

ENVIRONMENTAL IMPACT ASSESSMENT FOR MARINE AQUACULTURE (MARICULTURE) DEVELOPMENT IN SWAKOPMUND, WALVIS BAY AND LÜDERITZ

LÜDERITZ

Summary of Minutes of the Lüderitz Sectoral Meeting

1. Minutes Of the Lüderitz Consultation Meeting (Scoping Phase)

- 1.1. Date: August 16th, 2022
- 1.2. Venue: Nest Hotel, Lüderitz

2. Agenda Items:

- Introducing the EIA Team
- Introducing the Proponent Ministry of Fisheries and Marine Resources
- Introducing the Technical Advisor Benguela Current Convention
- Project Objective
- Purpose of the Meeting
- Discussion session
- Way forward

3. Meeting participants:

See attendance Register.

4. Proceedings

Welcome, Opening Remarks and Round of introductions

The opening remarks for the meeting was done by Mr. Hamukwaya (Ministry of Fisheries and Marine Resources) in which he welcomed all participants to the meeting and informed the public regarding the environmental assessment being conducted for the coastal towns of Swakopmund, Lüderitz and Walvis Bay mariculture/aquaculture development.

Mr. Hamukwaya further gave a brief presentation on Marine Aquaculture Developments in Namibia

KPM Team Leader, Ms. Ruth Nuujoma (EAP), the Chair and Presenter, gave a presentation on the environmental assessment being conducted for the coastal towns of Swakopmund, Lüderitz and Walvis Bay mariculture/aquaculture development.

She went to single out the town of Lüderitz as one of the identified coastal towns to implement the proposed marine aquaculture initiatives.

5. Background, Project Nature, and Its Objectives

The EAP took the participants through the background of the project:

She highlighted that the Ministry of Fisheries and Marine Resources (MFMR), with support from the Secretariat of the Benguela Current Convention, intends to develop marine aquaculture / Aquaculture Parks in Swakopmund, Walvis Bay and Lüderitz.

It was highlighted that the proponent, MFMR, has appointed KPM to conduct the three Sectoral / Site specific Environmental Impact Assessments (EIAs) and to propose generic Environmental Management Plans (EMPs) for the proposed Marine Aquaculture Zones in the above-mentioned towns and associated islands.

The EAP highlighted that the objective of this EIA study would be for MFMR to acquire (Sectoral) Environmental Clearance Certificates (ECCs) from the Ministry of Environment, Forestry and Tourism (MEFT), to enable marine aquaculture entrepreneurs to set up and operate the mariculture farms.

6. Why Sectoral EIAs (for Swakopmund, Walvis Bay and Lüderitz)?

The EAP highlighted that:

Instead of project-level-EIA, an EIA should take place in the context of regional and sectoral-level planning

Once sectoral-level development plans have the integrated sectoral environmental concerns addressed, the scope of project-level EIA will be quite narrow.

Sectoral EIA will help to address specific environmental problems that may be encountered in planning and implementing aquaparks projects in Swakopmund, Walvis Bay and Lüderitz.

Project Level EIA (Operators):

The EAP explained the project's nature and its objectives and the positive and negative impact the project may impose on the community and the environment and the mitigation measures that will be taken to minimize the negative impact and maximize the positive impacts.

The EAP also indicated possible negative impacts of the project and the measures that will need to be taken to minimize those impacts

7. Basic Approach to Mariculture, Problems and Development Strategies

The EAP discussed the environmental conditions in the sea and inland water areas and the type of structures that can be constructed in both areas for mariculture purposes in the town of Lüderitz.

Therefore, for the project to proceed, the Proponent will seek approval to put up mariculture farms in Lüderitz in the Atlantic Ocean to farm identified species.

Therefore, the EAP will prepare the EIA Report to comply with the Environmental Management Act No. 7 of 2007 and to follow the Environmental Impact Assessment (EIA) process in which the project feasibility of the proposed development will be evaluated.

The EAP highlighted that the main issues to be addressed by the EIA were to determine the feasibility and impacts that this development could have on the immediate environment.

are to be suspended to the ocean floor with buoys in an area occupying initially no more than 250ha.

It was noted that the open marine environment cages are suitable but for cage culture, both cheap materials for constructing cages and cheap fish feed must be developed.

Earth ponds are recommended for the inland brackish water areas (which is not the case with Lüderitz).

8. Regulatory Environment for Aquaculture in Namibia: Assessment of Government Interventions

Mr. Johannes Hamukwaya, Deputy Director Aquaculture: Ministry of Fisheries and Marine Resources took the participants through the Requirement for aquaculture licensing in Namibia, and the presentation was structured as follows: (see full presentation).

Company registration Regulation 2 (Annexure A) of Aquaculture (Licensing) Regulations: Aquaculture Act, 2002

Business Plan - Section 12 (3)(a),

Land ownership or consent Section 13 (1) (b) and/or (d), Approval - water use Section 13 (1) (b) and (d),

Public notice in local newspaper Section 12 (4),

EIA report - Section 12 (2),

EMP Section 12 (3)(a),

ECC Section 13 (1) (c),

Mr. Hamukwaya then took participants through the Requirement-export/import of live aquatic organisms, Aquaculture Act 18 of 2002 and its components, which are:

- Risk Assessment for import
- Registration as an exporter/importer of live aquatic organisms
- Health Certificate from exporting country
- Requirement for importing country (Higher)

9. Meeting Proceedings

The EAP opened the floor to the audience soon after the presentations, during which the following comments were discussed:

Participant 1: Why is the project concentrated on the Coastal Region of Namibia?

Detailed explanation was furnished by the Team as follows:

s coastlines are endowed with a range of environmental, economic, and aesthetic benefits which are unavailable inland. However, coastal towns that had relied heavily on the fishing and tourism sectors are currently hardest affected by the economic recession and are open to investors who wish to optimize

The social and economic impacts of this proposed development at Lüderitz have the potential to revive the current slump experienced in the fishing industry and its related business.

According to the Food and Agriculture Organization (FAO) of the United Nations (FAO, 2020), aquaculture is among the fastest-growing food sectors in the world,

The global demand for seafood is steadily increasing. Human population growth, rising per capita incomes, and urbanization are fueling a 6.9 - 9.9% increase in demand each year. Currently, traditional capture fisheries can only supply half the global seafood demand. The other half of the global seafood supply already comes from aquaculture. Since many fishing stocks are facing intense depletion demand for seafood can only be met by increasing aquaculture production (FAO, 2020). The Proponent is banking on the prediction that farm-raised identified species can contribute and help feed Namibians with high-quality protein.

Participant 2: Status of current fish stocks

The Team highlighted that:

The Benguela Current upwelling system off Lüderitz, near surface ocean is rich in plankton and due to intensive upwelling in this region has oxygen levels up to 5 +mg/L, which makes it an ideal environment to embark on this proposed development.

The direct benefits and related spin-offs of this initiative at this coastal town of Lüderitz by the Proponent include:

Quality finfish of high protein for the export market which will contribute to the GDP of Namibia.

Provision of job opportunities from both the skilled and unskilled labour force. Revival of small businesses related to the fishery sector that had stagnated over the past decade.

It was noted that Namibia possesses an extensive coastline and ocean area under its jurisdiction and boasts considerable concentrated economic activities in these areas such as mining, fishing, aquaculture, and tourism.

Participant 3: Project Sustainability

The Team emphasized that:

This development when managed effectively and considering potential impacts, can be operated sustainably.

It will be fundamental to good oceans management to maintain the health and
ility.

When compared to other industries the Carbon footprint of this proposed development will be negligible a resource that can be optimized sustainably.

Participant 4: Farm design and technology choice (Design innovation) the Fish cage selection

The Team emphasized that there are four different types of cages that are commonly used in open ocean fish culture such as fixed, floating, submersible, and submerged. The proposed development will operate on submersible cages to a
The submersible cages will be built with a rigid frame and can be moved up and down (via a hydraulic system) in the water column to take advantage of favorable water conditions. In rough weather conditions, this cage can be lowered to calmer water. The cages have a robust design with double barriers to prevent the escape of biomass and protection against predators

Moorings

The EAP also emphasized that the cages will be held together by a rope and chain grid matrix. The moorings will be specifically designed to meet the predicted meteorological, hydrological, and topographical conditions at the Proposed Development. The moorings system will be checked as part of the daily containment

checks, and at the end of each production cycle, trained personnel will conduct a full inspection of parts. As a standard operating procedure, staff will be trained on mooring check methodologies and the escapees.

Participant 5: Fish health and welfare

The EAP highlighted that the operators are expected to employ a dedicated team of biologists to be responsible for regular health checks, fish stocking, fish grading and biosecurity monitoring and management of their respective project activities. They are also expected to employ a Fish Veterinarian who will be responsible for veterinary services to always ensure a healthy fish with focus on disease prevention through efficient biosecurity controls and ongoing monitoring.

Participant 6: Predator control

The EAP underscored that The Environmental Management Plan (EMP) details the predation risk and the action taken to minimize the risk of related escapes of the proposed development. At least once per production cycle, this will be reviewed. The measures to be used in the Proposed Development include the selection and design of specific equipment, effective husbandry, and an ongoing assessment of local trends in wildlife. It is believed that seals and sea birds may be a potential predator to the site. Therefore, the site will be equipped with several methods to dissuade the seals and sea birds. Site staff will monitor the measures regularly to evaluate their effectiveness. A key part of the strategy to control predators is the following equipment.

Participant 7: Stakeholder Scoping for Statutory Consultees

The EAP / Team highlighted important and strategic meetings which have already been held with staff of MFMR in Windhoek (HQ), MEFT, BCC, Technical Committee, BCC, and other stakeholders.

Forward:

It was further noted that:

- An Environmental Clearance Certificate needs to be attached to each License application.

- Each license application to indicate exact coordinates of the onshore and offshore operation.

- To make use of the revised application form (new format and summary of conditions)

- The operators need to focus on the indigenous species; however, the Aquaculture Act of 2002 does make provision to farm with foreign species if all potential risks are being mitigated.

The Ministry welcomes this initiative which will be the 1st finfish cage culture in the Atlantic Ocean of Namibia.

Participant 8: the issuance of consent / support letter to start farming

The EAP emphasized that consent/support letters will only be issued once proof of an Environmental Clearance Certificate is issued by the EC office of MEFT. From here each operator will deduce his / her own EMP for his respective farm.

10. Way Forward:

To consult with Lüderitz Namport CEO and MFMR scientists based in Lüderitz on the possible impacts of this finfish cage culture (shipping lanes, bathymetry, cetacean migration routes and other sea mammals and birds).

To consult with the competent authority of MFMR for permission to conduct an aquaculture activity within the Marine Protected Area (MPA).

To arrange to meet with farmers/operators of the mariculture sector operating at Lüderitz (it was noted that during this visit, most operators had gone to attend another meeting in Windhoek).

To continue with ongoing consultations with the major stakeholders of MEFT, MFMR, MAWLR, NAMPORT, Lüderitz Town Council and the fishing industry.



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Marine Aquaculture (Mariculture) Development in Luderitz, //Karas Region

Environmental Impact Assessment

Public Meeting

Date: 16th August 2022

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