

Appendix 5: List of projects and services

Fisheries Research

Project/services	Objective(s)	Main activities
Coastal fishery	<ul style="list-style-type: none"> ◆ Maintain and update records of fishery statistics for estimation of fish landings 	<ul style="list-style-type: none"> ◆ Prepare sample survey programme ◆ Collect and analyse data on coastal fish landings ◆ Perform checks on landing stations
Bank fishery	<ul style="list-style-type: none"> ◆ Maintain and update records of data on offshore demersal fishery for estimation of yields and for provision of advice on their management 	<ul style="list-style-type: none"> ◆ Collect, process and analyse log book data ◆ Monitoring of fishing licences, quotas and fish landings ◆ Establish fishing quota ◆ Advise fishing operators ◆ Keep register of demersal fishing vessels
Ecotoxicology	<ul style="list-style-type: none"> ◆ Monitor toxic fish and harmful microalgae 	<ul style="list-style-type: none"> ◆ Bioassay tests with mouse ◆ Collection of microalgal samples ◆ Microscopic examination of microalgae
St. Brandon inshore fishery and semi-industrial chilled fish fishery	<ul style="list-style-type: none"> ◆ Determine growth parameters estimates for fish at St. Brandon, Albatross, Soudan, Hawkins and small northern banks ◆ Analyse data for fishery management 	<ul style="list-style-type: none"> ◆ Effect sampling programmes for length/weight frequency data analysis ◆ Collect, verify, analyse and compile data from log books ◆ Catch data entry, effort, fishing positions, species, fishing days and estimates of catch per fisherman day
Stock Assessment and Fisheries Management of the St. Brandon plateau and Associated Banks Fisheries (TCP/MAR 3001)	<ul style="list-style-type: none"> ◆ To develop management measures for St. Brandon and related demersal fisheries ◆ Strengthen national capabilities in stock assessment practices and procedures used to determine total allowable catch and adequacy of fisheries-related data and provision of data 	<ul style="list-style-type: none"> ◆ Collection of catch, effort, length/weight data from vessels in port ◆ Conduct surveys on fish handlings quality and marketing ◆ Carry out acoustic survey to assess the untapped deep-water resources at St. Brandon ◆ Process and analyse data for estimation of potential yields
Seacucumber fishery	<ul style="list-style-type: none"> ◆ To assess the stock of seacucumber in the lagoon for its sustainable exploitation ◆ To monitor the fishing activities related to the collection of seacucumbers 	<ul style="list-style-type: none"> ◆ Collect data on catch and effort ◆ Carry out regular surveys at selected sites in the lagoon

South West Indian Ocean Fisheries Project	<ul style="list-style-type: none"> ◆ To identify and assess fish stocks in the EEZ of the coastal states in the South West Indian Ocean region 	<ul style="list-style-type: none"> ◆ Setting up of a database on fishing resources in the region ◆ Carry out acoustic survey
---	---	--

Marine Science

Project/services	Objective(s)	Main activities
Coastal Ecosystem Research	<ul style="list-style-type: none"> ◆ Long-term monitoring of the coastal ecosystem at selected sites 	<ul style="list-style-type: none"> ◆ Collect data on substrate cover (coral, seagrass, algae, fish census and invertebrate counts) ◆ Eradication of crown of thorns ◆ <i>Ad hoc</i> surveys (stranded mammals, fish mortality, M. Jacquot sewerage project) ◆ Observations on coral bleaching ◆ Processing and analysis of data ◆ Assess coastal development projects
Coastal Environment research	<ul style="list-style-type: none"> ◆ Monitor water quality in coastal waters ◆ Monitor coliform bacteria at selected beaches 	<ul style="list-style-type: none"> ◆ Collect water samples at sea ◆ Record physical parameters ◆ Perform chemical analysis of water ◆ Investigate on cases of marine pollution and fish mortality ◆ Perform tests for coliform bacteria ◆ Advise on suitability of beach water for users ◆ Advise on formulation of standards and guidelines for waste water discharge
Monitoring of pesticides and trace metals	<ul style="list-style-type: none"> ◆ Long-term monitoring of pesticides and trace metals levels at eight estuaries 	<ul style="list-style-type: none"> ◆ Collect water samples in estuaries ◆ Record physical parameters ◆ Analyse water samples
Monitoring of ex-sand mining sites	<ul style="list-style-type: none"> ◆ Study impact of banning of sand mining in the lagoon 	<ul style="list-style-type: none"> ◆ Perform underwater surveys on bottom substrate ◆ Estimate rate of colonisation of biota ◆ Perform fish visual census and invertebrate count

Aquaculture

Project/services	Objective(s)	Main activities
Freshwater fish culture	<ul style="list-style-type: none"> ◆ Broodstock of red tilapia (Malaysian and Israeli strains) ◆ Provide extension service for freshwater aquaculture development ◆ Produce seed of red tilapia in sufficient quantity to service farmers 	<u>Extension Services</u> <ul style="list-style-type: none"> ◆ Advise fish farmers in freshwater aquaculture ◆ Site visits and stocking of ponds ◆ Exhibitions
<ul style="list-style-type: none"> ◆ Freshwater prawn culture ◆ Seed production of freshwater prawn 	<ul style="list-style-type: none"> ◆ Maintain broodstock ◆ Production of prawn juveniles to service farmers 	<ul style="list-style-type: none"> ◆ Operate the hatchery ◆ Broodstock management
<ul style="list-style-type: none"> ◆ Ornamental fish culture 	<ul style="list-style-type: none"> ◆ Production of broodstock ◆ Develop simple technology for small entrepreneur 	<ul style="list-style-type: none"> ◆ Broodstock management ◆ Reproduction of ornamental fish
<ul style="list-style-type: none"> ◆ Appraisal of aquaculture projects 	<ul style="list-style-type: none"> ◆ Aquaculture development 	<ul style="list-style-type: none"> ◆ Recommendations on proposed projects
<ul style="list-style-type: none"> ◆ Marine /freshwater aquaculture projects 	<ul style="list-style-type: none"> ◆ Monitoring of marine/freshwater aquaculture projects 	<ul style="list-style-type: none"> ◆ Regular site visits and record of biodata and physico chemical parameters at fish farms

Marine Conservation

Project/services	Objective(s)	Main activities
<ul style="list-style-type: none"> ◆ Establishment of Marine Parks 	<ul style="list-style-type: none"> ◆ Construction and setting up of the Blue Bay and Balaclava Marine Park Centres ◆ Physical zoning of the Balaclava Marine Park. ◆ Management of marine parks 	<ul style="list-style-type: none"> ◆ Co-ordination with project consultants for the construction of marine park centres ◆ Management of marine parks ◆ Delimit the different zones in the Balaclava Marine Park ◆ Monitor and maintain buoys and floats ◆ Monitor coral reef ecosystems at the two marine parks ◆ Enforcement of MPA regulations ◆ Awareness on MPA
Project/services	Objective(s)	Main activities
<ul style="list-style-type: none"> ◆ Coastal Zone Management 	<ul style="list-style-type: none"> ◆ Provide services to ensure the development of coastal zone projects in a sustainable manner ◆ Ensure that development in the coastal zone is sustainable 	<ul style="list-style-type: none"> ◆ Assessment of EIA applications and Preliminary & Environmental Reports (PER) for submission of views to the Ministry of Environment ◆ Participate in post EIA monitoring programme ◆ Carry out ecological underwater surveys for the delimitation of swimming zones in the lagoon ◆ Monitor undersea walk sites

		<ul style="list-style-type: none"> ◆ Effect site visits in connection with coastal development projects ◆ Assess and make recommendations on coastal tourism related activities ◆ Conduct public awareness campaigns on the sustainable development of the coastal zone
--	--	--

Fisheries Training, Development & Extension

Project/services	Objective(s)	Main activities
FAD fishery development Research/training Boats	<ul style="list-style-type: none"> ◆ Develop, support and maintain a FAD fishery ◆ Encourage fishermen to move to off lagoon to increase their income and hence to alleviate poverty ◆ Maintain the boats in good running condition 	<ul style="list-style-type: none"> ◆ FAD design and construction ◆ Set and maintain FADs ◆ Monitor FAD fishery ◆ Operate and manage research boats
Sensitisation Awareness campaigns	<ul style="list-style-type: none"> ◆ Enhance fishermen's skills and knowledge in exploiting fish resources around FADs and in the open sea 	<ul style="list-style-type: none"> ◆ Sensitisation meetings with fishers ◆ Interactive information campaigns for artisanal fishers
Off-lagoon fishery development	<ul style="list-style-type: none"> ◆ Promote and support the development of off-lagoon fishery ◆ To ensure effective fishing techniques 	<ul style="list-style-type: none"> ◆ Demonstrate fishing techniques, handling and preservation in the: <ul style="list-style-type: none"> • Swordfish fishery • Deepwater shrimp fishery • Chilled fish fishery
Fisheries Training and Extension Centre	<ul style="list-style-type: none"> ◆ Provide training to enhance safety and security at sea ◆ Improve knowledge and skills of fishermen to operate in the off lagoon ◆ Dispense proper training to new entrants for a career in the fishing industry ◆ To relocate fishermen from the heavily exploited lagoon areas to the open sea, with a view to increase their catch and concurrently reducing fishing pressure in the 	<ul style="list-style-type: none"> ◆ Training of fishers (General Course for Fisher) ◆ Training of fishers (FAD fishery)

	<p>fishing pressure in the lagoon</p> <ul style="list-style-type: none"> ◆ Standardise and harmonise procedures at level of Fisheries Posts and improve enforcement capabilities of staff of the Fisheries Protection Service 	<ul style="list-style-type: none"> ◆ In-service training of staff of the Fisheries Protection Service
--	--	--

Fisheries Management

Project/services	Objective(s)	Main activities
Monitoring of fishing vessels	<ul style="list-style-type: none"> ◆ Monitor movement and operation of fishing vessels 	<ul style="list-style-type: none"> ◆ Collect fishing log books ◆ Record movement of vessels ◆ Enforce licence conditions ◆ Check licences and relevant documents (foreign vessels) ◆ Clearance for departures and arrivals ◆ Check safety equipment ◆ Monitor transshipment activities
Licensing of fishing vessels	<ul style="list-style-type: none"> ◆ Provide support for fishery management 	<ul style="list-style-type: none"> ◆ Issue licences to Mauritian and foreign vessels ◆ Allocation and monitoring of catch quota ◆ Advise entrepreneurs on investment possibilities in the fisheries sector ◆ Examine and process projects submitted by entrepreneurs
Fish imports and exports	<ul style="list-style-type: none"> ◆ Provision of support for import and export of fish and fish products. 	<ul style="list-style-type: none"> ◆ Process and issue permits ◆ Process and issue export authorisations ◆ Inspect imported products ◆ Follow-up on fish trade issues ◆ Advise importers/exporters/fish sellers on quality norms ◆ Monitor the supply of frozen fish on the local market
VMS unit	<ul style="list-style-type: none"> ◆ Monitor the position and movement of all licensed fishing vessels 	<ul style="list-style-type: none"> ◆ Monitor and record the position of licensed vessels at regular time intervals ◆ Provide via electronic communications selected information from the VMS to other interested parties such as the Coast Guard ◆ Generate reports on the movement of fishing vessels

		<ul style="list-style-type: none"> ◆ Participate in joint surveillance missions of the IOC
Pelagic Fisheries	<ul style="list-style-type: none"> ◆ Study stock structure, catch, trend, investigate fishing areas and distribution and cooperate at a regional level in the management of tuna resources ◆ Study the reproductive biological parameters of skipjack tuna 	<ul style="list-style-type: none"> ◆ Input and processing of catch and effort data received from local and foreign licensed vessels ◆ Conduct fish sampling and processing of length frequency data in relation to the landing of local and foreign vessels ◆ Input and processing of landing data from licensed and non licensed fishing vessels ◆ Analysis of tuna data for the study of exploitation rates, species composition, stock structure and spatial distribution ◆ Data exchange with IOTC ◆ Collection and processing of biological samples obtained from the catch of licensed purse seiners at the local canning factory ◆ Analysis of tuna biological data for the study of spawning seasons, sex ratio, reproductive indices and length at first maturity

Fisheries Planning

Projects/services	Objective(s)	Main activities
National / regional / bilateral / multilateral cooperation	Assist the Ministry in formulating, developing, planning and implementing its fisheries strategy taking into account cooperation with other countries and organisations	<ul style="list-style-type: none"> ◆ Formulate and develop appropriate policy instruments for fisheries in Mauritius. ◆ Coordinate with various ministries and private organizations and local, regional and international bodies on matters relating to fisheries development, management and protection of the marine environment. ◆ Provide inputs for negotiations of Fisheries Agreements, Economic Partnership Agreements and Memorandum of Understanding with other countries and organisations and Rules of Origin issues
Fisheries projects	<ul style="list-style-type: none"> ◆ Formulation of projects 	<ul style="list-style-type: none"> ◆ Planning and design fisheries development and management projects ◆ Examination and assessment of projects ◆ Identify needs of the fisheries sector

		<ul style="list-style-type: none"> ◆ Financial analysis of projects ◆ Coordinate project implementation
--	--	---

List of Capital Projects undertaken

Project Title	Funded	Amount	Status
Construction of a slipway and platform at Grand Sables	Ministry	Rs 3 175 000 inclusive of contingency for the sum of Rs 300 000 and VAT	Final completion of works effected on 18 May 2007
Construction of a slipway at Roches Noires	Partly by EU funds, Ministry and the Ministry of Environment and NDU	Rs 5 520 000 inclusive of contingency for the sum of Rs 300 000 and VAT	Final completion of works to be effected on 1 February 2008
Construction of water tower at AFRC	Ministry	Rs 1 193 700 inclusive of contingency for the sum of Rs 110 000 and VAT	Final completion of work to be effected on 11 March 2008
Dredging of boat passage at Ilot Bernache	EU funds	Rs 1 725 000 inclusive of contingency sum of Rs 300 000 and VAT	Final completion of work effected on 28 September 2007
Procurement of materials for FAD's	90% IFAD 10% Ministry	Rs 935 980.40 inclusive of VAT	Materials received in November/December 2007