Appendix 1: Organigram of the Fisheries Division of the Ministry of Agro-Industry and Fisheries MINISTER Ministry of Agro-Industry and Fisheries (Agro-Industry Division) Senior Chief Executive **Permanent Secretary** (Fisheries Division) **Chief Fisheries Officer Principal Assistant Secretary Principal Fisheries Officer Principal Fisheries Officer Principal Fisheries Officer** (Fisheries Training (Fisheries Research Service) (Fisheries Management Service) Divisional Scientific Officer Divisional Divisional Divisional Scientific Scientific Scientific Scientific Officer (4) Officer (3) Officer (1) Officer (1) Controller Scientific Scientific Fisheries Scientific Protection Assistant Senior Officer (7) Officer (1) Senior Purchasing Officer (8) Service Secretary (3) Personnel and Supplies Officer Officer **Principal Finance** Deputy Officer Senior Senior Senior Controller FPS (3) Technical Technical Technical Assistant Controller Technical Technical Technical FPS (4) Officer (8) Officer (13) Officer (3) Fisheries Protection Service

FiTEC

Administration

AFRC

Administration

Administration

Section

Personnel

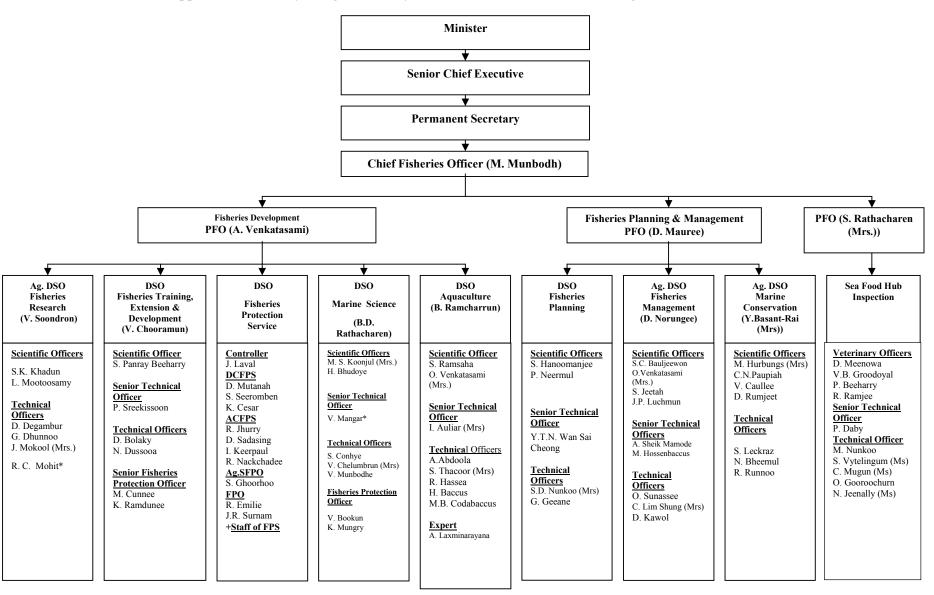
Section

Finance

Section

Stores Section

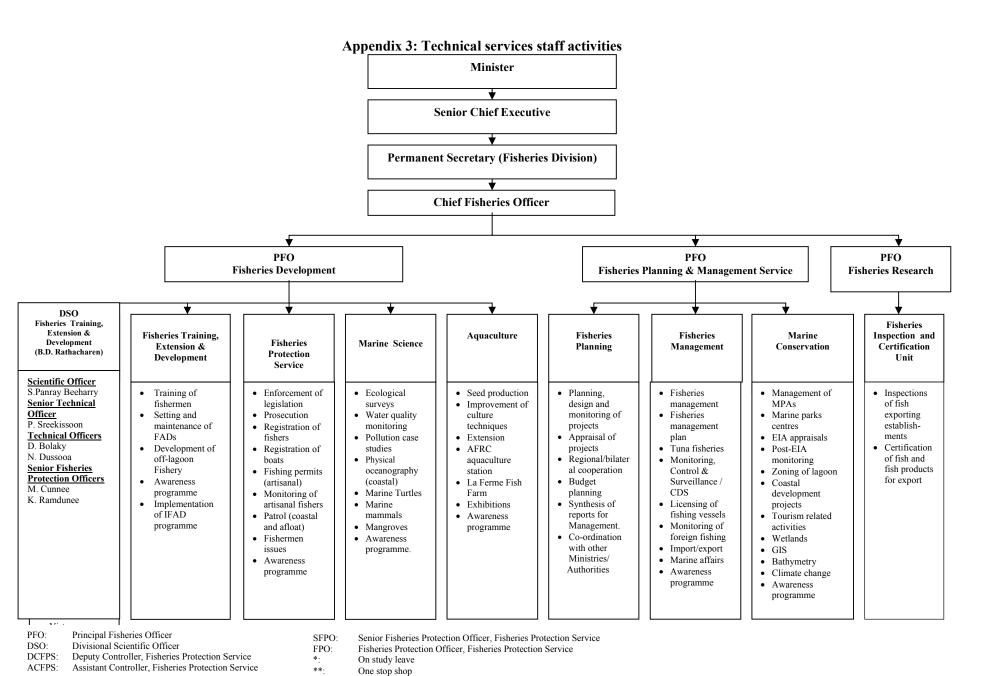
Appendix 2: Ministry of Agro-Industry & Fisheries (Fisheries Division) Organisational Chart (Technical Services)



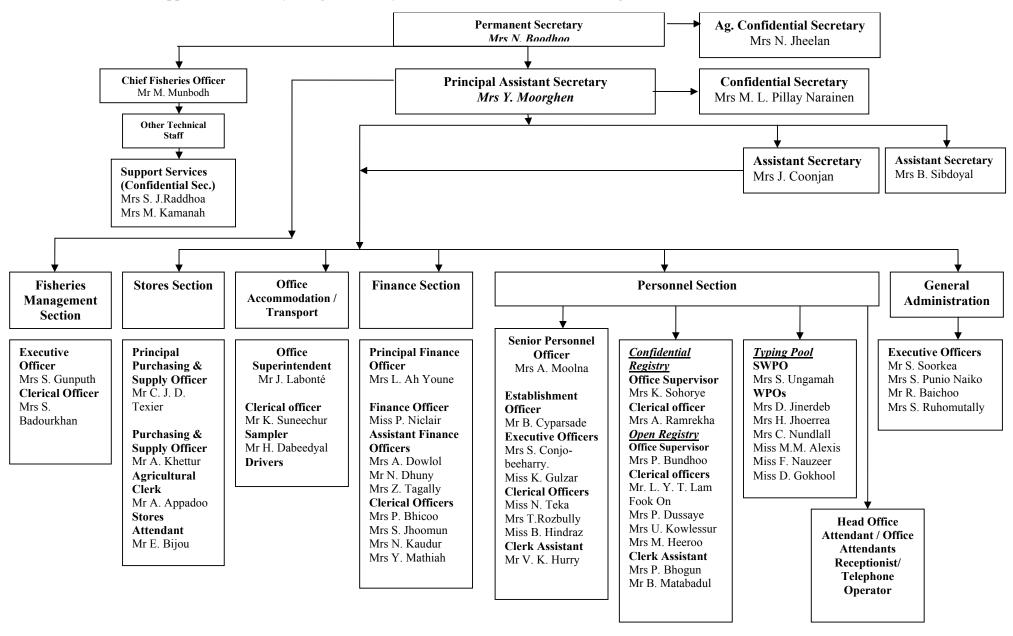
PFO: Principal Fisheries Officer
DSO: Divisional Scientific Officer
DCFPS: Deputy Controller, Fisheries Protection Service
ACFPS: Assistant Controller, Fisheries Protection Service

SFPO Senior Fisheries Protection Officer, Protection Service Fisheries Protection Officer, Protection Service FPO

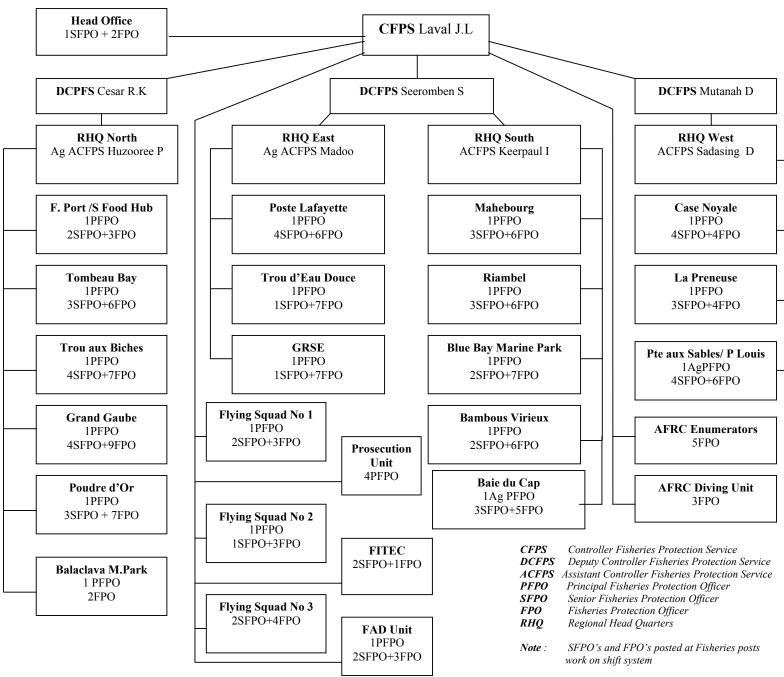
* Study leave



Appendix 4: Ministry of Agro-Industry & Fisheries (Fisheries Division) Organisational Chart (Administration Section)



Appendix 5: Organigram of the Fisheries Protection Service



Appendix 6: LIST OF PROJECTS AND SERVICES

Fisheries Research

Project/services	Objective(s)	Main activities
Coastal fishery	 Maintain and update records of fishery statistics for estimation of fish landings 	 Prepare sample survey programme Collect and analyse data on coastal fish landings Perform checks on landing stations
Bank fishery	◆ Maintain and update records of data on offshore demersal fishery for estimation of yields and for provision of advice on their management	 ◆ Collect, process and analyse log book data ◆ Monitoring of fishing licences, quotas and fish landings ◆ Establish fishing quota ◆ Advise fighting operators ◆ Keep register of demersal fishing vessels
Ecotoxicology	◆ Monitor toxic fish and harmful microalgae	 ◆ Bioassay activity tests with mouse ◆ Collection of microalgal samples ◆ Microscopic examination of microalgae
St. Brandon inshore fishery and semi-industrial chilled fish fishery	 ◆ Determine growth parameters estimates for fish at St. Brandon, Albatross, Soudan, Hawkins and small northern banks ◆ Analyse data for fishery management 	 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 estimate of catch per fisherman day
Stock Assessment and Fisheries Management of the St. Brandon plateau and Associated Banks Fisheries (TCP/MAR 3001)	 ◆ 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 ◆ Develop a resource management plan for sustainable exploitation of the resources and associated management processes supporting operational planning and identify means for increasing the fishery value added 	 Collection of catch, effort, Length/weight data from vessels in port Design and conduct field survey at St. Brandon Conduct surveys on fish handling 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 Species report writing Prepare advisory management report Cruise reporting

Marine Science

Project/services	Objective(s)	Main activities
Coastal Ecosystem Research	◆ Long-term monitoring of the coastal ecosystem at selected sites	 ◆ Collect data on substrate cover (coral, seagrass, algae, fish census and invertebrate counts) ◆ Eradication of COTs ◆ Ad hoc surveys (stranded mammals, fish mortality, M. Jacquot sewerage project) ◆ Observations on coral bleaching ◆ Processing and analysis of data ◆ Submit recommendations on new coastal development projects
Coastal Environment research	 Monitor water quality in coastal waters Monitor coliform bacteria at selected beaches 	 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	◆ Long-term monitoring of pesticides and trace metals levels at eight estuaries	 ◆ Collect water samples in estuaries ◆ Record physical parameters ◆ Analyse water samples
Monitoring of ex-sand mining sites	◆ Study impact of banning of sand mining in the lagoon	 ◆ Perform underwater surveys on bottom substrate ◆ Estimate rate of colonisation of biota ◆ Perform fish visual census and invertebrate count
Lagoon watch programme	♦ Monitor sea surface temperature in the lagoon	 ◆ Collect daily sea surface temperature at selected sites ◆ Analysis of temperature data

Aquaculture

Project/services	Objective(s)	Main activities
 ◆ Shrimp maturation ◆ Seed production of marine shrimps in seawater ◆ Acclimatisation of marine shrimps in freshwater at PL 20 ◆ Rearing/grow out of marine shrimps in ponds 	 ◆ Production of acclimatised marine shrimps to service fish farmers ◆ Gradual phasing out of berri rouge 	 ◆ Carry out maturation and induced spawning ◆ Spawning of <i>P. monodon</i> in captivity and larval rearing ◆ Production of live feeds (<i>Brachionus</i> sp., <i>tetraselmis</i> sp., <i>Nannochloropsis</i> sp., <i>Isochrysis galbana and Chaetoceros</i> sp.) ◆ Maintain pure strains of the four phytoplankton ◆ Acclimatisation of juveniles of two species namely <i>Penaeus monodon</i>
Larval rearing, asexual reproduction and induced spawning in sea cucumber	♦ Seed the lagoon	 Maintain and rear broodstock Induced spawning by two methodologies: thermal stimulation, drying and spraying of jet of water Larval rearing of sea cucumbers Stocking of lagoon
Pond management and extension service	◆ Grow-out of marine shrimps for distribution and resource propagation	 Management of ponds Extension service to barachois farmers Release of fish and shrimp in the lagoon and follow-up activities
Freshwater fish culture	 Production and grow-out of berri rouge of two strains (Malaysian and Israeli) Provide extension service for freshwater aquaculture development Produce seed for berri rouge in sufficient quantity to service farmers 	 Extension Services ◆ Advise fish farmers in freshwater aquaculture ◆ Site visits and stocking of ponds ◆ Exhibitions
 Freshwater prawn culture Seed production of freshwater prawn 	Maintain broodstockProduction of prawn juveniles to service farmers	◆ Operate the camaron hatchery◆ Broodstock management

Marine Conservation

Project/services	Objective(s)	Main activities	
◆ Establishment of Marine Parks	 Construction and setting up of the Blue Bay and Balaclava Marine Park Centres. Physical zoning of the Balaclava marine park. Management of marine parks. 	 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 Awareness on MPA 	
Project/services	Objective(s)	Main activities	
◆ Coastal Zone Management	Provide services to ensure the development of coastal zone projects in a sustainable manner.	 Assessment of EIA applications and Preliminary & Environmental Reports (PER). Conduct post EIA monitoring. Carry out ecological underwater surveys for the delimitation of swimming zones in the lagoon Monitor undersea walk sites Effect site visits in connection with coastal development projects. Assess and recommend coastal development tourism related activities. Conduct public awareness campaigns on the sustainable development of coastal zones. Attend meetings. 	

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Fisheries Training, Development & Extension

Project/services	Objective(s)	Main activities	
FAD fishery development	 Develop, support and maintain a FAD fishery Encourage fishers to move to off lagoon to increase their income and hence to alleviate poverty 	 FAD design and construction Set and maintain FADs Operate and manage research vessels Monitor FAD fishery 	
Sensitisation Awareness campaigns	◆ Enhance fishers` skills and knowledge in exploiting fish resources around FADs and in the open sea	 Sensitisation meetings with fishers Interactive information campaigns for artisanal fishers 	
Off-lagoon fishery development	 Promote and support the development of off-lagoon fishery To ensure effective fishing technique 	 Demonstrate fishing techniques, handling and preservation in the: Swordfish fishery Deepwater shrimp fishery Chilled fish fishery 	
Fisheries Training and Extension Centre	 ◆ To provide training to enhance safety and security at sea ◆ knowledge and skills of fishers 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 lagoon ◆ To standardise and harmonise procedures at level of Fisheries Posts and improve management capabilities of subordinate staff 	 Training of fishers (General Course for Fisher) Training of fishers (FAD fishery) Training of mid-management staff for the Fisheries Protection Service 	

Fisheries Management

Project/services	Objective(s)	Main activities		
Monitoring of fishing vessels	 Monitor movement and operation of fishing vessels 	 Collect fishing log book Record movement of vessels Enforce licence conditions Check licences and relevant documents (foreign vessels) Clearance for departures and arrivals Check safety equipment Monitor transhipment activities 		
Licensing of fishing vessels	 Provide support for fishery management 	 Issue licences to Mauritian and foreign vessels; Allocation and monitoring of catch quota 		
Fish imports and exports	 Provision of support for import and export of fish and fish products. 	 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 		
VMS unit	♦ Monitor the position and movement of all licensed fishing vessels	 Monitor of every licensed vessel's position at regular time intervals Receive and securely store all position reports received from fishing vessels Provide via electronic communications selected information from the VMS to other interested parties such as the Coast Guard Generate reports summarising the movement of fishing vessels 		

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Fisheries Planning

Projects/services	Objective(s)	Main activities
Project proposals	◆ Formulate new projects.	 Identify needs for fisheries sector. Prepare project write-up. Financial analysis of projects and reporting. Oversee project implementation.
National / regional / bilateral / multilateral cooperation	 Coordinate matters related to regional/bilateral issues. Cooperation with other countries. Cooperation with other local institutions. 	 Follow-up on projects. Assist in evolving of fisheries policies with respect to EU, WTO, SADC, COMESA, NEPAD, IOR-ARC, SWIOFC, and FAO. Liaison and collaboration with other organisations.

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Appendix 7: Meetings, workshops, seminars and courses attended

Subject	Venue	Date	Officer
Fisheries Training Programme	United Nations University, Iceland	September 05 - February 06	Mr. R. Mohit - T.O
Scientific expedition of the Japanese vessel RV Hakuho Maru (KU-06-4-1)	Indian Ocean (Marie Celeste French)	26 December 05 - 5 January 06	Mr. V. Munbodhe - T.O
Partnerships for Marine Protected Areas in Mauritius and Rodrigues	Rodrigues	February	Mr. S. Soondron -Ag. DSO Mr. C. N. Paupiah - S.O
Fish 06 Conference	Perth , Australia	26 Feb - 2 March	Mr. M. Munbodh – C.F.O
Fishing Communities and Sustainable Development in Eastern and Southern Africa, the role of small-scale fisheries	Dar Es Salaam, Tanzania	14 - 17 March	Mr. D. Rumjeet - S.O
Second Technical Advisory Committee meeting of the INFOSA	Namibia	3 - 5 April	Mr. S. Hanoomanjee- S.O
Train The Trainer Programme	IVTB, Phoenix	13, 14, 20, and 21 April	Mr. P.Sreekeessoon- STO Mr. N. Dussoa - T.O Mr. M. Cunnee - S.F.P.O Mr. K.Ramduny - S.F.P.O
Workshop on assessing the relative importance of sea turtle mortality due to fisheries	Zanzibar, Tanzania	24 - 28 April	Mrs. M. S. Koonjul - S.O Mrs. V. Chelumbrun- T.O
Western Indian Ocean Reef Resilience Workshop	Malindi, Kenya	9 - 12 May	Mrs. Y. Basant Rai - S.O Mr. S. Leckraz- T.O
7 th Joint ESA/EC Regional Preparatory Task Force Meeting and 4 th Negotiating Sessions of ESA/EC Ambassadors/Senior Officials Meeting	Brussels, Belgium	12 - 13 May	Mr. D. Mauree - P.F.O
IOTC Meeting	Goa, India	17 - 26 May	Mr. D. Norungee-Ag. DSO
Review Conference on the UN Fish Stocks Agreement	New York, USA	22 - 26 May	Mr. M. Munbodh - C.F.O
First Aid Certificate	Ministry of Civil Service Affairs	June	Mr. M. Cunnee - S.F.P.O
Action de l'Etat en mer	St. Denis, Reunion Island	1 - 2 June	Mr. A. Venkatasami - P.F.O
WIO-LaB regional training course on nutrient analysis in seawater by colorimetric methods	Institute of marine sciences, Zanzibar, Tanzania	5 - 9 June	Mr. H. Bhudoye - S.O
Evaluation of Mauritius – European Commission Cooperation Strategy 1996-2007	Le Sirius, Le Labourdonnais Waterfront Hotel Caudan	4 July	Mr D. Mauree - P.F.O
ESA/EC Negotiations on market Access Trade Related Issues, Fisheries & Agriculture	Brussels, Belgium	24 - 27 July	Mr. D. Mauree - P.F.O
National workshop on scientific laboratory management	University of Mauritius	24 - 28 July	Mrs. V. Chelumbrun- T.O Mr. V. Munbodhe - T.O

Subject	Venue	Date	Officer
Coastal Ecosystem: Hazards Management and Rehabilitation	Indonesia	8 - 17 August	Mr. M. Nallee - D.S.O
Seventh session of the Seychelles - Mauritius Commission on Bilateral Cooperation (CBC)	Seychelles Fishing Authority, Seychelles	12 - 19 August	Mr. G. Geeane - T.O
2 nd Session of the South West Indian Ocean Fisheries Commission	Maputo, Mozambique	21 - 25 August	Mr. A. Venkatasami - P.F.O
Workshop on Innovation Policy Roadmap & Action Plan for clustering	Swami Vivekananda International Conference Centre	23 August	Mr S. Hanoomanjee - S.O
Fisheries Training Programme	United Nations University, Iceland	Since August 06 (for 18 months)	Mr. R. Mohit - T.O
One day workshop on Convention of Biodiversity	Rodrigues	8 September	Mrs. M. S. Koonjul - S.O
Structure and characteristics of the swordfish (<i>Xiphias gladius</i>) stock in the Indian Ocean	IFREMER, Reunion Island	11 - 16 September	Mr. S. C. Bauljeewon - S.O
Meeting of the Second Project Steering Committee, Monitoring, Control & Surveillance and Regional Tuna Tagging Project	Seychelles	12 - 15 September	Mr. J. P. Luchmun - S.O Mr. D. Kawol - T.O Mrs. S. Nunkoo - T.O
One day workshop on Convention of Biodiversity	Domaine Les Pailles	22 September	Mrs. M. S. Koonjul - S.O
Fisheries Training Programme	United Nations University, Iceland	September 06 - March 07	Mr. D. Bolaky - T.O
Second ODINAFRICA website improvement workshop	Oostende - Belgium	2 - 6 October	Mr. N. Wan Sai Cheong
25 th CCAMLR	Hobart Australia	23 Oct 3 Nov.	Mr. D. Norungee - Ag. DSO
Official visit to the "Overseas Fisheries Cooperation Foundation"	Japan	5 - 13 November	Mr. D. Mauree - P.F.O
Port Inspection Course	Seychelles	14-24 November	Mr. R. Hossenbaccus - S.T.O
Workshop on Safety at Sea for Small Scale Fisheries in the South West Indian Ocean	Moroni, Comores	12 -14 December	Mr. P.Sreekeessoon- STO Mr. N. Dussoa - T.O
Second workshop on national strategy for the development of statistics	Sir H. Vaghjee Hall	14 December	Mr. S. Khadun - S.O

Appendix 8: Missions, visits and attachments at AFRC

Name of visitor/s	visitor/s Institution Purpose		Date
Undergraduate students	MS Explorer vessel	Visit the Blue Bay Marine Park and the Albion Fisheries Research Centre	28 February
Ross Shotton	FAO	Technical cooperation on fish stock assessment	April and October
D. Boyer	Fisheries Resource Survey, Republic of South Africa	Acoustic Survey on the slopes of St. Brandon and Nazareth banks	April and October
Janine Nelson	Fisheries Resource Survey, Republic of South Africa	Acoustic Survey on the slopes of St. Brandon and Nazareth banks	October
Mr. Remi Ratsimbazafy Mr. Denis Etienne Mrs. Gina Bonne Mr. Bruno François	Commission de l'Ocean Indien (COI)	Half day meeting to present project on 'Creation du Réseau des Aires Marines Protégées des Pays de la COI	17 October

Appendix 9: Environment Impact Assessment

- 1. Renovation of Pte aux Biches Hotel, Trou aux Biches
- 2. Lagoon rehabilitation works at Pte aux Biches Hotel, Trou aux Biches
- 3. Construction of New Quay at Caudan, Port Louis
- 4. Construction of Sagar Resort Hotel, Balaclava
- 5. Extension works at Beau Rivage Hotel, Belle Mare
- 6. Anahita Golf Course at Deep River Beau Champ
- 7. Integrated Resort Scheme (IRS) Development, Bel Ombre
- 8. La Ferme Marine de Mahebourg, Pte aux Feuilles
- 9. Extension and refurbishment works at Mourook Ebony, Rodrigues
- 10 IRS project, St. Antoine
- 11. Golf Course Project, Ile aux Cerfs
- 12. Coastal development works at Salt Lake Resorts, Bel Ombre
- 13. IRS project, Flic en Flac
- 14. Construction of a Resort by Club Med., Albion
- 15. Undersea walk, Grand Bay
- 16. IRS project, Le Morne Brabant
- 17. Les Salines IRS Project, Les Salines
- 18. Maintenance dredging at Lievres and Levrettes Channels, Trou d'Eau Douce
- 19. Rehabilitation of Ile aux Chats, Deep River Beau Champ.
- 20. Processing of sea cucumber (PER)
- 21. Construction of a Hotel, Grand Gaube
- 22. Demarcation of Swimming Zone, Prince Maurice Hotel, Belle Mare
- 23. Hotel Development, Flic en Flac
- 24. Hotel Development at Pte Oscome, G. Gaube
- 25. Renovation of Pearl Beach Hotel, Flic en Flac
- 26. Construction of a Nautical Centre, Le Morne (PER)
- 27. Hotel Project, Grand Gaube
- 28. Le Morne Brabant IRS Project
- 29. Demolition of a seawall, Pearle Beach Hotel, Flic-en-Flac
- 30. Protection Revetment Wall, Le Residence, Belle Mare
- 31. Dredging Works in the English Channel (MPA), Port Area
- 32. IRS Project, Corniche Bay
- 33. Hotel Development by Osprey & Co. Ltd, Flic en Flac
- 34. La Bambousserraie Hotel Project, Les Salines
- 35 Dredging works in the English Channel, Port Louis Harbour

Appendix 10: Activities and development in the coastal zone

- 1. Swimming zone, Le Palmaraie, Belle Mare
- 2. Jetty construction, Bambous Virieux
- 3. Swimming zone, St.Geran Hotel
- 4. Lagoon works, Ile aux Chats
- 5. Lagoon works, Beau Champs
- 6. Survey of lagoon, Paradise Cove Hotel, Anse la Raie
- 7. Swimming zone, Trou d'Eau Douce
- 8. Swimming zone, Prince Maurice Hotel, Poste la Fayette
- 9. Jetty construction, Trou aux Biches Fish landing station
- 10. Swimming zone, Le Heritage Hotel, Bel Ombre
- 11. Swimming zone, Pereybere
- 12. Swimming zone, Grand Bay
- 13. Swimming zone, Balaclava by Lateral Holdings Ltd
- 14. Swimming zone, public beach, Trou aux Biches
- 15. Survey at undersea walk site, Beralbe Ltd, Trou aux Biches
- 16. Undersea walk activity by Tropical Ltd., Grand Bay
- 17. Underwater surveys at Undersea walk Ltd. (Grand Bay) & Anjelo Club Nautique, Grand Bay
- 18. Survey in connection with lagoon and beach works, Pointe aux Biches Hotel
- 19. Survey in connection with lagoon and beach works, Pointe aux Biches Hotel
- 20. Survey at in connection with Lagoon and Beach Works, Skiing activities, Le Goulet
- 21. Swimming zone, Les Bougainvilles, Belle Mare
- 22. Survey of ex-sand mining site, Mahebourg

The Marine Conservation Division represents the Ministry in the following Committees and Subcommittees:

- Environmental Impact Assessment Committee
- National Ramsar Committee
- National Ramsar Sub-committee
- Nature Reserves Board
- Environment Liaison Officers Committee
- National Biodiversity Strategic Action Plan (NBSAP)
- Integrated Coastal Zone Management Sub-committee
- Islet Management Committee
- Environment Coordination Committee

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Appendix 11: Recurrent Revenue for the financial year 2006/2007 (Rs. `000)

Element	Element Description	Ending Balance	Remarks
44-062.001	Sale of Produce	572,434.50	Receipts from sale of fish, e.g. berri rouge fingerlings, camaron juveniles, harvest size berri rouge, camaron and shrimps etc. from AFRC and LFFF
44062.002	Fishing Vessel Licence Fees	48,591,488.73	Payment of new licences and renewal of licence fees where applicable (Non-EU, EU, Japanese and Seychelles vessels)
44-062.003	Fees for Import Permits	3,992,000.00	Fees in connection with import of frozen and chilled fish, fish products and shells and live ornamental fish, etc.
44-062.004	Permits to operate in Marine Protected Area (MPA)	731,800.00	Fees in connection to operate boats (etc.) in MPA
44-0062.999	Miscellaneous	2,760,085.35	
Total		56,647,808.58	

Appendix 12: Recurrent expenditure for the financial year 2006/2007 (Rs. `000)

Item No.	DETAILS		2006-2007
11-201.001	A. Total Personal Emoluments		82,491,472.03
	B. Other Charges Recurrent		
	Other Staff Costs		
1-201.002	Wages		148,000.00
.003	Travelling and transport		9,897,377.83
.010	Staff welfare		25,000.00
0.12	Overtime		1,009,875.33
11-201.050	Office expenses and incidentals		331,932.81
.051	Telephone bills		1,441,552.18
.052	Rent		4,003,446.60
.053	Maintenance and running of vehicles		2,637,557.23
.054	Office equipment and furniture		395,350.00
.055	Maintenance of buildings, grounds, plant and equipment		3,277,424.86
.056	Training of staff		8,000.00
.057	I.T. facilities		7,362.00
.059	Electricity charges		2,385,714.30
.060	Water rates		359,647.65
.061	Publications		92,298.30
	Uniforms		1,104,033.00
.113	Security Services		1,675,347.68
.167	Postage		86,822.00
.174	Fisheries Training and Extension Centre		1,543,031.97
.176	Printing and stationery		480,726.13
.192	Fisheries Research		2,786,746.46
.199	Other operating expenses		351,181.76
.201	One-Stop Shop (Sea Food Hub)		1,845,359.60
	Contributions and Benefits		
11-201.418	Contribution to Fishermen Welfare Fund		3,500,000.00
.667	Compensation to net fishermen		175,000.00
.700	Contribution to International Organisation(s)		899,079.83
		Total	122,959,309.55
		Total	12,959,309.55
.001	Fisheries Development		7,787,830.90
.004	Construction/Upgrading of Fisheries Posts		1,428,500.78
		Total	9,216,331.68

Appendix 13: Statement of capital expenditure for financial year 2006/2007 ('000)

Item No.	Description	Estimates 2006-2007
		Rs
31-119.001	Fisheries Development	7,000,000
.002	Marine Parks and Conservation Project	10,000,000
.003	Construction/Upgrading of Fisheries Posts	2,000,000
.004	Construction/Extension of Building at Albion Fisheries Research Centre	10
.005	Fish Auction Market	0
	TOTAL - FISHERIES	19,000,010