

**( Appendices )**

## Appendices – 1 Member List of the Study Team

### A-1-1 In the Survey Mission

Name	Assignment	Organization
<b>Official Member</b> Mr. Tsutomu SHIMIZU  Mr. Satoshi UCHIDA	Leader  Fishery Preparation Planner	Rural Development Team, Project Management Group III, Grant Aid Management Department, Japan International Cooperation Agency (JICA).  Office of Overseas Fisheries Cooperation, Fisheries Agency, Ministry of Agriculture, Forestry and Fisheries
<b>Consultant Member</b> Mr. Eiichi MATSUURA  Mr. Toshimitsu TAKAHASHI  Mr. Takashi MORIMOTO  Mr. Tatsuhiko TOKU  Mr. Kenji KUROKI	Chief Consultant / Fisheries Harbour, Facility Planning / Civil Engineering for Port and Harbor/ Natural Condition Survey  Architecture Planning  Fishermen's union / Operation and Maintenance Planning/ Environmental and Social Consideration  Fisheries Equipment Planning /Procurement Planning/Cost Estimation  Construction and Procurement Planning / Cost Estimation / Environmental and Social Consideration	ECOH CORPORATION  Takahashi Toshimitsu Architectural Atelier Inc.  ECOH CORPORATION  ICONS International Corporation  ECOH CORPORATION

**A-1-2 In the Explain Mission of Draft Final Report**

Name	Assignment	Organization
<p><b>Official Member</b> Mr. Naoki KAMIJO</p> <p>Ms. Yasuyo KAWAMURA</p>	<p>Leader</p> <p>Coordinator</p>	<p>Deputy Resident Representative, JICA Mexico Office Japan International Cooperation Agency (JICA).</p> <p>Rural Development Team, Project Management Group III, Grant Aid Management Department, Japan International Cooperation Agency (JICA).</p>
<p><b>Consultant Member</b> Mr. Eiichi MATSUURA</p> <p>Mr. Toshimitsu TAKAHASHI</p>	<p>Chief Consultant / Fisheries Harbour, Facility Planning / Civil Engineering for Port and Harbor/ Natural Condition Survey</p> <p>Architecture Planning</p>	<p>ECOH CORPORATION</p> <p>Takahashi Toshimitsu Architectural Atelier Inc.</p>

# Appendices – 2 Study Schedule

## A-2-1 In the Survey Mission

Date	Official Member		Consultants (ECHO CORPORATION)				Construction and Procurement Planning / Cost Estimation / Environmental and Social Consideration
	Leader	Fishery preparation planner	Chief Consultant / Fisheries Harbour, Facility Planning / Civil Engineering for Port and Harbor / Natural Condition Survey	Architecture Planning	Fishermen's union / Operation and Maintenance Planning / Environmental and Social Consideration	Fisheries Equipment Planning / Procurement Planning / Cost Estimation	
1 2008 2/21 Tue	Mr. Tutomu SHIMIZU	Mr. Satoshi UCHIDA	Mr. Eichi MATSUURA	Mr. Toshimitsu TAKAHASHI	Mr. Takashi MORIMOTO	Mr. Tatsuhiro TOKU	Mr. Kenji KUROKI
2 2/22 Wed							
3 2/23 Thu							
4 2/24 Fri							
5 2/25 Sat							
6 2/26 Sun							
7 2/27 Mon							
8 2/28 Tue							
9 3/1 Wed							
10 3/2 Thu							
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23 3/15 Wed							
24 3/16 Thu							
25 3/17 Fri							
26 3/18 Sat							
27 3/19 Sun							
28 3/20 Mon							
29 3/21 Tue							
30 3/22 Wed							

## A-2-2 In the Explain Mission of Draft Final Report

	Date		Official Member		Consultants (ECOH CORPORATION)	
			Mr. Naoki KAMIJO	Mr. Yashuyo KAWAMURA	Mr. Eiichi MATSUURA	Mr. Toshimitsu TAKAHASHI
			Leader (JICA Mexico Office)	Coordinator (JICA)	Project Manager	Construction Management
1	9/5	Tue			NRT(15:40)---CHICAGO(13:00)(JL004) CHICAGO(14:45)---NYK(18:00)(JL5542) (NYC泊)	
2	9/6	Wed			NYC(07:45)---BGT(12:25)(BW427) BGT(16:40)---St.V(17:20) (LI379) (St.V泊)	
3	9/7	Thu			Coutesy Call to Ministry of Agriculture, Forestry & Fisheries	
4	9/8	Fri		NRT(12:00)---NYK(11:30) (JAL)	Explanation on D/R	
5	9/9	Sat		NYK(11:00)---BGT(15:45) (AA1385) BGT(17:20)---St.V(18:00) (8B737)	Date Collection	
6	9/10	Sun	Coutesy Call to Ministry of Agriculture, Forestry & Fisheries, Site Survey			
7	9/11	Mon	Discussion with Ministry of Agriculture, Fisheries Division			
8	9/12	Tue	Discussion with Ministry of Agriculture, Fisheries Division			
9	9/13	Wed	Signin on M/D with Ministry of Agriculture, Fisheries Division St.V(19:35)---PoS(21:00)(LI311)			
10	9/14	Thu	Report to Japanese Embassy in Torinidad and Tobago	Report to Japanese Embassy in Torinidad and Tobago PoS(17:00)---NYC(22:00)(BW424)		
11	9/15	Fri		NYK(13:30)---		
12	9/16	Sat		---NRT(16:20)		

## Appendices – 3 List of Parties Concerned in the Recipient Country

### (1) Ministry of Agriculture, Forestry and Fisheries

Hon. Ms. Montgomery Daniel	Minister
Mr. Raymond Ryan	Chief Fisheries Officer / Fisheries Division
Mr. Lorengo George	Fisheries Assistants / Fisheries Division
Mr. Bernard Saleyn	Boat Captain / Fisheries Division
Mr. Leslie Straker	Fisheries Officer, DATA / Fisheries Division
Ms. Jennifer Cruickshank	Fisheries Officer, Extension / Fisheries Division

### (2) Ministry of Health and Environment

Mr. Sydney Toney	Chief Environmental Health Officer
Mr. Lenne Doyle	Environmental Health Officer

### (3) Ministry of Transport, Works and Housing

Mr. Alistair Campbell	Deputy Chief Engineer
Mr. Arthur Guy	Senior Technical Officer

### (4) Ministry of Telecommunication

Mrs. Allan Alexander	Permanent Secretary
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### (5) Ministry of National Mobilization

Mrs. Rosita Alexandre-Snagg	Permanent Secretary
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### (6) Port Authority

Mr. Paul L. Kirby	Port Manager, CEO
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### (7) Harbor Master

Mr. Brenon King	Harbor Master
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### (8) Physical Planning Division

Mr. Ardon Nedson	Town Planner
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### (2) Chief Surveyor

Mr. Olivierre	Financing & Planning
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### (3) Cooperative Division

Ms. Sandra K Davis	Register of Cooperation
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### (4) Meteorological Office

- |   |  |
|---|--|
| Mr. Antonio Joyette   | Sinner Meteorological officer / Forecaster |
| <br>  |  |
| <b>(5) E.T Joshua Airport</b>   |  |
| Mr. Arnos Vale  | Director of Airport                        |
| <br>  |  |
| <b>(6) St. Vincent Co-operative Arrowroot Association ( Orange Hill Project )</b> |  |
| Mr. Mark Gill   | Manager                                    |
| <br>  |  |
| <b>(7) RSVGPF-Fire Department</b>   |  |
| Mr. Jack  | Assistant Planning, Police station         |
| <br>  |  |
| <b>(8) Custom and Excise Department</b>   |  |
| Mr. Grenville A. John   | Comptroller                                |
| <br>  |  |
| <b>(9) Soil Conservation Office</b>   |  |
| Mr. Norris Hackshaw   | Agricultural Assistant                     |
| <br>  |  |
| <b>(10) St. Vincent Electricity Service Limited, VINLEC</b>                       |  |
| Dr. Voughn Lewis  | Senior Planning Engineer                   |
| <br>  |  |
| <b>(11) Central Water &amp; Sewerage Authority</b>                                |  |
| Mr. Kenyatta Alleyne  | Engineer                                   |
| Me. Sein Htoon  | Engineer                                   |
| <br>  |  |
| <b>(12) The Sol Group</b>   |  |
| Mr. Steve Francis   | Country Manager                            |
| Mr. John R. Jacobs  | Sales Supervisor                           |
| <br>  |  |
| <b>(13) Texaco West Indies</b>  |  |
| Mr. Brian A. John   | Business Consultant                        |
| <br>  |  |
| <b>(14) JOCV, St. Vincent and the Grenadine Office</b>                            |  |
| Mr. Tetsuta Okada   | Coordinator                                |
| Ms. Mariko Sakuma   | Community Development Officer              |
| Ms. Yoshiko Matsumura   | Environmental Officer                      |

## Appendices – 4 Minutes of Discussions

### A-4-1 In the Survey mission

**MINUTES OF DISCUSSIONS**  
**ON**  
**THE BASIC DESIGN STUDY**  
**ON**  
**THE PROJECT FOR OWIA FISH LANDING COMPLEX CONSTRUCTION**  
**IN**  
**SAINT VINCENT AND THE GRENADINES**

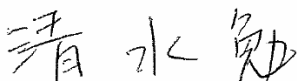
Based on the results of the Preliminary Study, the Government of Japan decided to conduct a Basic Design Study on the Project for Owia Fish Landing Complex Construction (hereinafter referred to as "the Project") and entrusted the study to the Japan International Cooperation Agency (hereinafter referred to as "JICA").

JICA sent to Saint Vincent and the Grenadines (hereinafter referred to as "St. Vincent") the Basic Design Study Team (hereinafter referred to as "the Team"), which is headed by Mr. Tsutomu Shimizu, Chief of Rural Development Team, Project Management Group III, Grant Aid Management Department, JICA, and is scheduled to stay in the country from February 22, 2006 to March 19, 2006.

The Team held discussions with the officials concerned of the Government of St. Vincent and conducted a field survey at the study area.

In the course of discussions and field survey, both parties confirmed the main items described on the attached sheets. The Team will proceed to further works and prepare the Basic Design Study Report.

Kingstown, March 1, 2006



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Tsutomu Shimizu  
Leader  
Basic Design Study Team  
Japan International Cooperation Agency



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Montgomery Daniel  
Minister  
Ministry of Agriculture, Forestry and Fisheries



paragraph 7-1, 7-2, 7-3 and 7-6 which St. Vincent side promised to submit, JICA will prepare the draft report in English and dispatch a mission in order to explain its contents.

6-3. In case that the content of the report is accepted in principle by the Government of St. Vincent, JICA will complete the final report and send it to the Government of St. Vincent.

## **7. Other Relevant Issues**

### **7-1. Operation and Management of the Facilities**

St. Vincent side explained that the operation and management of the proposed facilities will be transferred to the fishermen's cooperatives. St. Vincent side shall submit following documents to the Team by March 18, 2006.

- Plan of establishment of the fishermen's cooperatives (procedure, schedule of establishment, organization structure, articles, support by the Fisheries Division and schedule of transfer)

After the transfer of the operation and management of the proposed facilities to the fishermen's cooperatives or any other organizations, St. Vincent side shall assure following conditions.

- 1) The ownership of the facilities and equipment provided by the Japan's Grant Aid shall be retained by the Government of St. Vincent.
- 2) The Fisheries Division shall be responsible for repair and replacement of equipment on a major scale.
- 3) The proposed facilities shall be worked for the public benefit and not for particular enterprises.
- 4) Transparency of the management shall be assured.

### **7-2. Land Acquisition**

St. Vincent side indicated the area of the project site as shown in ANNEX-II (C-370 and C-331). St. Vincent side explained that C-331 belongs to the Government of St. Vincent and C-370 belongs to a single land owner. St. Vincent side also explained that enough budget for land acquisition of C-370 has been already secured. St. Vincent side shall accomplish the necessary procedure of land acquisition inclusive of obtaining agreement with land owners and compensation. St. Vincent side shall submit relevant certificates of land acquisition published by the concerned administrations to the Embassy of Japan in the Republic of Trinidad and Tobago at least by March 31, 2006.

### **7-3. Resettlement of Inhabitants**

St. Vincent side shall take necessary measures for obtaining agreement for resettlement of inhabitants and/or compensation. St. Vincent side shall report the result to the Embassy of Japan in the Republic of Trinidad and Tobago at least by April 30, 2006.

#### **7-4. Permissions necessary for the Project**

St. Vincent side shall obtain the Planning Permission from the Ministry of Finance and Planning and submit it to the Embassy of Japan in the Republic of Trinidad and Tobago within two weeks after receiving the draft basic design report.

#### **7-5. Major Undertakings by St. Vincent side**

- 1) St. Vincent side shall prepare temporary yard before the commencement of construction works.
- 2) St. Vincent side shall remove existing houses and trees at the project site before the commencement of construction works.
- 3) St. Vincent side shall provide boundary fence and gate around the project site.
- 4) St. Vincent side shall provide electricity, water supply, telephone line to the project site.

#### **7-6. Road Improvement**

The Team requested St. Vincent side to facilitate the road improvement project from Georgetown to Owia, because it is closely related to the Project. St. Vincent side shall submit the detailed plan of the road improvement project at least by March 18, 2006.

END

ANNEX-I: Items requested by St. Vincent side

ANNEX-II: Map of land to be secured

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### Items Requested by St. Vincent Side

	Components	Priority	REMARKS
1	Fishing Port Infrastructure		
	(1) Expansion of On shore Site by Reclamation and Backfill	A	The volume of backfilling should be minimized.
	(2) Revetment Work	A	Protection for slipway
	(3) Slipway Construction (including boat hauling yard and sea defense)	A	Including winch and light pole
	(4) Breakwater Construction including landing wharf (concrete blocks with rubble block)	A	Including beacon, light pole, fender, mooring pit, water supply pit and fuel supply pit.
2	On Shore Fisheries Facilities		
	(1) Gear Lockers	A	
	(2) Fisherman's Hall		
	- Office quarter	A	
	- Ice making machine with ice storage, Chilled room and Freezer room (with racks)	A	
	- Blast Freezer	C	
	- Processing Room	B	
	- Retail stalls	B	
	- Cooperative's Meeting Room	A	
	- Fishing Tackle Shop	B	
	- Mess Room	B	
	(3) Toilet / Shower	A	
	(4) Septic Tank and Drainage	A	
	(5) Fuel Station	A	
	(6) Fishnet Shed	B	
	(7) Pavement	B	Parking lot, Internal road, etc.
	(8) Water Tank	B	
	(9) Stand-by Generator	C	
3	Equipment		
	(1) VHF Transmitter Radio	C	
	(2) Heat Sealer	C	
	(3) Vacuum Packer	C	
	(4) Stainless Steel Sink	B	
	(5) Stainless Steel Tables	B	
	(6) Chest Freezer	C	
	(7) Insulated Fish Boxes	B	
	(8) Fish Trays	A	
	(9) Blast Freezer Stainless Trays	C	
	(10) Spray Washer	B	
	(11) Hoses	B	
	(12) Diving Air Tank Compressor	B	
	(13) Plastic Fish Boxes	B	
	(14) Platform Balances (stainless steel)	A	
	(15) Spring Scales (stainless steel)	A	
	(16) Hand Carts (stainless steel)	A	

\*The definition of priority;

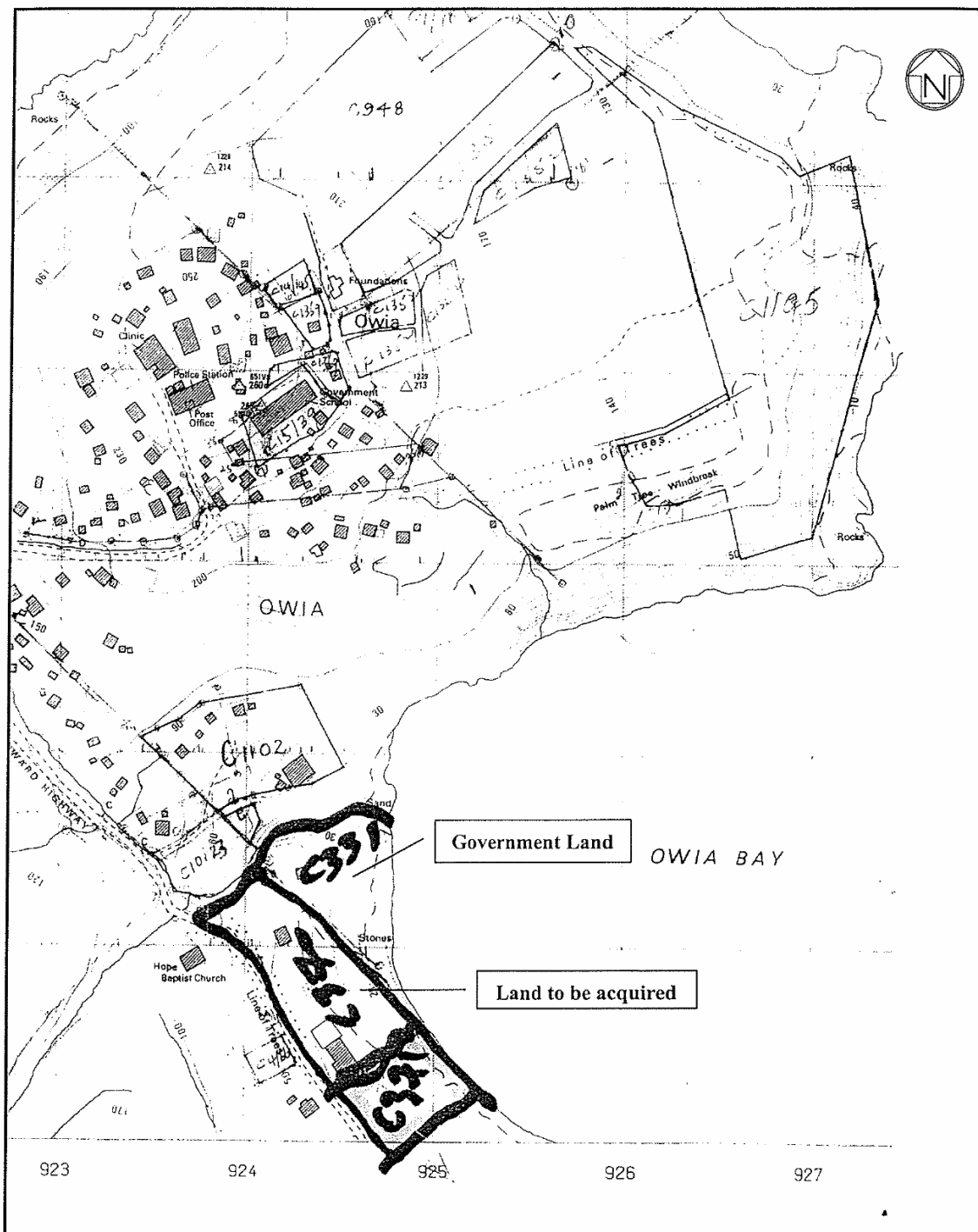
A : Necessary

B : Less necessary than "A"

C : Low necessary

T.B

*[Handwritten signature]*



Map of land to be Secured

73

MIUTES OF DISCUSSIONS  
THE BASIC STUDY  
ON  
THE PROJECT FOR  
OWIA FISH LANDING COMPLEX CONSTRUCTION  
IN  
SAINT VINCENT AND THE GRENADINES

Based on the results of the Preliminary Study, the Government of Japan decided to conduct a Basic Design Study on the Project for Owia Fish Landing Complex Construction (hereinafter referred to as "the Project") and entrusted the study to the Japan International Cooperation Agency (hereinafter referred to as "JICA").

JICA sent to Saint Vincent and the Grenadines (hereinafter referred to as "St. Vincent") the Basic Design Study Team (hereinafter referred to as "the Team"), which is headed by Mr. Tsutomu Shimizu, Chief of Rural Development Team, Project Management Group III, Grand Aid Management Department, JICA, and is scheduled to stay in the country from February 22, 2006 to March 19, 2006.

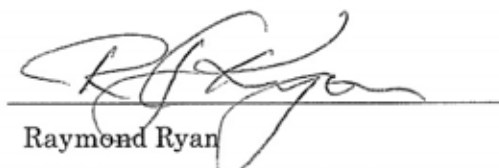
The Team held discussions with the officials concerned of the Government of St. Vincent and conducted a field survey at the study area.

In the course of discussions and field survey, both parties confirmed the items described on the attached sheets. The Team will proceed to further works and prepare the Basic Design Study Report.

Kingstown, March 17, 2006



Eiichi Matsuura  
Chief Consultant  
Basic Design Study Team  
Japan International Cooperation Agency



Raymond Ryan  
Chief Fisheries Officer (Ag.)  
Fisheries Division  
Ministry of Agriculture, Forestry & Fisheries

## ATTACHMENT

### 1. Relevant Issues

#### 1-1 Operation and Management of the Facilities

The Team explained the schematic ideas of the fishermen's cooperatives as the body of operation and management for the references. St. Vincent side submit the plan of establishment of the fishermen's cooperatives which is include procedure, schedule of establishment, organization structure, articles, and schedule of transfer. St. Vincent side also explained that the Fisheries Division in collaboration with National Fisheries Marketing Limited will operate the facilities before transfer to the fishermen's cooperatives. (See Annex-1)

#### 1-2 Land Acquisition

St. Vincent side explained that the meeting with the land-owners of the project site will held on March 20, 2006. The Team requested that the relevant certificates of land acquisition published by the concerned administrations be submitted to the Embassy of Japan in the Republic of Trinidad and Tobago at least by March 31, 2006.

#### 1-3 Resettlement of inhabitants

The Team explained that the results of field survey revealed that four families or more excluding the family of land-owner live on land at the project site. St. Vincent side was requested to take the necessary measures to obtain agreement for resettlement of inhabitants and/or compensation. The St. Vincent side is also requested to report the result to the Embassy of Japan in the Republic of Trinidad and Tobago at least by April 30, 2006.

### 2. Major Undertakings by St. Vincent side

#### 2-1 Temporary yard

The Team explained that the most suitable site for the temporary yard is the beach and adjoining land south of Layou Bay. St. Vincent side will examine the probabilities of preparing the beach and adjoining land as the temporary yard.



## **2-2 Site clearance of the project site**

St. Vincent side gave confirmation that the existing houses and trees will be removed from the project site before the commencement of construction works.

## **2-3 Electricity, water supply, telephone line to the project site**

The Team confirmed that it is easy to provide electricity, water supply and telephone line to the project site by the concerned officials and organizations. St. Vincent side shall provide electricity, water supply and telephone line to the project site.

## **3. Other relevant issues**

### **3-1 Road Improvement**

The Team confirmed that the schedule of the road improvement project from Georgetown to Fancy through Owia by discussion with Ministry of Transportation, Works and Housing. The Team requested drawings of detailed design at the project site for examination of set back. The officials of Ministry of Transportation, Works and Housing will provide the drawings of the improvement plan (Georgetown to Fancy) close to the project site by the request of the Team. St. Vincent side shall send the drawings provided to the head office of ECOH Corporation by FEDEX.

### **3-2. Soil Investigation**

Soil Investigation shall be executed by GEOTEC in the Republic of Trinidad and Tobago. The soil investigation will be executed from March 25, 2006 due to the delayed shipping of the bore hole rigs and barge by GEOTEC. The Team requests to take the photographs of working at the site and send it to the head office of ECOH Corporation.

### **3-3. Type of Ice Making Machine**

St. Vincent side requested that the flake ice will be produced for the Project. The Team accepted to examine the flake ice as the type of Ice Making Machine for the Project.



# Proposed Plan and Tentative Schedule for the Establishment of the North Windward Fishers' Cooperative

## 1.1. Geographical Area of Fishers' Cooperative

The geographical area of coverage is expected to be Owia, Fancy, and Sandy Bay. However, membership from other windward (east coast) communities such as Georgetown and Biabou could be accommodated.

## 1.2 Goal

To provide consistent opportunities, benefits and services to our members and the wider north windward community through the efficient management of resources.

## 1.3 Aim & Objective of New Fishers' Cooperative (Group will modify as necessary)

- To ensure available markets for members at the local, regional and international levels.
- To provide or facilitate training for members in the following areas:
  - (1) Cooperative Planning, management and development.
  - (2) Basic book keeping and business planning and management.
  - (3) Safety at sea and navigation.
  - (4) Gear and methods in particular, modern fishing techniques.
  - (5) Boat, engine and gear maintenance and repair.
  - (6) Customer service.
  - (7) Basic educational skills.
  - (8) Fish handling and processing.
- To provide or facilitate short and long term financial benefits for members and their families including:
  - (1) Pension schemes.
  - (2) Compulsory savings.
  - (3) Boat and life insurance.
  - (4) Scholarship fund.
  - (5) Rebate schemes
- To foster beneficial linkages with other stakeholder groups.
- To aid in the development of stakeholders and the community in general, socially, culturally, and economically.



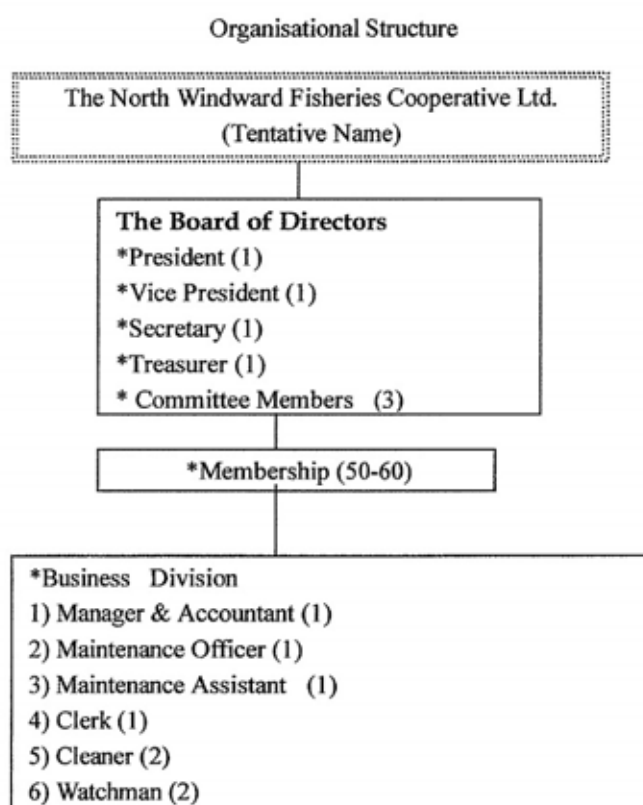
## 1.4 Estimated membership

The estimated membership is 50-60 individuals/stakeholders at the initial stage of establishment of the Fishers' Cooperative (refer to Figure 1). It is anticipated that membership will be comprised of boat owners, full-time and part-time fishermen and other stakeholders interested in the formation of a Fishers' Cooperative and the general development of North windward area. The aforementioned estimate total membership is based on a recent survey conducted by the Fisheries Division in collaboration with the Basic Design Team.

## 1.5 Name & Organization of Fishery Coop

Members who participate in future workshops convened for the purpose of establishing a Fishers' Cooperative will decide on the name and structure of organization. However, at this stage, the name and structure of the organization is proposed as follows.

Figure 1. Proposed Organisational Structure for the North Windward Fishers' Cooperative.



Remarks \* The Number of activities and staff will be decided by Business plan to be implemented after registration of the Cooperative.

## **1.6 Business of the North Windward Cooperative**

The Fishers' Cooperative will provide the following Services;

### **A. Economic Activities**

1. Fuel supply (LPG, Gas & diesel)
2. Lubricant sales.
3. Ice supply.
4. Fishing gear sales (Tackle shop operation).
5. Rental of lockers and retail stalls.
6. Cold storage.
7. Landing toll collection.
8. Employment opportunities.
9. Filling of SCUBA tanks (air compressor).
10. Fish purchase and sales.

### **B. Credit Schemes**

1. Credit for members (Fuel, gear, etc)

### **C. Social Activities**

1. Pension schemes.
2. Compulsory savings.
3. Boat and life insurance.
4. Scholarship fund.
5. Rebate schemes.
6. Training for members (Fishing technique & others).

## **1.7 Financial analysis (Financial scheme and balance sheet)**

The Cooperative will develop a systematic projection of the expected actions of management in the form of schedules, budgets and financial statements. In this process, past physical statistics, financial ratios, relationship and fund flow as well as expected economic conditions, policy decisions and future activities would be combined and arranged into a working plan for the desired period. *(This financial analysis will be included in the business plan to be developed by the cooperative. The initial capital outlay by members will have a bearing the financial analysis).*

## **1.8 Tentative Schedule of Establishment of Cooperative.**

It is anticipated that a new Fishers' Cooperative will be established by the following process and schedule. This schedule is designed to ensure that the Cooperative is established and

registered prior to the completion of Fishing Centre. However, if any difficulties are encountered which delays the establishment and registration of the Fishers' Cooperative, the Fisheries Division in collaboration with the Government owned Company, The National Fisheries marketing Limited (NFML) will manage the Owia Facility. The Fisheries Division and NFML will hand over the management of Fisheries Centre to the new fisher's cooperative following the completion of cooperative's registration.

**\*June ~ October 2006**

- Workshops held by Fisheries and Cooperative Divisions to provide guidance and training to fish-folk and other stakeholders in the formation of cooperatives.
- A Steering Committee & Business Planning Team selected.
- Business Planning team develop draft business plan.
- Steering Committee prepares draft byelaws.

**\* November 2006~June 2007**

- Establishment of Board of Directors (Election of president & board members).
- Business Plan discussed, finalised and approved by members.
- Business Plan submitted to cooperative for review.
- Byelaws discussed, finalised and approved by members.
- Byelaws submitted to Cooperative Division for review (Cooperative act).

**\*July-December.2007**

- Application form for registration along with byelaws and business plan submitted to Cooperative Division.
- Recruitment of staff.
- **Preparation of Tentative office or small store for further Business Training by Cooperative Division.**
- Start business on small scale (Pilot project) for on the job training by Cooperative Division.
- Refine Business plan with assistance from Fisheries Division and Cooperative Division.
- Submit application for registration to Cooperative Division.

**\*Jan-June 2008.**

- Approval of registration by Cooperative Division.
- Start of full-scale business operation according to business model (plan).

## A-4-2 In the Explain Mission of Draft Final Report

MINUTES OF DISCUSSIONS  
ON BASIC DESIGN STUDY ON  
THE PROJECT FOR OWIA FISH LANDING COMPLEX CONSTRUCTION  
IN SAINT VINCENT AND THE GRENADINES  
(EXPLANATION ON DRAFT REPORT)

In February 2006, the Japan International Cooperation Agency (hereinafter referred to as "JICA") dispatched a Basic Design Study Team on The Project for Owia Fish Landing Complex Construction (hereinafter referred to as "the Project") to Saint Vincent and the Grenadines (hereinafter referred to as "St. Vincent"), and through discussion, field survey, and technical examination of its results in Japan, JICA prepared a draft report of the study.

In order to explain and to consult St. Vincent on the components of the draft report, JICA sent to St. Vincent the Draft Report Explanation Team (hereinafter referred to as "the Team"), which is headed by Mr. Naoki Kamijo, Deputy Resident Representative, JICA Mexico Office, from 6<sup>th</sup> September 2006 to 13<sup>th</sup> September 2006.

As a result of discussions, both parties confirmed the main items described on the attached sheets.

Kingstown, 13<sup>th</sup> September, 2006

上條直樹

Mr. Naoki Kamijo  
Leader  
Draft Report Explanation Team  
Japan International Cooperation Agency  
(JICA)



Hon. Mr. Montgomery Daniel  
Minister  
Ministry of Agriculture, Forestry and Fisheries  
Saint Vincent and the Grenadines

## ATTACHMENT

### 1. Components of the Draft Report

The Government of St. Vincent agreed and accepted in principle the components of the draft report explained by the Team including obligations of the recipient country which are mentioned in Chapter 3 of the draft report.

### 2. Japan's Grant Aid scheme

St. Vincent side understands the Japan's Grant Aid Scheme and the necessary measures to be taken by the Government of St. Vincent as explained by the Team and described in Annex- 2 of the Minutes of Discussions signed by St. Vincent side and the Preliminary Study Team on 16<sup>th</sup> August, 2005.

### 3. Schedule of the Study

JICA will complete the final report in accordance with the confirmed items and send it to the Government of St. Vincent by November 2006.

### 4. Other relevant issues

#### (1) Land acquisition and Resettlement of Inhabitant

St. Vincent side promised to submit the approval of its Cabinet by 25<sup>th</sup> September 2006 to the Embassy of Japan in the Republic of Trinidad and Tobago. St. Vincent side also promised to complete the compensation by the end of October, 2006 and the resettlement of inhabitants by the end of December, 2006 and to report the result to the Embassy of Japan in the Republic of Trinidad and Tobago. Both side confirmed that site clearance should be completed (without any legal and physical encumbrances) before the commencement of the construction work, by the end of March, 2007.

#### (2) Operation and Management of the Facilities

Both sides confirmed the fishermen's cooperative will be established in order to operate and maintain the proposed facilities. St. Vincent side promised that Fisheries Division, Ministry of Agriculture, Forestry and Fisheries, in collaboration with the Cooperatives Division, Ministry of National Mobilization, Social Development and Local Government will facilitate the establishment of the cooperative as outlined in ANNEX I.

*N. R*

*M. J*

Both sides confirmed that Ministry of Agriculture, Forestry and Fisheries takes full responsibility for operating the facilities until the establishment of the fishermen's cooperative. The Fisheries Division together with Cooperatives Division, will continue to provide technical assistance to the fishermen's cooperative to facilitate the enhancement of its sustainable development.

St. Vincent side also promised to maintain and use equipment purchased under Grant Aid, especially cold storage, chilled storage and ice storage, effectively under proper management plan.

### (3) Planning Permission of the Project

St. Vincent side promised to take necessary measures to obtain planning permission from the Ministry of Housing, Informal Human Settlement, Land, Surveys and Physical Planning based on the draft report by 9<sup>th</sup> October, 2006. After obtaining the permission, St. Vincent side shall report to the Embassy of Japan in the Republic of Trinidad and Tobago by 13<sup>th</sup> October, 2006.

### (4) Road Improvement

St. Vincent side explained the progress of the road improvement project between Georgetown to Owia. St. Vincent side also confirmed the importance of smooth implementation of the Project and promised to keep in close collaboration with the contractor for the road improvement project.

### (5) Modification of the Floor Plan for the Fisheries Center Building

St. Vincent side strongly requested the modifications of the floor plan, outlined in Fig 2-3 (10) of the draft report. These modifications are as follows;

- 1) installation of vestibule space for the toilet, and
- 2) installation of hand wash basin in the fish handling area.
- 3) relocation of reception window of the ice sales to the corridor side from original

Such modifications are necessary to ensure good hygiene standards as outlined in ANNEX II. The Team will convey this request from St. Vincent side to JICA Headquarter.

### (6) Implementation Committee

Both sides agreed that a committee will be established to manage the smooth

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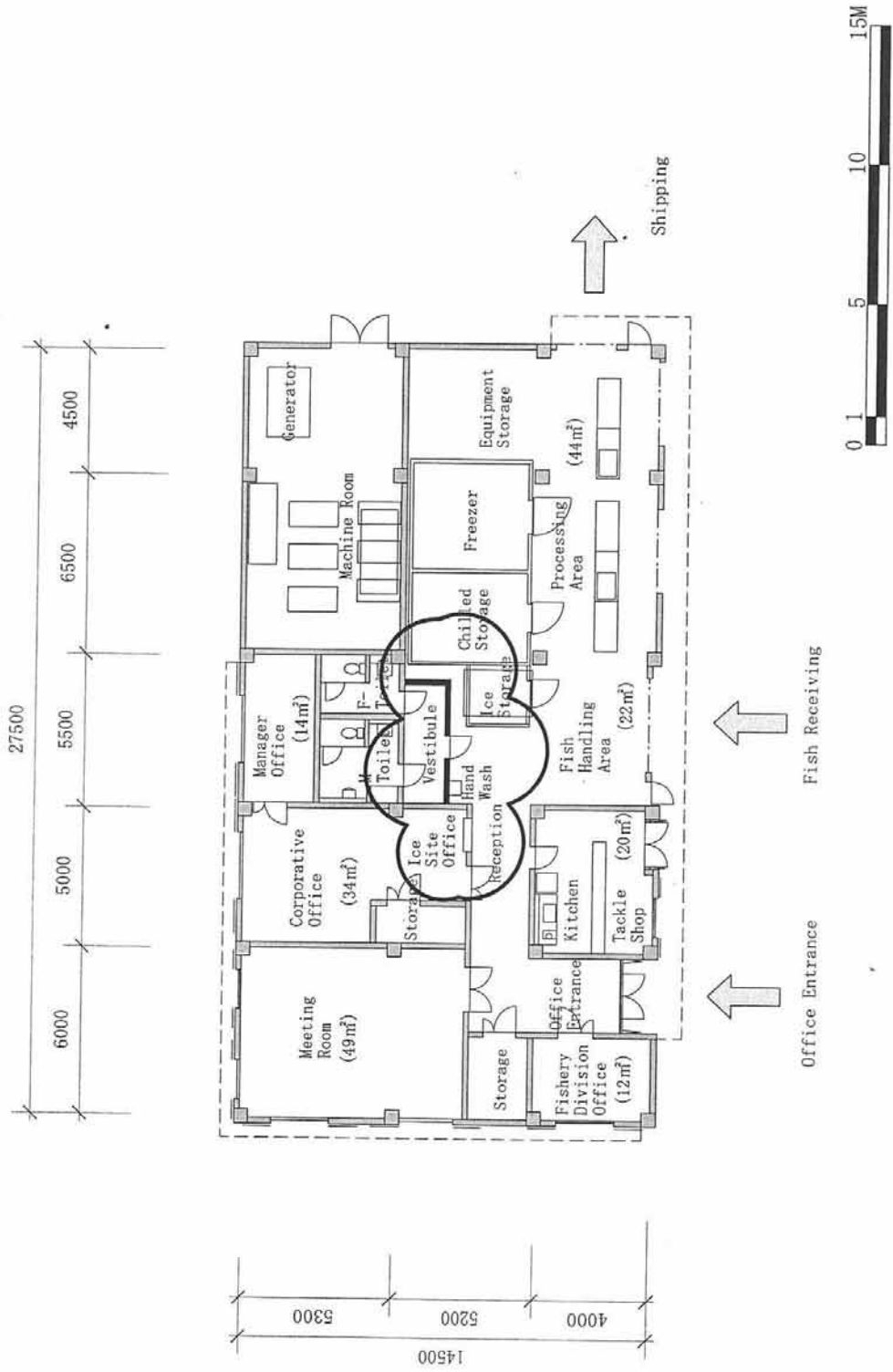


Fig. 2-3. (10) Floor Plan for the Fishery Center Building

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implementation of the Project. The committee may include representatives from Custom and Excise, Port Authority, Maritime Administration, St. Vincent Coast Guard Services, Ministry of Finance and Planning, Ministry of Transport and Works or any other necessary institutions.

(7) Control and monitoring of fish export

St. Vincent side will take necessary measures to control and monitor the export of the fish by trading vessels.

ANNEX I: Proposed Plan and Tentative Schedule for the Establishment of the North Windward Fisher's Cooperative

ANNEX II: Floor Plan for the Fisheries Center Building

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**Proposed Plan and Tentative Schedule for the Establishment of the North Windward  
Fisher's Cooperative**

**1.1 Geographical Area of Fishers' Cooperative**

The geographical area of coverage is expected to be Owia, Fancy and Sandy Bay. However, membership from other windward (east coast) communities such as Georgetown and Biabou could be accommodated.

**1.2 Goal**

To provide consistent opportunities, benefits and services to our members and the wider north windward community through the efficient management of resources.

**1.3 Aim & Objective of New Fishers' Cooperative (Group will modify as necessary)**

- To ensure available markets for members at the local, regional and international levels.
- To provide or facilitate training from members in the following areas:
  - (1) Cooperative Planning, management and development.
  - (2) Basic book keeping and business planning and management.
  - (3) Safety at sea and navigation.
  - (4) Gear and methods in particular, modern fishing techniques.
  - (5) Boat, engine and gear maintenance and repair.
  - (6) Customer service.
  - (7) Basic educational skills
  - (8) Fish handling and processing
- To provide or facilitate short and long term financial benefits for members and their families including:
  - (1) Pension schemes.
  - (2) Compulsory savings.
  - (3) Boat and life insurance.
  - (4) Scholarship fund.
  - (5) Rebate schemes.
- To foster beneficial linkages with other stakeholder groups.
- To aid in the development of stakeholders and the community in general, socially, culturally, and economically.

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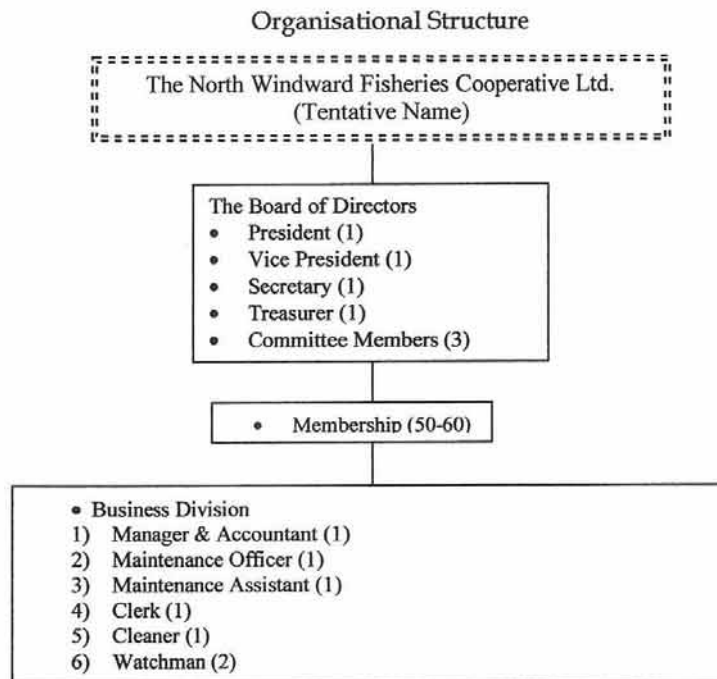
#### 1.4 Estimated membership

The estimated membership is 50-60 individuals/stakeholders at the initial stage of establishment of the Fishers' Cooperative (refer to Figure 1). It is anticipated that membership will be comprised of boat owners, full-time and part-time fishermen and other stakeholders interested in the formation of a Fishers' Cooperative and the general development of North Windward area. The aforementioned estimate total membership is based on a recent survey conducted by the Fisheries Division in collaboration with the Basic Design Team.

#### 1.5 Name & Organisation of Fishery Coop

Members who participate in future workshops convened for the purpose of establishing a Fishers' Cooperative will decide on the name and structure of organization. However, at this stage, the name and structure of the organization is proposed as follows:

Figure 1. Proposed Organisational Structure for the North Windward Fishers' Cooperative.



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Remarks \* The Number of activities and staff will be decided by Business plan to be implemented after registration of the Cooperative.

#### 1.6 Business of the North Windward Cooperative

The Fishers' Cooperative will provide the following services;

##### A. Economic Activities

1. Fuel supply (LPG, Gas & diesel)
2. Lubricant sales.
3. Ice supply.
4. Fishing gear sales (Tackle shop operation).
5. Rental of lockers and retail stalls.
6. Cold storage.
7. Landing toll collection.
8. Employment opportunities.
9. Filling of SCUBA tanks (air compressor).
10. Fish purchase and sales.

##### B. Credit Schemes

1. Credit for members (Fuel, gear, etc)

##### C. Social Activities

1. Pension schemes.
2. Compulsory savings.
3. Boat and life insurance.
4. Scholarship fund.
5. Rebate schemes.
6. Training for members (Fishing technique & others).

#### 1.7 Financial analysis (Financial scheme and balance sheet)

The Cooperative will develop a systematic projection of the expected actions of management in the form of schedules, budgets and financial statements. In this process, past physical statistics, financial ratios, relationship and fund flow as well as expected economic conditions, policy decisions and future activities would be combined and arranged into a working plan for the period. *(This financial analysis will be included in the business plan to be developed by the cooperative. The initial capital outlay by members will have a bearing the financial analysis).*

#### 1.8 Tentative Schedule of Establishment of Cooperative.

It is anticipated that a new Fishers' Cooperative will be established by the following process and schedule. This schedule is designed to ensure that the Cooperative is established and registered prior to the completion of Fishing Centre. However, if

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any difficulties are encountered which delays the establishment and registration of the Fishers' Cooperative, the Fisheries Division in collaboration with the Government owned Company, The National Fisheries Marketing Limited (NFML) will manage the Owia Facility. The Fisheries Division and NFML will hand over the management of Fisheries Centre to the new fisher's cooperative following the completion of cooperative's registration.

December 2006 – April 2007

- Workshops held by Fisheries and Cooperative Divisions to provide guidance and training to fish-folk and other stakeholders in the formation of cooperatives.
- A Steering Committee & Business Planning Team selected.
- Business Planning team develop draft business plan.
- Steering Committee prepares draft byelaws.

May – December 2007

- Establishment of Board of Directors (Election of president & board members).
- Business Plan discussed, finalized and approved by members.
- Business Plan submitted to cooperative for review.
- Byelaws discussed, finalized and approved by members.
- Byelaws submitted to Cooperative Division for review (Cooperative act).

January – June 2008

- Application prepared and submitted for registration along with byelaws and business plan submitted to Cooperative Division.
- Recruitment of staff
- **Preparation of Tentative office or small store for further Business Training by Cooperative Division.**
- Start business on small scale (Pilot project) for on the job training by Cooperative Division.
- Refine Business plan with assistance from Fisheries Division and Cooperative Division.

July – December 2008

- Approval of registration by Cooperative Division.
- Start of full-scale operation according to business model (plan).

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## Appendices – 5 Environmental and Social Considerations

### A-5-1 Need for Environmental Procedures

The Government of St. Vincent is currently in the process of developing environmental standards. According to the Ministry of Health and Environment, projects conducted by the Government do not need environmental assessment procedures such as IEE (initial environmental evaluation) and EIA (environmental impact assessment).

However, we conducted evaluation based on “JICA Social and Environmental Considerations Guidelines” and provided assistance to St. Vincent. We identified no major impacts associated with the implementation of this project.

The country has entered into the following international treaties related to environmental issues.

Vienna Convention for the Protection of the Ozone Layer

Montreal Protocol on Substances That Deplete the Ozone Layer

United Nations Framework Convention on Climate Change

International Convention Relating to Intervention on the High Seas in Cases of Oil Pollution Casualties

Convention on Civil Liability for Oil Pollution Damage

Protocol relating to Intervention on the High Seas in Cases of Pollution by Substances other than Oil

MARPOL 73/78: International Convention for the Prevention of Pollution from Ships

United Nations Convention on the Law of the Sea

International Convention for the Regulation of Whaling

United Nations Convention to Combat Desertification in Countries Experiencing Serious Drought

Convention Concerning the Protection of the World Cultural and Natural Heritage

Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and Their Disposal

### A-5-2 Result of Initial Environmental Evaluation (IEE)

In this project, we performed scoping in the process of IEE during the preliminary study. The result of scoping was as shown in Table A-5-2.(1), and concerns about negative effects on environment were identified with respect to (1) private “land expropriation” and “removal of vacant and disused houses” in the planning stage, as well as (2) “alteration of topography and geology” associated with the construction of on-shore structures and land reclamation and (3) restriction on entry of persons into parts of boulder beach during the construction of marine structures in the construction stage. Therefore, the environmental evaluation of this project based on JICA Environmental and Social Considerations Guidelines classified this project into “category B” indicating that moderate impacts are expected.

In view of this result, the present study plans to conduct environmental monitoring in the planning stage and to examine and incorporate mitigation measures in designing and building stages in relation to the environmental impacts that have been classified into category C (unknown).

**Table A-5-2.(1) Result of Scoping Matrix (IEE) Conducted During the Preliminary Study**

Environmental factor		Overall evaluation	Planning stage		During construction				Maintenance, operation & management				
			Land expropriation	Alteration of fisheries and land use	Coastal land reclamation	Coastal deforestation	Alteration of land due to work	Construction of on-shore facilities	Traffic of materials, equipment & vehicles	Drainage	Arrival & departure of vessels	Operation & management	Increase in traffic
Social environment													
3	Land use	<b>B</b>	<b>B</b>										
5	Transportation & living facilities	<b>C</b>	<b>C</b>	<b>C</b>				<b>C</b>				<b>C</b>	
9	Right of common	<b>C</b>		<b>C</b>									
10	Water right	<b>C</b>						<b>C</b>		<b>C</b>			
11	Health & hygiene	<b>C</b>							<b>C</b>			<b>C</b>	
Natural environment													
13	Topography & geology	<b>B</b>			<b>C</b>		<b>C</b>						<b>C</b>
14	Soil erosion	<b>C</b>			<b>C</b>				<b>C</b>				
17	Coast & sea area	<b>B</b>			<b>C</b>								
18	Wildlife	<b>C</b>											
Pollution													
23	Water pollution	<b>C</b>			<b>C</b>	<b>C</b>		<b>C</b>		<b>C</b>	<b>C</b>	<b>C</b>	
25	Wastes									<b>C</b>	<b>C</b>	<b>C</b>	
26	Noise & vibration	<b>C</b>								<b>C</b>	<b>C</b>	<b>C</b>	

Note 1) Classification of evaluation result

A: Serious impacts are expected.

B: Moderate impacts are expected.

C: Unknown (to be clarified in further progress of study).

NA: IEE or EIA is not required because expected impacts are minimal.

Note 2) [ Yellow ] indicates the environmental elements that were rated “B” in overall evaluation.

### **A-5-3 Monitoring in the Planning Stage**

#### **(1) Land Expropriation and Relocation of Inhabitants**

This environmental element refers to the impacts of private land expropriation, relocation of inhabitants, and removal of vacant houses and buildings associated with the construction of facilities. The evaluation in the planning stage was “B” for land use and “C” for transportation and living facilities. Based on this result, a monitoring survey was conducted in the present study.

##### **Land Use: “Evaluation: B (Preliminary Study)”**

As of March 2006, there were 4 households living on private land in the project site. Interviews with land owners to find out their opinions about this project indicate that they adequately know and understand the content and schedule of the project, and none of them expressed discontent or antipathy against land expropriation and relocation.

This information has been shared to the Fisheries Division, which is now in the process of confirming land demarcation and ownership through the Land and Survey Department in charge of land expropriation. In the execution of land expropriation, the Government will purchase land from land owners. Appropriate measures will be taken to promote the transfer of land titles ensuring understanding of inhabitants. The Fisheries Division will act in the following schedule.

End of March 2006: Discussion and negotiation with land owners.

End of April 2006: Obtaining letter of intent from land owners.

Before E/N in 2006: Transfer of land titles.

##### **Transportation and Living Facilities: “Evaluation: C (Preliminary Study)”**

Some of the land owners are using the land in the project site as second houses and have residences in different locations. As stated in above, sufficient understanding seems to have been obtained concerning land expropriation and relocation of inhabitants. Although there is a need for conducting monitoring until the time of the transfer of land titles, the impact of the project in this respect is considered minimal.

#### **(2) Alteration of Fisheries and Land Use**

The implementation of the project is intended for the use by the fishers in Owia, Sandy Bay, and Fancy areas. The evaluation in the planning stage addressed the impact on the existing fisheries in Owia Bay and the impact of land use alteration resulting from

relocatetion of existing fish landing facilities, and the result of evaluation was “C” with respect to living facilities and the right of common.

Based on this result, the present study surveyed the opinions of fishers involved concerning the implementation of the project. The stakeholder meeting (26 attendants) on September 2-2005 indicated that fishers have good understanding about the project. Reasons supporting their understanding include the facts that there are abundant fisheries in and around Owia Bay, the use of existing facilities for boat hauling involves much labor and danger, and the damage to fishing boats is considerable. Therefore, fishers using the facilities think that the positive impact of the project is larger than negative impact, and some of them are looking forward to upgrading from small wooden boats to large FRP boats. Consent has been obtained from 20 fishers in 3 target areas concerning the use of facilities after the implementation of the project.

Because of these reasons, the impact of the project concerning the alteration of fisheries and land use is considered minimal.

#### **A-5-4 Environmental Impacts during Construction**

##### **(1) Coastal Land Reclamation**

As mentioned in Natural Conditions in the previous chapter, flat areas are scarce around the project site, and there is a level difference of about 12 m between the road behind the site and the top edge of the wharf along the sea. For this reason, land reclamation to secure sufficient premises was requested as a component of the project. The preliminary study identified a concern about the environmental element related to the alteration of topography and geology, soil erosion, restriction on the use of the beach and sea area, and water pollution that may result from this land reclamation work, which were rated “C” close to B.

While the scale of land reclamation and site preparation will be minimized to address this concern, the following mitigation measures will be needed and must be considered in planning, designing, and construction.

##### **【Mitigation measures】**

###### **Considerations in planning and designing**

- Site preparation should be planned to avoid destruction of existing topographical features as much as possible, and care should be taken to prevent the flow of rain water and drainage to adjacent residential areas.
- Because boulders occurring along the beach are contributing to the stability of the coast line, land reclamation should be limited to the smallest scale needed for the project.
- The location of the slipway should be determined at the level of about –2 m, and the work should be planned so that there will be no need for dredging.



### **Considerations in construction**

- If dredging and seabed digging will be needed, the area receiving impact should be minimized by the use of silt fences.
- Whenever possible, temporary piers that will be needed for the work on the sea should be planned so that they will also constitute a part of permanent work. If such arrangement is impossible, temporary piers should be removed after construction and the recovery of the original state of the boulder beach should be ensured.

### **(2) Coastal Deforestation**

The several dozens of palm trees occurring in the project site are serving the function as a windbreak for existing houses. Because the palm trees are growing along the coast, the implementation of the project will inevitably involve some deforestation to secure the construction site and transportation routes on land and on the sea. The evaluation of “C” was given because of possible coastal water pollution resulting from construction work. However, because the project site and the shoreline will be protected by revetment, slipway, structures around the reclaimed land, etc., there will be no reason to expect coastal water pollution.

### **(3) Alteration of Land Due to Work**

The environmental element concerning the alteration of topography and geology was evaluated as “C” close to B, because of the concern about the alteration of land resulting from the construction of breakwater, slipway, and other marine structures along the existing boulder beach.

The boulders around the project site are very large, as the natural condition study revealed that the diameter of boulders near the shoreline is in the range from 50 cm to 70 cm. The grain size of sand on the seabed in front of the project site is about 0.3 mm, which is larger than that in typical calm coastal areas. The flow of water in sea areas shallower than 5 to 6 m is relatively slow. In addition, the boulders in front of the project site have algae growing on them. In view of these situations, the impact caused by the sedimentation of soil and movement of sand is considered minimal.

### **(4) Construction of On-shore Facilities**

The water pollution during the construction of on-shore facilities was evaluated as “C”, and there is a concern about the impact of the drainage during construction on existing private land.

To address this concern, the following considerations should be made as the measures to mitigate environmental impact during construction of on-shore facilities.

### **【Mitigation measures】**

- Land preparation work should be conducted so that the drainage related to construction will not flow into the adjacent private land located to the south of the project site.

#### **(5) Traffic of Materials, Equipment, and Vehicles**

An evaluation of “C” was given because impact on transportation and living facilities and water right (existing fishing activities) was expected to occur due to the use of the access road behind the project site by vehicles bringing materials and equipment and construction vehicles, as well as construction work on the sea and the access to project site from the sea.

The present study identified that the trunk road from Kingstown to the project site has a road improvement plan that will be completed by the end of 2007. This improvement work will not be completed when the road will be used in the construction phase of this project. Because this road bears an important role in the living of inhabitants, sufficient care should be taken regarding the operation of vehicles bringing materials and equipment and construction vehicles.

With respect to the access from the sea, the expanse of navigable water in Owia Bay is quite large (about 700 m x 500 m), and the impact on existing fishing activities is considered minimal.

Based on the above facts, the following mitigation measures should be considered in construction work.

#### **【Mitigation measures】**

- With respect to land transportation of materials and equipment, adequate information should be provided regarding the period of construction work and the time zones in which vehicles are operated.
- With respect to sea transportation of materials and equipment, work schedules should be planned with sufficient care for the safety of fishing activities.

### **A-5-5 Environmental Impacts during Maintenance and Operation**

#### **(1) Drainage**

An evaluation of “C” was given because of the possibility that disposal of water used in the processing of fish and fish wastes, as well as discharge of untreated waste water from toilets, may cause problems of hygiene, soil erosion, and water pollution. The information from the Ministry of Health and Environment obtained in the present study indicated that the country has no environmental standards regarding wastewater. Gray water is discharged untreated, and sewage is treated by infiltration into soil at locations at least 50 ft inland from the shoreline.

In this project, the impact on seawater is considered minimal, because the natural condition study showed that the water quality in Owia Bay is relatively good and wastewater infiltration will be used.

**(2) Arrival and Departure of Vessels**

An evaluation of “C” was given because of the concern about water pollution, soil erosion, noise, and vibration resulting from the crowding of fishing boats. In this project, the impact regarding the arrival and departure of vessels will be minimal, because the number of vessels using the facilities at the same time will be about 6 and dedicated wharfs will be provided for fish landing and preparation.

## Appendices – 6 Agreement to utilization of this Project

### Agreement to utilization of the New Fisheries Center in OWIA

We are very happy to hear that government will establish new fisheries facility in OWIA. We also pleased to utilize this facility and it believe to carry out us lot of benefit and to make opportunity for fisheries development and regional activity. Therefore we would like to agree here to toward to utilize OWIA Fisheries Centre when it will be realize

Name	Name of Boat	Registered No.	Location	Date	Signature
JEREMIAH YOUNG		J8-211-OW	OWIA	11/03/06	J Young
KENRICK NANTON	SUGAR	J8-184-OW	OWIA	11/03/06	K Nanton
RODNEY BALLANTYNE	LIVE UP	J8-177-OW	SANDY BAY	11/03/06	R Ballantyne
KENROY BALLANTYNE	RUSH	J8-190-OW	OWIA	11/03/06	K Ballantyne
WAIN NANTON	COMMANDO	J8-483-OW	OWIA	11/03/06	W. Nanton
DENNIS NANTON	-	-	OWIA	11/03/06	Dennis Nanton
ALRICK NANTON	STRUGGLERS	J8-189-OW	OWIA	11/03/06	A Nanton
ENOCH MICHAEL	TRIPLE-D	-	FANCY	12/03/06	E Michael
MATTHIAS SUTHERLAND	-	J8-187-OW	OWIA	12/03/06	M. Sutherland
OSWIN MCCOY	-	-	OWIA	12/03/06	O McCoy
BERESFORD NANTON	-	-	OWIA	15/03/06	B Nanton
COLLIN HUGGINS	-	-	OWIA	15/03/06	C Huggins
ENROY BAPTISTE	-	-	SANDY BAY	15/03/06	E Baptiste
FRANKY HENRY	PRAISE YE JAH	J8-500-SB	SANDY BAY	15/03/06	F. Henry
BERTRUM BAPTISTE	-	-	OWIA	15/03/06	B. Baptiste
KENDON RICHARDSON	-	-	OWIA	15/03/06	K Richardson
FITZ-GERALD CORDICE	CASSUM	J8-191-OW	OWIA	15/03/06	F Cordice
CASSEL KING	-	J8-404-FA	FANCY	16/03/06	C. King
MICHAEL BAPTISTE	-	-	OWIA	16/03/06	M. Baptiste
EVANS KING	-	J8-188-OW	OWIA	16/03/06	E King