

CHAPTER 7

CONCLUSION AND RECOMMENDATIONS

CHAPTER 7 CONCLUSION AND RECOMMENDATIONS

The Project is expected to achieve the results described in Chapter 6 by the improvement and consolidation of the teaching facilities and equipment of the FFS together with the improvement of its organization, including an increase of the teaching and administrative staff.

Japanese cooperation for the successful implementation of the Project will have deep significance as the FFS has a serious responsibility in the fisheries field as the sole technical school in this field in Nigeria vis-a-vis achieving the major government policy objective of developing the fisheries industry as part of the national efforts to establish self-sufficient food production.

The following recommendations are deemed appropriate for the smooth implementation of the Project and the subsequent management of the FFS.

- (1) The FFS will require close consultations with and the assistance of both the NIOMR and the Federal Ministry of Science and Technology to firmly implement the personnel plan under which the teaching and administrative staff will be increased and also in view of the consolidation of the school's management and the securing of the necessary budget.
- (2) As part of the NIOMR, the FFS has so far had the advantages of using the facilities and equipment owned by other divisions of the NIOMR for such educational activities as practical training and laboratory work (due to the fact that NIOMR researchers have been acting as teachers for the FFS) and of using the research and development achievements of other NIOMR divisions to improve the education provided by the FFS. The planned changes vis-a-vis full-time teachers for the FFS, a separate FFS budget and future independence from the NIOMR must be achieved in such a way as not to lose these advantages. Therefore, it is extremely important that information exchanges between FFS lecturers and NIOMR researchers be maintained through joint research, seminars and training courses, etc., so that the research and development

achievements of the NIOMR staff can be reflected in the educational activities of the FFS and for the nationwide spread of new knowledge and technical expertise by FFS graduates.

- (3) Another important task for the FFS is the maintenance of cooperation with the NIOMR in the operation of and training onboard the research vessels. While it is desirable for the FFS to possess its own fishing boats for training purposes, the huge cost involved makes this impossible at the present time. Consequently, the FFS will continue to be obliged to use the vessels of the NIOMR for navigation and fishing training which further indicates the necessity for the FFS to secure the cooperation of the NIOMR.

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I-1 Basic Design Study

Field Survey Period: September 26 - October 23, 1989

Leader	Masahiro Fujimura	Assistant Chief International Section Oceanic Fishery Dept. Fishery Agency
Fisheries Development Planning	Takeshi Kaburagi	Overseas Fisheries Cooperation Office International Section Oceanic Fishery Dept. Fishery Agency
Planning and Management	Koichiro Korogi	Grant Aid Cooperation Dept., Japan International Cooperation Agency
Building Plan	Seiichi Matsuda	Matsuda Consultant Co., Ltd.
Fisheries Training Plan	Shigeo Kobayashi	"
Fishing Boats and Fishing Gear	Kazumi Iida	"
Equipment Design and Natural Conditions Survey	Mitsuaki Yano	"

I-2 Draft Report Explanation

Members list of the Team for the Project for Improvement of Federal Fisheries School

Team Leader	Tadashi Tsuchiya	Deputy Director International Affairs Division Oceanic Fisheries Department Fisheries Agency
Project Coordinator	Shigeyuki Seto	Information division Institute for International Cooperation, Japan International Cooperation Agency
Architectural Planner	Seiichi Matsuda	Matsuda Consultants International Co., Ltd.
Fishing Boat and Equipment	Kazumi Iida	Matsuda Consultants International Co., Ltd.

APPENDIX II SCHEDULE

II-1 Basic Design Study (Field Survey)

Day	Date			Activity
	(1989)			
1	Sept.	26	(Tue)	13:30 Departure from Narita (BA008) 17:35 Arrival in London
2		27	(Wed)	11:30 Departure from London (BA075) 17:55 Arrival in Lagos
3		28	(Thu)	09:00 Courtesy visit to Embassy of Japan Lagos 14:00 Courtesy visit to Federal Ministry of Finance and Economic Development 15:00 Courtesy visit to NIOMR 16:00 Courtesy visit to FFS 18:00 Team meeting
4		29	(Fri)	09:15 Meeting at Embassy of Japan 10:00 Courtesy visit to Federal Ministry of Science and Technology 11:30 Joint meeting at NIOMR 15:30 Courtesy visit to Councilor of Embassy of Japan 17:00 Team meeting
5		30	(Sat)	09:00 Team meeting 10:30 Inspection of Mock Bridge Building if FFS 13:00 Study of fisheries conditions around Lagos and surveying of planned construction sites 16:00 Sorting of surveying data
6	Oct.	1	(Sun)	09:00 Team meeting 13:00 Sorting of reference materials and data

Day	Date		Activity	
7	2	(Mon)	09:00	Interviews with various people on fisheries conditions in Nigeria
			13:00	Sorting of reference materials and data
8	3	(Tue)	09:00	Visit to Embassy of Japan to discuss draft Minutes of Discussions
			10:30	Visit to three companies specializing in geological surveys
			12:00	Inspection of existing dormitory buildings
			15:30	Inspection of existing classroom building of FFS
9	4	(Wed)	09:00	Team meeting
			15:00	Collection of data at NIOMR, confirmation and examination of collected data
			18:20	Meeting at Embassy of Japan to discuss contents of draft Minutes of Discussions and official meeting schedule
10	5	(Thu)	09:00	Inspection of existing research buildings of NIOMR
			10:30	Meeting at NIOMR to discuss draft Minutes of Discussions
			13:00	Meeting at NIOMR to discuss contents of requested equipment
			16:15	Team meeting to prepare Minutes of Discussions
11	6	(Fri)	09:00	Meeting at Embassy of Japan
			10:00	Meeting at Federal Ministry of Finance and Economic Development to sign and exchange Minutes of Discussions
			10:45	Visit to Embassy of Japan to report the signing of Minutes of Discussions
			11:30	Signing of agreement with company for the geological survey

Day	Date	Activity
12	7 (Sat)	13:30 Meeting at NIOMR to discuss contents of requested equipment
		15:30 Sorting of collected data
		09:00 Team meeting
		13:00 Collection of data
		16:00 Interviews on fisheries conditions in Nigeria
13	8 (Sun)	- Fujimura, Kaburagi and Yoro left Lagos on BA076 (22:00)
		10:00 Study on availability and prices of general commodities at market in Lagos
14	9 (Mon)	- Government group arrived in London (06:20)
		(Matsuda/Yano)
		09:00 Meeting at FFS to discuss and examine available data on FFS
		10:30 Interview with JICA expert at FFS
		13:30 Meeting at FFS to examine FFS data (Kobayashi/Iida)
		09:00 Inspection of M.V. Sarkim Baka and Interview with JICA expert
		13:30 Inspection of research trawler owned by Federal Department of Fisheries
		15:00 Interview with JICA expert
15	10 (Tue)	- Government group left London (15:30)
		09:00 Meeting at FFS to discuss and examine FFS data
16	11 (Wed)	- Government group arrived at Narita (11:20)
		10:00 Sorting of reference materials and data
		14:00 Survey on NIOMR premises
		16:00 Team meeting
17	12 (Thu)	(Matsuda/Yano)
		09:00 Meeting at FFS to discuss and examine Project-related plans

Day	Date	Activity
		(Kobayashi/Iida)
		09:00 Meeting at FFS to discuss planned equipment for workshops
		14:00 Visit to Federal Department of Fisheries to study general fisheries conditions and fisheries development policies
18	13 (Fri)	09:00 Visit to Embassy of Japan to report on progress of study
		10:00 Visit to NIOMR to attend seminar
		14:00 Meeting at FFS to discuss devised plans
19	14 (Sat)	09:00 Sorting of reference materials and data
		14:00 Team meeting to discuss workshop plan
20	15 (Sun)	09:00 Examination of plans for temporary structure and construction schedule
		14:00 Sorting of reference materials and data
		16:00 Team meeting to examine supplementary items
21	16 (Mon)	(Matsuda/Yano)
		08:00 On-site advice on geological survey
		10:00 Collection of data at NIOMR and FFS
		13:00 Study of infrastructure on NIOMR premises
		(Kobayashi/Iida)
		08:00 Departure from Lagos to Port Harcourt
		10:30 Visit to Federal Department of Fisheries to study general fisheries conditions
		12:20 Inspection of Burikiri Fishing Terminal
		15:00 Inspection of Africa Regional Aquaculture Centre

Day	Date	Activity
22	17 (Tue)	(Matsuda/Yano) 09:00 Detailed surveying of NIOMR premises 13:30 Collection of data at FFS and attendance at geological survey work (Kobayashi/Iida) 08:00 Inspection of Buguma Fish Farm 24:00 Departure from Port Harcourt 00:50 Arrival in Lagos
23	18 (Wed)	08:30 Examination of Project-related plans 11:00 Visit to Embassy of Japan to report on progress of study 12:30 Attendance at geological survey work at NIOMR 14:00 Meeting at FFS to discuss and confirm data
24	19 (Thu)	(Matsuda/Yano) 09:00 Collection of data and attendance at geological survey work at NIOMR 11:00 Visit to local construction company to collect information and data 13:00 Meeting at Embassy of Japan to prepare report 16:00 Interview with local consultant on general construction conditions (Kobayashi/Iida) 09:00 Visit to private fishing companies to study general conditions of fisheries and fishing crew 14:00 Visit to Federal Department of Fisheries to study general fisheries conditions
25	20 (Fri)	09:00 Team meeting

Day	Date		Activity	
			11:00	Collection of supplementary data and attendance at geological survey work at NIOMR
			15:00	Visit to Embassy of Japan to report study results and departure of the team from Nigeria
26	21	(Sat)	09:00	Preparation for departure from Nigeria
27	22	(Sun)	22:00	Departure from Lagos (BA076)
			06:20	Arrival in London
28	23	(Mon)	15:30	Departure from London (BA007)
			11:30	Arrival at Narita

II-2 Draft Report Explanation

Day	Date			Activity	
	(1990)				
1	Jan.	14	(Sun)	13:30	Departure from Narita (BA008)
				17:35	Arrival in London
	15	(Mon)	11:00	Departure from London (BA079)	
			19:00	Arrival in Accra	
			23:30	Departure from Accra	
	16	(Tue)	00:30	Arrival in Lagos	
			09:00	Courtesy visit to Embassy of Japan in Lagos	
			10:00	Courtesy visit to Federal Ministry of Finance and Economic Development	
			15:00	Courtesy visit to Federal Ministry of Science and Technology	
			16:30	Courtesy visit to FFS	
			17	(Wed)	10:00
	13:00	Technical discussion with NIOMR, FFS			
	18	(Thu)	10:00	Joint meeting with officials of the relevant Ministries and NIOMR, FFS	
			13:00	Visit to Alakoto High School	
			14:00	Inspection of FFS facilities	
	19	(Fri)	08:00	Visit to Queen's College	
			09:30	Meeting regarding the Minutes of Discussions at Embassy of Japan	
			10:00	Signing and exchange of the Minutes of Discussions at Ministry of Finance and Economic Development	
			11:00	Visit to Embassy of Japan to report the signing of Minutes of Discussions	
			16:00	Team meeting	

Day	Date		Activity
	20	(Sat)	09:00 Team meeting, examine data and materials
			13:00 Additional inspection of the project site
	21	(Sun)	Sorting of data and material
	22	(Mon)	09:00 Preparation for departure from Lagos
			11:00 Visit to Embassy of Japan to report the result
			21:15 Departure from Lagos (UT881)
	23	(Tue)	17:55 Arrival at Paris
	24	(Wed)	19:10 Departure from Paris (JL406)
	25	(Thu)	14:55 Arrival at Narita

APPENDIX III MINUTES OF DISCUSSION

III-1 Basic Design Study

MINUTES OF DISCUSSIONS ON
THE PROJECT FOR IMPROVEMENT OF THE FEDERAL FISHERIES SCHOOL,
NIGERIAN INSTITUTE FOR OCEANOGRAPHY AND MARINE RESEARCH,
IN THE FEDERAL REPUBLIC OF NIGERIA

In response to the request of the Government of the Federal Republic of Nigeria for Grant Aid for the Project for Improvement of the Federal Fisheries School, Nigerian Institute for Oceanography and Marine Research (hereinafter referred to as the "the Project"), the Government of Japan decided to conduct a basic design study on the Project and entrusted the study to the Japan International Cooperation Agency (JICA). JICA sent to the Federal Republic of Nigeria the Basic Design Study Team headed by Mr. Masahiro Fujimura, Deputy Director, International Affairs Division, Oceanic Fisheries Department, Fisheries Agency, Ministry of Agriculture, Forestry and Fisheries from September 26 to October 23, 1989.

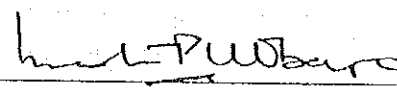
The Team had a series of discussions on the Project with the officials concerned of the Government of the Federal Republic of Nigeria and conducted a field survey in Lagos, Nigeria.

As a result of the study, both parties agreed to recommend to their respective Governments that the major points of understanding reached between them, attached herewith, should be examined towards the realization of the Project.

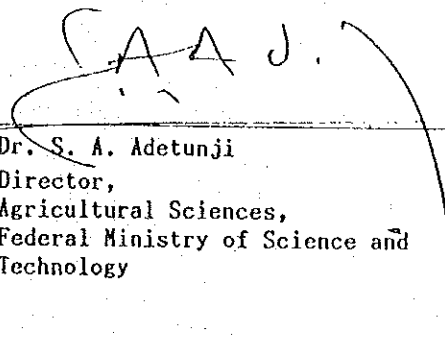
Lagos, October 6, 1989



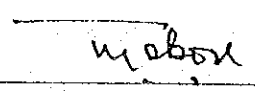
Mr. Masahiro FUJIMURA
Leader,
The Basic Design Study Team,
Japan International Cooperation
Agency (JICA)




Mr. M. P. U. Obaro
Director,
External Finance and International Aid,
Federal Ministry of Finance and
Economic Development



Dr. S. A. Adetunji
Director,
Agricultural Sciences,
Federal Ministry of Science and
Technology



Mr. J. G. Tobor
Director,
Nigerian Institute for Oceanography
and Marine Research



ATTACHMENT

The objective of the Project

1. The objective of the Project is to improve the facilities of the Federal Fisheries School (FFS) for conducting training for the manpower required for Nigeria's sea fisheries.

The site of the Project

2. The site of the Project is to be located within FFS, Lagos owned by the Nigerian Institute for Oceanography and Marine Research (NIOMR) as shown in Annex I.

The activity of the Project

3. The activity of the Project is to produce adequately trained manpower at middle and senior levels to enable Nigeria effectively exploit the fisheries resources within her 200 sea miles exclusive economic zone.

The administration and execution of the Project

4. FFS, NIOMR will be responsible for the administration and execution of the Project.

The request of the Government of the Federal Republic of Nigeria

5. The Japanese Study Team will convey to the Government of Japan the desire of the Government of the Federal Republic of Nigeria that the former will take necessary measures to cooperate by providing the buildings and other items listed in Annex II within the scope of Japanese economic cooperation programme in grant form.

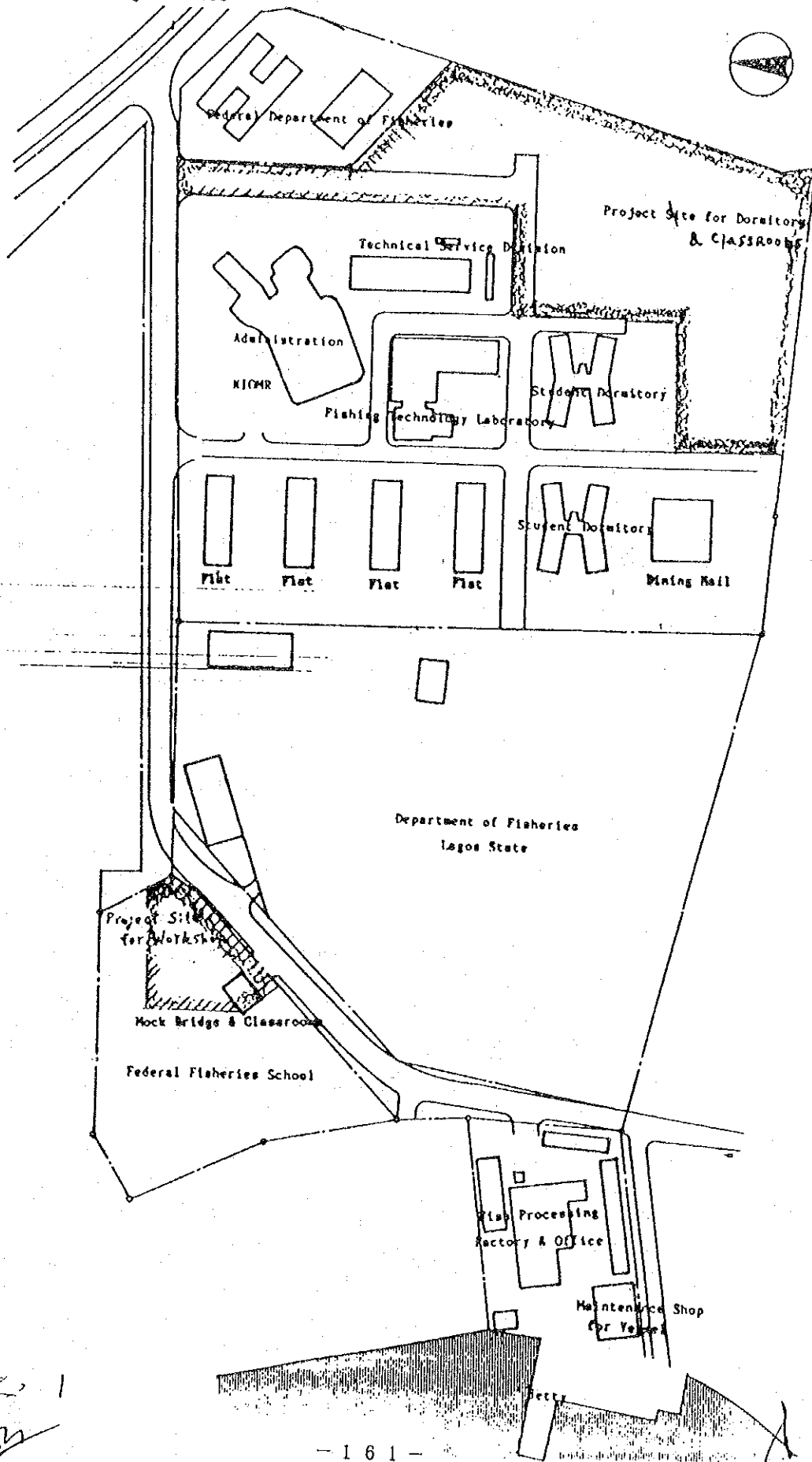
Japan's Grant Aid System

6. The Nigerian side has understood Japan's Grant Aid System as explained by the Team which includes in principle the services of a Japanese Consulting Firm and Japanese Contractor(s) for the implementation of the Project.

Undertakings of the Government of the Federal Republic of Nigeria

7. The Government of the Federal Republic of Nigeria will take the necessary measures listed in Annex III on the condition that the Grant Aid would be extended to the Project.

Annex I Project Site



ANNEX II

THE REQUEST OF THE GOVERNMENT OF THE FEDERAL REPUBLIC OF NIGERIA

1. Construction of Buildings with following facilities:

1.1 Building for Classroom and Administration

- * Classrooms
- * Lecturers' rooms
- * Principal's office
- * Administrative office
- * Library
- * Stores
- * Other necessary incidental facilities

1.2 Building for Workshop

- * Practice rooms
- * Fabricating rooms
- * Other necessary incidental facilities

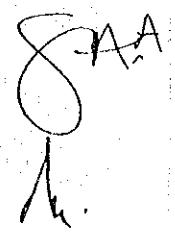
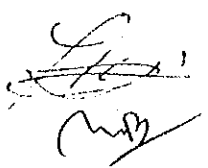
1.3 Building for Dormitory

- * Bedrooms
- * Dining room
- * Kitchen
- * Other necessary incidental facilities

2. Provision of equipment and furniture related to the abovementioned facilities such as:

- * Laboratory Equipment
- * Workshop Equipment
- * Furniture for classroom
- * Furniture for dormitory

3. Provision of equipment and materials for existing facilities that are indispensable to the conduct of training activities



ANNEX III

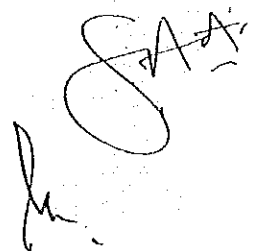
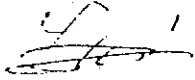
UNDERTAKINGS OF THE GOVERNMENT OF THE FEDERAL REPUBLIC OF NIGERIA

1. To secure the site for the Project
2. To clear, level and reclaim the site prior to the commencement of the construction.
3. To undertake incidental out-door work such as gardening, fencing, gates and exterior lighting in and around the site.
4. To construct the access road to the site prior to the commencement of the construction as needed.
5. To provide facilities for the distribution of electricity, water supply, telephone, drainage, sewage and other incidental facilities to the Project site.
 - (1) Electricity distributing line to the site;
 - (2) City water distribution main to the site;
 - (3) Telephone trunk line to the main distribution panel of the building;
 - (4) Drainage city main to the site;
 - (5) General furniture such as carpets, curtains, tables, chairs and others.
6. To bear commissions to the Japanese foreign exchange bank for the banking services upon the Banking Arrangement.
7. To take necessary measures for prompt unloading, tax exemption and customs clearance of the materials and equipment brought in for the Project at the port of disembarkation.
8. To exempt the Japanese nationals involved in the Project from custom duties, internal taxes and other fiscal levies which may be imposed by the Government of the Federal Republic of Nigeria with respect to the supply of the products and services under the Verified Contracts.

9. To accord the Japanese nationals whose services may be required in connection with the supply of products and services under the Verified Contracts such facilities as may be necessary for their entry into Nigeria and stay therein for the performance of their work.

10. To maintain and use properly and effectively those facilities constructed and equipment purchased under the Grant.

11. To bear all the expenses other than those to be borne by the Grant, necessary for the construction of the facilities as well as for the transportation and the installation of the equipment.



MINUTES OF DISCUSSIONS
ON THE DRAFT REPORT OF THE BASIC DESIGN STUDY ON THE PROJECT
FOR IMPROVEMENT OF THE FEDERAL FISHERIES SCHOOL,
NIGERIAN INSTITUTE FOR OCEANOGRAPHY AND MARINE RESEARCH,
IN THE FEDERAL REPUBLIC OF NIGERIA

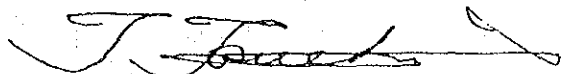
At the request of the Government of the Federal Republic of Nigeria for Grant Aid for the Project for Improvement of the Federal Fisheries School, Nigerian Institute for Oceanography and Marine Research (hereinafter referred to as the "the Project"), the Government of Japan had decided to conduct a Basic Design Study on the Project and entrusted the study to the Japan International Cooperation Agency (JICA).

JICA sent to the Federal Republic of Nigeria a Basic Design Study Team headed by Mr. MASAHITO FUJIMURA, Deputy Director, International Affairs Division, Oceanic Fisheries Department, Fisheries Agency, Ministry of Agriculture, Forestry and Fisheries, from September 26 to October 23, 1989.


As a result of the survey and discussions, JICA prepared a Draft Final Report on the study and dispatched a team headed by Mr. TADASHI TSUCHIYA, Deputy Director, Office of Overseas Fisheries Cooperation, International Affairs Division, Oceanic Fisheries Department, Fisheries Agency, Ministry of Agriculture, Forestry and Fisheries to explain and discuss it with the authorities concerned of the Government of the Federal Republic of Nigeria, from January 14 to January 25, 1990.

Both parties had a series of discussions on the Report and agreed to recommend to their respective Governments that the major points of understanding reached between them, attached herewith, should be examined towards the realization of the Project.

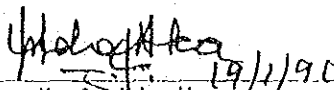
Lagos, January 19, 1990



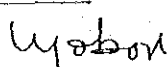
Mr. Tadashi TSUCHIYA
Leader,
Japan International Cooperation
Agency (JICA)



Mr. J. C. Chalokwu
Deputy Director,
Development Aid Division,
External Finance and International Aid,
Federal Ministry of Finance and
Economic Development


19/1/90

Mrs. M. I. Odo-Aka
Assistant Director,
Agricultural Sciences Department,
Federal Ministry of Science and
Technology



Mr. J. G. Tobor
Director,
Nigerian Institute for Oceanography
and Marine Research

ATTACHMENT

1. The Nigerian Side principally has agreed to the basic design proposed in the Draft Final Report (with minor but appropriate alterations in design, facilities and equipment, mutually agreed upon to be incorporated in the Final Report).
2. The Final Report (10 copies in English) on the Project will be submitted to the Nigerian Side by the end of April, 1990.
3. The Nigerian Side understood the Japan's Grant Aid System and confirmed that the necessary measures will be taken by the Government of the Federal Republic of Nigeria for the realization of the Project as shown in the Annex III of the "Minutes of Discussions" signed on October 6, 1989, on the condition that the Grant Aid by the Government of Japan would be extended to the Project.
4. The Government of the Federal Republic of Nigeria agreed that the necessary budget will be provided for the Project at the proper time according to the construction schedule.
5. The Government of the Federal Republic of Nigeria agreed with the implementation schedule as summarized below.

Phase I : - Construction of Classroom Building

Phase II: - Construction of Administration Building, Dormitory Building,
Workshop Building and Power Building
- Renovation of existing Canteen Building
- Supply of Equipment

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APPENDIX IV LIST OF INTERVIEWEES

IV-1 Basic Design Study (September 26 - October 23, 1989)

Nigerian Officials

o Federal Ministry of Finance and
Economic Development

Mr. M.P.U. Obaro	Director, External Finance and International Aid
Mr. J.C. Chalokwu	Deputy Director, Development Aid Division
Mr. A.J. Aderinto	Principal Assistant, Secretary DAD

o Federal Ministry of Science
and Technology

Uwolo. M.O. Asielue	Director, Personnel Management
Dr. S.A. Adetunji	Director, Agricultural Science Division
Mr. B.S.K. Onweluzo	Deputy Director (Forestry)
Mrs. M.I. Udo-Aka	Assistant Director (Fisheries)
Dr. O.A. Oloko	Assistant Director (Livestock)

o NIOMR

Mr. J.G. Tobor	Director
Mr. A.A. Olaniawo	Principal, Federal Fisheries School
Dr. O.A. Ayinla	Chief Research Officer
Dr. T.O. Ajayi	Assistant Director, Fisheries
Engr. H.O. Oladosu	Assistant Chief Engineer
Mr. S.A. Amune	Administrative Secretary
Mr. A. Amadi	Assistant Chief Research Officer
Mr. A. Abiodun	Principal Research Officer

- | | |
|---|--|
| Mr. G.R. Akande | Principal Research Officer |
| Mrs. R. Akinroye | Senior Research Officer |
| Mr. N.I. Azeza | Vice Principal, Federal Fisheries School |
| Mr. G.A. Mustapha | Principal Instructor (Engineering), Federal Fisheries School |
| Mrs. T. Ugbor | Head of Fisheries, Federal Fisheries School |
| Mrs. R. Folorunsho | Lecture II, Federal Fisheries School |
| Mr. P.O. Chigbue | Registrar, Federal Fisheries School |
| o Federal Department of Fisheries, Lagos | |
| Mr. Ogunseye | Principal Fisheries Superintendent II |
| Mr. Dairo | Principal Fisheries Superintendent I |
| Mr. M.A. Ismail | Senior Stational Officer |
| o Federal Department of Fisheries Port Harcourt | |
| Mr. J.C. Ogbonna | Principal Fisheries Officer |
| Mr. N. Okafor | Borokiri Fishing Terminal Liaison Officer |
| o African Regional Aquaculture Centre | |
| Mr. J. Needom | Senior Fisheries Superintendent |
| Mr. I.E. Marioghae | Senior Fisheries Superintendent |
| Mr. T.I.E. Idoniboyeobu | Senior Fisheries Superintendent |

Japanese Officials

o Embassy of Japan

Mr. Takao Shibata	Councilor
Mr. Takashi Kato	Secretary
Mr. Toru Yamamoto	Secretary
Mr. Ryusuke Ogawa	Secretary
Mr. Teiji Takeshita	Staff
Mr. Hideo Amino	Staff

o JICA Experts

Mr. Kametaro Washizu	Fishery Expert
Mr. Kyu Ito	Engineering Expert
Mr. Toshiro Abe	Fishery Expert

Nigerian Officials

o Federal Ministry of Science
and Technology

Engr. V.O. Ezekiel-Hart	Director Planning Research & Statistics
Dr. O.A. Odegbaro	Deputy Director Crops/Live Fisheries
Mrs. M.I. Udo-Aka	Assistant Director, Fisheries
Prof. Ephtain & Okon	Director General, Federal Ministry of Science and Technology
Mr. N.O. Oyairo	Research Officer I

o NIOMR

Mr. J.G. Tobor	Director
Mr. A.A. Olaniawo	Principal, Federal Fishery School
Dr. O.A. Ayinla	Chief Research Officer
Dr. T.O. Ajayi	Assistant Director, Fisheries
Engr. H.O. Oladosu	Assistant Chief Engineer
Mr. S.A. Amune	Administrative Secretary
Mrs. R.O. Akinroye	Senior Planning Officer
Mr. A.A. Aderinto	Principal Finance Officer

Japanese Officials

o Embassy of Japan

Mr. Yasushi Kurokochi	Ambassador
Mr. Takao Shibata	Councilor
Mr. Takashi Kato	Secretary
Mr. Toru Yamamoto	Secretary
Mr. Hideo Amino	Staff

o JICA Experts

Mr. Kametaro Washizu	Fishery Expert
Mr. Kyu Ito	Engineering Expert
Mr. Toshiro Abe	Fishery Expert

APPENDIX V OTHERS

V-1 Past records of the fishery research and
training vessels' operation

V-2 Teaching schedule

V-1 Past records of the fishery research and training
vessels' operation

Operation records of OKION

1988

	Departure	Arrival	Period	Catches (ton)	Purpose of operation
1	April 17	April 29	13 days	13.2	Training for students of FFS and Research of the coastal fishing grounds
2	June 6	June 25	20 days	16.1	"
3	July 18	July 30	13 days	15.4	Fishing operation
4	August 17	September 11	16 days	18.2	Training and Fishing operation
5	September 27	October 11	15 days	14.3	"
6	November 22	December 6	15 days	8.5	Training and Research of Offshore fishing grounds
7	December 12	December 22	11 days	13.3	Training and Fishing operation

Total in 1988 103 days 99.0 ton

1989

	Departure	Arrival	Period	Catches (ton)	Purpose of operation
1	April 5	April 17	13 days	15.6	Training for students of FFS and Research for offshore fishing grounds
2	May 17	May 31	15 days	7.3	"
3	June 10	June 23	14 days	15.1	Research for offshore fishing grounds
4	July 4	July 17	14 days	5.9	Training for students of FFS and Research for offshore fishing grounds
5	August 15	August 28	14 days	11.3	"
6	September 15	September 28	14 days	7.8	"

Total in 1989 84 days 63.0 ton

Operation records of SARKINBAKA

In the First year (1987/9 - 1988/8)

	Operation period	(days)	Purpose of operation	No. of Bait fishing	Bait catches (No. of Buckets)	No. of fishing days	Catches (Ton)
1	9/14 - 9/22	9 days	Fishing training and	2 times	3B	0 day	0.040 M/T
2	10/16 - 10/28	13 days	"	7 times	15B	2 days	-
	11/ 7 - 11/12	-	Oceanographic and geological research	-	-	-	-
3	11/23 - 12/ 3	11 days	Fishing training	13 times	70B	2 days	0.300
4	12/24 - 12/22	9 days	Fishing training	9 times	65B	2 days	0.500
5	1/11 - 1/20	10 days	Fishing training	7 times	70B	3 days	0.120
6	1/28 - 2/ 5	9 days	Fishing training	12 times	145B	3 days	1.300
7	3/17 - 3/25	9 days	Fishing training	9 times	340B	5 days	5.060
8	6/ 9 - 6/23	15 days	Fishing training (Supplied F.O. etc. in Port Hurcoat)	22 times	375B	6 days	16.000
9	7/ 7 - 7/20	14 days	Fishing training	14 times	200B	4 days	7.000
10	8/ 2 - 8/ 4	3 days	Fishing training	3 times	15B	1 day	5.000
11	8/10 - 8/23	14 days	Fishing training	23 times	105B	6 days	2.000
	11 trips	116 days		121 times	1405B	34 days	37.320 M/T

	9/ 5 - 9/10	-	Oceanographic and geological research	-	-	-	-
1	9/14 - 9/23	10 days	Fishing training	12 times	360B	6 days	21.000 M/T
2	10/11 - 10/20	10 days	Fishing training	10 times	345B	6 days	20.000
	11/ 4 - 1/ 1	-	Oceanographic and geological research	-	-	-	-
3	1/ 9 - 1/22	13 days	Fishing training	26 times	595B	11 days	18.360
4	2/ 2 - 2/ 8	7 days	Fishing training	14 times	350B	5 days	6.000
5	2/27 - 3/11	13 days	Fishing training	19 times	670B	11 days	36.000
6	4/ 1 - 4/15	15 days	Fishing training (Supplied F.O. etc. in Port Hurcoat)	20 times	370B	7 days	11.420
	5/11 - 5/18	-	Oceanographic and geological research	-	-	-	-
7	5/31 - 6/ 8	9 days	Fishing training	13 times	50B	4 days	2.500
8	6/27 - 7/ 9	13 days	Fishing training	25 times	605B	10 days	30.000
9	7/27 - 8/ 4	9 days	Fishing training	19 times	240B	5 days	19.500
10	8/22 - 8/28	7 days	Fishing training	11 times	140B	4 days	2.500
	10 trips	106 days		169 times	3725B	69 days	167.280 M/T

V-2 Teaching schedule

Monday

	8:15 - 9:15	9:15 - 10:15	11:00 - 12:00	12:00 - 13:00	14:00 - 15:00	15:00 - 16:00
OND						
General Fisheries 1st year	Biology	Fish Technology	Aquaculture		Chemistry	
" 2nd year	Fishing Cooperatives		Extension Service Management		Fish Technology	
Nautical Science 1st year and Fishing	Mathematics		Chart Work		Naval Architecture	
" 2nd year	General African Studies		Practical Navigation		Mathematics	
Marine 1st year	Mathematics		Marine Auxiliary		Naval Architecture	
Engineering			Naval Architecture		Mathematics	
" 2nd year	Marine Auxiliary			Lunch		
HND		Break-fast				
General Fisheries 1st year	Gear Technology		Fishery Management		Aquaculture	
" 2nd year	Fish Biology		Aquaculture		Gear Technology	
Pre-National Diploma	Physics	English	Physics		Economics	
Coxswain Fishing	Navigation		Gear Technology		Seamanship	

Tuesday

	8:15 - 9:15	9:15 - 10:15	11:00 - 12:00	12:00 - 13:00	14:00 - 15:00	15:00 - 16:00
OND						
General Fisheries 1st year	Aquaculture	Chemistry	Fish Technology		General Study	
" 2nd year	Fish Technology		Oceanography		Economics	Gear Technology
Nautical Science 1st year and Fishing	Gear Technology		Chart Work		Seamanship	
" 2nd year	Seamanship		Year Technology		Naval Architecture	
Marine 1st year Engineering	Physics		Marine Diesel Plant		Thermodynamics	
" 2nd year	Workshop Technology		Applied Mathematics		Marine Diesel Plant	
General Fisheries 1st year	Fish Biology		Fish Technology		Fishing Cooperatives	
" 2nd year	Fishery Management		Fish Biology		Fish Technology	
Pre-National Diploma	Biology	Mathematics	English		Principle of Navigation	
Coxswain Fishing	Chart Work		Mathematics		Marine Signals	

Wednesday

		8:15 - 9:15	9:15 - 10:15	11:00 - 12:00	12:00 - 13:00	14:00 - 15:00	15:00 - 16:00
OND							
General Fisheries	1st year	Mathematics	Extension Service	Biology	General Study	Fish Technology	
"	2nd year	Aquaculture		Fishery Management		Biology	
Nautical Science and Fishing	1st year	Mathematics		Biology		Fish Technology	General Study
"	2nd year	Seamanship		General Management		Rules of the Roads	
Marine Engineering	1st year	Mathematics	Break-fast	Workshop Technology		Ship Construction	
"	2nd year	Thermodynamics		General Management		Electrical Technology	
HND							
General Fisheries	1st year	Fish Technology		Statistics		Oceanography	
"	2nd year	Aquaculture		Fish Technology		Project Discussion	
Pre-National Diploma		Chemistry		Mathematics		Geography	Tutorial
Coxswain Fishing		Chart Work		Navigation		Seamanship	

Thursday

	8:15 - 9:15	9:15 - 10:15	11:00 - 12:00	12:00 - 13:00	14:00 - 15:00	15:00 - 16:00
OND						
General Fisheries 1st year	Physics	English	Extention Service		Fishing Cooperatives	
" 2nd year	Fish Technology		Fish Ecology		Gear Technology	
Nautical Science 1st year and Fishing	English	General Study	Applied Physics		Rules of The Roads	
" 2nd year	Marine Signals		Practical Navigation		Electronics Naval Aids	
Marine 1st year	Marine Auxilliary		Electrical Engineering		English	
Engineering			Marine Auxilliary		Naval Architecture	
" 2nd year	Technical Drawing					
END						
General Fisheries 1st year	Fishery Management		Fish Biology		Gear Technology	
" 2nd year	Gear Technology		Fishery Management		Aquaculture	
Pre-National Diploma	Biology	Mathematics	Chemistry	English	Tutorial	
Coxswain Fishing	Gear Technology		Mathematics		Marine Signals	

Friday

	8:15 - 9:15	9:15 - 10:15	11:00 - 12:00	12:00 - 13:00	14:00 - 15:00	15:00 - 16:00
OND						
General Fisheries 1st year	Mathematics	Fishing Cooperatives	Physics	English		
" 2nd year	Fish Biology		Statistics	Public Administration		
Nautical and Fishing 1st year	Marine Geography	English	Practical Navigation			
" 2nd year	Gear Technology Practicals		Navigation	Meteorology		
Marine Engineering 1st year	Engineering Drawing	Break-fast	Ship Power Plant		Lunch	
" 2nd year	Statistics		Workshop Technology			
HND						
General Fisheries 1st year	Extension Service		English	Fish Technology		
" 2nd year	Oceanography		Fish Technology	Fish Biology		
Pre-National Diploma	Physics	Mathematics	Biology	English		
Coxswain Fishing	Rules of the Roads		Marine Signals			

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