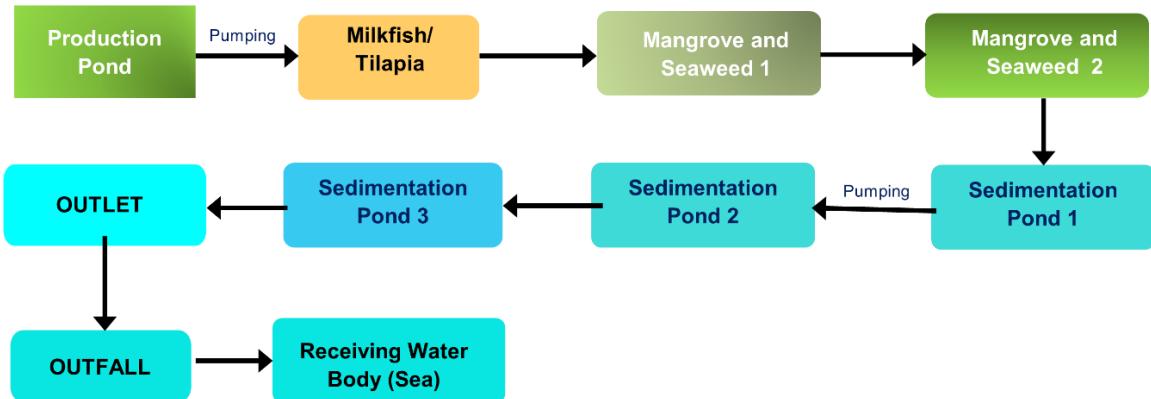


Figure 1. Proposed Waste Treatment Scheme of UPT Pond Pinrang

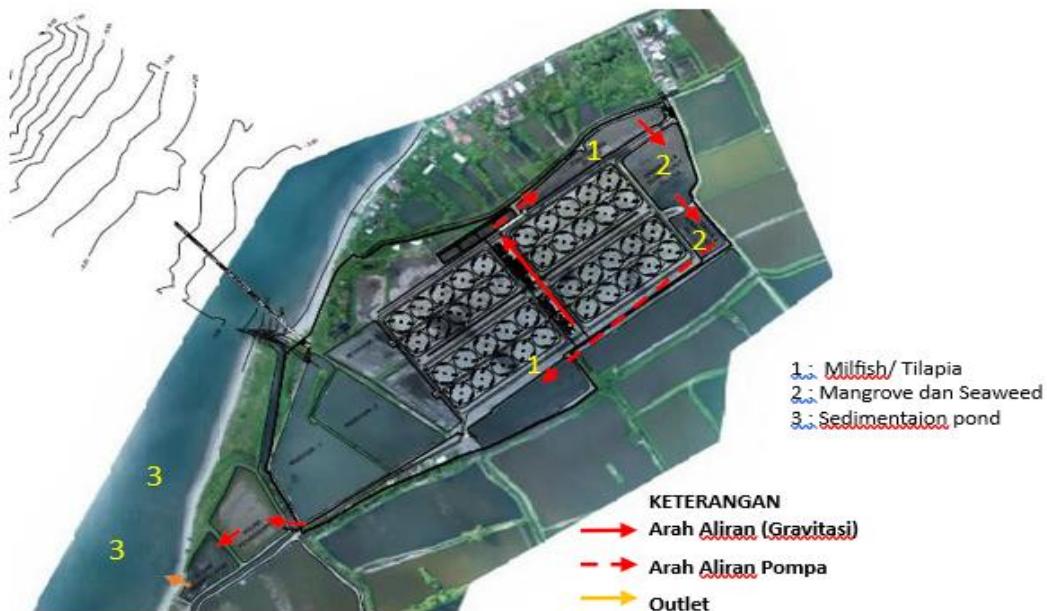


Figure 2. Wastewater Treatment at the Pinrang Pond UPT

d) WWT Concept for Community Ponds and Broodstocks

As semi-intensive community ponds and broodstock generate less pollutants, proposed WWT is similar with UPT ponds, except for the sedimentation ponds, as illustrated in **Figure 3**.



Figure 3. Wastewater Treatment for Community Ponds and Broodstocks

e) WWTP concept for Laboratories

As refers to KKP Guidance and best practices as well as to respond the requirements in IEE, the Consultants (PT Arkonin Engineering Manggala Pratama) also suggested wastewater treatment plant (biotank) comprising of Sludge Treatment Plant (STP) and Grey Water Treatment (GWT) and additional carbon active bed before discharging into drain, as illustrated in **Figure 4**. The incinerator for handling biological/infectious wastes for labs was already located as illustrated in **Figure 5**.

Toilets for workers are equipped with septic tanks for liquid waste.

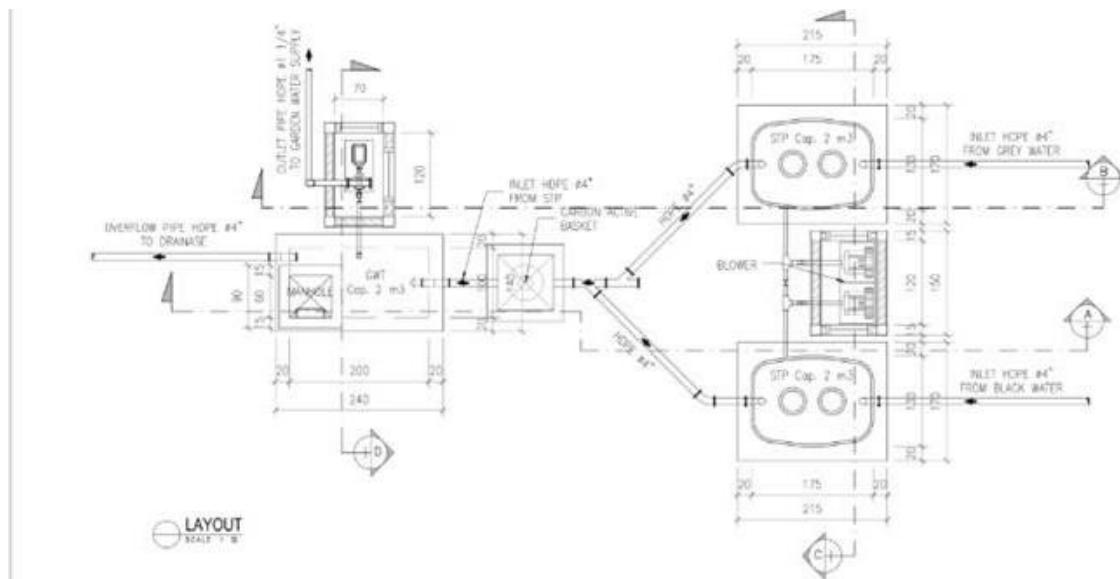


Figure 4. Wastewater Treatment for labs

21. Hazardous waste (LB3) management and monitoring is carried out daily by recording the entry and exit of items categorized as LB3. This includes waste in the form of new and used oil, used cans, used cloth, and fuel. A special location has been designated for the B3 warehouse, where the entry and exit of these items is recorded so that HSE personnel can control the waste that will be generated.

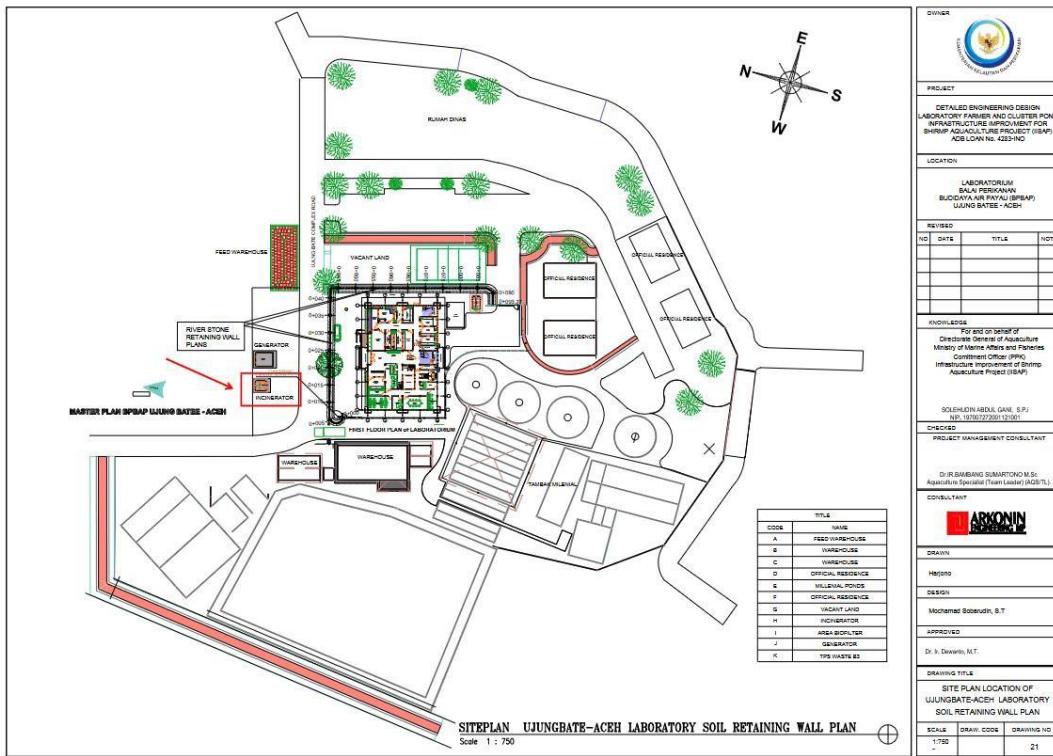


Figure 5. Site plan of laboratories in BPBAP Ujung Batee (Aceh)

22. In this activity, domestic waste is divided into two types: solid waste in the form of garbage and liquid waste from workers' toilet activities. Solid waste management involves placing trash bins in several locations that have the potential to generate waste, such as workers' barracks, directors' quarters, guard offices, etc. There are two types of trash bins: permanent ones that are used for the final reduction process or burning, and non-permanent ones in the form of trash cans.

23. To reduce dust caused by heavy equipment and project transportation operations, the contractor creates separate lanes for vehicle traffic and arranges for the separate entry and exit of vehicles at the project site. Additionally, to minimize dust generation, the contractor periodically waters roads traversed by project vehicles to reduce dust in the surrounding residential environment (see **Appendix 4**).

24. The Contractor has prepared CEMP (Construction Environmental Management Plan) which elaborates the site specific and activity specific mitigation measures, EMP (IEE) and respective UKL-UPL. In addition, complying with Indonesia regulations, the Contractor also prepare SMKK (Construction Safety Management System) document based on PP No. 10 of 2021. The SMKK document complement and coincide with the CEMP.

VII QUANTITATIVE MONITORING

7.1 Monitoring plan and responsibilities

25. The Contractors will conduct weekly CEMP verifications and submit monthly CEMP implementation reports to the PIUs, who will include those in the quarterly environment monitoring reports to CPMU. The Environment Focal Person shall provide the CPMU/PMO with its monthly environmental monitoring reports. The CPMU/PMO shall consolidate all monthly environmental monitoring reports of all subprojects and prepare a monthly and quarterly environmental monitoring report. Using the quarterly reports, the CPMU shall prepare the SA-EMR progress report which shall be submitted to ADB and detailing the status of mitigating measures implementation.

26. The details of personnel and consultants responsible for environmental monitoring at the site level and reporting flow is presented in **Table 9**.

Table 9. Responsibilities for HSE Monitoring and Reporting

Areas of Monitoring	Person in Charge	Mode of Monitoring	Frequency	Submission
Overall implementation of CEMP	Contractor HSE Officer	Weekly verification (Checklist)	Weekly	Submitted by contractors to respective PIU (submit copy of report to PMTC).
	PIU (with support of PMTC)	Monthly Progress Reporting	Monthly	Submitted by PIU to CPMU/PMO (submit copy of report to PMTC).
	CPMU (with support of PMTC)	Quarterly Progress Reporting (<i>including environmental safeguards</i>)	Quarterly	Submitted by CPMU/PMO to ADB (submit copy of report to MMAF dan DGA).
Monitoring of EMP safeguard measures (SA-EMR)	CPMU (with support of PMC)	Bi-annual Progress reporting	Semestral	Submitted by CPMU/PMO to ADB (submit copy of report to MMAF dan DGA).
Monitoring on implementation of RKL-RPL or UKL-UPL	PIU (with support of contractors and PMTC)	Sampling and Reporting	Semestral	Submitted by PIU to respective DLH
Complaint Handling/ GRM	Contractor HSE Officer	Supervision	Daily	Monthly to PIU and Quarterly to CPMU/ PMO (<i>to be included in SA-EMR</i>)

27. As the construction activities have been commenced for of UPT Pinrang Shrimp Ponds, the monitoring implemented and to be reported as refer to monitoring plan prepared based on EMP and UKL-UPL (see **Appendix 5**). The monitoring report will be submitted to Dinas Lingkungan Hidup (DLH) of South Sulawesi Province and Kabupaten Pinrang, which

complement this SA-EMR to be submitted by CPMU to ADB.

28. Environmental management and monitoring activities at the Pinrang UPT Pond are carried out in areas affected by UPT Pond development activities. One of the monitoring activities that has been carried out is the environmental quality test. In May 2025, samples were collected for the environmental quality test, which included water, air, noise, and vibration quality. The purpose of this sampling is to determine the impact that occurred at the UPT Pond location during construction. The sampling locations were determined based on field analysis, specifically areas with potential environmental impacts due to physical activity (see **Appendix 11** for the coordinates of sampling points).

29. The other packages are under pre-construction and bidding phase and have not implemented mitigation and monitoring measures and its reporting.

7.2 Environmental quality targets, sampling and analytical methods

30. The report presents environmental quality targets for the different sites and environmental media (e.g. effluent quality standards, ambient air, noise, water quality standards, etc.) and analytical methods applied for monitoring, as indicated in respective IEE and government environmental documents.

31. During this period, one sub-project began implementation: the UPT Shrimp Ponds in Pinrang District (BPBAP Takalar). The project began in January 2025 and was carried out by the contractor PT. Basuki Rahmanta Putra (BRP), who was also responsible for the environmental management and monitoring process.

32. In an effort to monitor the environment during the construction phase, the PT BRP contractor conducted environmental quality testing at a predetermined sampling points according as shown in **Table 10**.

Table 10. Sampling Point for Environmental Quality Tests

Description	Coordinates		Description (Quality Test)
	LS	E	
Ambient Air Quality	3°37'14,92"	119°29'22,49"	air, noise and vibration
Brackish/Seawater Quality	3°37'10,96"	119°29'12,01"	brackish water sample at ZID
	3°37'9,49"	119°29'12,58"	seawater sample Outfall
Groundwater Quality	3°36'56,82"	119°29'31,16"	the location of the water was taken at one of the residents' wells

7.3 Monitoring Results

33. The results of the air quality test show that the air quality is still below the permitted quality standard parameters (see **Appendix 6**). Therefore, the ambient air quality in Tambak UPT is not significantly affected by construction activities and still meets the quality standards set by Government Regulation Number 22 of 2021. However, compared to the initial environmental baseline, there is a decrease in air quality due to an increase in pollution parameters, namely carbon monoxide (CO), lead (Pb), and dust. This is due to the operation of heavy equipment and transportation at the site. The impact of air quality degradation is not critical, as there is only a slight decrease in air quality compared to the absence of construction activities. Thus, the pond development activities do not cause serious environmental impacts.

34. The measurement of the noise level at Tambak UPT was conducted during the day and at night (see **Appendix 7**). The results showed an increase in noise during the day, though it was still below the quality standard. The increased noise was due to construction activities. However,

noise can also be caused by vehicles entering and exiting the UPT Tambak area. According to Decree Number 48/11/Year 1996 of the Minister of Environment, the noise level is still below the quality standard. There were no complaints about noise from the surrounding community during construction activities, so the noise impact did not become critical.

35. According to the results of the laboratory tests, the quality of the seawater and soil at Tambak UPT at the time of construction met the quality standards of PP No. 22/2021 and the Minister of Health's Regulation No. 2/2023. This indicates that construction activities did not pollute the seawater or soil (see **Appendix 8**).

36. Government Regulation (PP) Number 22 of 2021 (Article 49 Paragraph 6 Point f) stated that person in charge of proponent shall submit a report on the implementation of environmental management and monitoring periodically for every 6 (six) months. As the UKL-UPL document has not been finalized yet, the implementation of UKL UPL monitoring for the UPT Pinrang Shrimp Ponds is not applicable.

VIII GRIEVANCE REDRESS MECHANISM

37. The Asian Development Bank (ADB) has an accountability mechanism designed to address complaints related to its projects. This mechanism enables individuals and groups to file complaints if they feel they have been wronged by the projects. One way to make the grievance mechanism known to the community is to create an information board in a public place easily accessible to the surrounding community and to inform the community about the grievance mechanism. Complaints can be submitted through various channels, including online forms on the website, email, or direct contact with the Complaints Receiving Officer in the field. One thing implemented by the contractor PT. Basuki Rahmat Putra to handle this complaint is the provision of a means of communication for conveying complaints from the community in the form of banners distributed at work sites that can be accessed by the community and the board of directors.

38. The SMKK implementation report includes some records of complaints submitted to PT BRP contractors. The complaints have been responded and recorded as follows:

- a. On Wednesday, March 12, 2025, the community filed a complaint about damaged access to the pond due to material transport vehicle mobilization and other project activities. PT Basuki Rahmanta Putra immediately began repairs to avoid disturbing and endangering the surrounding community.
- b. On Thursday, May 1, 2025, community members complained about dust caused by material transport vehicles and other project activities. In response to these complaints, PT Basuki Rahmanta Putra has implemented routine watering of the access road used by project vehicles to prevent disturbance and danger to the surrounding community.
- c. On Thursday, May 1, 2025, community members complained about dust caused by material transport vehicles and other project activities. In response to these complaints, PT Basuki Rahmanta Putra has implemented routine watering of the access road used by project vehicles to prevent disturbance and danger to the surrounding community.
- d. On Tuesday, May 6, 2025, the community requested that the contractor repair the access road from the junction of the main road to Serang Village. PT Basuki Rahmanta Putra repaired the residents' access road in response to the request.

39. PT BRP resolved this complaint by taking an approach with the community. They invited the surrounding community to deliberate and discuss complaints during construction and find solutions to problems that occurred.

IX HEALTH AND SAFETY

40. Referring to MPWH Regulation No. 10 of 2021 about Construction Safety Management System, the Contractor shall prepare 5 (five) GOI quality, safety and environmental management plans comprising of (i) Conceptual Design of SMKK, (ii) Construction Safety Plan (RKK), (iii) Construction Work Quality Plan (RMPK), (iv) Project Implementation Plan for Construction Safety Management System (RKPPL), and (v) Construction's Traffic Management Plan (RMLLP).

41. Mitigation and monitoring measures implemented by five packages to mitigate health and safety risks and impacts for the workers and community were similar and included, among others:

- Conducted Safety Morning Talk (SMT) every morning to continually raise work related safety awareness for the workers and reduce occupational related incidents; and a light aerobic exercise was undertaken during the SMT.
- Installed warning signs and planks on the hazards within construction sites.
- Assigned flagman at the entry/exit point of the project's vehicles and heavy equipment.
- Performed a monthly medical checkup such as body's temperature, blood pressure, and other rapid tests as well as visual observation of the project worker conditions.

42. The SMKK document has been prepared by the BRP Contractor and serves as a reference for environmental monitoring and management implementation. In addition to these documents, the implementing contractor is also obligated to create an environmental management document in the form of a CEMP (Construction Environmental Management Plan) based on the EMP (Environmental Management Plan). The CEMP document is currently under review by the TRTA and PMTC IISAP, and completion is planned in July 2025. The implementation of environmental management and monitoring activities of the work has been reported in the SMKK implementation report every month from February to June 2025.

43. OHS (Occupational Safety and Health) management is the systematic effort to create safe and healthy working environments. It involves identifying hazards, assessing risks, implementing technology, providing training, and monitoring health, with the aim of preventing occupational accidents and diseases. PT BRP's contractor has taken various steps to manage occupational health and safety (OHS), including OHS monitoring and evaluation activities (safety morning meetings, safety talks, and toolbox meetings); procurement of personal protective equipment (PPE) for workers; installation of OHS signs; procurement of first aid kits and fire extinguishers; health checks for workers; determination of working hours for workers; and inspection of work tools and heavy equipment to minimize work accidents.

44. The Contractors allocated a budget for all such Health and Safety to ensure that such measures are carried out, as reflected in each CEMP. Compliance of Occupational Health and Safety (OHS) for UPT Pinrang Shrimp Ponds are presented in **Table 11**.

Table 11. Compliance with Occupational Health and Safety Compliance (Yes, No, Partial)

No.	EMP Requirement (HS Mitigation Measure)	Packages		Comment or Further Explanation (if needed)
		UPT Pinrang Shrimp Ponds	Others (for future construction works)	
1.	Conduct training on safety and health hazards	YES	Not Applicable	See Section X
2.	Provide sanitary facilities and safe drinking water at the construction site and the workers' camp	YES		
3.	Provide workers with PPEs such as goggles, safety shoes, etc. and its use will be mandatory	YES		
4.	Workers who will be assigned to high-level noise- generating works (100 dB(A) will be rotated every two hours aside from wearing of PPEs.	YES		
5.	Conduct daily toolbox meetings to emphasize safety and health procedures	YES		
6.	Site Engineers to encourage brief exercise routine to highlight the value of health in the Workplace	YES		
7.	Employees of the contractor(s) will be required to have an annual physical and medical examination. Health records will be kept confidential in the employee file.	YES		
8.	Install clear and visible warning signs as well as sufficient lighting	YES		
9.	Contractors will be required to follow relevant HSE SOPs of the contractors and applicable IFC-EHS General Guidelines 2007	YES		See Section 2

X ENVIRONMENTAL TRAINING

45. Training and capacity building activities carried out for the staff involved in the project during the reporting period, as shown in **Table 12**. The target groups for training on the implementation of environmental safeguards are PMO/PIU, Focal Persons, PMTC/Consultants and Facilitators. The training plan for the overall period of the project is presented in **Appendix 9**.

Table 12. Training and Capacity Building Related to Environmental Safeguard

Training	Date and Duration	Target Group and No of Participants	Method	Results and Effects
Briefing of Facilitators on Environmental Requirements for SDAP	December 7th 2023	75 (seventy-five) facilitators	Face to Face (offline)	Introduce the environmental screening procedures for the SDAP
Environmental Safeguard Training by ADB	20 Feb 2024	40	Face to Face (offline)	EMP construction measures and monitoring; environ screening using EARF

Training	Date and Duration	Target Group and No of Participants	Method	Results and Effects
Workshop: Reporting and Guidance of IISAP Implementation	23 – 25 Jan 2024	51	Face to Face (offline)	Delivered by Technical Consultant.
Workshop of Reporting and Guidance	January 23-25 th 2024	14	Face to Face (offline)	SADP, QPR and Environmental Reporting (EMR)
Review Mission	20 February 2024	CPMU/ PMO staff (6); MO Consultant/PMTC Enviro Specialist (1); PIUs Head or Technical Staff plus Focal Persons ENV (14)	By hybrid (Zoom Meeting/ Online and offline)	The training materials are attached as Appendix 4
Capacity building activities	Bali (7 – 9 Agustus 2024), Makasar (14 – 16 Agustus 2024) dan Lampung (21 – 23 Agustus 2024) serta Aceh (23 – 25 September 2024).	100-300 Facilitator, Farmers, dan CPMU/ PMO staff; MO Consultant/PMTC Enviro Specialist (1); PIUs Head or Technical Staff plus Focal Persons ENV (14)	Face to Face (offline)	Workshop on Socialization of Shrimp Pond Infrastructure Assistance and Technical Guidance on Shrimp Farming as well as Social, Environmental and Gender Equality Protection"
Review Mission	09-18 December 2024	CPMU/ PMO staff (6); MO Consultant/PMTC Enviro Specialist (1); PIUs Head or Technical Staff plus Facilitators (25)	Face to Face (offline)	

XI KEY ENVIRONMENTAL ISSUES

46. Prior to the commencement of the project, there are some issues related to completion of PKKPR, environmental documents, and provision of adequate disposal areas, as shown in **Table 13**.

Table 13 Environmental Issues

No	Observed non-Compliances	Corrective Actions Taken	Implementation Responsibility	Timeframe
1	Intrusion of protected mangrove forest in Pasir Sakti (East Lampung).	River Basin Organization (BBWS) and BKSDA Lampung will provide technical recommendations before normalization activities are carried out at Pasir Sakti.	BPBAP Lampung	November 2025
2	Additional requirement for spatial compliance	Consult with respective Kantah for the issuance of	PKKPR: BPBAP Takalar Center	July 2025
			PKKPR: BPKIL Serang	July 2025

	approval (PKKPR and PKKPRL)	PKKPR and MMAF for PKKPRL	PKKPRL: BPIU2K Karangasem PKKPRL: BPBAP Aceh	August 2025 August 2025
3	Readiness of domestic environmental documents (UKL-UPL) and its approval	Consult with respective DLH for the document preparation and Environmental Approval UPT Shrimp Pond Pinrang (South Sulawesi)	Environmental Consultant supported by PMTC	August 2025
		Consult with respective DLH for the document preparation and Environmental Approval BPKIL Laboratory (Serang)		September 2025
		Currently Survey and draft UKL-UPL process BC and Laboratory in Bugbug Karangasem		
		Currently Survey and draft UKL-UPL process		
		Currently Survey and draft UKL-UPL process		
		MBC activities in Takalar		
4	Preparation of Environmental Documents for Modern Shrimp Farming Activities in North Bolaang Mongondow	Currently the process of finalizing the master plan document and continued with the preparation of the Detail Engineering Design (DED) document which will be the basis for the preparation of environmental documents.	PMTC	December 2025

XII CONCLUSION

47. Based on this third semi-annual Environmental Monitoring report, it was concluded that:

- The core broodstock center and laboratory sub-projects in six locations are still in the pre-construction stage, with the relevant documents and permits being processed. One location, the UPT Pond in Pinrang Regency, is already in the construction stage.
- Most of the national environmental requirements and documents for laboratories and broodstock centers have been obtained. However, the Serang laboratory (BPKIL) is delayed due to additional requirements for a traffic impact analysis. Karangasem requires a new UKL-UPL for a new laboratory and MBC, and Takalar requires a new UKL-UPL for a new MBC.
- The new Modern Shrimp Farm sub-project has been proposed. Currently, the Master Plan Document and the bidding documents for the Detail Engineering Design (DED)

consultant are being prepared.

- The Tigaron Broodstock Center (BC) sub-project in Karangasem Regency has been proposed and is currently in the process of preparing environmental approval documents.

48. In order to comply with the environmental safeguard requirements and the Loan Covenant, some recommendations/ work plans for the next period (until the end of 2025) are as follows:

- BPKIL Serang will immediately fulfill the additional requirements (Andalalin) to obtain the DPLH (the equivalent of the UKL-UPL) and environmental approval for the laboratory.
- BPBAP Takalar (as the proponent) should consult with the local Environmental Agency (DLH) to accelerate the completion of environmental documents and approval for the shrimp ponds in the Pinrang District.
- BPBAP Takalar (as the proponent) should consult with the local environmental agency (DLH) regarding accelerating the completion of environmental documents and approval for the shrimp ponds in the Pinrang district.
- BPIU2K Karangasem requires a revised UKL-UPL to accommodate new laboratory activities, and BPBAP Takalar requires a new UKL-UPL for MBC construction. PMTC will support the UKL-UPL completion, which is targeted for August 2025.
- The PMO/PIU, with the help of the PMTC environmental specialist, will prepare environmental documents, relevant permits, and implementation documents that comply with Indonesian regulations and the ADB's SPS.

49. Since the Pinrang UPT Pond development activities are already in the construction stage, the EMP requires quantitative and qualitative monitoring. During this period, field officers have received several complaints from the surrounding community about the UPT Pinrang pond construction activities. SMKK/EMP implementation reports have been recorded and reported in the monthly SMKK Implementation Report and submitted to the PMTC.

Appendix 1 PKKPR SEA

PKKPR Laut TAKALAR



MENTERI KELAUTAN DAN PERIKANAN
REPUBLIK INDONESIA

KONFIRMASI KESESUAIAN KEGIATAN PEMANFAATAN RUANG LAUT B.1872/MEN-KP/XII/2023

Nomor: _____

Berdasarkan ketentuan Peraturan Pemerintah Nomor 21 Tahun 2021 tentang Penyelenggaraan Penataan Ruang, Menteri Kelautan dan Perikanan menerbitkan Konfirmasi Kesesuaian Kegiatan Pemanfaatan Ruang Laut kepada:

Nama	:	Balai Perikanan Budidaya Air Payau Takalar
Nomor Pokok Wajib Pajak	:	00.159.780.6-807.000
Alamat	:	Dusun Kawari, Desa Mappakalombo, Kecamatan Galesong, Kabupaten Takalar, Provinsi Sulawesi Selatan
Nomor Telepon Seluler	:	0813-6301-4680
Nomor Telepon/Faksimile	:	(0418) 2312972 / (0418) 2311311
Alamat Surat Elektronik	:	bbaptakalar@yahoo.com
Status Penanaman Modal	:	-
Lokasi yang Disetujui		
a. Provinsi	:	Sulawesi Selatan
b. Nama Perairan	:	Selat Makassar
Jenis Kegiatan	:	Instalasi Pembenihan dan Budidaya Ikan
Luas	:	8,63 Ha (delapan koma enam tiga hektare)

Konfirmasi Kesesuaian Kegiatan Pemanfaatan Ruang Laut ini berlaku sejak tanggal diterbitkan dan menjadi acuan untuk memperoleh perizinan lainnya. Dalam hal perizinan lainnya belum diterbitkan, maka Konfirmasi Kesesuaian Kegiatan Pemanfaatan Ruang Laut berlaku untuk jangka waktu 2 (dua) tahun sejak diterbitkan.

Daftar koordinat, peta, serta hak dan kewajiban sebagaimana terlampir merupakan bagian yang tidak terpisahkan dari Konfirmasi Kesesuaian Kegiatan Pemanfaatan Ruang Laut ini.

Diterbitkan di Jakarta
pada tanggal 05 November 2023



PINRANG



**MENTERI KELAUTAN DAN PERIKANAN
REPUBLIK INDONESIA**

KONFIRMASI KESESUAIAN KEGIATAN PEMANFAATAN RUANG LAUT

Nomor: B.1871/MEN-KP/XI/2023

Berdasarkan ketentuan Peraturan Pemerintah Nomor 21 Tahun 2021 tentang Penyelegaraan Penataan Ruang, Menteri Kelautan dan Perikanan menerbitkan Konfirmasi Kesesuaian Kegiatan Pemanfaatan Ruang Laut kepada:

Nama	:	Balai Perikanan Budidaya Air Payau Takalar
Nomor Pokok Wajib Pajak	:	00.159.780.6-807.000
Alamat	:	Dusun Kawari, Desa Mappakalombo, Kecamatan Galesong, Kabupaten Takalar, Provinsi Sulawesi Selatan
Nomor Telepon Seluler	:	0813-6301-4680
Nomor Telepon/Faksimile	:	(0418) 2312972 / (0418) 2311311
Alamat Surat Elektronik	:	bboptakalar@yahoo.com
Status Penanaman Modal	:	-
Lokasi yang Disetujui	:	Sulawesi Selatan
a. Provinsi	:	Selat Makassar
b. Nama Perairan	:	Pemasangan Instalasi Perikanan dan Pembangunan Pelindung Pantai
Jenis Kegiatan	:	-
Luas	:	28,14 Ha (dua puluh delapan koma empat satu hektare)

Konfirmasi Kesesuaian Kegiatan Pemanfaatan Ruang Laut ini berlaku sejak tanggal diterbitkan dan menjadi acuan untuk memperoleh perizinan lainnya. Dalam hal perizinan lainnya belum diterbitkan, maka Konfirmasi Kesesuaian Kegiatan Pemanfaatan Ruang Laut berlaku untuk jangka waktu 2 (dua) tahun sejak diterbitkan.

Daftar koordinat, peta, serta hak dan kewajiban sebagaimana terlampir merupakan bagian yang tidak terpisahkan dari Konfirmasi Kesesuaian Kegiatan Pemanfaatan Ruang Laut ini.

Diterbitkan di Jakarta
pada tanggal **09 November 2023**

**MENTERI KELAUTAN DAN PERIKANAN
REPUBLIK INDONESIA**



SAKTI WAHYU TRENGGONO

Appendix 2 PKKPR Land

PKKPR Land

SURAT PERNYATAAN USAHA MIKRO ATAU USAHA KECIL TERKAIT TATA RUANG

Yang bertanda tangan di bawah ini:

Nama Penanggung Jawab : BOYUN HANDOYO
Tempat, Tanggal Lahir : 26 Februari 1980
No. Identitas (KTP/Paspor) : 3271042602800010
No. Telepon : +6281555453400
Email : bpbap.situbondo@kkp.go.id
Alamat : Jl. Raya Pecaron, Desa/Kelurahan Klatakan, Kec. Kendit, Kab. Situbondo, Provinsi Jawa Timur
Jabatan : KEPALA BPBAP SITUBONDO
Nama Pelaku Usaha : Badan Hukum Selain PT BALAI PERIKANAN BUDIDAYA AIR PAYAU SITUBONDO
Lokasi Usaha : Jl. Raya Pasir putih - Panarukan, Desa/Kelurahan Klatakan, Kec. Kendit, Kab. Situbondo, Provinsi Jawa Timur
Kegiatan Usaha : 03254-Pembesaran Crustacea Air Payau

Dalam rangka pemeriksaan kesesuaian kegiatan pemanfaatan ruang untuk Perizinan Berusaha berbasis risiko, dengan ini menyatakan bahwa:

1. Kegiatan usaha dan lokasi usaha kami telah sesuai dengan rencana tata ruang; dan
2. Skala usaha kami adalah Usaha Mikro atau Usaha Kecil sesuai dengan jumlah isian total modal usaha yang tidak lebih dari Rp5.000.000.000,00 (lima miliar rupiah), tidak termasuk tanah dan bangunan tempat usaha, serta sesuai dengan Peraturan Pemerintah Nomor 7 Tahun 2021.

Demikian pernyataan ini dibuat dengan sebenar-benarnya. Apabila di kemudian hari ternyata terdapat kekeliruan ataupun ketidakakuratan dalam pernyataan ini, maka Pelaku Usaha bersedia menerima konsekuensi sesuai dengan ketentuan peraturan perundang-undangan.

Situbondo, 12 September 2022
Penanggung Jawab,
ttd.
(BOYUN HANDOYO)

Surat pernyataan ini tersimpan secara elektronik di dalam sistem OSS sebagai bagian tidak terpisahkan dari Perizinan Berusaha untuk Nomor Induk Berusaha yang dimaksud.



1. Sehubungan dengan surat dari Kepala Balai Perikanan Buddaya Air Payau Ujung Batee Kementerian Kelautan dan Perikanan Nomor B.3000/BP/BAP/UBTU.210X/2023 tanggal 10 November 2023, perihal Permohonan Pernyataan Kesesuaian Kegiatan Pemanfaatan Ruang (KKPR) untuk Rencana Pembangunan Laboratorium Perikanan oleh Balai Perikanan Buddaya Air Payau Ujung Batee Dijen Perikanan Buddaya Kementerian Kelautan dan Perikanan di Gangpong Neuhue, Kecamatan Mesjid Raya Kabupaten Aceh Besar, maka perihal Oberstauhutan yang berada dalam Rencana Tata Ruang Wilayah (RTRW) Kabupaten Aceh Besar.
2. Berdasarkan hasil overlay (lampaunya lindri) lokasi dengan Peta Rencana Pota Ruang Kabupaten Aceh Besar diperlukan kesiapan Pota Ruang RTRW Kabupaten Aceh Besar dengan titik koordinat sebagai berikut (peta berikut):
3. Sesuai Surat Aceh Besar Nomor 4 Tahun 2013 tentang Rencana Tata Ruang Wilayah Kabupaten Aceh Besar:
4. Berdasarkan hasil overlay (lampaunya lindri) lokasi dengan Peta Rencana Pota Ruang Kabupaten Aceh Besar diperlukan kesiapan Pota Ruang RTRW Kabupaten Aceh Besar dengan titik koordinat sebagai berikut (peta berikut):
5. Persepsi KKPR ini berlaku selama 3 (tiga) tahun, terhitung sejak ditandatangani.
6. Demikian disampaikan agar dapat dipergunakan seperlunya.

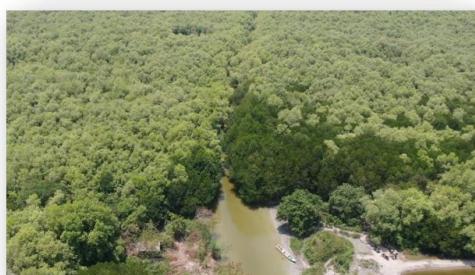
Dikeluarkan di : Kota Jantho
Pada tanggal : 27 November 2023

SEKRETARIS DAERAH
KABUPATEN ACEH BESAR
SELAKU KETUA PPR
Drs. SULAIMAN, M.Si
NIP. 19740723 199311 1 002

Appendix 3 Situation of Pasir Sakti Channel to Mangrove

Pasir Sakti Channel to Mangrove

Saluran Menuju Hutan
Mangrove



Appendix 4 Traffic Management Plan

Road Dust Management and Handling



Road Watering to Reduce Dust



Vehicle Traffic Management Plan

Appendix 5 Environmental Monitoring and Management Plan

Mitigation and Reporting Plan

No	IKKPct Environment Which Managed	Source IKKPct	Benchmark IKKPct	Environmental Management Objectives	Form of Environmental Management	Location of Environmental Management	Environmental Management Period	Environmental Management and Monitoring Institution
A. Physics - Chemical Component								
1	Decrease in Air Quality	Construction activities will generate high dust potential, in addition to the use of machine tools will also cause exhaust emissions.	Reduced air quality along the road due to high levels of COx, NOx, SOx and HC).	Minimize the occurrence of air quality degradation.	<ul style="list-style-type: none"> • Complete the work • in a timely manner • Prioritize the completion of backfilling work • Conduct regular road watering 	On the project site surrounding area	Management period during the operational period lasts 6 months.	Implementation: BPBAP Takalar Supervisor: <ul style="list-style-type: none"> • Pinrang District Environment Office • South Sulawesi Provincial Environment Office Report Recipient: <ul style="list-style-type: none"> • Pinrang District Environment Office • South Sulawesi Provincial Environment Office
2	Increased Noise	Construction activities with the use of tools and materials as well as vehicles will cause noise, especially from engine engines, as well as the use of construction	Residents' complaints due to noise disturbance	Minimize the negative impacts caused by disturbances caused by vehicles passing through residents' homes.	<ul style="list-style-type: none"> • Management of the use of tools and vehicles • Regularly maintain the machine that will be used • The operating time of tools and vehicles is not during the 	In the project site area and its surroundings	The management period during the operational period takes place once every 6 months.	Implementation: BPBAP Takalar Supervisor: <ul style="list-style-type: none"> • Pinrang District Environment Office • South Sulawesi Provincial Environment Office Report Recipient:

No	IKKPct Environment Which Managed	Source IKKPct	Benchmark IKKPct	Environmental Management Objectives	Form of Environmental Management	Location of Environmental Management	Environmental Management Period	Environmental Management and Monitoring Institution
		tools that cause noise.			resting time of local residents			<ul style="list-style-type: none"> • Pinrang District Environment Office • South Sulawesi Provincial Environment Office
3	Water quality degradation Settlement	Land preparation	Reduced water supply from surrounding communities	Waste water generation from construction activities does not cause an increase in contamination of water bodies	<ul style="list-style-type: none"> • Provide sanitation utilities (portable toilets equipped with septic tanks) in a direction sufficient to cover all activities of domestic workers. 	At the project site and surrounding area	Management period during the operational period is once every 6 months.	Implementation: BPBAP Takalar Supervisor: <ul style="list-style-type: none"> • Pinrang District Environment Office • South Sulawesi Provincial Environment Office Report Recipient: <ul style="list-style-type: none"> • Pinrang District Environment Office • Environment Agency of South Sulawesi Province

b. Social, Economic and Cultural Components

1	Formation of community perceptions and attitudes	As a result of the iKKPcts generated in this activity, namely, increased noise and public health problems, it can lead to	Residents' complaints due to work disturbances	No negative perceptions and complaints from the community	<ul style="list-style-type: none"> • Conduct Public Consultation related to the work to be carried out 	At the project site and surrounding areas	Management period during the operational period lasts 6 months.	Implementation: BPBAP Takalar Supervisor: <ul style="list-style-type: none"> • Pinrang District Environment Office
---	--	---	--	---	---	---	---	---

No	IKKPct Environment Which Managed	Source IKKPct	Benchmark IKKPct	Environmental Management Objectives	Form of Environmental Management	Location of Environmental Management	Environmental Management Period	Environmental Management and Monitoring Institution
	negative attitudes and perceptions of the community on the plan Development activities.				<ul style="list-style-type: none"> Implement a complaint handling mechanism using the grievance redress mechanism (GRM) method. Appointment of complaints officers at every affected village Conducting periodic watering, especially in populated areas and areas prone to dust. 			<ul style="list-style-type: none"> South Sulawesi Provincial Environment Office <p>Report Recipient:</p> <ul style="list-style-type: none"> Pinrang District Environment Office Environment Office of South Sulawesi Province Life of South Sulawesi Province
2	Increased employment opportunities	Open up employment opportunities and income	Local labor potential	Open employment opportunities for local people	<ul style="list-style-type: none"> Selection of local labor first before labor from outside the region Provide transBroodstock job vacancy information to the local community 	Data Village, DuaKKPnua Sub-district, Pinrang Regency, South Sulawesi Province	During the course of the work	<p>Implementation: BPBAP Takalar</p> <p>Supervisor:</p> <ul style="list-style-type: none"> Pinrang District Environment Office South Sulawesi Provincial Environment Office <p>Report Recipient:</p>

No	IKKPct Environment Which Managed	Source IKKPct	Benchmark IKKPct	Environmental Management Objectives	Form of Environmental Management	Location of Environmental Management	Environmental Management Period	Environmental Management and Monitoring Institution
								<ul style="list-style-type: none"> • Pinrang District Environment Office • South Sulawesi Provincial Environment Office
3	Potential for work accidents	This stage of the activity is very risky for workers	Workers	Minimize the occurrence of work accidents	<ul style="list-style-type: none"> • Equip workers with personal protective equipment (PPE) • Carry out development activities according to the applicable SOPs • All workers must understand K3 procedures • Provide first aid in the work environment 	On the project site and surrounding areas	During the work progress	<p>Implementation: BPBAP Takalar</p> <p>Supervisor:</p> <ul style="list-style-type: none"> • Pinrang District Environment Office • South Sulawesi Provincial Environment Office <p>Report Recipient:</p> <ul style="list-style-type: none"> • Pinrang District Environment Office • South Sulawesi Provincial Environment Office

Monitoring and Reporting Plan

No	Monitored Environmental IKKPcts	Source of IKKPct	Environmental Management Success Indicator	Form of Environmental Monitoring	Environmental Monitoring Location	Environmental Monitoring Period	Environmental Monitoring Institution
1	Decrease in Air Quality	<ul style="list-style-type: none"> Traffic of trucks transporting materials imported from outside the Site Construction activities at the work site 	<p>Air quality on dust parameter that occurs along the material demobilization access road does not exceed 230 $\mu\text{g} / \text{Nm}^3$ according to Government Regulation No. 22 of 2021 Appendix VII</p>	<ul style="list-style-type: none"> Conduct material mobilization only during working hours, namely 8:00 - 16:00 WITA, Provide rules to truck drivers to limit truck speed to 30 km/hour. Cover the truck bed with adequate plastic sheeting and tie it tightly to the truck bed so that there is no gap that allows material to spill / scatter onto the road. Provide a truck washing station within the site area with clean water that covers the truck tires, Provide rules for truck drivers to wash truck tires before leaving the planned location. Material storage must be within the site area. 	On the project site and surrounding area	During the work ongoing	Implementation: BPBAP Takalar Supervisor: <ul style="list-style-type: none"> Pinrang District Environment Office South Sulawesi Provincial Environment Office Report Recipient: <ul style="list-style-type: none"> Pinrang District Environment Office South Sulawesi Provincial Environment Office
2	Increased Noise	Demobilization of heavy equipment and cleaning of remaining construction materials	<ul style="list-style-type: none"> Measuring noise with a sound level meter. CoKKPring the measurement results with the permissible Threshold Value in accordance with KepMen LH No.Kep48/M 	<p>The noise level that occurs in settlements around the location of the activity plan does not exceed 55 dB in accordance with the Decree of the Minister of Environment Number: Kep - 28 / MENLH / 11 / 1996 About Bau Noise Level for Residential / Settlement Areas</p>	Along the demobilization access road	During demobilization activities	Implementation: BPBAP Takalar Supervisor: <ul style="list-style-type: none"> Pinrang District Environment Office South Sulawesi Provincial Environment Office Report Recipient: <ul style="list-style-type: none"> Pinrang District Environment Office South Sulawesi Provincial

No	Monitored Environmental IKKPcts	Source of IKKPct	Environmental Management Success Indicator	Form of Environmental Monitoring	Environmental Monitoring Location	Environmental Monitoring Period	Environmental Monitoring Institution
			ENLH/11/1998.				Environment Office
3	Water quality degradation Settlement	Scattered building materials that fall into water bodies do not cause the quality of water bodies, which has been stipulated in Government Regulation No. 82 of 2001 class III for the TDS parameter.	Domestic sewage discharged into water bodies does not exceed the quality standards set in Government Regulation No. 22 of 2021 Appendix VI Class III for parameters: TDS, TSS, BOD5, COD, Fecal Coli, Total Coli.	<ul style="list-style-type: none"> • Data Collection Method: sampling method carried out by a third party, in this case a Laboratory institution in accordance with PermenLH No. 06 of 2009 concerning Environmental laboratories. Sampling is done at the location. • Analysis Method: Analysis of key parameters, namely: - TDS: Gravimetric (SNI 06- 6989.27- 2005) <ul style="list-style-type: none"> - TSS: Gravimetric (SNI 06- 6989.03- 2004) - BOD5: Winkler (SNI 01- 6989.72- 2009) - COD: Reflux/Tymmetry (SNI 01- 6989.73-2009) - Fecal Coli: MPN (SNI 01-3554- 2006) - Total Coli: MPN (SNI 01-3554- 2006) • The above analysis was conducted by a laboratory institution in accordance with Government Regulation No. 22 of 2021 concerning the Implementation of Environmental Safeguard and Management. 	The outlet point of the discharge route from the basecamp to the river	During the work progress	Implementation: BPBAP Takalar Supervisor: <ul style="list-style-type: none"> • Pinrang District Environment Office • South Sulawesi Provincial Environment Office Report Recipient: <ul style="list-style-type: none"> • Pinrang District Environment Office • South Sulawesi Provincial Environment Office

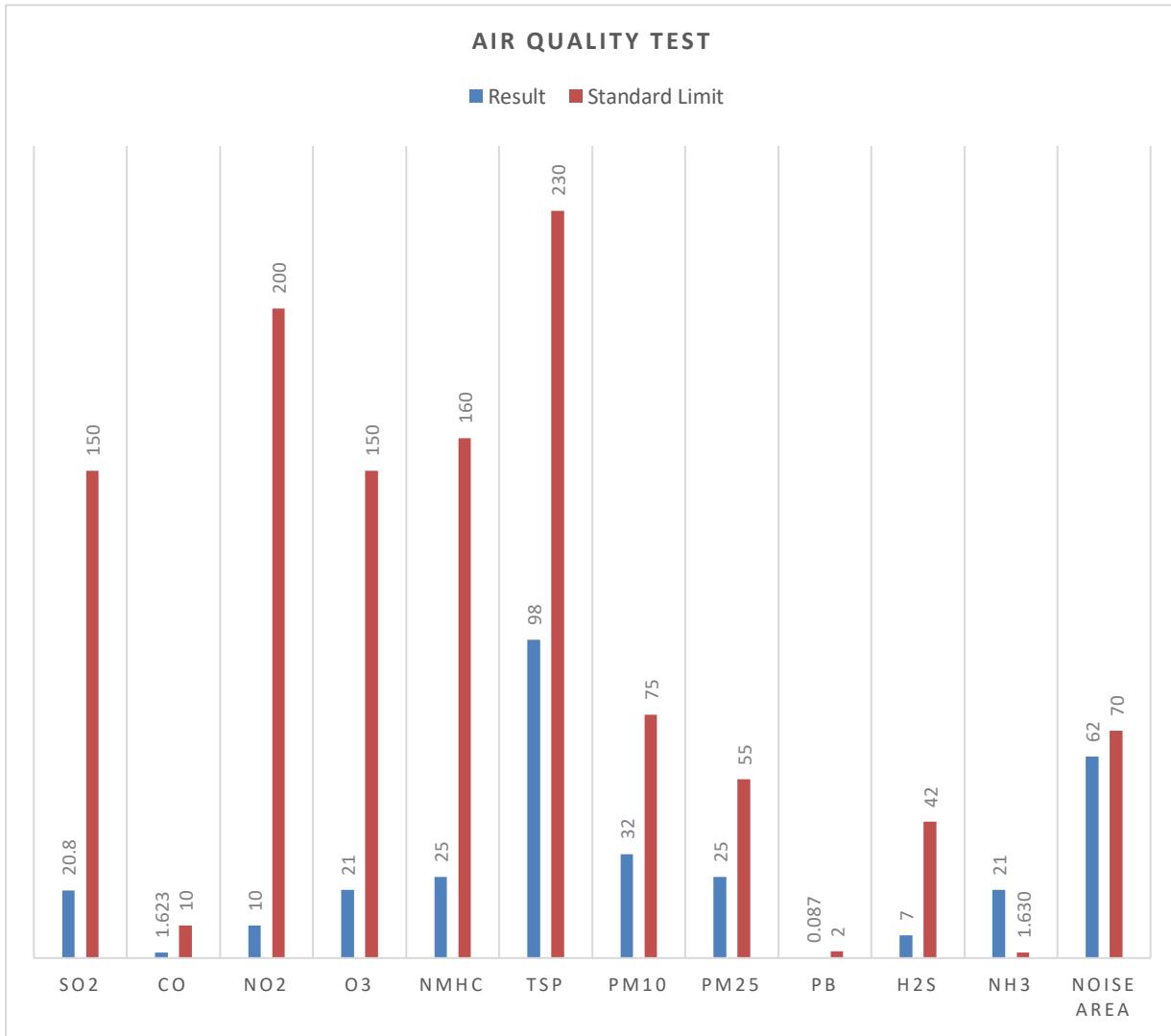
B. Social, Economic and Cultural Components

1	Formation of community perceptions and attitudes	the community can cause negative community	Absence of negative perceptions and complaints from the community	<ul style="list-style-type: none"> • Implement a grievance redress mechanism (GRM). • Appointment of grievance officers in each affected village 	Location of development project site	During the work progress	Implementation: BPBAP Takalar Supervisor:
---	--	--	---	--	--------------------------------------	--------------------------	--

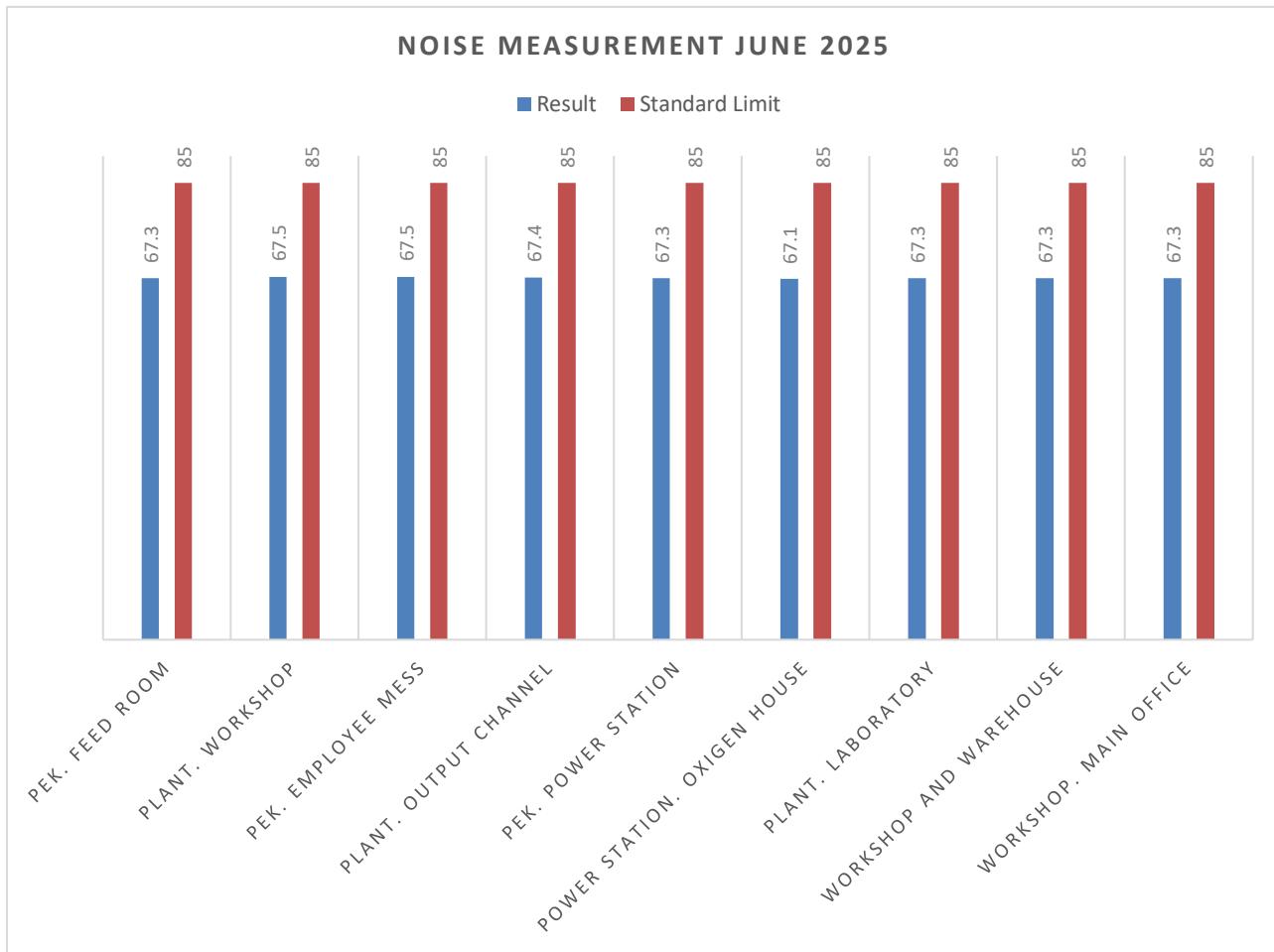
No	Monitored Environmental IKKPcts	Source of IKKPct	Environmental Management Success Indicator	Form of Environmental Monitoring	Environmental Monitoring Location	Environmental Monitoring Period	Environmental Monitoring Institution
		attitudes and perceptions on the planned activities Development					<ul style="list-style-type: none"> • Pinrang District Environment Office • South Sulawesi Provincial Environment Office <p>Report Recipient:</p> <ul style="list-style-type: none"> • Pinrang District Environment Office • South Sulawesi Provincial Environment Office
2	Increased employment opportunities	Employment and income opportunities	Job opportunities for local people	Selection of local labor first before labor from outside the region	Location of development project site	During the work	<p>Executor:</p> <p>Implementer:</p> <p>BPBAP Takalar</p> <p>Supervisor:</p> <ul style="list-style-type: none"> • Pinrang District Environment Office • South Sulawesi Provincial Environment Office <p>Report Recipient:</p> <ul style="list-style-type: none"> • Pinrang District Environment Office • South Sulawesi Provincial Environment Office

No	Monitored Environmental IKKPcts	Source of IKKPct	Environmental Management Success Indicator	Form of Environmental Monitoring	Environmental Monitoring Location	Environmental Monitoring Period	Environmental Monitoring Institution
3	Potential for work accidents	The occurrence of work accidents to employees during activities	Minimizing the occurrence of work accidents	<ul style="list-style-type: none"> • Equip workers with personal protective equipment (PPE) • Carry out development activities according to the applicable SOPs • All workers must understand K3 procedures • Provide first aid in the work environment 	Construction project site location	During the work progress	Implementation: BPBAP Takalar Supervisor: <ul style="list-style-type: none"> • Pinrang District Environment Office • South Sulawesi Provincial Environment Office Report Recipient: <ul style="list-style-type: none"> • Pinrang District Environment Office • South Sulawesi Provincial Environment Office

Appendix 6 Air Quality Test Results



Appendix 7 Noise Test Results



Appendix 8 Water Quality Test Results



SAMPLE INFORMATION

Job No. : GL-2871/VI/2025
Customer : PT BASUKI RAHMANTA PUTRA
Quotation/PO No. : 2350/GL/Q/VI/2025

No.	Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Sampled By	Coordinates	
1	GL-2871-1	Air Payau (Pinrang, Sulsel)	Surface Water	5-Jun-25	09.00	5-Jun-25	Mr. Amni	-	-
2	GL-2871-2	Air Laut (Pinrang, Sulsel)	Sea Water	5-Jun-25	09.00	5-Jun-25	Mr. Amni	-	-
3	GL-2871-3	Air Bersih (Pinrang, Sulsel)	Water Supply	5-Jun-25	09.00	5-Jun-25	Mr. Amni	-	-

Brackish Water Quality Results



SUMMARY OF TEST RESULT

Job No. : GL-2871/VI/2025
 Customer : PT BASUKI RAHMANTA PUTRA
 Quotation/PO No. : 2350/GL/Q/V/2025

Laboratory Sample ID : GL-2871-1
 Customer Sample ID : Air Payau (Pinrang, Sulsel)
 Date Sampled : 5-Jun-25
 Time Sampled : 09.00
 Sample Matrix : Surface Water
 Coordinates : -

No.	Test Item	Unit	Test Method	Result	RL	Standard Limit [#]
1	Temperature	°C	SNI 06-6989.23-2005	27.4	0.01	27.4 ± 3
2	Total Dissolved Solid, TDS	mg/L	G-LAB/IK/11 (Direct Reading)	695.6	0.01	1,000
3	Total Suspended Solid, TSS	mg/L	SNI 6989.3:2019	4	2.5	40
4	Color	Pt-Co	SNI 6989.80-2011	<14.03	14.03	15
5	pH	pH	SNI 6989.11:2019	7.66	0.01	6 - 9
6	Biochemical Oxygen Demand, BOD ₅	mg/L	SM 23rd Ed. 5210 B. 2017	<1.8	1.8	2
7	Chemical Oxygen Demand, COD	mg/L	SNI 6989.2:2019	8	5	10
8	Dissolved Oxygen, DO	mg/L	SNI 06-6989.14-2004	7	0	>6
9	Sulphate, SO ₄ ²⁻	mg/L	SNI 6989.20-2019	30	0.95	300
10	Chloride, Cl ⁻	mg/L	SNI 6989.19:2009	165	2.29	300
11	Nitrate, NO ₃ -N**	mg/L	SNI 6989.79:2011	1	0.01	10
12	Nitrite, NO ₂ -N	mg/L	SNI 06-6989.9-2004	0.0229	0.0097	0.06
13	Ammonia, NH ₃ -N	mg/L	SNI 06-6989.30-2005	0.00697	0.0005	0.1
14	Total Nitrogen**	mg/L	SNI 06-6989.52-2005	1	-	15
15	Total Phosphate, P	mg/L	SNI 6989-31 : 2021	0.0609	0.05	0.2
16	Fluoride, F ⁻	mg/L	SNI 6989.29-2005	0.29	0.021	1
17	Sulfide, H ₂ S**	mg/L	SNI 6989.70:2009	<0.002	0.002	0.002
18	Cyanide, CN ⁻	mg/L	G-LAB/IKM/89 (Spectrophotometry)	<0.004	0.004	0.02
19	Free Cl ₂	mg/L	G-LAB/IK/17 (Spectrophotometry)	0.02	0.02	0.03
20	Dissolved Barium, Ba**	mg/L	SNI 6989-82:2018	0.0056	0.005	1
21	Dissolved Mercury, Hg**	mg/L	APHA 3125 B-2017	<0.0008	0.0008	0.001
22	Dissolved Arsen, As	mg/L	SNI 6989-82:2018	0.009	0.00684	0.05
23	Dissolved Selenium, Se	mg/L	SNI 6989-82:2018	0.006	0.005	0.01
24	Dissolved Iron, Fe	mg/L	SNI 6989-82:2018	0.0127	0.004	0.3
25	Dissolved Cadmium, Cd	mg/L	SNI 6989-82:2018	0.0056	0.004	0.01
26	Dissolved Cobalt, Co	mg/L	SNI 6989-82:2018	0.0117	0.004	0.2
27	Dissolved Manganese, Mn**	mg/L	SNI 6989-82:2018	0.00429	0.004	0.1
28	Dissolved Nickel, Ni	mg/L	SNI 6989-82:2018	0.0104	0.004	0.05
29	Dissolved Zinc, Zn	mg/L	SNI 6989-82:2018	0.028	0.004	0.05
30	Dissolved Copper, Cu	mg/L	SNI 6989-82:2018	0.0118	0.005	0.02
31	Dissolved Lead, Pb	mg/L	SNI 6989-82:2018	0.0212	0.005	0.03
32	Hexavalent Chromium, Cr ^{6+**}	mg/L	SNI 6989.71:2009	0.0125	0.0098	0.05
33	Oil&Grease, OG**	mg/L	SNI 6989.10:2011	0.408	-	1
34	Total Surfactant, MBAS	mg/L	SNI 06-6989.51-2005	0.0416	0.05	0.2
35	Phenol	mg/L	SNI 06-6989.21-2004	<0.005	0.005	0.002
36	Fecal Coliform	MPN/100 mL	SM APHA 23rd Ed., 9221 B.C. & E, 2017	110	18	100
37	Total Coliform	MPN/100 mL	SM APHA 23rd Ed., 9221 B & C, 2017	330	18	1,000
38	Floatables**	-	G-LAB/IK/62 (Visual)	None	NA	None

Remarks:

RL = Reporting limit, quantitation limit of analyte in sample
 SL = Standard limit, regulatory limit or threshold value
 # = Refer to PPR No. 22/2021 Attachment VI Category I
 NA = Not Applicable
 ** = Not Accredited
 Bold = Result exceeding the standard limit
 (xx) = (.) As character to indicate thousands notation
 (xx) = (.) As character to indicate decimal notation
 Ambient Temperature = Uninformation

Note : The test results relate only to samples being tested



Sea Water Quality Results



SUMMARY OF TEST RESULT

Job No. : GL-2871/VI/2025
 Customer : PT BASUKI RAHMANTA PUTRA
 Quotation/PO No. : 2350/GL/Q/V/2025

Laboratory Sample ID : GL-2871-2
 Customer Sample ID : Air Laut (Pinrang, Sulsel)
 Date Sampled : 5-Jun-25
 Time Sampled : 09.00
 Sample Matrix : Sea Water
 Coordinates : -

No.	Test Item	Unit	Test Method	Result	RL	Standard Limit ^{1#}
1	Transparency**	m	G-LAB/IKM/66.1 (Secchi Disk Method)	NA	NA	>5
2	Turbidity	NTU	SNI 06-6989.25-2005	0.15	0.01	5
3	Odor	-	Organoleptik	Nature	NA	Nature
4	Total Suspended Solid, TSS	mg/L	SM 23rd Ed. 2450 D-2017	3	2.5	20
5	Temperature	°C	SM 23rd Ed. 2550 B-2017	27.8	0.01	27.8 ± 3
6	Oil Layer	-	G-LAB/IK/63 (Visual)	None	NA	None
7	pH	pH	SM 23rd Ed. 4500-H-2017	7.54	0.01	7 - 8.5
8	Salinity	% _{oo}	EPA-842-B06-003 butir 14	25	1	-
9	Dissolved Oxygen, DO	mg/L	SNI 06-6989.14-2004	7	-	>5
10	Biochemical Oxygen Demand, BOD ₅	mg/L	SM 23rd Ed. 5210B 2017	3	1.8	20
11	Total Ammonia, NH ₃ -N	mg/L	SNI 06-6989.30.2005	<0.0997	0.0997	0.3
12	Orthophosphate, PO ₄ ³⁻	mg/L	SNI 06-6989.31:2021	0.0054	0.003	0.015
13	Nitrate, NO ₃ -N*	mg/L	SNI 19-6964.7-2003	0.0529	0.01	0.06
14	Sulfide, H ₂ S	mg/L	SNI 19-6964.4-2003	0.0021	0.001	0.01
15	Total Phenol	mg/L	APHA 5530 C-2012	<0.005	0.005	0.002
16	Surfactant, MBAS	mg/L	SM 23rd Ed. 5540 C-2017	<0.022	0.022	1
17	Oil&Grease, OG	mg/L	SNI 6989.11:2011	0.391	-	1
18	Mercury, Hg**	mg/L	APHA 3125 B-2017	<0.0008	0.0008	0.001
19	Hexavalent Chromium, Cr ⁶⁺	mg/L	SNI 6989.71:2009	0.0039	0.0006	0.005
20	Arsen, As	mg/L	SNI 6989-82:2018	0.007	0.00684	0.012
21	Cadmium, Cd	mg/L	SNI 6989-82:2018	<0.001	0.001	0.001
22	Copper, Cu	mg/L	SNI 6989-82:2018	0.0061	0.005	0.008
23	Lead, Pb	mg/L	SNI 6989-82:2018	<0.005	0.005	0.008
24	Zinc, Zn	mg/L	SNI 6989-82:2018	<0.004	0.004	0.05
25	Nickel, Ni	mg/L	SNI 6989-82:2018	0.0101	0.004	0.05
26	Total Coliform	Jml/100 mL	SM APHA 23rd Ed., 9221 B & C, 2017	120	1.8	1,000

Remarks:

RL = Reporting limit, quantitation limit of analyte in sample
 'SL = Standard limit, regulatory limit or threshold value
 # = Refer to PP RI No. 22/2021 Attachment VIII (Biota Laut)
 NA = Not Applicable
 ** = Not Accredited
 Bold = Result exceeding the standard limit
 (x,x) = (,) As character to indicate thousands notation
 (x,x) = (,) As character to indicate decimal notation
 Ambient Temperature = Uninformaton

Note : The test results relate only to samples being tested



Clean Water Quality Results



SUMMARY OF TEST RESULT

Job No. : GL-2871/VII/2025
 Customer : PT BASUKI RAHMANTA PUTRA
 Quotation/PO No. : 2350/GL/Q/V/2025

Laboratory Sample ID : GL-2871-3
 Customer Sample ID : Air Bersih (Pinrang, Sulsel)
 Date Sampled : 5-Jun-25
 Time Sampled : 09.00
 Sample Matrix : Water Supply
 Coordinates : -

No.	Test Item	Unit	Test Method	Result	RL	Standard Limit ^{1#}
1	E. Coli	CFU/100mL	ISO 9308-1:2014	0	0	0
2	Total Coliform	CFU/100mL	ISO 9308-1:2014	0	0	0
3	Temperature	°C	SNI 06-6989.23-2005	27.3	0.01	27.3 ± 3
4	Total Dissolved Solid, TDS	mg/L	G-LAB/IK/11 (Conductometry)	190.6	0.01	<300
5	Turbidity	NTU	SNI 06-6989.25-2005	0.16	0.01	<3
6	Color	TCU	SNI 6989.80:2011	<5.53	5.53	10
7	Odor	-	Organoleptik	Odorless	NA	Odorless
8	pH	pH	SNI 6989.11:2019	7.65	0.01	6.5 - 8.5
9	Nitrate, NO ₃ -N**	mg/L	SNI 6989.79:2011	2	0.09	20
10	Nitrite, NO ₂ -N	mg/L	SNI 06-6989.9-2004	0.0113	0.0099	3
11	Hexavalent Chromium, Cr ^{6+**}	mg/L	SNI 6989.71:2009	0.005	0.0018	0.01
12	Dissolved Iron, Fe	mg/L	SNI 6989-82:2018	0.0129	0.004	0.2
13	Dissolved Manganese, Mn	mg/L	SNI 6989-82:2018	0.0175	0.004	0.1

Remarks:

RL = Reporting limit, quantitation limit of analyte in sample

SL = Standard limit, regulatory limit or threshold value

= Refer to PerMenKes No. 2/2023 Table 3 (Keperluan Higiene Sanitasi)

NA = Not Applicable

** = Not Accredited

Bold = Result exceeding the standard limit

(x,x) = (,) As character to indicate thousands notation

(x,x) = (,) As character to indicate decimal notation

Ambient Temperature = Uninformation

Note : The test results relate only to samples being tested



Appendix 9 Planning Training and Capacity Building

Planning Training and Capacity Building Related to Environmental Safeguard in 2025

According to IEE (Para 455 - 457, and Table 94)					Training Needs and Capacity Building Plan
Period	Target groups	Main content	Estimated Duration (Days)	Trainees Number (Persons)	
Preparation	PMO/PIU Staff	<ul style="list-style-type: none"> Environmental policy and regulation (ADB and Government Regulations) The entire EMP and HSE issues of the project Environmental monitoring and reporting 	1	7 (PIU)+ 6 (PMO)	Training for PMO/PIU in environment safeguards Time in Q2 2025
	Supervision Engineers (SE)	<ul style="list-style-type: none"> The EMP for construction, focusing on mitigation measures, SE's contractual and statutory duties in supervising, monitoring and reporting etc; 	2	10 (SE/ Contractors)	Training for SEs in environment safeguards Time in Q2 2025
Construction	Contractors, their foremen	<ul style="list-style-type: none"> The EMP for construction and measures. Contractual and statutory duties related to environment, health, safety (HSE) and labor issues. Applicable domestic permits related to contractors' responsibilities. Complaint handling and GRM during construction 	1	10 (Foremen/ Contractors)	Training for contractors in environment safeguards Time in Q2 2025
	Contractors, its foremen and workers	<ul style="list-style-type: none"> The EMP for construction, especially mitigation measures H&S and Emergency Response Preparedness (ERP) requirements, and preventive and mitigation measures etc; and Solid waste and construction wastes management 	1	30 (Foremen and Workers)/ Contractors	

Appendix 10 NIB And SPPL



PEMERINTAH REPUBLIK INDONESIA

PERIZINAN BERUSAHA BERBASIS RISIKO
NOMOR INDUK BERUSAHA: 1704240133068

Berdasarkan Undang-Undang Nomor 6 Tahun 2023 tentang Penetapan Peraturan Pemerintah Pengganti Undang-Undang Nomor 2 Tahun 2022 tentang Cipta Kerja Menjadi Undang-Undang, Pemerintah Republik Indonesia menerbitkan Nomor Induk Berusaha (NIB) kepada:

1. Nama Pelaku Usaha : SULISTYANINGSIH
2. Alamat : DUSUN V DESA BANDAR NEGERI , Desa/Kelurahan Bandar Negeri, Kec. Labuhan Maringgai, Kab. Lampung Timur, Provinsi Lampung
3. Nomor Telepon Seluler : +
4. Kode Klasifikasi Baku Lapangan Usaha Indonesia (KBLI) : ningsihsulis556@gmail.com
5. Skala Usaha : Lihat Lampiran
6. Usaha Mikro

NIB ini berlaku di seluruh wilayah Republik Indonesia selama menjalankan kegiatan usaha dan berlaku sebagai hak akses kelebihan, pendaftaran kepesertaan jaminan sosial kesehatan dan jaminan sosial ketenagakerjaan, serta bukti pemerlukan laporan pertama Wajib Lapor Ketenagakerjaan di Perusahaan (WLKP).

Pelaku Usaha dengan NIB tersebut di atas dapat melaksanakan kegiatan berusaha sebagaimana terlampir dengan tetap memperhatikan ketentuan peraturan perundang-undangan.

Khusus untuk KBLI dengan klasifikasi risiko rendah sebagaimana terlampir, NIB merupakan perizinan tunggal yang berlaku sebagai sertifikat jaminan produk halal berdasarkan pernyataan mandiri pelaku usaha dan setelah memperoleh pembinaan dan/atau pendampingan Proses Produk Halal (PPH) dari Pemerintah Pusat dan Pemerintah Daerah sesuai dengan ketentuan peraturan perundang-undangan.

Diterbitkan di Jakarta, tanggal: 17 April 2024

Menteri Investasi dan Hibrisasi/
Kepala Badan Koordinasi Penanaman Modal,



Ditandatangani secara elektronik

Dicetak tanggal: 22 Mei 2025

1. Dokumen ini diterbitkan sistem OSS berdasarkan data dari Pelaku Usaha, tersimpan dalam sistem OSS, yang menjadi tanggung jawab Pelaku Usaha.
2. Dalam hal terjadi kekeliruan isi dokumen ini akan dilakukan perbaikan sebagaimana mestinya.
3. Dokumen ini telah ditandatangani secara elektronik menggunakan sertifikat elektronik yang diterbitkan oleh BSsE-BSSN.
4. Data lengkap Perizinan Berusaha dapat diperoleh melalui sistem OSS menggunakan hak akses.

1. Dokumen ini diterbitkan sistem OSS berdasarkan data dari Pelaku Usaha, tersimpan dalam sistem OSS, yang menjadi tanggung jawab Pelaku Usaha.
2. Dalam hal terjadi kekeliruan isi dokumen ini akan dilakukan perbaikan sebagaimana mestinya.
3. Dokumen ini telah ditandatangani secara elektronik menggunakan sertifikat elektronik yang diterbitkan oleh BSsE-BSSN.
4. Data lengkap Perizinan Berusaha dapat diperoleh melalui sistem OSS menggunakan hak akses.



**SURAT PERNYATAAN KESANGGUPAN PENGELOLAAN
DAN PEMANTAUAN LINGKUNGAN HIDUP (SPPL)**

Kami yang bertanda tangan di bawah ini:

Nama Badan Usaha	:	SULISTYANINGSIH
Nomor Induk Berusaha (NIB)	:	1704240133068
Nama Penanggung Jawab	:	SULISTYANINGSIH
Jabatan	:	
Alamat	:	DUSUN V DESA BANDAR NEGERI , Desa/Kelurahan Bandar Negeri, Kec. Labuhan Maringgai, Kab. Lampung Timur, Provinsi Lampung
No. Telepon	:	+ 62 812 3456 7890

No	Kode KBLI	Bidang Usaha / Kegiatan	Lokasi Usaha
1	56103	Kedai Makanan	Dusun VI Desa Bandar Negeri Lampung Labuhan Maringgai Bandar Negeri
2	10216	Industri Berbasis Daging Lumatan Dan Surimi	Dusun VI Desa Bandar Negeri Lampung Labuhan Maringgai Bandar Negeri
3	03254	Pembesaran Crustacea Air Payau	DUSUN V DESA BANDAR NEGERI Lampung Labuhan Maringgai Bandar Negeri

Menyatakan kesanggupan:

1. Mematuhi dan melaksanakan usaha dan/atau kegiatan pada lokasi yang sesuai dengan peruntukan rencana tata ruang;
2. Mematuhi dan melaksanakan usaha dan/atau kegiatan sesuai dengan ketentuan peraturan perundang-undangan di bidang perlindungan dan pengelolaan lingkungan hidup;
3. Mematuhi ketentuan persyaratan pemerlukan parameter baku mutu lingkungan sesuai dengan kegiatan yang dilakukan serta limbah yang dihasilkan;
4. Mematuhi ketentuan dan menyediakan fasilitas penyiapanan limbah sementara dan sampah domestik sesuai dengan kegiatan serta limbah dan sampah yang dihasilkan;
5. Mematuhi ketentuan dan menyediakan fasilitas pengelolaan limbah cair untuk usaha dan/atau kegiatan yang dilakukan sesuai dengan jumlah limbah yang dihasilkan dan jumlah tenaga kerjanya;
6. Bersedia untuk memenuhi pengaturan dan pengelolaan dampak usaha dan/atau kegiatan terhadap aspek transportasi;
7. Bersedia dilakukan pemeriksaan/pengawasan terhadap usaha dan/atau kegiatan yang dilakukan untuk memastikan pemerlukan persyaratan lingkungan sesuai ketentuan peraturan perundang-undangan di bidang perlindungan dan pengelolaan lingkungan hidup;
8. Bersedia memproses persetujuan lingkungan dalam hal akan menyediakan sarana dan prasarana dengan menyusun dokumen lingkungan sesuai dengan kewajiban dalam peraturan yang merdaftarkan usaha dan/atau kegiatan wajib Amdal, UKL-UPL dan SPPL; dan
9. Bersedia dihentikan usaha dan/atau kegiatannya dan diproses hukum sesuai dengan peraturan perundang-undangan apabila melanggar atau tidak memenuhi ketentuan persyaratan yang telah ditetapkan sebagaimana bukti 1 sampai 8.

Demikian pernyataan ini dibuat dengan sebenar-benarnya. Apabila di kemudian hari terdapat kekeliruan ataupun ketidakakuratan dalam pernyataan ini, maka Pelaku Usaha bersedia menerima konsekuensi sesuai dengan ketentuan peraturan perundang-undangan.

Lampung Timur, 22 Mei 2025
ttd.
(SULISTYANINGSIH)

Appendix 11 The coordinates of sampling points

