

TERM OF REFERENCE (English Version)

GENERAL INFORMATION

Project	: Baseline Survey of Mangrove and Reef Health Monitoring in Marine Protected Area of Derawan Islands and Surrounding Waters, Berau Regency, East Kalimantan.
Duty Station	: Jakarta, Indonesia
Contract Duration	: 12 May 2025 – 30 June 2025

A. PROJECT BACKGROUND

Project Background

Yayasan Konservasi Alam Nusantara (YKAN) is a non-profit organization that has been working in the Coastal and Small Islands Conservation Area (KKP3K) of the Derawan Islands and Surrounding Waters (KDPS), Berau Regency, East Kalimantan since 2002. As part of the work plan in YKAN's assisted villages through the SIGAP (Inspiring Citizen Action for Change) approach, surveys of coastal and marine resource potential enrich information on the potential owned by assisted villages. Through funding from the Global Fund for Coral Reefs (GFCR) and Margaret A. Cargill Philanthropies (MACP), YKAN will conduct a coral reef and mangrove health survey in May 2025.

The initiation of the KORALESTARI Program funded by GFCR in 2024 aims to protect and restore coral reefs in Indonesia from destructive fishing, environmentally unfriendly cultivation, unsustainable coastal development, pollution on land and sea, the impact of climate change, and invasive species. KORALESTARI is also a mixed funding that will support activities and investments in the blue economy that positively impact coral reefs.

The KORALESTARI program will take place in 2024 - 2029 in three priority areas: (i) Berau, East Kalimantan; (ii) Sawu Sea, East Nusa Tenggara; and (iii) Natuna Sea, Riau Islands. The vision of the KORALESTARI program is a transformation in efforts to protect and restore coral reefs through sustainable financing from Marine Protected Areas (KKP) and encouraging a blue economy that has a positive impact on the sustainability of coral reefs, which can increase the income of surrounding communities, promote inclusiveness, and increase coastal resilience to climate change.

In 2024, an initial survey was conducted using the manta tow method to map the existing conditions of the coral reef ecosystem in the Coastal and Small Islands Conservation Area (KKP3K) of the Derawan Islands and Surrounding Waters (KDPS), Berau Regency, East Kalimantan. The survey covered four villages, Teluk Sulaiman, Batu Putih, Balikpapan, and Bohe Silian, with a total observation route of 263.26 km. This survey showed that the average percentage of live hard coral cover (HCL) in KKP3K KDPS was 34.20%, which is included in the moderate damage category criteria. Several coral reef locations with good categories were also successfully identified as indicators for monitoring ecosystem health.

Furthermore, as one aspect of assessing the effectiveness of conservation area management (EVIKA), repeated monitoring is needed to provide essential data and information on changes in the population of indicator biota in the coral reef ecosystem as a benchmark for resource management and protection program interventions. Data collection and information on coral reef health, mangrove coverage, and biodiversity status are conducted in a time series, where the baseline study (T0) is the initial measure of the coral reef ecosystem health assessment. In addition, coral reef health and mangrove monitoring are two aspects of assessing the effectiveness of conservation area management.

B. TUJUAN/RUANG LINGKUP PEKERJAAN

Objectives/Purposes of the Assignment:

YKAN is seeking a qualified Consulting Firms to conduct Baseline Survey of Mangrove and Reef Health Monitoring in Marine Protected Area of Derawan Islands and Surrounding Waters, Berau Regency, East Kalimantan, includes:

1. Implement coral reef health monitoring in KKP3K KDPS
2. Obtain data and information on coral reef health status and fish biomass in KKP3K KDPS.
3. Obtain data and information on the status and condition of the mangrove ecosystem in KKP3K KDPS.
4. Obtain data and information on carbon storage estimates in the mangrove ecosystem in KKP3K KDPS.
5. Obtain data and information on the distribution of Aves, herpetofauna, and mammal diversity in the mangrove ecosystem in KKP3K KDPS.

Survey activities are expected to be carried out during 12-23 May 2025, at KKP3K KDPS, with a total number of observation points of 15 for the RHM baseline and 13 for the Mangrove baseline.

Scope of work:

The scope of work is organized into the following tasks:

1. Preparation Survey
2. Secondary data collection
3. Primary data collection
4. Coordinating survey activities
5. Storing survey data
6. Entering field survey data.
7. Data analysis
8. Collecting documentation (photos and/or videos) of activities carried out and submitting them to the YKAN team (becomes the property of YKAN).
9. The consultant must always communicate and discuss work progress, obstacles, and problems with the YKAN team during the survey implementation.
10. The consultant works under the supervision of the YKAN Ocean Protection team.
11. Making activity reports and coordinating data, photos, and videos with the team coordinator.

C. DELIVERABLES AND PAYMENT SCHEDULE

Deliverables and Payment Schedule

This project work is anticipated to be implemented in 2 months timeframe between 24th of March 2024 until the 30th of May 2025.

The expected output of this project as whole reporting, period from the starting date to the end of the period, includes:

1. Availability of types, sizes, abundance of individuals, and biomass of coral fish.
2. Availability of coordinates for permanent transect locations.
3. Availability of assessment of cover conditions and distribution of mangrove diversity species.
4. Availability of data and information on mangrove carbon storage estimates
5. Availability of data and information on the distribution of aves, herpetofauna, and mammal diversity species in the mangrove ecosystem.
6. Availability of data and information on water quality at coral reef and mangrove survey locations
7. Availability of monitoring result maps and monitoring reports, along with documentation of activities.

The Consultant is required to submit:

1. Availability of the Final Report on Reef Health Monitoring.
2. Availability of the Final Report on mangrove ecosystem monitoring and carbon storage estimation.
3. Availability of Final Report on Monitoring Species Diversity of Aves, Herpetofauna, and Mammals in Mangrove Ecosystem.

in which work completion section was signed by the service requestor as the deliverable of each service as detail following below:

No.	Output/Deliverables	Percentage Payment (%)	Submission Date	Penalty
1.	Upon signing contract	50%	12-May-25	NA
2.	Submission Interim Report, includes: <ul style="list-style-type: none"> Survey implementation Survey data in Excel format. Availability of data and information related to the percentage of live coral cover and megabenthos. Availability of types, sizes, abundance of individuals, and biomass of coral fish. 	30%	30-May-25	IDR100,000 / hari

	<ul style="list-style-type: none"> • Availability of permanent transect location coordinates. • Availability of assessment of cover conditions and distribution of mangrove diversity species. • Availability of data and information on mangrove carbon storage estimates • Availability of data and information on the distribution of aves, Herpetofauna, and mammal diversity species in the mangrove ecosystem. • Availability of data and information on water quality at coral reef and mangrove survey locations • Availability of monitoring result maps and monitoring reports, along with documentation of activities 			
3.	Submission Final Report, includes: <ul style="list-style-type: none"> • Availability of the Final Report on Reef health monitoring. • Availability of the Final Report on mangrove ecosystem monitoring and carbon storage estimation. • Availability of Final Report on Monitoring Species Diversity of Aves, Herpetofauna, and Mammals in Mangrove Ecosystem. 	20%	20-Jun-25	IDR100,000 / hari

All documents must be in Bahasa Indonesia, in accordance with YKAN's formatting requirements. All documents should be submitted in soft copy.

The Individual Consultant will report to **Evi Ihsan, Marine Protected Area (MPA) Coordinator**, and **Muhammad Aris, Conservation & Monitoring Specialist** for the completion of the tasks and duties at the YKAN in which the Individual Consultant will be retained.

D. EXPERTISE INFORMATION

Expertise Information

YKAN will enter into a contract for the delivery of the work set out in these Terms of Reference. The skills and experience required of the adviser should include inter alia:

- Firm/entity with a Team with knowledge and expertise in the field of Coral Reef Ecosystem Health Assessment, including assessment of coral reef health and associated biota, identification of reef fish species, analysis of biomass data, and abundance of reef fish.
- A company/entity that has a Team that has knowledge and expertise in the field of Mangrove Ecosystem Assessment, including structure and composition, canopy coverage, assessment of carbon stock estimates, identification of types/species, and associated biota, including Aves, Herpetofauna, and Mammals.
- Knowledge or technical expertise in marine and fisheries issues and the environmental issues that accompany them.
- Have a good understanding of the planning and management of Marine Protected Areas and the applicable regulations and laws.
- Ability to write and filter complex information to produce analytical reports that are easily understood and utilized by key stakeholders.

E. ADMINISTRATIVE INFORMATION

Administrative Information

Eligible Firms/entities should send their proposal through this link: <https://www.ykan.or.id/id/pengadaan-barang-dan-jasa/>

The proposal submission deadline is **May 2, 2025, 17.00 WIB**. Proposal submitted after the deadline will not be considered.

Applicable Tax:

The Contractor is responsible to pay all Income Tax, Value Added Tax (VAT) if applicable or other duties as applicable as present Indonesia Government rule.

The breakdown of applicable VAT/Tax are as follows:

1. Withholding tax under Article 21. Based on PMK168/2023, the income tax rate for independent contractors is 50% of the gross income.
2. Withholding tax under Article 23. Specific types of Income paid to tax residents are subject to withholding tax at a rate of either 2% or 15%.
3. Withholding tax under Article 26. Income received by a non-Indonesia taxpayer is subject to a rate of 20% final withholding tax. The tax rate can be reduced based on the applicable tax treaty if non-resident taxpayer is a resident of the tax treaty partner country, subject to fulfilling certain requirements.
4. Final withholding tax under Article 4(2)
5. VAT/VAT Offshore. Taxpayers pay VAT at rate of 11%