









Annex 1: Proposal Outline and Content

A. Applicant

Direction Générale de la Pêche et de l'Aquaculture					
Madagascar					
1960					
DPP: 14 - DDA: 08					
O4 (four)					
` '					
Development of Fishing's Collaborative Layout Plan: 03					
Villager's aquaculture Development Project: 01					
BP 1699Ampandrianomby, Antananarivo - MADAGASCAR					
Direction du Développement de la Pêche ;					
Direction d'Appui au Développement de l'Aquaculture					
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Local governance of fishing resources in ten villages from the					
Sofia Region, Madagascar: The case of the mangrove crab,					
Scylla serrata.					
Tilahy Désiré (Secrétaire Général du Ministère de					
l'Agriculture, de l'Elevage et de la Pêche)					
Etienne Bemanaja (Directeur Général de la Pêche et de					
l'Aquaculture)					
- Hantanirina Rasoamanajara (Directeur d'Appui au					
Développement de l'Aquaculture)					
- RATSIMANARISOA Njaka (Directeur du Développement de					
la Pêche)					
May 2004					
May 2021					
Newsymbol and 0000					
November 2022					
18 months					

B. Project Proposal Content

Background/	The fishery for the mangrove crab (Scylla serrata) is a purely
introduction	traditional fishing practice on which many fishing communities
	are completely dependent. Three main production areas for
	crabs have been identified as Boina region, Menabe region and

Sofia region (inthe mangrove swamp of Sahamalaza (around Maromandia). Fishing productivity is estimated at about 2.5 mT/km²/year (Ralison, 1987).

Two main factors impact on the sustainability of the crab fishery:

- 1- Madagascar's mangrove swamps are showing alarming signs of degradation with a net loss of 13% from 1995 to 2018. Mangrove coverage in Madagascar has decreased from 310,452 ha (1995) to 236,402 ha (2018) (WWF 2019, unpublished). Mangrove area of Sahamalaza, excluding Rafaralahy Bay (5,900ha), is about 10,200 ha.
- 2- The high international demand for mud crab has increased pressure on the stock. 75% of products are exported. Even with increased market demand, production has decreased in Sofia region in recent years as illustrated in the table below:

2017	2018	2019
223,86 t	216,96 t	167,10 t

Source: SRPA Sofia, 2020

It is also apparent that under-sized individuals are sometimes harvested which are below the minimum size as required by regulation in order to ensure crab stock renewal, leading to a decrease in exploitable biomass. Only exported products are controlled and illegal products are marketed locally, due to the lack of application of the regulations.

Human population growth without the option of alternative livelihoods has led to an increase in pressure on mangroves and their resources over time. Without any concrete management actions linked to the creation of alternative income generating activities, and proper empowerment of communities in resource management, this sector may disappear entirely, causing significant ecological and economic losses.

Project rationale: relevance and linkage to the project principal goal as well as national priorities

This demonstration project has two main purposes:

- 1- Arustic crab housing system is introduced to reduce pressure due to the intensification of fishing effort. Recovering postharvest loss of up to 22% to 50% (Kasprzyk, 2012) would proportionally reduce the fishing effort for a given income.
- 2- A co-management approach of the small-scale fishery and supporting ecosystems is established for better adoption of management measures in order to ensure stock sustainability.

The combination of these two goals will allow learning from good practices that can be implemented in other marine and coastal ecosystems. Further: The criteria for effective community engagement in fisheries management and ecosystem preservation will be identified through this project; and Policies and/or strategies for rural aquaculture in general and the fattening of crabs in particular will be strengthened during the implementation of the project. In this way, the project will attempt to contribute to the following issues of national concern: local issues in terms of livelihoods sustainability of fishing i. communities which are among the most vulnerable groups due to their high degree of dependence on natural resources; ii. development of a national policy for the protection of critical habitats recognizing their importance for the provision of ecosystem services such as carbon capture, nurseries for many marine fauna species, coast protection, and climate change regulation; iii. contribute to Madagascar's blue policy where aquaculture is considered as a promising sector due to its contribution as a source of foreign currency (through the exports of farmed shrimp, seaweed and crabs) as well as for its participation in improving the income of fish farmers; Contribute to the achievement of SDG 14, considering iv. fishing and aquaculture as an opportunity to reduce hunger, improve nutrition, decrease poverty, stimulate economic growth as well as to ensure better use of natural resources. Design principles and The three guiding principles of an ecosystem approach to strategic fisheries and aquaculture are mobilized and tested in this considerations demonstration project: i. The participative/inclusive approach for better management performance The conciliation of socio-economic targets vs ecological goals ii. iii. Institutionalization of local management regulations. Project Objective. Objective: The sustainable and rational management of Outcomes and mangrove crab exploitation in the Sofia Region of Madagascar Outputs/activities is established. R1: Local management of the marine ecosystem is enhanced to ensure sustainable fisheries.

1.1- Ten locally managed fishing areas supported by local management plans are institutionalized

- Professionalize small-scale fishing (by the formalization of fishermen's associations, the dispensation of fishermen's card and the canoes' registration)
- Elaborate an appropriate management tool (*dina*)
- Support communities in the implementation of management measures, as stipulated in the local fisheries management plan
- Establish and strengthen a community-based permanent monitoring-control of fisheries
- Establish and strengthen community-based monitoring of catches and ecology

R2- Community livelihoods are improved to reduce their vulnerability

2.1- Crab holding system, an alternative source of income and nutrition (to direct fishing) is developed

- Set up a group of village farmers
- Build village-scale holding ponds
- Train village farmers regarding the appropriate holding techniques
- Popularize the crab holding techniques in the Sofia region

R3: Test and disseminate best practices for an ecosystem approach of fisheries and aquaculture management

3.1- A participatory monitoring-evaluation system is implemented and operational

- Established a local monitoring-evaluation committee
- Identify in a participatory way of monitoring indicators of the project's impacts
- Set up and operationalize mechanism for the systematic dissemination of the participatory monitoring-evaluation results

3.2- The demonstration site results will be disseminated

- Organize a national / regional workshop to capitalize on the achievements of the project
- Draw up a management guide for village crab holding farms

Key indicators, risks and assumptions

The main indicators of project success are the following:

Objective	Indicators
OBJ:	A decrease of fisheries and
The sustainable and rational	mangrove user
management of mangrove	infringements (expressed
crab exploitation in the Sofia	in % compared to the
Region is established.	situation before the project)
R1: Local management of	Community participation in
the marine ecosystem is	natural resources
enhanced to contribute to a	management (decision-
sustainable fishery.	making bodies, community
	control and surveillance)
R2- Communities' livelihoods	Increased income of village
are improved to reduce their	farmers (expressed in %
vulnerability	compared to the situation
	before the project)
R3: Test and disseminate	An ecosystem-based
best practices for an	management model is
ecosystem approach of	developed and validated
fisheries and aquaculture	
management	

The major hypothesis in the execution of the project is:

"The crab holding facilities are financially cost-effective". Previously, a very high post-capture mortality was observed, from 22% to 50% (Kasprzyk, 2012), as well as a growth rate by weight of crabs in housing (18.1%) during 15 days with an appropriate diet (Rakotonirina Dina, 2015). The holding facilities and techniques used in this demonstration facility should try to overcome the high mortality challenges encountered previously as well as improve fattening techniques and growth rates.

Recovering post-harvest loss would proportionally reduce the fishing effort for a given income. The application of regulations will be reinforced by the implementation of local fisheries management plans (minimum catch size, closure period, overall volume of authorized catch). This will ensure the renewal of natural stocks without prejudice to the income of fishermen.

The risks during the implementation of the project are:

	 Social conflict generated by the community monitoring and control of fisheries the short duration of the project for a satisfactory institutional anchoring
Cost-effectiveness	 Effective co-management of natural resources reduces management costs, and, in a context of limited capacity of the State to enforce regulations, co-management improves management performance Effective Crab fattening facilities increase the commercial value of fishery products and access to the international market
Sustainability	The sustainability of the project depends on the institutional anchoring of the system put in place to perfect the comanagement of fisheries: the "fisheries managers" Associations and the community Monitoring-Control Committees. After the completion of the demonstration project, sustainability conditions are implemented, in particular on:
	 i. Institutionalization of community structures guaranteeing the effectiveness of co-management. ii. Improvement of the value chain of the sector (marketing circuit).
Replicability	From a procedures guide of the implementation of an ecosystem-based approach, the project can be developed in other potential areas.
Project Results Framework	Project results framework (see Annex)
Detailed Budget and Annual Work Plan	Detailed budget and annual work plan (see Annex)
Management Arrangements	 Marine administration (central/regional) Forest Administration (central/regional) Focal point of Nairobi Convention Focal Point SAPPHIRE » Decentralized territorial communities Basic community Madagascar National Parks (for the management of the protected area of Sahamalaza) Land use planning and public works
Monitoring and	A Participatory Monitoring - Evaluation system of the project will
Evaluation Framework	be set up, which is an integral part of the local fisheries

management plan. The system gives a key place to local actors from the identification of indicators to the collection of data and the interpretation of the results.

- 1- Formalization of a Local Monitoring-Evaluation Committee
- 2- Participatory development of the project's implementation model
- 3- Identification of the progress indicators and the perceptible impacts of undertaken actions over the Project horizon
- 4- Establishment of the data collection system of indicators to set up the monitoring-evaluation framework

The indicators on the achievement of the project impacts will relate to improving performance of the mode of governance initiated: reduction of infringements and offenses on fisheries and ecosystems.

Stakeholder Involvement Plan

The involvement of stakeholders will be specified in the local fisheries management plan. It will jointly define the roles of the State and the communities in the management of fishery resources. A part of the sovereign responsibility for fisheries/aquaculture management will be transferred to local communities.

The main steps to generate community participation are the following:

- Sensitization of communities on the challenges of economic development vs ecosystem integrity, support of their livelihoods
- 2- Suggestion by the State of strategic orientations for ecosystem-based management
- 3- Operational planning of participatory implementation (supported by MAEP¹)
- 4- Organizational support for MAEP
- 5- Technical training
- 6- Activities initiation

The stakeholders' contributions will be the following:

1- State:

- Land allocation for the construction of holding facilities
- Technicians allocation
- Expertise transfer
- Supports for project beneficiaries
- Provides offices for the Project Management Unit
- Provides vehicles

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¹Ministry of Agriculture, Livestock and Fisheries

Compliance with UN Safeguards	2- Beneficiaries (local community): - Labour for the construction of the holding facilities - Fishing boats - Fishing equipment Compliance with conditionalities in terms of social and environmental protection
Exit strategy	The project continuity strategy after the funding of the SAPPHIRE programme is based on the two points below: 1- The strengthening of the organizational and institutional capacities of these community structures to become self-organized 2- The MAEP will continue, by its sovereign function, to monitor the institutions and structures in place
Legal Context	 The legal context governing the implementation of the project is described by: Law 2015-053 of February 03, 2016 regarding Fisheries and Aquaculture Code and the decree relating to the management transfer of halieutic resources Decree No. 2016-1492 of 06 December 2016 on the general reorganization of maritime fishing activities Decree No. 2016-1493 of 06 December 2016 regulating aquaculture activities Order n ° 27786/2017 of 09 November 2017 setting the required criteria for mangrove crab aquaculture in Madagascar. Order n ° 32 102/14 of 24/10/2014 setting the conditions for the storage of crabs in the holding facilities. Order regarding the establishment of the Integrated Mangrove Management Committee

C. Proposed Budget

Requested Fund	USD80,000
Fund from other	USD 54.000 GOVERNEMENT IN KIND
sources including own	
contribution	
Total project budget	USD134,000

D. Organizational Background and Capacity to implement the Proposed Project

Nature of the proposing institution: Government institution

The fisheries development administration has existed since Madagascar's independence in 1960. Until 1996, it had been incorporated within a "large" ministry responsible for rural development. From 1996, the fisheries administration became an independent ministerial department and remained as such for 23 years. In 2020, the fishing sector was reintegrated again into the Ministry of Agriculture, Livestock and Fisheries.

<u>Objective and main activities of the institution</u>: The executive management of Fisheries and Aquaculture (Direction Générale de la Pêche et de l'Aquaculture DGPA) is responsible for designing, orienting and planning the Ministry's policy regarding fisheries, aquaculture, and ocean governance.

The organizational approach in the execution of the project is articulated around two technical departments within the DGPA:

- The Aquaculture Development Support Department (Direction d'appui au Développement de l'Aquaculture DDA) responsible for implementing aquaculture development strategies taking into account extensive, semi-intensive and intensive production systems as well as village and industrial approaches, and the promotion of techniques and innovations. The DDA comprises three services, one of which deals specifically with the development of inland water andmarine Aquaculture.
- The Department of Fisheries Development (Direction de Développement de la PêcheDDP) which is responsible of the implementation of development strategies for small-scale, artisanal and industrial fisheries, taking into account the imperative need to preserve the stocks of fishery resources exploited as well as the marine and coastal environment. The DDP includes four (04) services, one of which is specifically concerned with the development of small-scale fishing among others.

Project management experiences of the fisheries administration for the last recent years are listed below:

- Development and implementation of the co-management in the establishment of APGL, and elaboration of the Concerted Fisheries Layout Plans
- Professionalization of the work of small fishermen
- Village approach to holothuriculture and seaweed culture with private operators and research institutions

The target population group of the current proposal includes:

- Ten villages in the rural community of Maromandia, Sofia region.
- 174 fishermen including 33 women (Enquête Cadre National, MRHP, 2012)

E. Proposed Methodology and Approach to implement the Project

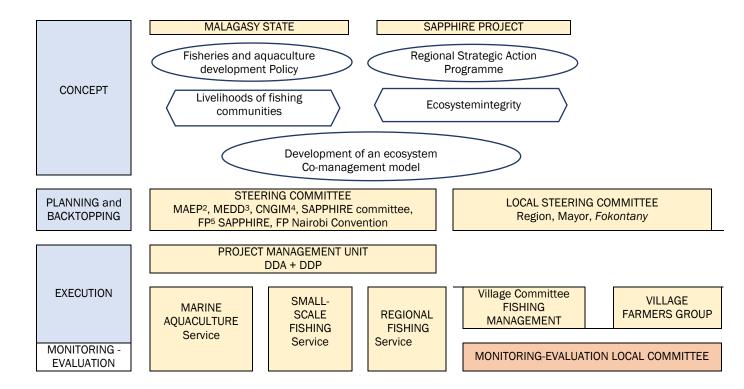
The approach consists of the empowerment of independent community structures who will be able to fulfill their function in the implementation of genuine co-management of natural resources.

- i. The Fisheries Management Committee representing the fishermen communities to which will be delegated part of the sovereign mandate of the State: the planning of Fisheries management, the fisheries monitoring and control and ecological monitoring
- ii. Farmer-village groups who will be entrusted with the management of their own economic activities

The main steps for the empowerment of village structures and hence the process of involving fishing communities are:

- **1- Legitimization:** Awareness of their need for a better appropriation
- 2- Legalization: Institutionalization of village structures
- 3- **Capacity building:** Training about the exercise of their mission (fishing management, crab culture)
- 4- **Systematic support:** Monitoring and supervision by the State in the exercise of their function.

For Project Management, the organizational structure is designed as below:



- The conceptualization of the project is based on the relevance of an eco-systemic comanagement model development. Indeed, the call for proposals issued by the SAPPHIRE Project, outlining the regional Strategic Action Programme, coincides with the Malagasy State priorities as expressed in its Fisheries and Aquaculture Development Policy.
- Project planning and supervision are carried out at central and then local levels of Steering Committees.
- The project execution is entrusted to the Project Management Unit at the Fisheries Administration level, and the village structures once in place
- Monitoring and evaluation mainly involves the local Monitoring Evaluation Committee, supported by the executive services within the Fisheries Administration.

²Ministry of Agriculture, Livestock and Fisheries

³Ministry of the Environment and Sustainable Development

⁴National Committee for Integrated Mangrove Management

⁵Focal Point

F. Staff capacity and suitability for the project implementation:

The DGPA will provide the following expertise for the execution of the project:

- An agronomy engineer specialized in project management
- A food sciences engineer specialized in aquaculture
- Two halieutic engineers / hydro-biologist
- Anoceanographer/biologist

Annex 2. Project Logical Framework

Project Goal/ principal Objective	The sustainable and rational management of mangrove crab exploitation is established in 10 fishing villages in the Sofia Region						
Outcome1.	Local management of marine ecosystem is improved for the sustainability of the fishery						
Output 1.1	Ten (10) locally managed fishing areas, supported by local management plans are institutionalized						
Activity 1.1.1	Professionalize small-scale fishing (by the formalization of fishermen's associations, the dispensation of fishermen's card and canoe registration)						
Activity 1.1.2	Elaborate an appropriate management tool (<i>dina</i>)						
Activity 1.1.3	Support communities in the implementation of management measures, as stipulated in the local fisheries management plan						
Activity 1.1.4	Establish and strengthen a permanent system of community monitoring- control of fisheries						
Activity 1.1.5	Establish and strengthen community monitoring of the catches and ecology						
Outcome 2	Communities' livelihoods are improved to reduce their vulnerability and increase their food security						
Output 2.1	The crab housing system, an alternative source of income and nutrition (to direct fishing) is developed						
Activity 2.1.1	Set up a group of village farmers						
Activity 2.1.2	Build village-scale holding system						
Activity 2.1.3	Train the village farmers regarding the appropriate holding and fattening techniques						
Activity 2.1.4	Popularize the crab grow-out and housing techniques in the Sofia region						
Outcome 3.	Capitalize and disseminate the best practices for an ecosystem approach of fisheries and aquaculture management						
Output 3.1	A participatory monitoring-evaluation system is implemented and operational						
Activity 3.1.1	Established a local monitoring-evaluation committee						
Activity 3.1.2	Identify in a participatory way the monitoring indicators of the project's impacts						
Activity 3.1.3	Set up and operationalize mechanism for the systematic dissemination of the participatory monitoring-evaluation results						
Output 3.2	The demonstration site results will be disseminated and capitalized						
Activity 3.2.1	Organize a national / regional workshop to capitalize on the achievements of the project						
Activity 3.2.2	Draw up a management guide for village-level crab fattening farms						
	Indicators						

Project Objective	A decrease of fisheries and mangrove use infringements (expressed in % compared to the situation before the project). - 10 local management plans developed - 174 fishermen involved				
Outcome 1	Increased community participation in natural resources management (decision-making bodies, community control and surveillance)				
Outcome 2	Increased income of village farmers (expressed in % compared to the situation before the project)				
Outcome 3	An ecosystem-based management model is developed and validated				

Annex 3. Annual Work Plan (AWP) Format







Annual Work Plan

Institution	DGPA / MAEP			
Country	Madagascar			
Project Title Local governance of fishing resources in ten villages from the Sofia Region Madagascar: The case of the mangrove crab, Scylla serrata.				
Project Brief Description				
Outcome 1:	Local management of marine ecosystems is improved for the sustainability of the fishery			
Outcome 2:	Communities' livelihoods are improved to reduce their vulnerability and increase their food security			
Outcome 3:	An ecosystem-based management model is developed and validated			

Project	18months	Total resources	USD134, 000
Period		required	
Start date	May 2021	Total allocated resources	
		NCS/UNEP	USD 80, 000
		 Institution 	
		GOVERNEMENT IN -KIND	USD 54,000
		Other	
End Date	November 2022		

Agreed by Institution : Direction Générale de la Pêche et de l'Aquaculture

Agreed by National Focal Institution (Point)

Agreed by Nairobi Convention Secretariat/UN Environment Programme:

WORK PLAN

Expected		Planned Activities	ctivities Budget						Responsib	Fund	
Project			Q1	Q2	Q3	Q4	Q5	Q6	Total	le Party	Source
Outcome											
Outcome1.	Output	Ten (10) locally managed f	ishing are	as, suppor	ted by loca	al			20000	DDP	
Local	1.1	management plans are ins	titutionali	zed							
management											
of marine	Activity	Professionalize small-	2250	2250					4500		NCS
ecosystems is	1.1.1	scale fishing (by the									
improved for		formalization of									
the		fishermen's associations,									
sustainability of		the dispensation of									
the fishery		fishermen's cards and									
		canoe registration)									
Indicator:	Activity	Elaborate an appropriate	750	750					1500		NCS
Community	1.1.2	management tool (dina)									
participation in		, ,									
natural	Activity	Support communities in		1000	800	500	500		2800		NCS
resources	1.1.3	the implementation of									
management		management measures,									
(decision-		as stipulated in the local									
making bodies,		fisheries management									
community		plan									
control and	Activity	Establish and strengthen	1000	1000	1000	1000	700		4700		NCS
surveillance)	1.1.4	permanent community									
		monitoring-control									
Base line: 0%		arrangements for									
Target: 80%		fisheries									
	Activity	Establish and strengthen	1000	1000	1000	1000	1000	1000	6500		NCS
	1.1.5	community monitoring of									
		the catches and the									
		ecology									

Outcome 2 Communities' livelihoods are	Output 2.1	Crab housing system, an a nutrition (to direct fishing)			ncome and	d			40000	DDA	
improved to reduce their vulnerability	Activity 2.2.1	Set up a group of 10 village farmers	1500	1500	1000				4000		NCS
(increase food security)	Activity 2.2.2	Build 10 village-scale holding and fattening facilities	11600	8700	8700	0			29000		NCS
Indicator: Increased income of village farmers	Activity 2.2.3	Train the village farmers regarding the appropriate stabling techniques	1200	900	900	0			3000		NCS
(expressed in % compared to the situation before the project) Base line: 0 Target: 15%	Activity 2.2.4	Popularize the crab grow- out and housing techniques in the Sofia region (study trips to pilot sites)			1000	1000	1000	1000	4000		NCS
Outcome 3. Capitalize and disseminate	Output 3.1	A participatory monitoring-operational	evaluation	system is	implemen	ted and			4800	DDP	
the best practices for an ecosystem	Activity 3.1.1	Established a local monitoring-evaluation committee	500	300	300	200	200	100	1600		NCS
approach of fisheries and aquaculture management	Activity 3.1.2	Identify in a participatory way the monitoring indicators of the project's impacts	500	300	300	200	200	100	1600		NCS

Indicato: An ecosystembased management model is developed and validated	Activity 3.1.3	Set up and operationalize mechanism for a systematic dissemination of the participatory monitoring-evaluation results	500	300	300	200	200	100	1600		NCS
Base line :0 Target: 1	Output 3.2	The demonstration site res capitalized	sults will b	e dissemir	nated and				7200		
		Launching workshop	3 200						3200		
	Activity 3.2.1	Organize a national / regional workshop to capitalize on the achievements of the project						2000	2000		
	Activity 3.2.2	Draw up a management guide for village crab housing farms						2000	2000		
					CTIVITIES	USD				NCS/UNEF	
	PROJECT MANAGEMENT FEES									NCS/UNEF	
	\$	SALARY, VEHICLE, OFFIC	E, RESO			USD			54.000	GVT in kind	
				TOTAL	PROJECT	USD			134.000		

Achèvement calendar

Expected Project Outcome		Planned Activities	CALENDAR						
Expected i Toject Outcome			Q1	Q2	Q3	Q4	Q5	Q6	
	Output 1.1	Ten (10) locally managed fishing areas, supported by institutionalized	/ local n	nanager	ment pla	ans are			
Outcome1.Local management of marine ecosystems is improved for the	Activity 1.1.1	Professionalize small-scale fishing (by the formalization of fishermen's associations, the dispensation of fishermen's cards and canoe registration)							
sustainability of the fishery Indicator: Community participation in natural	Activity 1.1.2	Elaborate an appropriate management tool (dina)					4 Q5 are		
resources management (decision-making bodies, community control and surveillance) Base line: 0%	Activity 1.1.3	Support communities in the implementation of management measures, as stipulated in the local fisheries management plan							
Target: 80%	Activity 1.1.4	Establish and strengthen permanent community monitoring-control arrangements for fisheries							
	Activity 1.1.5	Establish and strengthen community monitoring of the catches and the ecology	ring of						
Outcome 2 Communities' livelihoods are improved to	Output 2.1	Crab housing system, an alternative source of incom developed	ne and r	nutrition	(to dire	ect fishin	ıg) is		
reduce their vulnerability (increase food security)	Activity 2.2.1	Set up a group of 10 village farmers							
Indicator:	Activity 2.2.2	Build village-scale holding and fattening facilities							

Increased income of village farmers (expressed in % compared to the situation before the project)	Activity 2.2.3	Train the village farmers regarding the appropriate stabling techniques			
Base line: 0 Target: 15%	Activity 2.2.4	Popularize the crab grow-out and housing techniques in the Sofia region			
	Output 3.1	A participatory monitoring-evaluation system is implemented and operational			
Outcome 3.	Activity 3.1.1	Established a local monitoring-evaluation committee			
Capitalize and disseminate the best practices for an ecosystem approach of fisheries and aquaculture management	Activity 3.1.2	Identify in a participatory way the monitoring indicators of the project's impacts			
Indicator: An ecosystem-based management model is	Activity 3.1.3	Set up and operationalize mechanism for a systematic dissemination of the participatory monitoring-evaluation results			
developed and validated	Output 3.2	The demonstration site results will be disseminated and capitalized			
Base line:0		Launching workshop			
Target: 1	Activity 3.2.1	Organize a national / regional workshop to capitalize on the achievements of the project			
	Activity 3.2.2	Draw up a management guide for village crab housing farms			

Annex: Key Personal CVs

RASOAMANANJARA Hantanirina

Directeur d'Appui au Développement de l'Aquaculture

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Expériences professionnelles

Directeur d'Appui au Développement de l'Aquaculture jusqu'à ce jour (2019 à ce jour) Enseignante à l'Institut Supérieur Privé de L'Agronomie (ISPAG) pisciculture (2011 à ce jour)

- 2019 : Chef du Service Régional de la Pêche et de l'Aquaculture Analamanga
- 2017-2018 : Directeur Régional des Ressources Halieutiques et de la Pêche Analamanga
- 2012-2017 : Chef du Projet « Développement de la Pêche Continentale »
- <u>2009-2016</u> : Chef du Service de la Pêche Continentale
- <u>2011</u>: Conseiller technique/ MRHP
- 2005-2008 : Chef de la Division de l'Aquaculture en Eau douce et de la Pêche Continentale
- <u>2002-2003</u> : Inspecteur auprès du Secrétariat d'Etat de la Pêche et des Ressources Halieutiques
- <u>1996-2002</u> : Inspecteur auprès du Ministère de la Pêche et des Ressources Halieutiques (MPRH)

Formations

Diplômes

- Diplôme d'Etudes Spécialisées (D.E.S) en Aquaculture; 2004; Université de Liège,
 Belgique
- Gestion Publique; 2000 ; Institut des Affaires Publiques, Département du Centre Universitaire de Charleroi CUNIC, Belgique

• Ingénieur Technologue; 1993 ; Institut Technologique de l'Industrie Alimentaire de Kiev, Ukraine

Certificats

- Formation en Algoculture et Holothuriculture; 2020; Institut Halieutique des Sciences Marines , Toliara
- Formation enalgoculture; 2019; Asian Institute of Technology, Thailand
- Développement de la pisciculture; 2019; The Egyptian International Center for Agricultural, Cairo, Egypt
- Formation en pêche; 2017; Université de Montpellier, France
- Pêches Maritimes et gestion globale des zones côtières; 2014; Fujian Institute of Oceanography, Xiamen, République Populaire de la Chine
- Développement de la pisciculture; 2010; The Egyptian International Center for Agricultural (EICA), Cairo, Egypt
- Promotion et Valorisation des Produits de la Pêche, Marketing et Etudes de Marché;
 2008; Centre de Qualification de la Pêche Maritime de Larache, Royaume du Maroc

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Expériences professionnelles

Directeur du Développement de la Pêche (Sept 2020 à ce jour)

Personne de contact de la Commission des Thons de l'Océan Indien (CTOI) pour les questions techniques relatives à la pêche aux thons (2010 à ce jour)

- 2010 Sept 2020 : Chef du Service de la Gestion de la Pêche Thonière, Direction de la Pêche – Ministère des Ressources Halieutiques et de la Pêche
- <u>2014 2016</u>: Point Focal du Deuxième Projet de gouvernance des pêches et de croissance partagée du sud-ouest de l'Océan Indien (SWIOFish2) Madagascar, financement IDA, FEM et PHRD.
- <u>2008 Mai 2011</u>: Coordinateur National de la Composante "Data gap analysis and information technology" South West Indian Ocean Fishery Project (SWIOFP)
- <u>2008 2010</u> : Chef du Service Pêche Maritime Direction de la Pêche Ministère de la Pêche et des Ressources Halieutiques
- 2007 2008: Responsable de la Pêche Industrielle Service Promotion de la Pêche Ministère de l'Agriculture, de l'Elevage et de la Pêche
- 2006 2007 : Responsable de la Pêche Traditionnelle Service Promotion de la Pêche Ministère de l'Agriculture, de l'Elevage et de la Pêche
- <u>2003 2005</u> : Chef de ferme à la Société AQUABIO, Namakia
- <u>2002 2003</u>: Consultant permanent du Bureau de Consultation pour la Pêche et l'Aquaculture BCPA en charge des études sociales et économiques
- 2001 : Biologiste à la société AQUAMAS, Soalala

Formations

<u>Diplômes</u>

- Master of Business Administration (MBA), Option: gestion d'entreprises; 2013; INSCAE Antananarivo
- Diplôme d'Ingéniorat en Agronomie; 2001; Ecole Supérieure des Sciences Agronomiques, Université d'Antananarivo

Certificats

- Négociation internationale des accords de pêche; 2018; Université de Montpellier -France
- Certificat de fin de formation sur le « Leadership Training Courses on FisheriesManagement; 2013 ; Faculté des Pêches, Université de Kagoshima Japon
- Oceanographic and biological training program; 2008; Cape Town Afrique du Sud
- Planning of Fisheries Community Development; 2007; Yokohama Japon
- Institutional Development and Organizational Strengthening; 2007; Yokohama Japon
- Projet Cycle Management (Participatory planning); 2007; Yokohama Japon

MIARINIRINA Anjara

Point focal « Pêche » dans la Cellule d'Appui à la Mise en Œuvre des Projets - Direction de Développement de la Pêche
Ministère de l'Agriculture, de l'Élevage et de la Pêche, Madagascar

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Expériences professionnelles

Point focal « Pêche » dans la Cellule d'Appui à la Mise en Œuvre des Projets - Direction de Développement de la Pêche (2020 à ce jour)

Enseignante vacataire à l'Institut Supérieur en Sciences, Environnement et Développement Durable, Université de Toamasina

Présidente d'honneur du Réseau National des Femmes de la Pêche à Madagascar RENAFEP-MADA

- 2019 2020: Chef de Service Régional de la Pêche et Aquaculture Atsinanana
- <u>2018 -2019</u> : Directeur régional des Ressources Halieutiques et de la Pêche de la Région Menabe
- 2016 2018 : Directeur Régional des Ressources Halieutiques et de la Pêche de la Région Atsinanana
- 2015-2016 : Chargée d'étude à la Direction de l'Aquaculture
- <u>2014-2015</u>: Chargée d'étude à l'Office National pour l'Environnement (ONE) sur le suivi des Plans de Gestion Environnementale des fermes aquacoles, cas OSO Farming LGA
- <u>2012</u> : Consultante auprès de l'ISSEDD sur la pêche traditionnelle dans la région Atsinanana

Formations

<u>Diplômes</u>

- Ingénieur Halieute, option Aquaculture ;2015 ;Institut Halieutique et Sciences Marines (IH.SM) Tuléar
- Master 2 en Gestion des Ressources Naturelles et Environnement, option Pêche ; 2013; ISSED, l'Université de Toamasina
- Licence en Gestion des Ressources Naturelles et Environnement ; 2011 ;ISSED, Université de Toamasina

Certificats

- Executive Public Management, INSCAE [en cours]
- Formation des femmes en traitement, conservation et Hygiène dans la manipulation des produits halieutiques, Dakar, Sénégal [2016]

HERINARIVOMendrikaFandresena

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Expériences professionnelles

Agent au sein du Service Aquaculture Marine et Continental de la Direction de l'Aquaculture (2017 à ce jour)

Chargé de cours d'Aquaculture ; Institut Supérieur Protestant Paul Minault (IPPM) (2017 à ce jour)

Membre du Comité Interministériel de gestion des Ressources Génétiques.

Membre du Comité Nationale de la Formation Agricole et Rurale Secteur Halieutique

- <u>2016 2017</u> : Responsable de la Circonscription des Ressources Halieutiques et de la Pêche, Atsimo-Atsinanana
- <u>2011</u>: Gestion de Crise Pathologique et Conducteur de Pêche, Ferme; UNIMA, Aquaculture de la Mahajamba, Mahajanga
- <u>2005-2010</u>: Responsable de production de Microalgue Entreprise: ANTENNA TECHNOLOGIE SPIRUSUD, Toliara
- <u>2003-2004</u> :Technicien de Grossissement en Crevetticulture Entreprise : AQUAMAS Sa., Soalala Mahajanga

Formations

<u>Diplômes</u>

- **Diplôme d'Ingénieur Halieute** (OptionAquaculture) ; 2015 ; Institut Halieutique Et Des Sciences Marines -Toliara
- Aptitude à l'Etude Approfondie en Sciences Marines Océanographie Appliquée;
 2008; Institut Halieutique et des Sciences Marines -Toliara
- **Diplôme de MaîtrisedesSciencesetTechniquesdelaMeretduLittoral** (Aquaculture-Pêche); 2008; Institut Halieutique et des Sciences Marines -Toliara
- **Diplôme Professionnel Universitaire/MeretLittoral** (OptionAquaculture) ; 2003 ; Institut Halieutique et des Sciences Marines -Toliara

Certificats

- Marine and Inland-water Aquaculture (Diseases); Banyuwangi, East Java, INDONESIA
- Bio-aquatic resources Management (water physicochemical); Ambon-Maluku, INDONESIA

Annex 4: Technical Evaluation Criteria

Evaluation forms for technical proposals are presented below. The obtainable number of points specified for each evaluation criterion indicates the relative significance or weight of the item in the overall evaluation process.

The Technical Proposal Evaluation Forms are: FormA: Expertise of Organization Submitting Proposal; FormB: Proposed Work Plan and Approach; FormC: Personnel.

Summary of Technical Proposal Evaluation Forms		Score Weight	Obtai nable Points	Company / Other Entity							
			1 011163	Α	В	С	D	E			
1	Expertise and Experience of the institution submitting project Proposal	25%	25								
2	Quality of the project proposal, understanding of the scope of work, knowledge of the West Indian Ocean region countries& proposed work plan and approach	55%	55								
3	Qualification of personnel and suitability to implement the project	20%	20								
	Total		100								

Note: The score weights and points obtainable in the evaluation sheet are tentative and may be changed depending on the need or major attributes of technical proposal.

Summary of Technical Proposal Evaluation Forms Re Wei ght			Sco	Poi	Ар	plica	nts		
A. Form 1 Expertise and experience of the organization submitting Proposal 1. Reputation of the organization; national and local (community levelimportance) 2. Experience in implementing similar projects in the Western Indian Ocean region countries 3. Track record of working with Western Indian Ocean region countries local community and governments 4. Ability of organization to deliver task in line with time plan (Reliability) 5. Geographical knowledge of the Western Indian Ocean region; political, socio-economic, ecological landscapes and ecosystems Percentage Percentage Percentage Proposal 7. Adequacy of the proposal to achieving the objectives of the project (realistic and efficient) 8. Proposed Work Plan (sequence of activities and planning) 9. Cost effectiveness and value for money 10. Quality Assurance procedures Percentage C Form 3 Quality of personnel and suitability for the assignment. Experts(s) 11. Key experts' knowledge of natural resources management, sustainable fisheries and land management and experience in handling similar assignments 12. Educational qualification, proven coordination, planning and design of developmental projects and programmes (Curriculum Vitae all key personnel must be provided) Percentage Percentage 20 20 20 20 20 20	Sum	mary of Technical Proposal Evaluation Forms		nts	Α	В	С	D	Ε
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