

**Health and Safety Plan**

CEPF Grant 112991

Perkumpulan Manengkel Solidaritas

Improving Marine Protected Areas and Sustainable Fisheries Management in North Sulawesi,  
Phase II

1. **Grantee organization:** Perkumpulan Manengkel Solidaritas
2. **Grant title:** Improving Marine Protected Areas and Sustainable Fisheries Management in North Sulawesi, Indonesia
3. **Grant number:** 112991
4. **Grant amount (US dollars):** approximately \$70,000
5. **Proposed dates of grant:** July 2022 – March 2024
6. **Location (country):** Indonesia
7. **Person responsible for this plan:** Director, Manengkel, +62-853-3130-0238
8. **Date of preparation of this document:** 7 April 2022

## 9. Component of this project that raises health and safety issues

Manengkel has an ongoing grant with CEPF. This document discusses Phase II of that grant, building on these ongoing activities. The project works with two communities on the island of Lembeh, Mawali and Batu Lubang, across the narrow Lembeh Strait from Bitung City in North Sulawesi. Mawali has 162 small-scale tuna fishers working on 30 boats and Batu Lubang has about 250-300 small scale tuna fishers working on 50-60 boats.

Manengkel's goal is to improve the management of the reef used by these fishers while maintaining, or increasing, their household income. The project is:

1. Establishing a marine protected area (MPA) of less than 10 hectares in the Lembeh Strait, following all legal requirements and best practices. It will ecological and socioeconomic studies; technical, government, and community consultations; and formal documentation and a decree from the provincial governor.
2. Improving fishery management through training, connections of stakeholders to the Indonesian Pole & Line and Handline Fisheries Association (AP2HI), village-level agreements on fishing methods and periods, and licensing.
3. Training women's groups in post-harvest handling and alternative livelihoods.
4. Promoting best practices more widely, as learned from the government's national efforts.

Component 1, establishing the MPA, involves scuba diving to measure the extent of healthy reef and monitor improvements. Manengkel will work with independent experts to undertake this work. Scuba diving is an inherently risky activity.

## 10. Actions to ensure health and safety

- Manengkel will select the experts that do underwater monitoring. A prerequisite will be PADI certification for diving in the conditions present for this project. (PADI is the Professional Association of Diving Instructors, which gives certification to those who have completed courses and test.)

- Manengkel will work only with licensed dive operators to provide equipment to the experts. It is illegal in Indonesia for a dive shop to provide tanks or gear without a license, and such dive shops only provide tanks and gear to PADI-certified divers.
- Manengkel will use reasonable means to ensure the physical health of the experts before they undertake any diving activity and will ask, prior to each dive, for a self-certification that the diver is in a condition to work.
- Manengkel will ensure that all boats transporting divers have appropriate communication equipment (e.g., cell phones, radios) and first aid.
- Manengkel will require that all dives have a “dive plan” on file at its offices, with the location, names of divers, planned duration of dive, and activities of the dive (e.g., photography, sample collection) in accordance with PADI guidelines.

## **11. Budget**

The budget includes costs for personnel/consultants who are appropriately qualified. That is, we have budgeted an amount for people that factors in the additional costs we must pay for PADI certified marine biologists and photographers.

The budget also includes sufficient money (1) to use licensed dive shops, (2) to use safe boats with first aid, and (3) to ensure that staff have appropriate communication equipment.

## **12. Monitoring and evaluation**

The project manager and Manengkel director will be responsible for selecting personnel and ensuring they have PADI certification. Manengkel staff and these selected experts will then select the dive shops. The director will approve those selections. The office administrator will ensure that dive plans are prepared and the director will approve these prior to dives taking place.

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