

## Appendix

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Appendix 1. Member List of the Survey Team

(1) Field Survey

FUNCTION	NAME	ORGANIZATION
Team Leader	Mr. Atsuyoshi Toda	Development Specialist, Japan International Cooperation Agency (JICA)
Coordinator	Mr. Yasuaki Iwamoto	Grant Aid Div., Economic Co-operation Bureau Ministry of Foreign Affairs
Technical Advisor	Mr. Masahiro Akihama	Fishing Port Construction Div., Fishing Port Dept., Fisheries Agency
Chief Consultant cum Fishing Port Planner	Mr. Toshiya Ogasawara	Fisheries Engineering Co., Ltd.
Port Engineer cum Cost Estimator	Mr. Toshio Takeshima	Fisheries Engineering Co., Ltd.
Fishing & Fish Marketing Surveyor	Mr. Michio Torii	Fisheries Engineering Co., Ltd.
Natural & Environmental Condition Surveyor	Mr. Shoji Nagao	Fisheries Engineering Co., Ltd.

(2) Consultation of Draft Report

FUNCTION	NAME	ORGANIZATION
Team Leader	Mr. Atsuyoshi Toda	Development Specialist, Japan International Cooperation Agency (JICA)
Coordinator	Mr. Yasuaki Iwamoto	Grant Aid Div., Economic Co-operation Bureau Ministry of Foreign Affairs
Chief Consultant cum Fishing Port Planner	Mr. Toshiya Ogasawara	Fisheries Engineering Co., Ltd.
Port Engineer cum Cost Estimator	Mr. Toshio Takeshima	Fisheries Engineering Co., Ltd.

## Appendix 2. Survey Schedule

### (1) Field Survey

No.	DATE	DISCRIPTION		
1	March 15	(Mr. Toda ) Lv. Paris (AF490) →	(Other members) Lv. Tokyo (JL401) → Ar. London	(Mr. Takeshima)
2	16	Ar. Mache	Lv. London (BA063) →	Lv. Tokyo (JL401) →
3	17 (Mon.)		Ar. Mache	
		Courtesy call; Ministry of Foreign Affairs, Ministry of Agriculture and Marine Resources, Seychelles Fishing Authority		
4	18 (Tue.)	Discussion meeting with SFA; explanation of inception report, confirmation of requests, site		
5	19 (Wed.)	Discussion meeting with Ministry of Community Development and SFA		
6	20 (Thr.)	Discussion meeting with SFA; Drafting of Minutes of Discussion		
		( Toda, Iwamoto, Akihama )	( Ogasawara, Takeshima, Torii, Nagao)	
7	21 (Fri.)	Inspection of Ice Making Facility in Anse a la Mouche	Survey of situation of coastal fishing vessel, Discussion meeting with SFA	
8	22 (Sat.)	Survey of situation of coastal fishing vessel, Market survey, Information and data analysis		
9	23 (Sun.)	Inspection of Ice Making Facility and Survey of fishery in Praslon	Survey of situation of coastal fishing vessel, Discussion meeting with SFA	
10	24 (Mon.)	Survey of situation of coastal fishing vessel, Inspection of OFC, Signing of Minutes of Discussion		
11	25 (Tue.)	Lv. Mache (HM014) → Ar. Nairobi Visit to Embassy of Japan and JICA Lv. Nairobi (AF477)	Survey of situation of coastal fishing vessel, Discussion meeting with SFA, Preparation of Site survey	
12	26 (Wed.)	Ar. Paris	Survey of situation of coastal fishing vessel, Site Survey, Survey of construction, procurement, etc. Collection of fisheries data	
13	27 (Thr.)	Lv. Paris (JL406) →	Survey of construction, procurement, transportation etc., Survey of fishery Collection of fisheries information and data	
14	28 (Fri.)	Ar. Tokyo	Survey of fishery, Information and data analysis	
15	29 (Sat.)	Survey of fishery, Collection of fisheries information from SFA and OFC		
16	30 (Sun.)	Survey of fishery, Inspection of Ice Making Facility in Anse a la Mouche		
17	31 (Mon.)	Survey of fishery, Survey of construction, procurement, transportation etc., Discussion meeting with SFA		
18	Apr. 1 (Tue.)	Ditto. Topographic and hydrographic survey		
19	2 (Wed.)	Survey of fishery, Site & Infrastructure Survey, Fisheries interview survey ( Torii, Nagao ) Lv. Mache (AF491)		
20	3 (Thr.)	( Torii, Nagao ) Ar. Paris	Survey of fishery, Survey of construction, procurement, transportation etc. Preparation of Soil Condition survey, Collection of fisheries data	
21	4 (Fri.)	Lv. Paris (JL406) →	Ditto. Discussion meeting with SFA	
22	5 (Sat.)	Ar. Tokyo	Survey of fishery, Fisheries interview survey, Soil Condition survey	
23	6 (Sun.)	Survey of fishery, Fisheries interview survey, Soil Condition survey		
24	7 (Mon.)	Ditto. Survey of construction, procurement, transportation etc.		
25	8 (Tue.)	Survey of fishery, Fisheries interview survey, Lv. Mache (HM016) → Ar. Nairobi Visit and report to Embassy of Japan, JICA Lv. Nairobi (BA2068) →		
27	9 (Wed.)	Ar. London	Lv. London (JL402) →	
28	10 (Thr.)	Ar. Tokyo		

(2) Consultation of Draft Report

No.	DATE	DISCRIPTION
1	July 8 (Sun.)	Lv. Tokyo (JL401)→Ar. London (BA063)→
2	9 (Mon.)	Ar. Mache
3	10 (Tue.)	Discussion meeting with SFA; Drafting of Basic Study Report
4	11 (Wed.)	Discussion meeting with SFA
5	12 (Thr.)	Discussion meeting with SFA
6	13 (Fri.)	Discussion meeting with SFA; Drafting of Minutes of Discussion
7	14 (Sat.)	Information and data analysis
8	15 (Sun.)	Information and data analysis
9	16 (Mon.)	Signing of Minutes of Discussion
10	17 (Tue.)	Survey of fishery, Fisheries interview survey, Lv. Mache (HM014) → Ar. Nairobi      Visit and report to Embassy of Japan, JICA Lv. Nairobi (BA2068) →
11	18 (Wed.)	Ar. London    Lv. London (JL402) →
12	20 (Thr.)	Ar. Tokyo

### Appendix 3. List of Party Concerned in the Recipient Country

#### (1) Field Survey

<u>Name</u>	<u>Title / Organization</u>
Mr. Selby Pillay	Second Secretary, Ministry of Foreign Affairs, Planning and Environment
Miss Vivianne Fock-Tave	Economist, Ministry of Foreign Affairs, Planning and Environment
Mr. Finley J. Racombo	Principal Secretary, Ministry of Agriculture and Marine Resources
Mr. Philippe Michaud	Managing Director, Seychelles Fishing Authority
Mr. Joel Nageon de Lestang	Director Resource Management, Seychelles Fishing Authority
Mr. Clifford Toussaint	Fishing Port Manager, Seychelles Fishing Authority
Mr. Rondolph J. Payet	Fisheries Resource Manager, Seychelles Fishing Authority
Mr. Jeff Lablache	Assistant Port Manager, Seychelles Fishing Authority
Mr. Patrick Lablache	Advisor to the Minister, Ministry of Community Development
Mr. S. A. G. Andrade	Director General, Port and Marine Services Division, Ministry of Tourism and Transport
Capt. Gilbert E. Hoareau	Harbour master-Pilot, Port and Marine Services Division, Ministry of Tourism and Transport

(2) Consultation of Draft Report

Namu	Title / Organization
Mr. Finley J. Racombo	Principal Secretary, Ministry of Agriculture and Marine Resources
Mr. Philippe Michaud	Managing Director, Seychelles Fishing Authority
Mr. Joel Nageon de Lestang	Director Resource Management, Seychelles Fishing Authority
Mr. Clifford Toussaint	Fishing Port Manager, Seychelles Fishing Authority
Mr. Jeff Lablache	Assistant Port Manager, Seychelles Fishing Authority
Capt. Gilbert E. Hoareau	Harbour master-Pilot, Port and Marine Services Division, Ministry of Tourism and Transport
Mr. Selby Pillay	Second Secretary, Ministry of Foreign Affairs, Planning and Environment
Miss Vivianne Fock-Tave	Economist, Ministry of Foreign Affairs, Planning and Environment

**MINUTES OF DISCUSSIONS**

**BASIC DESIGN STUDY  
ON THE  
PROJECT FOR IMPROVEMENT OF ARTISANAL PORT  
FACILITIES IN THE REPUBLIC OF SEYCHELLES**

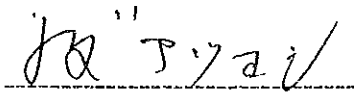
In response to a request from the Government of the Republic of Seychelles, the Government of Japan has decided to conduct a Basic Design Study on the Project for improvement of artisanal port facilities (hereinafter referred to as "the Project") and entrusted the study to the Japan International Cooperation Agency (JICA).

JICA sent to Seychelles a Basic Design Study Team headed by Mr Atsuyoshi TODA, Development Specialist, JICA. The study team is scheduled to stay in the country from 17th March to 8th April, 1997.

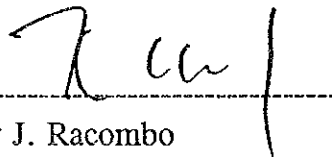
The study team held a series of discussions with the officials of the Government of Seychelles and conducted a field study.

In the course of discussions and field study, both sides have confirmed the main items described on the attached. The study team will proceed to further studies and prepare a Draft Report on the Basic Design of the Project.

Victoria, 24th March, 1997

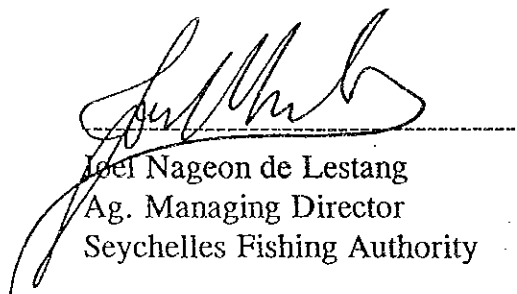


Atsuyoshi TODA  
Leader  
Basic Design Study Team  
JICA



Finley J. Racombo  
Principal Secretary  
Ministry of Agriculture & Marine Resource  
Government of the Republic of Seychelles

witness by



Joel Nageon de Lestang  
Ag. Managing Director  
Seychelles Fishing Authority

## ATTACHMENT

### 1. Objectives of the Project

The objective of the Project is to facilitate efficient and effective fish landing at the artisanal fishing port of Victoria.

### 2. Scope of the Project

The following components will be studied further by the Basic Design team.

- 1) Landing wharf and lay-by wharf for small-scale fishing vessels
- 2) One jetty
- 3) Resurfacing of the artisanal fish landing sites and access roads.
- 4) Fish Landing Shed

In addition the ice making plant and other items perceived to be necessary by the Study could be considered if the Seychelles Government complies with the Japanese Government Grant Aid policy and requirements (Ownership, Management and Operational).

### 3. Project Site

The Project site is the artisanal fishing port at Victoria, as shown in ANNEX I.

700'

### 4. Responsible & Executing Agencies

The Ministry of Agriculture and Marine Resources (MAMR) is the responsible agency and the Seychelles Fishing Authority (SFA) is the executing agency of the Project.

### 5. Management and Operation

SFA is responsible for the allocation of sufficient budget, assignment of necessary personnel and will take necessary measures to ensure proper operation and maintenance of facilities and equipment procured under the Project.





## **6. Japan's Grant Aid System**

- 1) GOS has understood the system of the Japan's Grant Aid explained by the Team; the main feature is described in ANNEX II.
- 2) GOS will take necessary measures, described in ANNEX III for smooth implementation of the Project if the Grant Aid by the Government of Japan is extended to the Project.

## **7. Further Schedule**

- 1) JICA Study Team will proceed to further studies in Seychelles until April 8, 1997.
- 2) On the basis of the Minutes of Discussions and technical examinations of the study results, JICA will prepare the Draft Basic Design and dispatch a team to Seychelles around June 1997 in order to present the outline of the Draft Basic Design.
- 3) Upon acceptance of the Draft Basic Design by GOS, JICA will complete the Basic Design Study Report, and forward it in its final form to GOS by September 1997.

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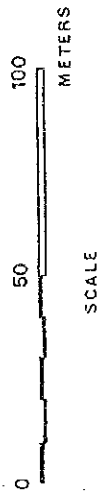
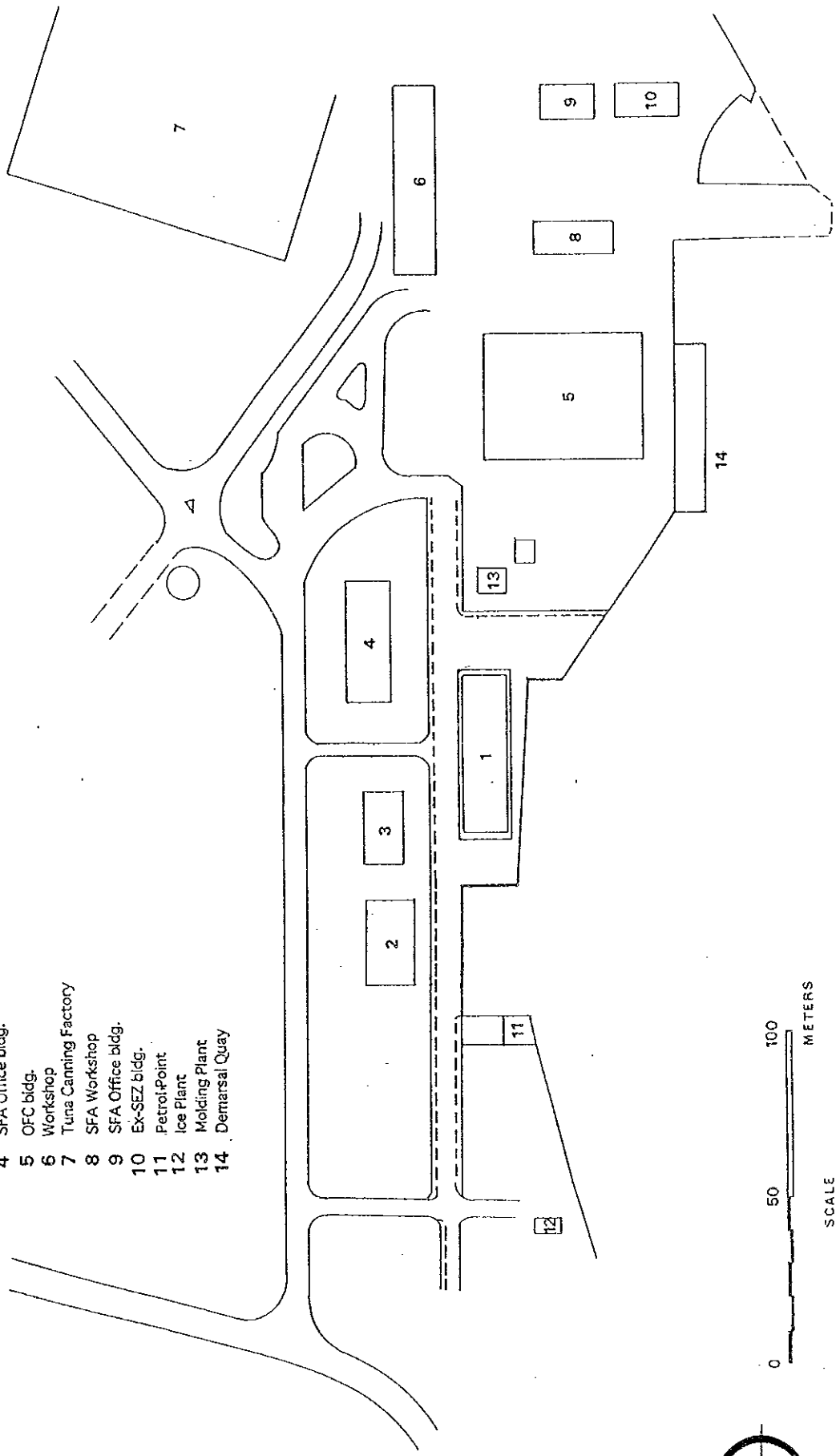
## **8. Participants in the Discussion**

List of participants involved in the discussion and other meetings are given in ANNEX IV.

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- 1 Multi-purpose bldg.
- 2 Service bldg.
- 3 Research bldg.
- 4 SFA Office bldg.
- 5 OFC bldg.
- 6 Workshop
- 7 Tuna Canning Factory
- 8 SFA Workshop
- 9 SFA Office bldg.
- 10 Ex-SEZ bldg.
- 11 Petrol Point
- 12 Ice Plant
- 13 Molding Plant
- 14 Demarsal Quay



## ANNEX II: JAPAN'S GRANT AID SCHEME

### 1. Grant Aid Procedure

- 1) Japan's Grant Aid Program is executed through the following procedures.

Application	(Request made by a recipient country)
Study	(Basic Design Study conducted by JICA)
Appraisal & Approval	(Appraisal by the Government of Japan and Approval by Cabinet)
Determination of Implementation	(The Notes exchanged between the Governments of Japan and the recipient country)
- 2) Firstly, the application or request for a Grant Aid project submitted by a recipient country is examined by the Government of Japan (the Ministry of Foreign Affairs) to determine whether or not it is eligible for Grant Aid. If the request is deemed appropriate, the Government of Japan assigns JICA to conduct a study on the request.

Secondly, JICA conducts the study (Basic Design Study), using Japanese consulting firms.

Thirdly, the Government of Japan appraises the project to see whether or not it is suitable for Japan's Grant Aid Program, based on the Basic Design Study report prepared by JICA, and the results are then submitted to the Cabinet for approval.

Fourthly, the project, once approved by the Cabinet, becomes official with the Exchange of Notes signed by the Governments of Japan and the recipient country.

Finally, for the implementation of the project, JICA assists the recipient country in such matters as preparing tenders, contracts and so on.

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### 2. Basic Design Study

#### 1) Contents of the Study

The aim of the Basic Design Study (hereinafter referred to as "the Study"), conducted by JICA on a requested project (hereinafter referred to as "the Project"), is to provide a basic document necessary for the appraisal of the Project by the Government of Japan. The contents of the Study are as follows:

- a) confirmation of the background, objectives and benefits of the Project and also institutional capacity of agencies concerned of the recipient country necessary for the Project's implementation;
- b) evaluation of the appropriateness of the Project to be implemented under the Grant Aid Scheme from the technical, social and economic points of view;
- c) confirmation of items agreed on by both parties concerning the basic concept of the Project;
- d) preparation of a basic design of the Project; and
- e) estimation of costs of the Project.

The contents of the original request are not necessarily approved in their initial form as the

contents of the Grant Aid project. The Basic Design of the Project is confirmed considering the guidelines of Japan's Grant Aid Scheme.

The Government of Japan requests the Government of the recipient country to take whatever measures are necessary to ensure its self-reliance in the implementation of the Project. Such measures must be guaranteed even through they may fall outside of the jurisdiction of the organization in the recipient country actually implementing the Project. Therefore, the implementation of the Project is confirmed by all relevant organizations of the recipient country through the Minutes of Discussions.

## 2) Selection of Consultants

For the smooth implementation of the Study, JICA uses a consulting firm selected through its own procedure (competitive proposal). The selected firm participates the Study and prepares a report based upon the terms of reference set by JICA.

At the beginning of implementation after the Exchange of Notes, for the services of the Detailed Design and Construction Supervision of the Project, JICA recommends the same consulting firm which participated in the Study to the recipient country, in order to maintain the technical consistency between the Basic Design and Detailed Design as well as to avoid any undue delay caused by the selection of a new consulting firm.

## 3. Japan's Grant Aid Scheme

### 1) What is Grant Aid?

The Grant Aid Program provides a recipient country with non-reimbursable funds to procure the facilities, equipment and services (engineering services and transportation of the products, etc.) for economic and social development of the country under principles in accordance with the relevant laws and regulations of Japan. Grant Aid is not supplied through the donation of materials as such. 70

### 2) Exchange of Notes (E/N)

Japan's Grant Aid is extended in accordance with the Notes exchanged by the two Governments concerned, in which the objectives of the project, period of execution, conditions and amount of the Grant Aid, etc., are confirmed.

### 3) "The period of the Grant" means the one fiscal year which the Cabinet approves the project for. Within the fiscal year, all procedure such as exchanging of the Notes, concluding contracts with consulting firms and contractors and final payment to them must be completed. However, in case of delays in delivery, installation or construction due to unforeseen factors such as weather, the period of the Grant Aid can be further extended for a maximum of one fiscal year at most by mutual agreement between the two Governments.

### 4) Under the Grant, in principle, Japanese products and services including transport or those of the recipient country are to be purchased.

When the two Governments deem it necessary, the Grant Aid may be used for the purchase of



the products or services of a third country.

However, the prime contractors, namely consulting, contracting and procurement firms, are limited to "Japanese nationals". (The term "Japanese nationals" means persons of Japanese nationality or Japanese corporations controlled by persons of Japanese nationality.)

5) Necessity of "Verification"

The Government of the recipient country or its designated authority will conclude contracts denominated in Japanese yen with Japanese nationals. Those contracts shall be verified by the Government of Japan. This "Verification" is deemed necessary to secure accountability of Japanese taxpayers.

6) Undertakings required to the Government of the recipient country

- a) to secure a lot of land necessary for the construction of the Project and to clear the site;
- b) to provide facilities for distribution of electricity, water supply and drainage and other incidental facilities outside the site;
- c) to ensure prompt unloading and customs clearance at ports of disembarkation in the recipient country and internal transportation therein of the products purchased under the Grant Aid;
- d) to exempt Japanese nationals from customs duties, internal taxes and fiscal levies which may be imposed in the recipient country with respect to the supply of the products and services under the verified contracts;
- e) to accord Japanese nationals whose services may be required in connection with the supply of the products and services under the verified contracts such as facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work;
- f) to ensure that the facilities constructed and products purchased under the Grant Aid be maintained and used properly and effectively for the Project; and
- g) to bear all the expenses, other than those covered by the Grant Aid, necessary for the Project.

7) "Proper Use"

The recipient country is required to maintain and use the facilities constructed and equipment purchased under the Grant Aid properly and effectively and to assign the necessary staff for operation and maintenance of them as well as to bear all the expenses other than those covered by the Grant Aid.

8) "Re-export"

The products purchased under the Grant Aid shall not be re-exported from the recipient country.

9) Banking Arrangement (B/A)

- a) The Government of the recipient country or its designated authority should open an account in the name of the Government of the recipient country in an authorized foreign exchange bank in Japan (hereinafter referred to as "the Bank"). The Government of Japan will execute the Grant Aid by making payments in Japanese yen to cover the

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obligations incurred by the Government of the recipient country or its designated authority under the verified contracts.

- b) The payments will be made when payment requests are presented by the Bank to the Government of Japan under an Authorization to Pay (A/P) issued by the Government of recipient country or its designated authority.

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### ANNEX III: UNDERTAKINGS BY THE GOS

1. to secure a lot of land necessary for the Project;
2. to clear and level the site for the Project prior to the commencement of the construction;
3. to provide a proper access road to the Project site;
4. to provide facilities for distribution of electricity, water supply, telephone trunk line and drainage and other incidental facilities outside the site;
5. to undertake incidental outdoor works, such as gardening, fencing, exterior lighting, and other incidental facilities in and around the Project site, if necessary;
6. to ensure prompt unloading and customs clearance of the products purchased under the Japan's Grant Aid at ports of disembarkation in Seychelles;
7. to exempt Japanese nationals from customs duties, internal taxes and fiscal levies which may be imposed in Seychelles with respect to the supply of the products and services under the verified contracts;
8. to accord Japanese nationals whose services may be required in connection with the supply of the products and services under the verified contracts such facilities as may be necessary for their entry into Seychelles and stay therein for the performance of their work;
9. to bear commissions, namely advising commissions of an Authorization to Pay (A/P) and payment commissions, to the Japanese foreign exchange bank for the banking services based upon the Banking Arrangement (B/A);
10. to provide necessary permissions, licenses, and other authorization for implementing the Project, if necessary;
11. to ensure that the facilities constructed and equipment purchased under the Japan's Grant Aid be maintained and used properly and effectively for the Project; and
12. to bear all the expenses, other than those covered by the Japan's Grant Aid, necessary for the Project.

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## ANNEX IV

### List of Participants

#### Japanese Team Members

Mr Atsuyoshi TODA  
Leader of Study Team  
Development Specialist  
Japan International Cooperation Agency

Mr Yasuaki IWAMOTO  
Coordinator of Team  
Grant Aid Division  
Economic Cooperation Bureau  
Ministry of Foreign Affairs

Mr Masahiro AKIHAMA  
Technical Advisor to the Team  
Fishing Port Construction Division  
Fishing Port Department, Fisheries Agency

Mr Toshiya OGASAWARA  
Chief Consultant and Fish Port Planner  
Fisheries Engineering Co. Ltd

Mr Toshio TAKESHIMA  
Port Engineer and Cost Estimator  
Fisheries Engineering Co. Ltd

Mr Michio TORII  
Fishing and Fish Marketing Surveyor  
Fisheries Engineering Co. Ltd

Mr Shoji NAGAO  
Natural and Environmental Condition  
Surveyor  
Fisheries Engineering Co. Ltd

#### Seychelles Team Members

Mr Finley J. Racombo  
Principal Secretary  
Ministry of Agriculture & Marine Resources

Mr Joel Nageon de Lestang  
Ag. Managing Director  
Seychelles Fishing Authority

Mr Clifford Toussaint  
Fishing Port Manager  
Seychelles Fishing Authority

Mr Rondolph Payet  
Resource Manager  
Seychelles Fishing Authority

Mr Jeff Lablache  
Assistant Port Manager  
Seychelles Fishing Authority

Mr Patrick Lablache  
Advisor to the Minister  
Ministry of Community Development

Mr S.A.G. Andrade  
Director General  
Port & Marine Services Division  
Ministry of Tourism & Transport

Capt. Gilbert E. Hoareau  
Harbour Master - Pilot  
Port & Marine Services Division  
Ministry of Tourism & Transport

Mr Selby Pillay  
Second Secretary  
Ministry of Foreign Affairs Planning &  
Environment

Miss Vivianne Fock-Tave  
Economist  
Ministry of Foreign Affairs Planning &  
Environment

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## MINUTES OF DISCUSSIONS

### BASIC DESIGN STUDY

ON

### THE PROJECT FOR IMPROVEMENT OF ARTISANAL PORT FACILITIES IN THE REPUBLIC OF SEYCHELLES

In March 1997, the Japan International Cooperation Agency (JICA) dispatched the Basic Design Study Team on the Project for improvement of artisanal port facilities (hereafter referred to as "the Project") to Seychelles. After the assessment of the data and information obtained through the study, JICA prepared a draft report on the basic design of the Project.

In order to explain and consult the Government of Seychelles on the draft basic design, JICA sent to Seychelles the Study Team headed by Mr. Atsuyoshi Toda, Development Specialist, JICA. The team stayed in the country from June 9 to 16, 1997.

As a result of the discussions, both sides reached an agreement on the main items of the Project described in the draft report. One of such items was the project components which are given below.

#### (1) Dock Facilities (Landing/Mooring/Fueling)

Total length:	169 m
Minimum Water depth:	2 to 2.5 m (depending upon location)
Provision of pipeline trench at fueling dock:	15 m

#### (2) Other Facilities

##### 1) Open Shed

Dimension: 5.0 m x 30.0 m

##### 2) Processing Counter

Dimension: 1.5 m x 3.0 m

Equipment: primary treatment unit (1 set)

##### 3) Pavement in the plan area

Road: asphalt pavement

Apron: interlocking concrete block

#### (3) Electricity, Water and Drainage

##### 1) Electrical Supply

Equipment: exterior lighting poles

##### 2) Water Supply and Drainage

Equipment: water supply and drainage equipment

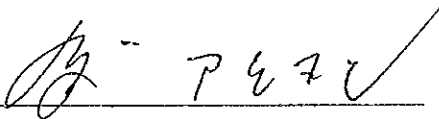
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While agreeing on the main items, the Seychelles side requested the Study Team to further refine the draft basic design in several points. Responding to the requests, the Japanese side agreed to incorporate the following in the future design work:


- (1) Careful examination of the location of the processing counter, taking into account the desirability of locating it closer to the open shed, while minimizing any negative impact on fish landing and transporting operations
- (2) Installment of two standard-size fire hydrants, each covering 50 m radius area
- (3) Allowance for the future installment of metering devices in designing the electricity and water supply lines
- (4) Application of an appropriate construction method to protect the fueling facility during the construction phase
- (5) Consideration of raising the presently designed crown level of 2.4 m by about 4 inches in order to meet the possible effect of the sea level rise
- (6) Concept of tilting the apron for water drainage
- (7) Consideration of the provision of a mobile pump for cleaning the apron and a submerged electrical portable pump for emergency.

On the basis of the results of the discussions, the study on the basic design will further proceed and its final report will be sent to the Government of Seychelles by September, 1997.

Victoria, 16th June, 1997



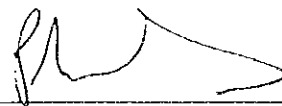
Atsuyoshi Toda  
Leader  
Basic Design Study Team  
JICA



Finley J. Racombo  
Principal Secretary  
Ministry of Agriculture and Marine Resources  
Government of the Republic of Seychelles

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witness by



Philip Michaud  
Managing Director  
Seychelles Fishing Authority

**ATTACHMENT**

**LIST OF PARTICIPANTS IN THE DISCUSSIONS**

**Japanese Side**

Mr. Atsuyoshi Toda  
Development Specialist,  
Japan International Cooperation Agency

Mr. Yasuaki Iwamoto  
Grant Aid Division, Economic Co-operation  
Bureau, Ministry of Foreign Affairs

Mr. Toshiya Ogasawara  
Fisheries Engineering Co., Ltd.

Mr. Toshio Takeshima  
Fisheries Engineering Co., Ltd.

**Seychelles Side**

Mr. Finley J. Racombo  
Principal Secretary, Ministry of Agriculture  
and Marine Resources

Mr. Philippe Michaud  
Managing Director, Seychelles Fishing  
Authority

Mr. Joel Nageon de Lestang  
Director Resource Management, Seychelles  
Fishing Authority

Mr. Clifford Toussaint  
Fishing Port Manager, Seychelles Fishing  
Authority

Mr. Jeff Lablache  
Assistant Port Manager, Seychelles Fishing  
Authority

Capt. Gilbert E. Hoareau  
Harbor Master-Pilot, Port and Marine  
Services Division, Ministry of Tourism and  
Transport

Mr. Selby Pillay  
Second Secretary, Ministry of Foreign  
Affairs, Planning and Environment

Ms Vivianne Fock-Tave  
Economist, Ministry of Foreign Affairs,  
Planning and Environment

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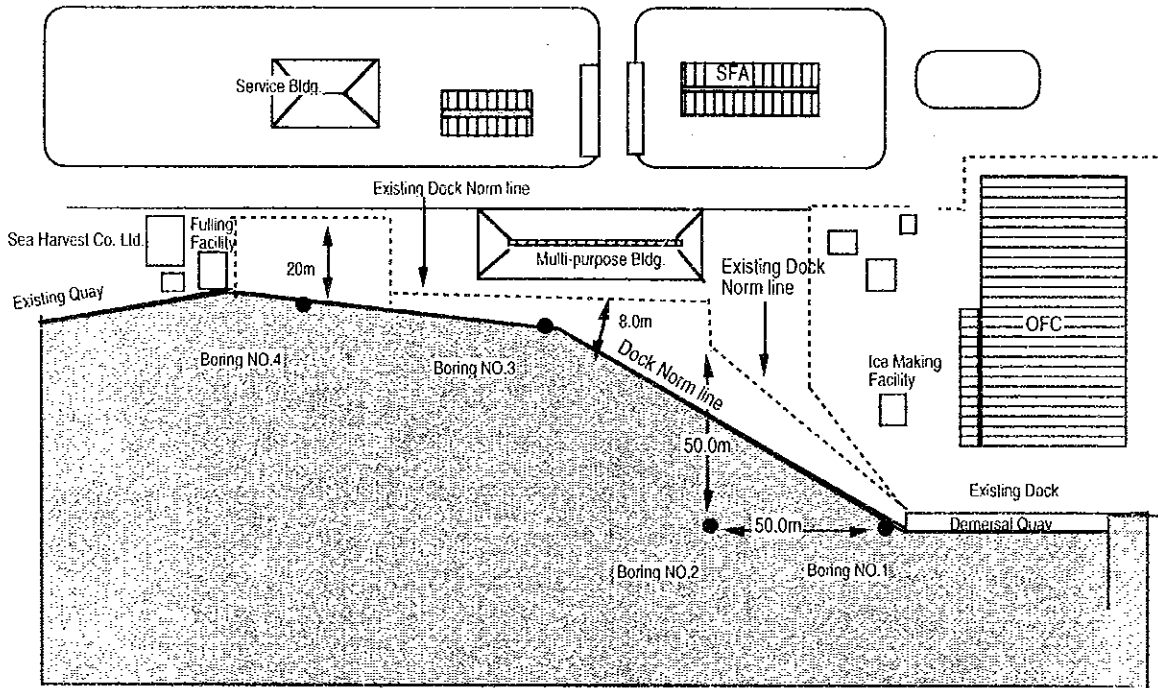
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Appendix 5. Other Relevant Data

5-1 Quantities of Oil Sold from January to March 1997 (Unit; Litter)

	January 1997			February 1997			March 1997		
	Day	Quantities	No. of sold	Day	Quantities	No. of sold	Day	Quantities	No. of sold
1st week	1								
	2								
	3								
	4	Saturday		1			1		
	5	Sunday		2			2		
	6			3	2,333	13	3	1,200	10
	7	1,000	8	4	1,374	13	4	1,732	10
	8	1,000	9	5			5	1,664	11
	9			6	1,925	13	6	2,167	15
	10	1,775	13	7	841	20	7		
	11			8			8		
	12			9			9		
	sub total		30	sub total		59	sub total		46
	Av./day		4.29	Av./day		8.43	Av./day		6.57
2nd week	13			10			10	1,833	10
	14			11	1,490	11	11	2,163	12
	15	1,397	7	12	1,086	9	12	951	5
	16			13			13	383	4
	17			14	1,247	9	14	300	4
	18			15			15		
	19			16			16		
		sub total		7	sub total		29	sub total	
	Av./day		1.00	Av./day		4.14	Av./day		5.00
3rd week	20	3,396	19	17	2,000	10	17	2,287	13
	21	1,104	10	18	1,671	9	18	3,282	10
	22			19	2,416	10	19	996	6
	23	941	9	20	601	5	20	1,000	7
	24	1,500	12	21	600	4	21	2,002	9
	25			22			22		
	26			23			23		
		sub total		50	sub total		38	sub total	
	Av./day		7.14	Av./day		5.43	Av./day		6.43
4th week	27	1,051	10	24	480	5	24	1,278	10
	28	1,080	7	25	1,486	12	25	1,568	8
	29	1,200	6	26	1,636	13	26	1,366	5
	30	908	5	27	1,210	9	27	4,198	23
	31	1,000	5	28			28	2,205	
							29		
							30		
		sub total		33	sub total		39	sub total	
	Av./day		4.71	Av./day		5.57	Av./day		6.57
5th week							31	2,205	11
	Total	17,352	257	合計	22,396	354	合計	34,780	380
	Av./day	1,335	19.78	Av./day	1,317	22.10	Av./day	2,046	19.98
	Av./Hr	67.48		Av./Hr	59.6162		Av./Hr	102	

## 5-2 Boring Log



Boring Points

**BOREHOLE LOG**    **BHI**    Sheet 1

**Department of Civil Engineering**

Job No. : 1  
 Site Name : Fishing Facilities in Seychelles

Easting		Start date	05/04/97
Northing		End date	09/04/97
Ground level	-2.04 m	Backfill date	/ /
Final depth	29.70 m	Logged by	

Progress				Samples & Testing				Strata			
Date	Hole	Casing	Water	Depths		Type	S(spt) C(cpt)	Legend	Depth (Thickness)	Level	Strata Descriptions
				From	To						
							S(8)				Light brownish grey, coral fragments and shells of variable shape. Presence of fine coral SAND from 0 to 0.2m
							S(1)	(3.70)			
							S(5)				Loose, light yellowish, sandy SILT of medium plasticity. Trace of some coarse SAND.
							S(7)	3.70	-5.74		
							S(4)				
							S(15)				
							S(10)	(7.30)			
							S(11)				
							S(11)				Loose light grey greyish white SAND
							S(13)	11.00	-13.04		
								(2.70)			

Diameters			General remarks	Type of Sample
Depth	Hole	Casing		
				U2 - 50mm dia. undisturbed sample U3 - 75mm dia. undisturbed sample DIS - disturbed sample BD - bulk disturbed sample U+ - Sample not obtained

# Department of Civil Engineering

Job No. : 1

Site Name : Fishing Facilities in Seychelles

## BOREHOLE LOG BHI Sheet 2

Easting		Start date	05/04/97
Northing		End date	09/04/97
Ground level	-2.04	Backfill date	/ /
Final depth	29.70	Logged by	

Progress				Samples & Testing					Strata			Picometers
Date	Hole	Casing	Water	Depths		Type	S(spt) C(cpt)	Legend	Depth (Thickness)	Level	Strata Descriptions	
				From	To							
							S (7)		13.70 (1.30)	-15.74	Loose, light greyish yellow silty SAND of intermediate plasticity.	
							S (8)		15.00	-17.04	Loose, yellowish brown clayey SAND of intermediate plasticity. Traces of coral fragments	
							S (8)		(3.70)			
							S (11)					
							S (14)					
							S (15)		(6.22)			
							S (21)					
							S (31)					
							S (55)		24.92	-26.96	Yellowish brown, completely to highly weathered, coarsed grained fragmented GRANITE	
Diameters				General remarks								
Depth	Hole	Casing										
Type of Sample												
U2 - 50mm dia. undisturbed sample												
U3 - 75mm dia. undisturbed sample												
DIS - disturbed sample												
BD - bulk disturbed sample												
U+ - Sample not obtained												

# Department of Civil Engineering

## BOREHOLE LOG BH1 Sheet3

Job No. : 1

Site Name : Fishing Facilities in Seychelles

Easting		Start date	05/04/97
Northing		End date	09/04/97
Ground level	-2.04	Backfill date	/ /
Final depth	29.70	Logged by	

Progress				Samples & Testing				Strata				Piezometers
Date	Hole	Casing	Water	Depths		Type	S(spt) C(cpt)	Legend	Depth (Thickness)	Level	Strata Descriptions	
				From	To							
											Brown, fresh, slightly fractured, coarse grained GRANITE	
									(4.78)			
									29.70	-31.74	End of Borehole	
Diameters			General remarks									Type of Sample
Depth	Hole	Casing										
												U2 - 50mm dia. undisturbed sample U3 - 75mm dia. undisturbed sample DIS - disturbed sample BD - bulk disturbed sample U+ - Sample not obtained



# Department of Civil Engineering

Job No. : 1  
 Site Name : Fishing Facilities in Seychelles

## BOREHOLE LOG BH2 Sheet 1

Easting		Start date	20/04/97
Northing		End date	22/04/97
Ground level	-7.80 m	Backfill date	/ /
Final depth	22.00 m	Logged by	

Progress				Samples & Testing					Strata			Piezometers	
Date	Hole	Casing	Water	Depths		Type	S(spt) C(cpt)	Legend	Depth (Thickness)	Level	Strata Descriptions		
				From	To								
											Very loose, light grey, silty SAND		
							S(1)	(2.00)	2.00	-9.80			
							S(1)	(2.10)			Very loose, grey silty CLAY of low plasticity		
							S(10)	(4.10)		-11.90			
							S(13)	(0.60)		-12.50	Loose, medium grained, greyish white, SAND. Traces of coral fragments		
							S(2)	(5.30)			Very loose, light grey, marine silty CLAY of low plasticity.		
							S(3)						
							S(5)						
							S(9)	(10.00)		-17.80			
							S(12)	(1.40)			Loose, grey, medium grained, SAND with traces of coral fragments		
							S(6)			-19.20			
							S(5)				Soft, light grey, marine CLAY of high plasticity.		
Diameters				General remarks									Type of Sample
Depth	Hole	Casing											
													U2 - 50mm dia. undisturbed sample U3 - 75mm dia. undisturbed sample DIS - disturbed sample BD - bulk disturbed sample U+ - Sample not obtained

# Department of Civil Engineering

## BOREHOLE LOG BH2 Sheet 2

Job No. : 1  
 Site Name : Fishing Facilities in Seychelles

Easting		Start date	20/04/97
Northing		End date	22/04/97
Ground level	-7.80	Backfill date	/ /
Final depth	22.00	Logged by	

Progress				Samples & Testing				Strata			
Date	Hole	Casing	Water	Depths		Type	S(spt) C(cpt)	Legend	Depth (Thickness)	Level	Strata Descriptions
				From	To						
									(2.90)		
							S(9)				
									14.30	-22.10	Stiff, dark brownish grey, marine CLAY of high plasticity
							S(21)				
							S(11)		(3.70)		
							S(19)				
							S(16)		18.00	-25.80	Very stiff, dark grey, marine CLAY
							S(21)		(2.45)		
							S(94)				
									20.45	-28.25	Light brown, moderately weathered, medium grained, fractured GRANITE
									(1.55)		
									22.00	-29.80	End of Borehole
Diameters			General remarks								
Depth	Hole	Casing									
			Type of Sample U2 - 50mm dia. undisturbed sample U3 - 75mm dia. undisturbed sample DIS - disturbed sample BD - bulk disturbed sample U+ - Sample not obtained								



# Department of Civil Engineering

## BOREHOLE LOG BH4 Sheet 1

Job No. : 1  
 Site Name : Fishing Facilities in Seychelles

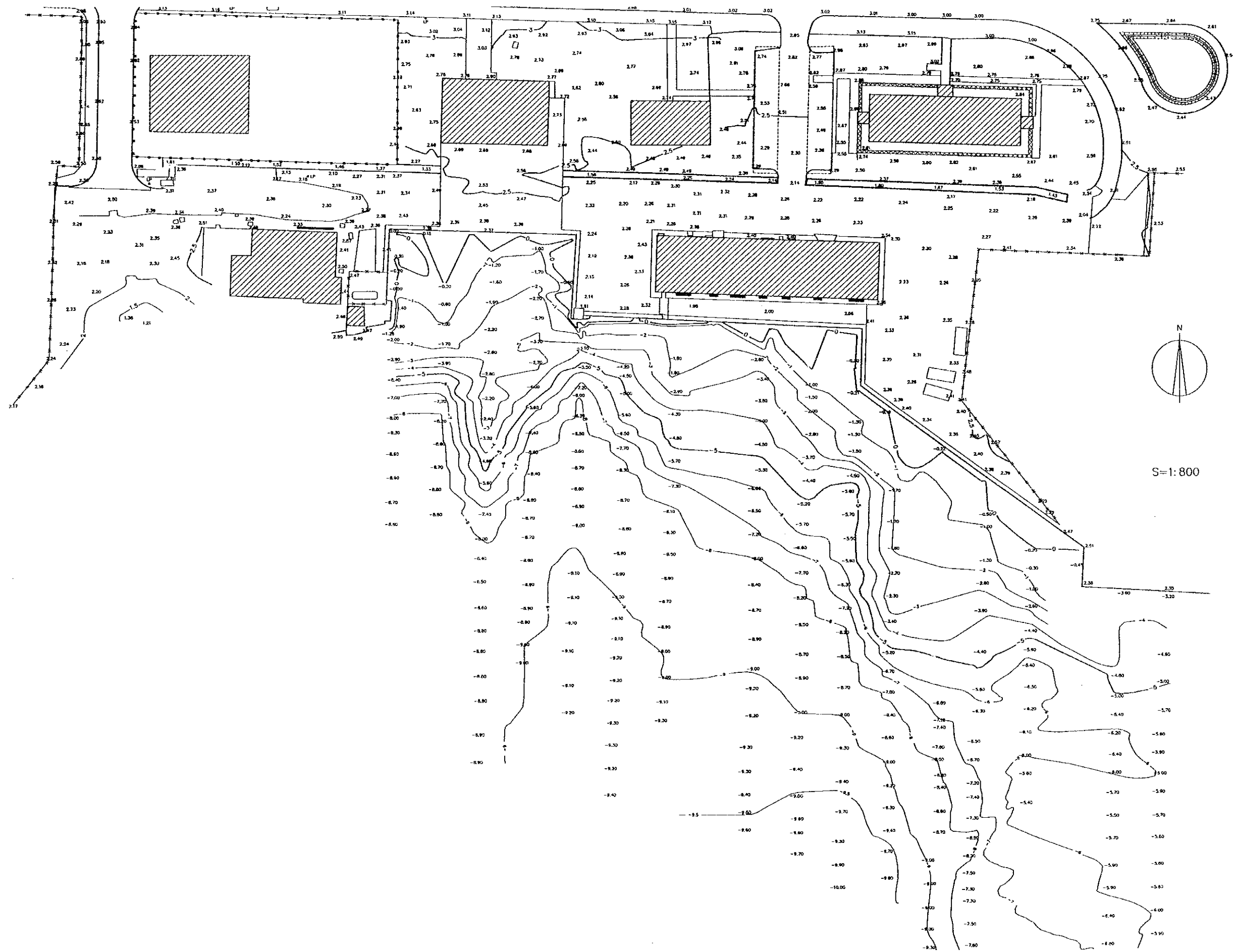
Easting		Start date	17/04/97
Northing		End date	17/04/97
Ground level	-1.35 m	Backfill date	/ /
Final depth	10.00 m	Logged by	

Progress				Samples & Testing				Strata				
Date	Hole	Casing	Water	Depths		Type	S(spt) C(cpt)	Legend	Depth (Thickness)	Level	Strata Descriptions	Pezometers
				From	To							
							S(11)		(1.70)		Dense coral fragments	
							S(2)		1.70	-3.05	Loose light grey coarse SAND with some coral fragments	
							S(9)		(3.40)			
							S(13)					
							S(21)		5.10	-6.45	Dense light grey coarse SAND with coral fragments.	
							S(16)					
							S(18)		(4.20)			
							S(4)					
							S(3)		9.30	-10.65	Loose grey silty SAND with coral fragments	
									(0.70)			
									10.00	-11.35	End of Borehole	

Diameters			General remarks	Type of Sample
Depth	Hole	Casing		
				U2 - 50mm dia. undisturbed sample U3 - 75mm dia. undisturbed sample DIS - disturbed sample BD - bulk disturbed sample U+ - Sample not obtained

5-3 Topographic and Hydrographic Chart













JICA