

フィリピン共和国  
ワニ養殖研究所プロジェクト  
実施協議調査団報告書

昭和62年2月

国際協力事業団

鋳開技

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## はじめに

フィリピン政府はワニ養殖事業により地域住民に対する社会経済的福利の向上を図るとともに、自然のワニの乱獲の防止を目的として「ワニ養殖研究所」設立を計画し、日本政府にプロジェクト方式技術協力を要請してきた。

同要請を受けて、日本政府は国際協力事業団を通じ、昭和58年11月に事前調査団を、また昭和61年8月に長期調査員を派遣し、要請の背景、要請内容及び研究所の設立構想につきフィリピン側から事情を聴取するとともに、ワニの生息調査を行なった。

今般、上記調査の報告を踏まえ、本件協力実施に係る具体的事項につきフィリピン側関係機関と協議を行ない、これを討議議事録(Record of Discussions)としてとりまとめ、フィリピン側との間で署名・交換を行うことを目的として実施協議チームを昭和61年11月18日から11月29日までフィリピン共和国に派遣した。

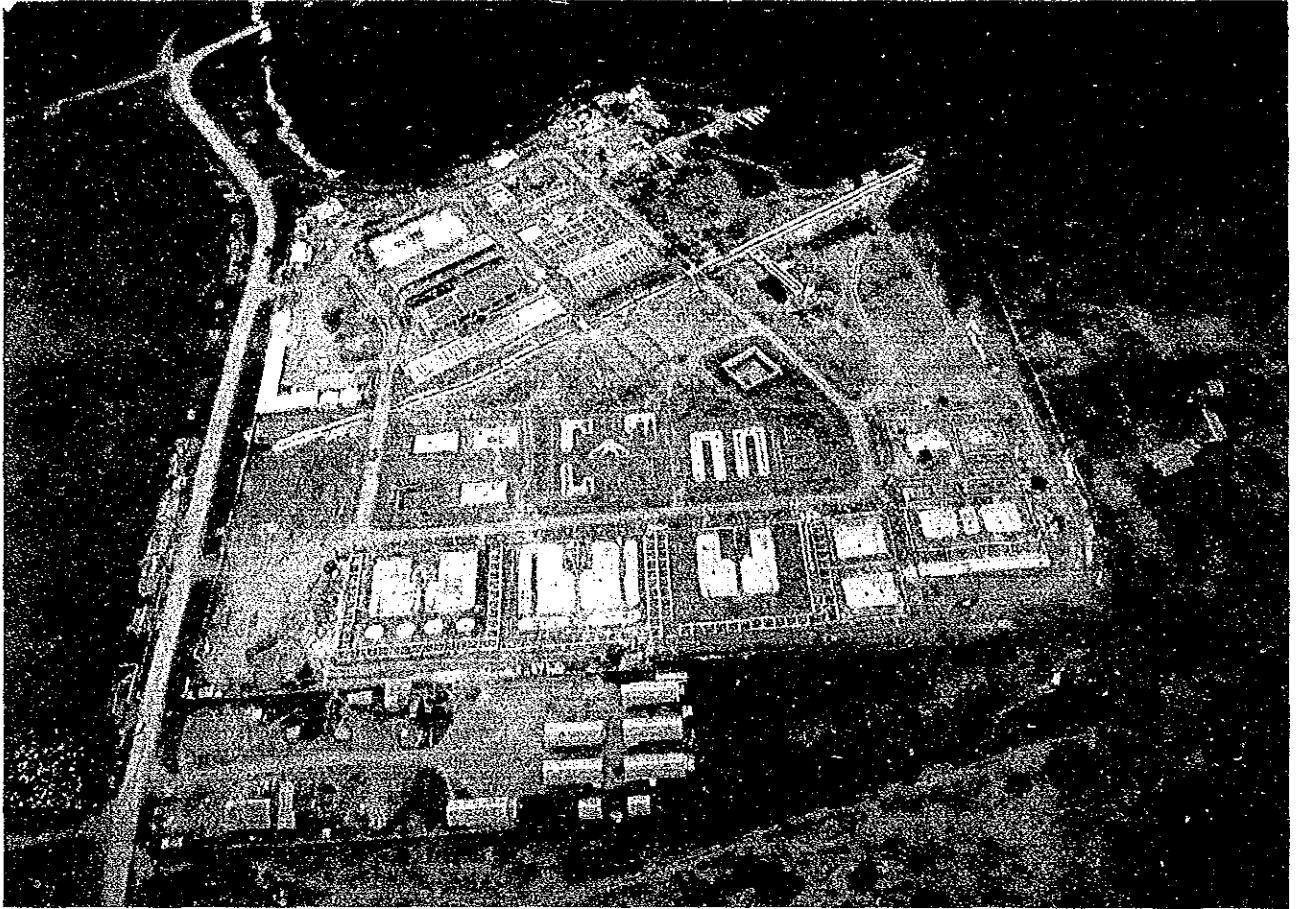
本報告書は、実施協議チームが行なって協議内容と結果をとりまとめたものである。

ここに本チームの派遣に際し、御協力いただいた日・比両国の関係各位に対し、深甚なる謝意を表する次第である。

昭和63年8月

国際協力事業団  
理事 古閑俊彦





フィリピン・ワニ養殖研究所プロジェクトサイト









## 1. 実施協議調査団派遣

### 1-1 調査団派遣の経緯と目的

フィリピン政府は、ワニ養殖事業を興すことにより、地域住民に収入の糧を与え、社会的・経済的福利を図るとともに、輸出向けワニを供給して自然のワニの乱獲防止を図りたいとして、わが国に対し、「ワニ養殖研究所プロジェクト」への協力を要請してきた。

上記要請を受けて、わが国は昭和58年11月、要請内容の詳細を聴取すると共に、本プロジェクトの進め方につき意見交換を行ない、実地調査を実施することを目的として事前調査を行なった結果、プロジェクトサイトをパラワン島プエルトプリンセサ市インヒグ地区とし、研究所の組織としては天然資源省、森林開発局の下に位置づけられ、人員は約80名程度の規模とすること、また親ワニは200頭を確保すること等につき日比双方で合意した。一方無償資金協力による研究所施設の建設も昭和62年2月を目途に開始され、順調に推移してきた。昭和61年2月新政権誕生後天然資源省の幹部の交代があり、本プロジェクト関係者も大巾に交代した。また、比政府機関の再編成により当初実施機関であった森林開発局に代り、天然資源省外国援助プロジェクト管理室が直接事業を実施するとの情報もたらされた。他方フィリピンを取巻く経済環境は一段と悪化しつつあり、本プロジェクト実施にも少なからぬ影を落としている。

かかる状況の下、本調査団は専門家派遣、機材供与、研修員受入れ、親ワニの確保を含むローカルコスト、専門家の処遇等日比双方のとるべき措置、協力期間等につき協議を行ない、討議事録(Record of Discussions - R/D)を締結することを目的に派遣された。

### 1-2 調査団の構成

団長、総括	飯村圭司	国際協力事業団鉦工業開発 協力部開発技術課長
協力計画	宇田川則夫	通産省生活産業局文化用品課
協力政策	永田和博	外務省経済協力局技術協力課
企画運営	村田隆一	国際協力事業団鉦工業開発 協力部開発技術課課長代理
養殖	倉田洋二	国際協力事業団鉦工業開発 協力部特別嘱託
生態・動態	斉京昭	全日本爬虫類皮革産業連合会 専務理事
業務調整	関洋一	国際協力事業団鉦工業開発 協力部付

1-3 調査日程

昭和61年11月18日～11月29日

日順	月日	曜日	行 程		
1	11/18	火	①②東京 → マニラ		①②移動 日本大使館, JICAとの打合せ
2	19	水	① マニラ→ プエルトプリンセサ	② マニラ	①②天然資源省との協議 ①建設現場視察
3	20	木	①プエルトプリンセサ	② マニラ→セグ→ スリガオ	①市場調査 ②天然資源省スリガオ事務所との打合せ
4	21	金	①プエルトプリンセサ	②スリガオ	①生活環境調査 ②ワニ生息調査
5	22	土	①プエルトプリンセサ	②スリガオ→ カガヤンデオロ	① " ② "
6	23	日	①プエルトプリンセサ →マニラ	②カガヤンデオロ →マニラ	①②移動
7	24	月	①マニラ	②マニラ→ プエルトプリンセサ	①天然資源省との協議 ②建設現場視察
8	25	火	①マニラ	②プエルトプリンセサ →マニラ	①天然資源省との協議 ②移動
9	26	水	①② マニラ		①② 天然資源省との協議
10	27	木	①② マニラ		①② "
11	28	金	①② マニラ		①② R / D署名
12	29	土	①② マニラ → 東京		①② 帰 国

① 飯村, 永田, 倉田, 関

② 齊京, 宇田川, 村田

なお, ②グループのうち村田は24日から協議のため在マニラ, 従って24日～25日  
プエルトプリンセサ行きは齊京及び宇田川のみ

主要面談者

フィリピン側

- ① Dante.P.Sarraga 天然資源副大臣
- ② Briccio Tamparong, Jr ワニ養殖研究所長
- ③ Teodulo Ragudo ワニ養殖研究副所長
- ④ Sandra Benito 外国援助プロジェクト管理課長



## 2. 討議議事録の交渉経緯

### 2-1 交渉経緯

2-1-1 実施協議チームは11月18日マニラ到着以来、プロジェクトサイトであるパラワン島ブエルトプリンセサ及びフィリピンにおける主たるワニ生息地であるミンダナオ島スリガオ並びにカガヤンデオロ等の現地調査を行い、フィリピン側と本件プロジェクトに対する技術協力に係る協議を重ねてきたが日本側が提示したRecord of Discussion（議事録）の線に沿って合意するとともに付帯的な討議事項についてMinutes of Meetings（会議録）を作成した。

本R/D及びM/Mの署名はフィリピン側署名者であるサラガ副大臣の都合により、とりあえず、27日、飯村団長とタンパロン副大臣補佐官（ワニ養殖研究所の所長に内定）との間で署名を行ない、後日同副大臣とJICA宮本所長との間で署名を行なった上で両国政府に提出することとした。

2-1-2 R/D協議における主な議題は「比」側負担事項及びプロジェクトの管理であった。まず「比」側負担事項について「比」側はR/D付属文書第5条1項中の(3)「JICAにより供与される機材を除くプロジェクト実施に必要な資機材の提供及び更新」、(4)「日本人専門家の「比」国内出張に要する輸送手段及び旅費並びに(5)日本人専門家及びその家族に対する住宅提供」を取り上げ、悪化する政府の財政事情により、実施困難であり、可能であれば右事項の削除を希望する旨発言があった。

これに対し、日本側は、本件に限らずプロジェクト方式技術協力はドナー国による技術移転後においては受益国自身により技術的自立を計ることが目的であり、プロジェクトの開始当初からドナー国及び受益国双方による応分の負担が原則である。他方R/Dが定型化されていることもあり、「比」国における他のプロジェクト及び他の開発途上国に対する影響を考慮すれば削除は不可能であると説明したうえ上記3項目のうち「比」側からの特に強い削除希望のあった(5)につき次のようにコメントした。

天然資源省の他のJICA関連プロジェクト並びに他省におけるプロジェクトにおいても住宅の確保は専門家自身が行っており「比」側からの住宅提供はないと理解している。従って本項目は実情と必ずしも一致していないが日本側としてはこれを精神的規程ととらえており、本項目の存在が「比」側を絶対的に拘束するものではないとした。

次に第5条2項プロジェクト運営等に係る資金について「比」側は政府資金の支出には限界があるため、運営資金プールのための機構を設立し、「比」国内の民間資金を調達するとともにJICA及び日本の民間からの資金援助を要請した。日本側は本要請については現行制度になじまないことを理由に承諾できないと回答した。

プロジェクトの管理については従来森林開発局が担当していたが天然資源省の機構改革

により計画担当副大臣の下で外国援助プロジェクト管理室（Foreign Assisted Project Management Office - FAPMO）が担当することとなった。

THE RECORD OF DISCUSSIONS  
BETWEEN THE JAPANESE IMPLEMENTATION SURVEY TEAM  
AND THE AUTHORITIES CONCERNED OF THE GOVERNMENT  
OF THE REPUBLIC OF THE PHILIPPINES  
ON THE JAPANESE TECHNICAL COOPERATION OF THE PROJECT  
ON THE ESTABLISHMENT OF CROCODILE FARMING INSTITUTE  
OF THE MINISTRY OF NATURAL RESOURCES

The Japanese Implementation Survey team (hereinafter referred to as "The Team") organized by the Japan International Cooperation Agency (hereinafter referred to as "JICA") and headed by Mr. Keiji Iimura, Head of Technical Cooperation Division, Mining and Industry Development Cooperation Department, JICA, visited the Republic of the Philippines from 18th November 1986 to 29th November 1986 for the purpose of working out the details of the Technical Cooperation Programme concerning the project on the establishment of a Crocodile Farming Institute of the Ministry of Natural Resources.

During its stay in the Republic of the Philippines, the Team exchanged views and had a series of discussions with the Philippine authorities concerned with respect to the desirable measures to be taken by both governments for the successful implementation of the above-mentioned project.

As a result of the discussions, the Team and the Philippine authorities concerned agreed to recommend to their respective governments the document attached hereto.

Done in Manila, Philippines on 1 December 1986.

飯村 圭司

MR. KEIJI IIMURA  
Head  
Japanese Implementation Survey Team  
Japan International Cooperation  
Agency (JICA), Japan

HON. DANTE P. SARRAGA  
Deputy Minister  
Ministry of Natural Resources  
The Republic of the Philippines

WITNESS:

HON. MORIYA MIYAMOTO  
Resident Representative  
Japan International Cooperation  
Agency (JICA) in the Philippines

MR. BRICCIO S. TAMPARONG, JR.  
Director  
RP-Japan Crocodile Farming  
Institute Project



## THE ATTACHED DOCUMENT

### I COOPERATION BETWEEN BOTH GOVERNMENTS

1. The Government of Japan and the Government of the Republic of the Philippines will cooperate with each other in implementing the project on the establishment of the Crocodile Farming Institute of the Ministry of Natural Resources (hereinafter referred to as the "The Project") for the purpose of providing research and practical training, extending technical advisory service to conduct research and development work in the field of crocodile farming thereby contributing to the conservation of wild crocodiles and promotion of socio-economic well being of Rural Communities.
2. The project will be implemented in accordance with the Master Plan which is given in Annex I.

### II DISPATCH OF JAPANESE EXPERTS

1. In accordance with the laws and regulations in force in Japan, the Government of Japan will take necessary measures through JICA to provide at its own expense the services of the Japanese experts as listed in Annex II through the normal procedures under the Colombo Plan Technical Cooperation Scheme.
2. The Japanese experts referred to in II-1 above and their families, will be granted in the Republic of the Philippines the privileges, exemptions and benefits as listed in Annex III and will be granted privileges, exemptions and benefits no less favourable than those granted to experts of third countries.

### III PROVISION OF MACHINERY AND EQUIPMENT

1. In accordance with laws and regulations in force in Japan, the Government of Japan will take necessary measures through JICA to provide at its own expense such machinery, equipment and other materials necessary for the implementation of the Project as listed in Annex IV through the normal procedures under Colombo Plan Technical Cooperation Scheme.
2. The articles referred to in III-1 above will become the property of the Government of the Republic of the Philippines upon being delivered C.I.F. to the Philippine authorities concerned at the ports and/or airports of disembarkation, and will be utilized exclusively for the implementation of the Project in consultation with the Japanese experts referred to in Annex II.

#### IV. TRAINING OF PHILIPPINE PERSONNEL IN JAPAN

1. In accordance with the laws and regulations in force in Japan, the Government of Japan will take necessary measures through JICA to receive at its own expense the Philippine personnel connected with the Project for technical training in Japan as listed in Annex V through the normal procedures under the Colombo Plan Technical Cooperation Scheme.
2. The Government of the Republic of the Philippines will take necessary measures to ensure that the knowledge and experience acquired by the Philippine personnel from technical training in Japan will be utilized effectively for the implementation of the Project.

#### V. MEASURES TO BE TAKEN BY THE GOVERNMENT OF THE REPUBLIC OF THE PHILIPPINES

1. In accordance with laws and regulations in force in the Republic of the Philippines, the Government of the Republic of the Philippines will take necessary measures to provide at its own expense:
  - (1) Services of the Philippine counterpart personnel and administrative personnel as listed in Annex VI;
  - (2) Land, buildings and facilities as listed in Annex VII;
  - (3) Supply or replacement of machinery, equipment, instrument, vehicles, tools, spare parts and any other materials necessary for the implementation of the project other than those provided through JICA under III.1 above;
  - (4) Transportation facilities and travel allowance for the Japanese experts for the official travel within the Republic of the Philippines;
  - (5) Suitably furnished accommodation for the Japanese experts and their families.

2. In accordance with laws and regulations in force in the Republic of the Philippines, the Government of the Republic of the Philippines will take necessary measures to meet:

- (1) Expenses necessary for the transportation of the Equipment within the Republic of the Philippines of the articles referred to in III.1 above as well as for the installation, operation and maintenance thereof;
- (2) Customs duties, internal taxes and any other charges, imposed in the Republic of the Philippines on the articles referred to in III.1 above;
- (3) All running expenses necessary for the implementation of the Project.

## VI ADMINISTRATION OF THE PROJECT

1. The Minister of Natural Resources will nominate the Deputy Minister who will bear overall responsibility for the implementation of the Project and the Director of the Crocodile Farming Institute (hereinafter referred to as "The CFI") nominated by the Minister of Natural Resources will be responsible for the administrative and managerial matters of the implementation of the Project.
2. The Japanese Chief Advisor and other experts will give recommendations and advice to the Institute Director and the Managers of the Respective Departments on technical matters concerning the implementation of the project.
3. For the effective and successful implementation of the Project, an Annual Work plan shall be prepared by the Institute, together with FAPMO, & the Japanese experts. A Joint Committee (hereinafter referred to as the "Committee") will be organized with members as listed in Annex VIII. The committee will approve the Annual plan and prepare necessary measures to solve questions on policy matters relating to the implementation of the Project.

## VII CLAIMS AGAINST JAPANESE EXPERTS

The Government of the Republic of the Philippines undertakes to bear claims, if any arises, against the Japanese experts engaged in the Project resulting from, occurring in the course of, or otherwise connected with the Philippines except for those arising from the willful misconduct or gross negligence of the Japanese experts.

## VIII MUTUAL CONSULTATION

There will be mutual consultation between the two Governments on any major issues arising from, or in connection with this Document.

## IX TERMS OF COOPERATION

The duration of the Technical Cooperation for the Project under this Attached Document will be five (5) years to take effect on December 1, 1985.

## ANNEX I.

### MASTER PLAN

#### 1. General Objective

The objective of the Project is to establish a Crocodile Farming Institute for the development and promotion of crocodile farming technology thus contribute to the conservation of wild crocodiles and the socio-economic well-being of rural communities.

#### 2. Objectives of Technical Cooperation

- a. To conduct research and development work in the field of crocodile farming;
- b. To train counterpart personnel concerned on crocodile farming technology; and
- c. To make a basic program of dissemination of crocodile farming and conservation.

#### 3. Implementation of the Technical Cooperation

The Government of Japan will cooperate with the Government of the Republic of the Philippines in carrying out the Project through dispatch of Japanese experts, acceptance of Philippine personnel for training in Japan and provision of equipment, according to the annual implementation schedule to be agreed upon.

#### 4. Cooperative Activities Under the Project

- a. Population dynamics and ecology of wild crocodiles
  - 1) Identification of species
  - 2) Relation between distribution of crocodiles and environmental characteristics of their habitats
  - 3) Life history
  - 4) Feeding habit
  - 5) Behavior
  - 6) Population dynamics of crocodiles
- b. Conservation of wild crocodiles
- c. Basic physiology of crocodiles

- d. Prevention and treatment of disease
  - 1) Symptoms
  - 2) Cause of disease
  - 3) Treatment and prevention
- e. Breeding technology
  - 1) Maturation factors
  - 2) Optimum conditions for mating
  - 3) Optimum conditions for egg-laying, development of eggs and hatching
  - 4) Control of sex ratio
- f. Rearing technology
  - 1) Optimum environmental condition
  - 2) Feeding efficiency
  - 3) Rearing management
  - 4) Breeding study
  - 5) Dissemination of farming technology
- g. Essential nutrients for crocodiles
- h. Digestion and absorption rate of feed
- i. Selection of feed
- j. Development of compound feed.

ANNEX II.

JAPANESE EXPERTS

Experts in the fields of:

1. Breeding
2. Rearing in Captivity
3. Biochemistry
4. Pathology and Biology
5. Coordinator

Footnote:

- (1) One of the above-mentioned experts will be appointed as the Chief Advisor.
- (2) Short-term experts will be dispatched, when necessity arises.

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ANNEX III.

PRIVILEGES, EXEMPTIONS AND BENEFITS

The Philippine Government shall provide the following privileges, exemptions and benefits, provided however, that such should be under the existing laws, rules and regulations of the Government of the Philippines.

1. Exemptions from income taxes and charges of any kind imposed on or in connection with the living allowances remitted from abroad.
2. Exemptions from import and export duties and any other charge in respect to personnel and household effects, including one motor vehicle, one air-conditioner, one refrigerator and one deep-freezer per family, which may be brought into the Republic of the Philippines from abroad.
3. Free medical services and facilities to the Japanese experts and their families.
4. Issuance of identification cards to the Japanese experts and their families, to secure the cooperation of the authorities concerned of the Republic of the Philippines in performing the duties of the Japanese experts.





ANNEX IV.

EQUIPMENT

The Equipment necessary for Implementation of the Project will be provided as follows:

1. Equipment and Materials mutually agreed upon as necessary.
2. Spare parts of Machinery and Equipment.

Note: The decision on the specification and selection of the above-mentioned equipment will be made in due course through mutual consultation.

ANNEX V.

TECHNICAL TRAINING FOR PHILIPPINE PERSONNEL IN JAPAN

Technical Training on the following fields will be made available to the Philippine personnel concerned:

1. Breeding
2. Rearing in Captivity
3. Biochemistry
4. Pathology and Biology
5. Others

ANNEX VI.

LIST OF PHILIPPINE STAFF

1. Institute Director
2. Assistant Institute Director
3. Managers of the Administration and Finance Department and the Operations Department
4. Technical Personnel
  - (1) Heads of Divisions
  - (2) Other necessary personnel
5. Administration and Finance
  - (1) Heads of Divisions
  - (2) Other necessary personnel

ANNEX VII.

LAND, BUILDING AND FACILITIES

1. Land

Adequate Land area will be provided by the Republic of the Philippines.

2. The Republic of the Philippines will make available the following building and facilities to the CFI provided by the Government of Japan to the Philippines through the grant-aid agreement:

- a. Research Laboratories
- b. Administration Rooms
- c. Office rooms for Japanese experts
- d. Feeding rooms
- e. Pens
- f. Others

3. Other facilities

- a. Office facilities
- b. Shade trees in open area

4. Institute Address

RP-Japan Crocodile Farming Institute Project  
Barangay Irawan, Puerto Princesa City  
Palawan, Philippines

ANNEX VIII.

MEMBERS OF THE JOINT COMMITTEE

1. Chairman

Deputy Minister of Natural Resources

2. Members:

a. Japanese side

- i. Chief Advisor
- ii. Coordinator
- iii. JICA Philippine Office Representative
- iv. The other experts
- v. If necessary, the personnel concerned to be dispatched by JICA

b. Philippine side

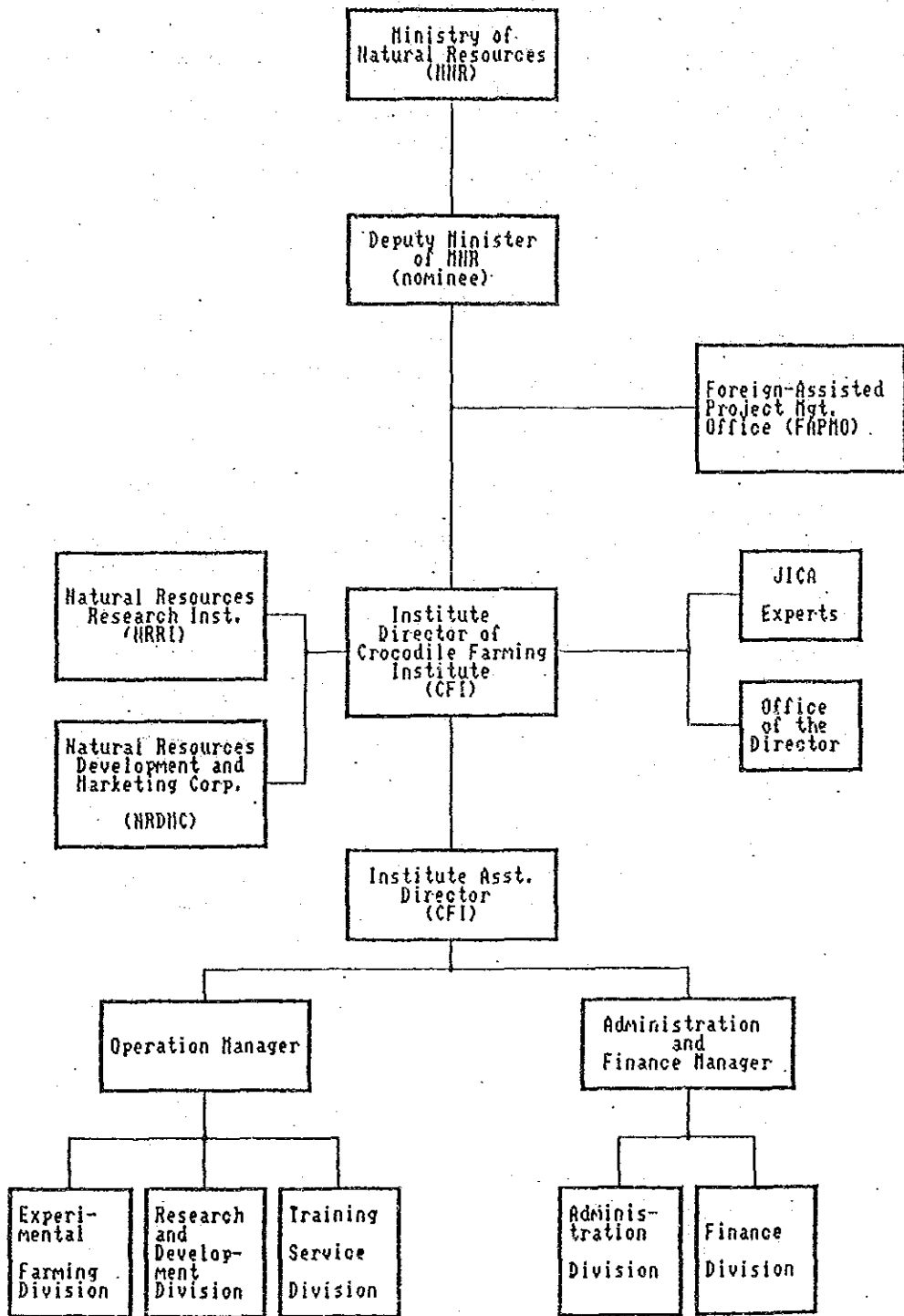
- i. Director of CFI
- ii. Assistant Director of CFI
- iii. FAPMO Representative
- iv. Other personnel concerned

Footnote:

A staff member of the Embassy of Japan will be able to attend the Joint Committee meetings as an observer.

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Organization of Implementation of the Project



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MINUTES OF MEETINGS  
HELD BETWEEN JAPANESE IMPLEMENTATION  
SURVEY TEAM AND MINISTRY OF NATURAL RESOURCES

Technical Cooperation based on the Record of Discussions signed on December 01, 1986 for the Crocodile Farming Institute which is scheduled to be completed in March 1987 will start its activities. Both Japanese and Philippine sides will take necessary measures in the following for its commencement.

Japanese Side are:

1. To take necessary measures to dispatch three (3) long term experts in the fields of breeding and rearing in captivity and a Coordinator until the end of February 1987 when A-1 forms are in the hands of JICA by the end of 1986.
2. To take necessary measures to dispatch two (2) short term experts (experts on maintenance and sanitation) until the end of April 1987 when A-1 forms are in the hands of JICA by the end of 1986.
3. To take necessary measures to receive two (2) counterparts until March 1987 when A2-3 forms are in the hands of JICA by the end of 1986.
4. To take necessary measures to provide equipment when A4 forms are in the hands of JICA by the end of 1986.
5. To take necessary measures to dispatch short term experts to undertake socio-economic studies on the impact of the project to the rural communities.

Philippine Side are:

1. To provide staff and budget necessary for the operation and management of the Institute until it starts its activities.
2. To acquire the services of sanitary and maintenance engineers by the end of January 1987.
3. To provide at least fifty (50) crocodiles (Mindorensis, Porosus) necessary for farming or breeding by the end of March 1987, although the target number of crocodiles is two hundred (200).
4. To provide budget necessary for purchasing feed.
5. To plant trees in the premise of the Institute, especially around pens by the end of March 1987.
6. To take measures necessary for specifying suitable crocodile conservation areas.
7. To conduct public relations activities for the smooth operation of the Institute leading to understanding and cooperation of the local communities.
8. Both Japanese and Philippine sides agree to the tentative schedule of implementation as attached.

Done in Manila, Philippines on 1 December 1985.

飯村 圭二

MR. KEIJI IIMURA

Head

Japanese Implementation Survey Team

Japan International Cooperation

Agency (JICA)

Japan

HON. DANTE P. SARRAGA

Deputy Minister

Ministry of Natural Resources

The Republic of the Philippines

WITNESSES:

MR. MORIYA MIYAMOTO

Resident Representative

Japan International Cooperation

Agency (JICA) in the Philippines

MR. ERICCIO S. TAMARONG, JR.

Director

RP-Japan Crocodile

Farming Institute

## PHILIPPINE REQUEST FOR EQUIPMENT

### A. For the Project Office/Institute at Palawan

1. 1 word processor and 9 B51 typewriters, electric, 15 in. carriage, ball type with erasing device
2. 12 steel filing cabinets, 5 drawers, top drawer w/ safe
3. additional radio and communication facilities for vehicles - 2 units 150-170 mhz
4. bicycles for use of project staff (10)
5. motorcycles, on and off road type (3)
6. 2 aircon units, package type, with 5 tons capacity each
7. mimeographing machine
8. radio and communication facilities linking FAPMO (MNR) to Palawan, 2 units - 1 FAPMO, 1 CFI, 10-10.5 MHz
9. 6 pocket calculators for staff use, 10 digits, battery operated
10. Trailers = 2-3 pcs. for camping
11. 3 adding machine, electric, AD-DS, 12 digits capacity with paper tape

### B. For the Field Staff's use in site researches

1. camping stove (4) and pressure lamps (4)
2. tent (4)
3. sleeping bags (12)
4. head lamps with helmet (12)
5. backpacks with frame (12)
6. box compass (12)
7. binocular (8)
8. laboratory crude fiber apparatus, 6 units
9. laboratory mill
10. recording anemometer (4)
11. hygrothermograph (1)
12. flat boats (2)
13. scuba diving equipment with compressor and accessories (4)
14. underwater camera and accessories (2)



C. ADDITIONAL EQUIPMENT REQUEST

EQUIPMENT	DESCRIPTION/COMMENTS	QTY.
- Commercially available		
1. Night Vision Scope	2 - 5x magnification	2 pcs.
2. Tongs	aluminum or stainless steel (6m)	12 pcs.
3. Egg cases	with humidity and temperature control for eggs transport	12 pcs.
4. Endoscope	with flexible tube and illumination	2 pcs.
5. Rope lock	brass or stainless steel; with quick release	200 pcs.
6. Carts - To be fabricated	4m long	
7. Tagging equipments		2 pcs.
Metal : XL	stainless steel, (5-6 digit numbers)	200 pcs.
: L		200 pcs.
: S		3,000 pcs.
8. ECG machine	preferably adapted to crocodile or large animals	2 pcs.
9. Stethoscope		2 pcs.
10. Thermometer	per body temperature determination	5 pcs.
11. Fumigators	control of pest in pen & bldgs.	2 pcs.
12. Long rubber pads		12 pcs.
13. Camera accessories	for field observations and photography at natural and pen habitat	
a. SMC Pentax-R 35 mm H2		2 pcs.
b. SMC Pentax-R 600 mm H5.6 ED(1F) -		2 pcs.
c. SMC Pentax-R Zoom 70 mm - 210 mm 1/4 -		2 pcs.
d. bellows		2 pcs.
e. camera bag	water proof	2 pcs.
f. Tripod	square legs	2 pcs.
g. Photographers jacket	cotton, gray, H2O repellent, Size M & L	4 pcs.
h. Cable release		2 pcs.
i. Teleconverter	2x	2 pcs.
14. Cutlery	for cutting fish and meat	2 sets
15. Cattle prod	electric, modified with 1.5 m and 2m handle	6 pcs. 6 pcs.
16. Personal Computer w/printer	IBM	1 set
- To be Fabricated		
1. Trap Net	(1.5m x 1m x 6m)	100 pcs.
2. Snare with pole handle	with automatic lock, 2m pole	24 pcs.
3. Harpoon	brass or stainless steel, for capture of crocodile metal used for transport and restraint	100 pcs.
4. Grates - Adult = 3m Juvenile = 2m	of individual or number of crocodiles, can be attached to each other	12 pcs. 12 pcs.
5. Squeeze chute	for restraint manipulation and and examination of adult crocodiles	2 pcs.
6. Y sticks	aluminum, 2-3m handle	12 pcs.
17. Stoscope		2 pcs.
18. Search light	with independent power supply	2 pcs.

PHILIPPINE REQUEST FOR BOOKS & OTHER REFERENCE MATERIALS

A. JOURNALS - SUBSCRIPTIONS

Australian Journal of Wildlife Management.

International Wildlife.

IUCN/Crocodile Specialist Group Newsletter Peter Brazaitis and  
Myrna Watanabe c/o New York Zoological Park, Bronx Zoo, The  
Bronx, New York 10460 USA.

Journal of Herpetology.

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Japanese-English  
English-Japanese

Dictionaries: Medical

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### 3. プロジェクト実施上の留意点

#### 3-1 組織及びカウンターパートの配置

本件に係る無償資金協力事業の初期段階においては森林開発局が一元的に本プロジェクトの担当であり、それなりの人材もプールされており、天然資源本省と対抗し得る程の力を有していた。しかしながら既述のごとく政府機関の機構改革により森林開発局の力は大巾に減じられ、本件プロジェクトの担当もFAPMOへと移転することとなった。

FAPMOは天然資源省における先進国及び国際機関による全てのプロジェクトの総括業務を実施しているが、技術スタッフを持たないこと、また開発途上国特有の傾向であるが、組織間の連携が必ずしもスムーズに実施されないことから、森林開発局からの側面的援助は得られず、カウンターパートもわずかに数名に過ぎず、プロジェクトの実施の不安を投げかけている。

そこで今後はプロジェクトの担当を森林開発局に戻し、カウンターパートとしての技術スタッフを投入するよう「比」側に働きかける事が肝要であろう。

#### 3-2 ワニの確保

事前調査時「比」側は200頭の親ワニの確保を約したが、今回の協議において財政事情の悪化及びワニ生息地の特定化が困難であることを理由にとりあえず50頭の親ワニの確保を表明した。

ワニ生息地特定化に関し、「比」側は森林開発局の地方事務所を通じ情報収集を実施した模様であるが、実施協議チームとの意見交換では確度の高い生息地の特定化が出来なかったところから、「比」側の表明した50頭の親ワニの確保も必ずしも信頼に足る情報でない可能性もあり、日本側によるある程度のワニ確保費用負担も検討する必要があると思料される。

### 4. 特記事項

無償資金協力によるワニ養殖研究所施設建設は順調に推移してきているが、このうち設備の維持管理に必要な電気及び機材分野のカウンターパートは配置されていない。62年3月引渡しを控え「比」側に他のカウンターパート共々電気及び機械分野のカウンターパートの配置を督促する。





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