CHAPTER V.

INTEGRATION AND MANAGEMENT OF MASTER FILE DATA IN NIA REGIONAL AND CENTRAL OFFICES

CHAPTER V. INTEGRATION AND MANAGEMENT OF MASTER FILE DATA IN NIA REGIONAL AND CENTRAL OFFICES

5.1 Related Organizations

As already stated in the paragraph of "3.2.6 Preparation of Manual for the NIS Inventory Survey and its Maintenance Methodology", related organizations concerning the implementation of the Inventory Survey are proved as follows.

Region Level
- National Irrigation System (NIS)
- Responsibility Center (RC)/National Irrigation System Office (NISO)
- Regional Office (RO)

Central Office
- NIA-System Management Department (SMD)

The data obtained through the Inventory Survey should be tabulated and stored by each related office, and their data contents to be saved at each office are itemized as follows. Updated annual data should be stored under the responsibility of each office manager.

Data Management by Related Organizations

Related Organizations	Managed, Evaluated and Stored Data	Saving Means
NIS	Collected raw data	Paper Filling
RC/NISO	Tabulated and checked/verified data within RC/NISO	Floppy Diskette /CD
RO	Tabulated and evaluated data, and prioritized rehabilitation and improvement (R/I) plan data within Region	CD/Regional Host Computer
NIA-SMD	Integration of tabulated and evaluated and prioritized R/I plans in the country	CD/SMD Host Computer

5.2 Data Management of Master Files in Regional and Central Offices

The compiled data on the Inventory Survey and on the proposed R/I Plan inclusive of the prioritization plan, etc. should be submitted from the Regional Office to the NIA-SMD in the Central Office by the end of December. The data submitted from each Regional Office should be stored in the host computer of SMD, and integrated into NIA Master File.

Table 5-1 indicates the list of annual data to be stored in the Regional and NIA-SMD host computers.

Table 5-1 Data Lists to be Stored Annually in Regional and NIA-SMD Host Computers

Data		Data Stored in Host Computer		
Form No.	Data Title	RC/NISO	Regional Office	NIA-SMD
Form AR-1	NISs Number, Location and Related Areas by Region	○	○	○
Form IS-1	Inventory Survey	○	○	○
Form TB-1	Tabulation of Inventory Survey Results for the Sector of Water Resources, Irrigation Water Use and Flood and Drainage Information	○	○	○
Form TB-2	Tabulation of Inventory Survey Results for the Sector of Functionality of Irrigation and Drainage Facilities (General Information and Dimension	○	○	○
Form TB-3	Tabulation of Present Conditions for the Sector of Functionality of Irrigation and Drainage Facilities	○	○	○
Form TB-4	Evaluation of NIS Inventory Survey Results for the Sector of Functionality of Irrigation and Drainage Facilities	○	○	○
Form TB-5	Tabulation of Inventory Survey Results for the Sector of Organization and Operation and Maintenance	○	○	○
Form PW-1	Monthly Average River Discharge	○		
Form PW-2	Monthly Average Diverted Intake Discharge	○		
Form PW-3	Evaluation of Development Potential for Seasonal Water Resources	○		
Form DM-1	Calibration Table of Canal Discharge (Rectangular Canal)	○		
Form DM-2	Calibration Table of Canal Discharge (Trapezoidal Canal)	○		
Form DM-3	Developed Stage-Discharge Curve and Calibrated Stage-Discharge Table (Rectangular Canal)	○		
Form DM-4	Developed Stage-Discharge Curve and Calibrated Stage-Discharge Table (Trapezoidal Canal)	○		
Form DM-5	Description Guidelines for Discharge Measurement and Development of Stage-Discharge Curve	○		
Form DM-7	Weekly Report of Farming Activities, Actual Water Supply and Problems Encountered	○	○	
Form OP-1	Operation Plan for Water Delivery Schedule	○	○	
Form CT-1	Classified Table of NIS Facility Scale for the Sector of Functionality of Irrigation and Drainage Facilities (General Information and Dimension)		○	
Form CT-2	Classified Table of Present Conditions for the Sector of Functionality of Irrigation and Drainage Facilities		○	
Form PR-1	Evaluation Table for Prioritization of MRI Works		○	○

CHAPTER VI.

SUGGESTIONS AND RECOMMENDATIONS

CHAPTER VI. SUGGESTIONS AND RECOMMENDATIONS

As suggestions and recommendations of the Study, following issues classified into two subjects of i) implementation of the Inventory Survey and ii) formulation of operation and MRI planning methodology were pointed out.

6.1 Recommendations for Implementation of the NIS Inventory Survey and its Maintenance Methodology

1) Accomplishment of the Inventory Survey with Qualified Data

According to the Inventory Survey results during the Stage-I and Stage-II study periods, final accomplishment rate for submitting the requested Inventory Survey was 95 percent of a total of 205 NISs spreading in the country. However, the effective data to satisfy the analysis and evaluation of the systems were only 99 NISs, and other data were insupportable for the Study with missing and no qualified data.

Under such situations, further enhancement to undertake an accurate data filling in the Survey should be raised for the related NIA staff, based on more accurate data/information and drawings of the facilities, although more adequate instructions on the Inventory Survey contents of the formats would be needed and strengthened at the filed level.

2) Continuing Implementation of the Inventory Survey

Inventory surveys for all of the NISs were planned to be implemented annually by the following related NIA organizations during the period from April to November.

Region Level
- National Irrigation System (NIS)
- Responsibility Center (RC)/National Irrigation System Office (NISO)
- Regional Office (RO)

Central Office
- NIA-System Management Department (SMD)

From view points of identifying the irrigation and drainage facility functionalities in the systems, continuing implementation of the Inventory Survey would be essential and prerequisite, so that necessary administrative enforcement (for instance, by means of the Memorandum Circular by NIA Central Office) and technical countermeasures (technical training for field level O&M officers at each region) to implement the survey should be taken with maximum efforts of respective organizations mentioned above. The NISs without submitting the Inventory Survey data would be precluded from any possibility of MRI planning analysis, of which study results would be reflected for preparation of "Program of Works (PoWs)".

3) Observation and Collection of Discharge Data

Out of a total of 205 NISs, about 50 percent of them have no observation of hydrological data such as river runoff discharges and diverted intake discharges, which are the most fundamental elements to carry out effective water distribution and management in the systems. These situations would lead to no adequate gate operation to meet required weekly demands of irrigation water, and cause following conditions in the systems.

- No expectation for effective utilization of scarce water resources
- No implementation of systematic water distribution and management to meet irrigation requirement
- Periodical irrigation water shortages at the downstream areas
- One of the reasons to decrease ISF collection
- No preparation of annual Operation and Maintenance Plan

In order to improve these situations without observation of hydrological data, related NIA offices at the regional level should make efforts to obtain such data through the following means.

- Establishment of discharge observation system including fabrication and installation of staff gauges, calibration and development rating curve, etc.
- Access to adequate organizations such as PAGASA, NIA-PDD, DPWH-BRS, etc. to obtain hydrological data

4) Data Management of Master Files in Regional and Central Offices

Compiled data on the Inventory Survey and on the proposed MRI Plan inclusive of the prioritization plan, etc. should be submitted from the Regional Office to the NIA-SMD in the Central Office by the end of December. The data submitted from each Regional Office should be stored in the host computer of SMD, and integrated into NIA Master File as the future references of NISs MRI planning activities.

5) Initiative of System Management Department (SMD)

System Management Department (SMD) should implement orientation and monitoring to RIO (Regional Irrigation Offices) thoroughly, and demonstrate its initiative, so that each RIO can autonomously implement the Inventory Survey.

6) Creation of Appropriate Organization to stop Squatters living nearby Irrigation Premises

In order to expect an effective implementation of the related Inventory Survey, an appropriate organization, which would coordinate to the concerned local government officials within areas, should be created to stop the squatters living nearby irrigation premises.

6.2 Recommendations for Formulation of Operation and MRI Planning Methodology of NIS

1) Separate Implementation of Periodical Maintenance Works and Rehabilitation and Improvement (R/I) Works

Maintenance works are normal and routine works to maintain the function of the irrigation system. Rehabilitation and improvement works are to recover the functions of facilities. Therefore, maintenance works should be carried out periodically, while rehabilitation and improvement (R/I) works will be carried out only when required.

2) Formulation of Suitable Maintenance Plan aiming at reducing Required Rehabilitation and Improvement (R/I) Cost under the Current Severe Financial Situation of NIA

When the functions of irrigation and drainage facilities are deteriorated, rehabilitation and improvement (R/I) costs will become higher than maintenance costs. Then a suitable maintenance plan aiming at reducing the required R/I cost should be formulated by applying this proposed Manual for NISs operation, maintenance, rehabilitation and improvement (MRI) plan of irrigation and drainage facilities.

3) Formulation of Most Appropriate Maintenance, Rehabilitation and Improvement Plan (MRI) of Facilities on the Basis of NIA Technical Design Standards

According to the formulation of the most appropriate MRI plans of facilities, the following subjects should be studied on the basis of NIA technical design standards.

- Local materials such as soils, woods and stones would be utilized for economical MRI works
- Selection of economical maintenance and construction method

4) Prioritization Analysis of NIS Rehabilitation and Improvement (R/I) Works

NIS rehabilitation and improvement (R/I) works at each regional level should be periodically prioritized taking into account the following criterion to be analyzed on the basis of the Inventory Survey.

- Severe functionality of the systems (Imperiousness)
- Project justification (Economic Efficiency)
- Water resource potentiality (Water Resources)
- Scale of R/I works (Project Scale and Instant Effect)
- Contribution to regional economy (Project Contribution)

5) Strengthening of Capability of NIA Staff

Strengthening of capability of NIA staff is important, two. In the situation in which downsizing is anticipated in the future, further capacity development of NIA staff is required, especially in the area of improvement of water management and strengthening of supports for IAs. Works for ISF collection, which are the maximum burden in current works of field offices, should be reduced by promoting transfer of responsibilities to the IAs. As a result, it will be possible for NIA to provide better services to farmers.

6) Strengthening of Irrigators Associations (IAs)

Strengthening of Irrigators Associations (IAs) is necessary even in the future. Better O&M of

irrigation facilities requires institutional strengthening of IAs, to promote the IMT (the Irrigation Management Transfer) program, which transfers the responsibility of O&M of the secondary and on-farm facilities to IAs as stated in the Agricultural and Fishery Modernization Act (AFMA), and to better severe financial situation of the Philippine Government and NIA.

7) NIA Campaign to Farmers for Maintaining On-farm Facilities in Well-Functioning Conditions

In order to expect effective implementation of water management at on-farm level and also to reduce necessary maintenance costs for on-farm facilities such as farm ditches, farm roads, farm drains, etc., farmers attitude toward good maintenance of these on-farm facilities would be essential in the area. Therefore, Regional Irrigation Office and NISO should make maximum efforts to conduct campaigns for disseminating these matters to individual farmers, farmer's group, IA members, etc.

8) Institutionalization for Implementation of the Inventory Survey and MRI Planning Method

It is necessary to take measures, with which a series of steps from inventory survey to prioritization of projects can be stipulated and institutionalized by the NIA's Memorandum of Circular (MC), etc. to secure sustainability.

9) Better Water Management during the Drought Periods

According to the inventory survey results, it was proved that 76 NISs out of 205 NISs in total, equivalent to 37 percent of the total NISs, were suffering from irrigation water shortage either or both wet and dry seasons. One of the ways to cope with these irrigation water shortages is to introduce an adequate rotational irrigation method within the system depending on the magnitude and periods of the water shortages. Furthermore, reduction of the water losses consisting of i) losses of canal conveyance, ii) losses of gate operation, iii) on-farm losses, etc. is considered to be an effective way to cope with such water shortages. Concrete ideas for each way to reduce such losses are as follows;

- Reduction of losses of conveyance of irrigation water: provision of canal lining by means of earth and concrete materials
- Reduction of losses of gate operation: improvement of gate functionality and gate keeper's operation techniques through training activities
- Reduction of on-farm losses of irrigation water: implementation of careful land preparation works with minimum configuration of field in the plot, and introduction of reuse systems of drainage water

APPENDICES

MINUTES OF MEETING
ON
THE DRAFT IMPLEMENTING ARRANGEMENT
FOR
THE MASTER PLAN STUDY
FOR
CONTROLLING IRRIGATION WATERSHED DETERIORATION
AGREED UPON BETWEEN
THE NATIONAL IRRIGATION ADMINISTRATION
IN THE REPUBLIC OF THE PHILIPPINES
AND
THE JAPAN INTERNATIONAL COOPERATION AGENCY

Manila, March 17, 2005

宮坂 実

Mr. Minoru MIYASAKA
Leader
Preparatory Study Team
Japan International Cooperation
Agency (JICA)

Mr. Proceso T. DOMINGO
Administrator
National Irrigation Administration
The Republic of the Philippines

Witnessed by

Zenaida M Villegas

Ms. Zenaida M. VILLEGAS
Acting Director
Project Department Service
Department of Agriculture
The Republic of the Philippines

I . INTRODUCTION

In response to the request of the Government of the Republic of the Philippines (hereinafter referred to as "GOP"), the Preparatory Study Team headed by Mr. Minoru MIYASAKA (hereinafter referred to as "the Japanese side") was sent to the Republic of the Philippines by Japan International Cooperation Agency (hereinafter referred to as "JICA") from March 3 to March 23, 2005 for the purpose of discussing and confirming the Implementing Arrangement for the Master Plan Study for Controlling Irrigation Watershed Deterioration (hereinafter referred to as "the Study").

The Japanese side held a series of discussions with the relevant authorities of the Republic of the Philippines represented by Mr. Proceso T. DOMINGO, Administrator, National Irrigation Administration (hereinafter referred to as "the Philippine side").

As a result of the discussions, the Philippine side and the Japanese side agreed on the Draft of Implementing Arrangement for the Study as shown in Annex 1.

The following are the main issues discussed and agreed upon by both sides in relation to the Draft Implementing Arrangement for the Study. The list of participants in the series of meetings is attached as Annex 2.

II . RESULTS OF DISCUSSION

1. Alteration of the Name of the Study

Both sides agreed that the name of the Study "The Master Plan Study for Controlling Irrigation Watershed Deterioration", as requested, be altered to "The Study for the Maintenance, Rehabilitation and Improvement Planning Methodology of National Irrigation Systems" in order to reflect the actual scope of the Study.

2. Definition of Terms

Both sides agreed that the term of "Maintenance", "Rehabilitation" and "Improvement" in the Study is defined as the following;

- Maintenance: Normal and routine work to maintain the function of irrigation system
- Rehabilitation: Repair and reconstruction of irrigation system to its original operating condition.
- Improvement: Reconstruction of irrigation system to increase its efficiency

3. Counterpart Personnel

Both sides agreed that National Irrigation Administration (hereinafter referred to as "NIA") should take responsibility for assigning necessary number of qualified counterpart personnel from the NIA prior to the arrival of the Japanese study team.

4. Coordination among the GOP

Both sides agreed that the NIA should take responsibility for coordinating among the concerned authorities in the Republic of the Philippines in order to facilitate the smooth collection of their existing data and information related to National Irrigation Systems (hereinafter referred to as "NISs") Inventory and water resources.

5. Necessary Equipment and Facilities for the Study

The Philippine side will provide the Japanese study team with suitable office spaces equipped with desks, chairs, the use of photocopy machine, the exclusive use of telephone lines and telephones in the NIA central and regional offices.

6. Scope of the Study

(1) Pilot Study

Both sides agreed that three (3) NISs will be selected to implement the pilot study on the maintenance, rehabilitation and improvement planning methodology of NISs. The pilot study areas will be selected in the first phase of the Study in consideration with the following factors:

1) Facility functionality:
   a. Status of diversion dam with the condition of upstream and downstream of the river
   b. Status of main canal and water management facilities such as check gate and main-turnout
   c. Status of mechanical devices especially pump system
2) Size of service area and water availability
   d. Service area
   e. Status of watershed and water availability
3) Farming activity
   f. Status of water management / utilization within the system
   g. Status of agricultural production
4) Progress of implementation of Irrigation Management Transfer (IMT)

(2) Conduct of NISs Inventory Survey

Both sides agreed that the NIA would take full responsibility for conducting the NISs Inventory Survey in accordance with the draft format of NISs Inventory Survey proposed by the Japanese study team.

Both sides agreed that the NISs Inventory Survey should be conducted in the period between the end of the first phase of the Study and the commencement of the second phase of the Study.

(3) Workshop(s)/Seminar(s)

Both sides agreed to hold workshop(s)/seminar(s) at the end of the Study in order to diffuse the

result of the Study. The workshop(s)/seminar(s) are to be jointly organized by the NIA and the Japanese study team.

7. Training of Counterpart Personnel in Japan

The Philippine side requested counterpart training in Japan for effective technology transfer. The Japanese side promised to recommend the request to the JICA headquarters.

8. Final Report

Both sides agreed that the Final Report of the Study would be made open to the public.

9. Utilization of the Study Outputs

The Philippine side promised to the Japanese side that the NIA will make the best effort to utilize the outputs obtained through the Study.

10. Signing of Implementing Arrangement

The Implementing Arrangement will be signed by the JICA Resident Representative and the Administrator of NIA.

11. Commencement of the Study

The Japanese side notified that the Study will commence at the beginning of September 2005.

IMPLEMENTING ARRANGEMENT FOR THE STUDY FOR THE MAINTENANCE, REHABILITATION AND IMPROVEMENT PLANNING METHODOLOGY OF NATIONAL IRRIGATION SYSTEMS AGREED UPON BETWEEN THE NATIONAL IRRIGATION ADMINISTRATION IN THE REPUBLIC OF THE PHILIPPINES AND THE JAPAN INTERNATIONAL COOPERATION AGENCY

Quezon City, June 23, 2005

Mr. Shozo MATSUURA
Resident Representative
Japan International Cooperation Agency
Philippines Office

Mr. Proceso T. DOMINGO
Administrator
National Irrigation Administration
The Republic of the Philippines

Witnessed by

Ms. Zenaida M. VILLEGAS
Acting Director
Project Department Service
Department of Agriculture
The Republic of the Philippines

I. INTRODUCTION

In response to the request of the Government of the Republic of the Philippines (hereinafter referred to as "GOP"), the Government of Japan decided to conduct the Study for the Maintenance, Rehabilitation and Improvement Planning Methodology of National Irrigation Systems (hereinafter referred to as "the Study") in accordance with the relevant laws and regulations in force in Japan.

Accordingly, the Japan International Cooperation Agency (hereinafter referred to as "JICA"), which is responsible for the implementation of the technical cooperation programmes of the Government of Japan, will undertake the Study in close cooperation with the authorities concerned of GOP.

The present document sets forth the Implementing Arrangement with regard to the Study.

II. OBJECTIVES OF THE STUDY

The overall goal of the Study is to enable the National Irrigation Administration (hereinafter referred to as "NIA") to realize the sustainable irrigation management of the National Irrigation Systems (hereinafter referred to as "NISs").

The objective of the Study is to develop the capacity of NIA on maintenance, rehabilitation and improvement planning of NISs through:

1. the preparation of a manual for the formulation and management of NISs Inventory;
2. the formulation of a manual for the maintenance, rehabilitation and improvement planning methodology of NISs; and
3. the carrying out of technology transfer to the Philippine counterpart personnel through on-the-job training in the course of the Study.

III. STUDY AREA

The Study shall cover all NISs nationwide. Three (3) NISs will be selected for the pilot study on the maintenance, rehabilitation and improvement planning methodology of NISs.

IV. SCOPE OF THE STUDY

In order to achieve the objectives mentioned above, the Implementing Arrangement for the Study shall cover the following activities:

[Phase I]

1. Collection and analysis of existing data and information related to:
   (1) NISs Inventory
   (2) Water resources
2. Analysis of the present methods of data collection and information management system
3. Analysis of the present methodology for the maintenance, rehabilitation and improvement planning of NISs
   (1) Irrigation facilities
   (2) Water management
4. Selection of three (3) pilot study areas
5. Formulation of draft format of NISs Inventory Survey
6. Conduct of the NISs Inventory Survey of the pilot study areas
7. Modification of the draft format of NISs Inventory Survey

[Phase II]

8. Analysis of the results of the NISs Inventory Survey (conducted by NIA)
9. Conduct of the pilot study on the maintenance, rehabilitation and improvement planning methodology of NISs
   (1) Review of the collection and management system of the NISs Inventory
   (2) Evaluation of methods for facilities functions and water management
   (3) Rehabilitation method, including cost estimation method
   (4) Prioritization of NISs for rehabilitation

[Phase III]

10. Preparation of a manual for the formulation and management of NISs Inventory
11. Formulation of a manual for the maintenance, rehabilitation and improvement planning methodology of NISs
12. Coordination and implementation of workshop(s)/seminar(s)

V. WORK SCHEDULE

The Study will be carried out in accordance with the tentative work schedule as attached in Annex 1.

VI. REPORTS

JICA shall prepare and submit the following reports in English to the GOP:

1. Inception Report: Thirty (30) copies at the commencement of Phase I work in the Philippines
2. Interim Report: Thirty (30) copies at the commencement of the Phase II work in the Philippines

3. Draft Final Report: Thirty (30) copies after the Phase III work in Japan; GOP shall submit its comments to JICA Philippines Office within one (1) month after the receipt of the Draft Final Report.
4. Final Report: Fifty (50) copies within one (1) month after the receipt of the comments on the Draft Final Report

VII. UNDERTAKINGS OF THE GOP

1. To facilitate the conduct of the Study, the GOP shall take necessary measures:
   (1) to secure the safety of the Japanese study team;
   (2) to permit the members of the Japanese study team to enter, leave and sojourn in the Philippines for the duration of their assignments therein and exempt them from alien registration requirements and consular fees;
   (3) to exempt the members of Japanese study team from taxes, duties and other charges on equipment, machinery and other materials brought into the Philippines for the conduct of the Study;
   (4) to exempt the members of the Japanese study team from income tax and charges of any kind imposed on or in connection with any emoluments or allowances paid to the members of the Japanese study team for their services in connection with the implementation of the Study;
   (5) to provide necessary facilities to the Japanese study team for the remittance as well as utilization of the funds introduced into the Philippines from Japan in connection with the implementation of the Study;
   (6) to secure permission for entry into private properties or restricted areas for the conduct of the Study;
   (7) to secure permission for the Japanese study team to take all data and documents (including photographs) related to the Study out of the Philippines to Japan, and
   (8) to provide medical services as needed. Its expenses will be chargeable to members of the Japanese study team.

2. GOP shall bear claims, if any arise against members of the Japanese study team resulting from, occurring in the course of, or otherwise connected with the discharge of their duties in the implementation of the Study, except when such claims arise from gross negligence or willful misconduct on the part of the members of the Japanese study team.

3. NIA shall act as a counterpart agency to the Japanese study team and also as a coordinating body in relation with other governmental and non-governmental organizations concerned for the smooth implementation of the Study.

4. NIA, in cooperation with other organizations concerned shall, at its own expense, provide the Japanese study team the following:
   (1) available data and information related to the Study,
   (2) counterpart personnel,
   (3) suitable office space with necessary equipment at the central and regional offices, and
   (4) credentials or identification cards.

VIII. UNDERTAKINGS OF JICA

For the implementation of the Study, JICA shall take the following measures:

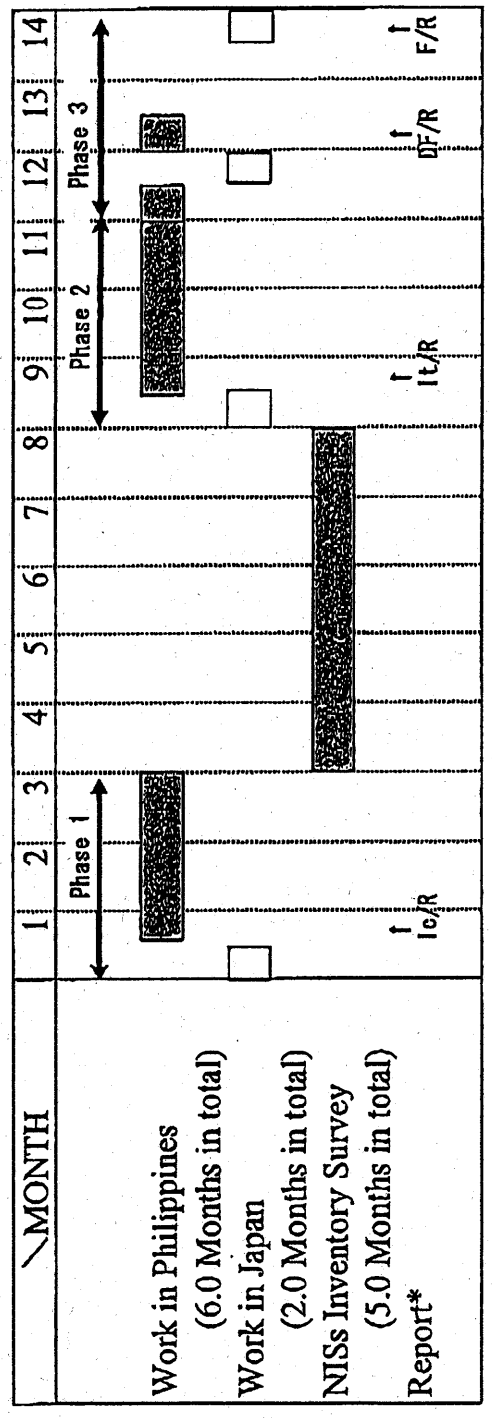
(1) to dispatch, at its own expense, the Japanese study team to the Republic of the Philippines, and

(2) to pursue technology transfer to the Republic of the Philippines counterpart personnel during the course of the Study.

IX. CONSULTATION

JICA and NIA shall consult with each other in respect of any matter that may arise from or in connection with the Study.

WORK SCHEDULE (ANNEX1 of Implementing Arrangement)



*Reprt
Ic/R:Inception Report
It/R:Interim Report
DF/R:Draft Final Report
F/R :Final Report

Appendix TA-2 Evaluation of NIS Inventory Survey

Evaluation A: Very good B: Good C: Not good D: Not submitted

No	Region	NISO	NIS	Hard Print		Evaluation of NIS Inventory			
				Hard Print	Elec. File	I to III	IV	V	NIS
1	CAR	Upper Chico	Upper Chico	1	1	A	B	B	B
2		Hapid	Hapid	0	0	D	D	D	D
3		West Apayao Abulog IS	West Apayao Abulog	0	0	D	D	D	D
	Sub-total	**3**	**3**	**1**	**1**				
4	Region 1	Ilocos Norte	Bonga PIS-1	1	1	B	C	A	C
5			Bonga PIS-2	1	1	B	B	B	B
6			Bonga PIS-3	1	1	B	B	A	B
7			Laoag Vintar	1	1	B	C	A	C
8			Nmc Pasuquin	1	1	B	C	A	C
9			Dingras	1	1	B	A	A	A
10			Bolo	1	1	B	B	A	B
11			Cura	1	1	B	B	A	B
12			Nueva Era	1	1	B	C	A	C
13			Madongan Area	1	1	B	B	B	B
14			Solsona Area	1	1	B	B	A	B
15			Labugaon Area	1	1	B	B	B	B
16			Papa Area	1	1	B	B	A	B
17		Ilocos Sur	Sta. Maria-Burgos	1	1	B	B	B	B
18			Sta. Lucia-Candon	1	1	B	B	B	B
19			Tagudin	1	1	B	C	B	C
20		Amburayan	Amburayan	1	1	B	B	A	B
21		Ambayoan-Dipalo	Ambayoan	1	1	B	B	B	B
22			Ambayoan-Extension	0	0	D	D	B	D
23			Dipalo	1	1	B	B	B	B
24		Masalip	Masalip	1	1	B	B	C	C
25		Lower Agno	Lower Agno	1	1	A	B	B	B
26		San Fabian-Dumuloc	San Fabian	1	1	B	A	A	A
27			Dumuloc	1	1	B	A	A	A
28		Agno-Sinolacan	Agno	1	1	D	B	B	D
29			Sinolacan	1	1	D	A	B	D
	Sub-total	**8**	**26**	**25**	**25**				
30	Region 2	Baua-Vistacion	Vistacion	0	0	D	D	D	D
31			Baua	1	1	A	A	A	A
32		Banurbur Creek	Banurbur Creek	1	1	A	A	A	A
33		Magapit	Magapit PIS	1	1	B	B	A	A
34		Apayao-Abulog-Pamplona	Apayao-Abulug	1	1	A	B	A	A
35			Pamplona			B	D	A	D
36		Dummun	Dummun	1	1	B	B	B	B
37		Zinundungan	Zinundungan	1	1	C	B	A	C
38		Baggao	Baggao	1	1	B	B	B	B
39		Iguig-Alcala-Amulung	Iguig-Alcala-Amulung PIS	1	1	C	C	B	C
40		Lower Chico	Lower Chico RIS	1	1	B	C	A	C
41		Solana-Pinacanuan	Solana PIS	1	1	C	A	A	C
42			Pinacanauan	1	1	C	C	A	C
43		San Pablo Cabagan	San Pablo Cabagan	1	1	B	A	B	B
44		Tumauini	Tumauini	1	1	B	B	A	B
45		Malilig	Mallig	1	1	A	B	A	A
46		Bagabag	Bagabag	1	1	B	A	B	B
	Sub-total	**14**	**17**	**15**	**15**				
47	MRIIS	MRIIS Distric I	MRIIS Distric I	1	1	C	B	A	C
48		MRIIS Distric II	MRIIS Distric II	1	1	C	C	A	C
49		MRIIS Distric III	MRIIS Distric III	1	1	A	B	A	A
50		MRIIS Distric IV	MRIIS Distric IV	1	1	C	A	A	C
	Sub-total	**4**	**4**	**4**	**4**				
51	Region 3	Nayom-Bayto	Nayom	0	0	D	D	D	D
52			Bayto	0	0	D	D	D	D
53		Camiling	Camiling	1	1	B	B	A	B
54		Tarlac-San Miguel	Tasmoris	1	1	D	A	D	D
55			San Miguel	0	0	D	D	D	D
56		Bucao	Bucao	1	1	D	C	D	D
57		NEPIS (Nueva Ecija PIS)	NEPIS	1	0	D	C	B	D
58		Pampanga	Pampanga Delta	0	0	D	D	D	D
59		Porac- Gumain	Porac	1	0	A	B	A	A
60			Gumain	1	0	B	B	A	B
61		Colo-Caulaman	Colo	0	0	D	D	D	D
62			Caulaman	0	0	D	D	D	D
63		Angat-Maasim	Angat	1	1	A	A	A	A
64			Maasim	1	1	A	B	A	A
65		Disalit Creek	Disalit Creek	1	0	A	A	B	A
	Sub-total	**10**	**15**	**9**	**5**				
66	UPRIIS	UPRIIS District I	UPRIIS District I	1	1	A	B	B	B
67		UPRIIS District II	UPRIIS District II	1	0	D	C	C	D
68		UPRIIS District III	UPRIIS District III	1	1	C	C	B	C
69			UPRIIS District III (Vaca)	0	0	D	D	D	D
70		UPRIIS District IV	UPRIIS District IV	1	0	A	B	B	B
	Sub-total	**4**	**5**	**4**	**2**				

No	Region	NISO	NIS	Hard Print		Evaluation of NIS Inventory			
				Hard Print	Elec. File	I to III	IV	V	NIS
71		Cavite Friar Lands	Molino	1	1	C	C	B	C
72			Embarcadero-Baluctot	1	1	C	C	B	C
73			Luksuhin-Makuling	1	1	C	C	B	C
74			Pasong Kastila-Julian	1	1	C	C	B	C
75			Bankud	1	1	C	C	B	C
76			Butas Marcelo	1	1	C	C	B	C
77			Plucena-Bayan	1	1	C	C	B	C
78			Butas-Lawang Bato	1	1	C	C	B	C
79			Navarro	1	1	C	C	B	C
80			Matanda	1	1	C	C	B	C
81			Balayungan	1	1	C	C	B	C
82			Tres Cruses	1	1	C	C	B	C
83			San Agustin-Pasong Buaya	1	1	C	C	B	C
84			Culong-Culong	1	1	C	C	B	C
85			Sahing	1	1	C	C	B	C
86		Agos	Agos	1	1	A	C	D	D
87		Palico	Palico	1	1	C	C	B	C
88		Laguna Friar Lands	Cabuyao PIS	1	1	D	B	B	D
89			San Cristobal	1	1	D	C	B	D
90			Diezmo PIS	1	1	D	B	B	D
91			Macabling	1	1	C	B	B	C
92			San Juan	1	1	D	B	B	D
93	Region 4	Sta. Maria-Mayor	Sta. Maria	1	1	C	C	D	D
94			Mayor	1	1	D	C	D	D
95			Dambo PIS	1	1	D	C	D	D
96		Sta. Cruz-Mabacan-Balanac	Sta. Cruz	1	1	A	A	A	A
97			Mabacan	1	1	C	B	B	C
98			Balanac	1	1	C	B	B	C
99			Lumban	1	1	C	B	B	C
100			Malaunod	1	1	C	B	B	C
101		Dumacaa-Hanagdong-Lagnas	Dumacaa	1	1	A	B	B	B
102			Hanagdong	1	1	A	B	B	B
103			Lagnas	1	1	A	B	B	B
104		Pagbalian	Pagbahan	1	1	C	A	B	C
105		Baco Bucayao-Mag-Asawang	Baco Bucayao	1	1	C	B	B	C
106			Mag-Asawang Tubig	1	1	D	B	B	D
107		Amnay-Partic-Mongpong	Amnay-Patric	1	1	C	C	B	C
108			Mongpong	1	0	D	C	B	D
109		Pula-Bansud	Pula	1	0	D	C	C	D
110			Bansud	1	1	D	C	C	D
111		Lumintao	Lumintao	1	1	C	C	B	C
112		Caguray	Caguray	1	1	C	B	B	C
113		Cantingas	Cantingas	1	0	C	C	D	D
114		Batang-Batang-Malatgao	Batang-Batang	1	0	A	A	A	A
115			Malatgao	1	0	A	A	A	A
	Sub-total	**15**	**45**	**45**	**40**				
116		Daet Talisay-Matognon	Daet Talisay	1	1	C	C	A	C
117			Matogdon	1	1	C	A	A	C
118		Libmanan Cabusao	Libmanan Cabusao PIS	0	0	D	D	A	D
119		Tigman-Hinagyanan-Inarihan	Tigman-Hinagyanan	1	1	C	B	A	C
120			Inarihan	1	1	D	B	A	D
121		Cagaycay	Cagaycay	1	1	C	B	B	C
122		Rinconada Integrated	Barit	0	0	D	D	D	D
123	Region 5		Rida	0	0	D	D	D	D
124			Buhi-Lalo	0	0	D	D	D	D
125		Mahaba-Nasisi-Ogsong-Hibiga	Mahaba	1	1	C	B	B	C
126			Nasisi	1	1	C	B	B	C
127			Ogsong	1	1	C	B	B	C
128			Hibiga	1	1	C	B	B	C
129		Pili-Bulan-San Francisco	San Francisco	1	1	D	C	D	D
130			San Ramon	1	1	D	C	D	D
	Sub-total	**7**	**15**	**11**	**11**				
131		Aklan Panakuyan	Aklan	1	1	A	A	A	A
132			Panakuyan	1	1	A	A	B	A
133		Sibalom-San Jose	Sibalom-San Jose	1	1	A	B	A	A
134		Mambusao	Mambusao	1	1	B	A	A	A
135		Jaluar-Suague	Jalaur-Proper	1	1	A	B	A	A
136			Jaluar- Extension	1	1	A	B	A	A
137	Region 6		Suague	1	1	A	B	A	A
138		Sibalom-Tigbuan	Sibalom-Tigbuan	1	1	A	A	B	A
139		Aganan-Sta Barbara	Aganan	1	1	A	B	A	A
140			Sta. Barbara	1	1	A	B	A	A
141		Barotac Viejo	Barotac Viejo	1	1	A	A	A	A
142		Bago	Bago	1	1	B	A	B	B
143		Pangiplan	Pangiplan	1	1	B	A	A	A
	Sub-total	**9**	**11**	**13**	**13**				

No	Region	NISO	NIS	Hard Print		Evaluation of NIS Inventory			
				Hard Print	Elec. File	I to III	IV	V	NIS
144	Region 7	Bohol	Bohol	1	1	B	C	A	C
145			Capayas	0	0	D	D	D	D
	Sub-total	**1**	**2**	**1**	**1**				
146	Region 8	Mainit-Pongso	Mainit	1	1	A	B	B	B
147			Pongso	1	1	B	B	B	B
148		Bao	Bao	1	1	B	B	A	B
149		Binahaan-Tibak	Binahaan North	1	1	C	C	B	C
150			Binahan South	1	1	C	C	B	C
151			Lower Binahaan	1	1	C	B	B	C
152			Tibak	1	1	B	C	B	C
153		Daguitan-Guinarona	Daguitan	1	1	A	B	A	A
154			Gumarona	1	1	A	B	B	B
155		Balire-Ibawon-Gibuga	Balire North	1	1	B	B	A	B
156			Balire South	1	1	B	A	B	B
157			Ibawon	1	1	B	A	B	B
158			Gibuya	1	1	B	A	A	A
159		Bito	Bito	1	1	A	C	A	C
160		Hindang-Hilongos-Das-Ay	Hindang-Hilongos	1	1	A	B	A	A
161			Das-Ay	1	1	B	B	A	B
	Sub-total	**7**	**16**	**16**	**16**				
162	Region 9	Sibuguey Valley	Sibuguey Valley	1	1	B	B	B	B
163		Dipolo-Salug	Dipolo	1	1	B	B	B	B
164			Salug	1	1	A	A	A	A
165		Labangan	Labangan	1	1	A	A	A	A
	Sub-total	**3**	**4**	**4**	**4**				
166	Region 10	Bubunawan	Bubunawan	0	0	D	D	D	D
167		Manupali	Manupali	1	0	A	A	A	A
168		Pulangui-Roxas-Kuya	Pulangui	1	0	A	A	A	A
169			Roxas-Kuya	1	0	A	A	A	A
170		Muleta	Muleta	1	0	A	B	A	A
171		Rugnan	Rugnan	0	0	D	D	D	D
172		Maranding	Maranding	1	1	A	C	B	C
	Sub-total	**6**	**7**	**5**	**1**				
173	Region 11	Lupon	Lupon	1	1	A	A	B	A
174		Batutu	Batutu	1	1	A	A	A	A
175		Saug-Libunganon Left	Saug	1	1	A	A	A	A
176			Libunganon-Left	1	1	B	B	A	B
177		Lasang-Libuganon-Kipaliku	Lasang	1	1	B	C	A	C
178			Libunganon-Right	1		B	B	A	B
179			Kipaliku	1	1	B	C	A	C
180		Mal-Padada	Mal	1		A	A	B	A
181			Padada	1	1	A	B	A	A
	Sub-total	**5**	**9**	**9**	**7**				
182	Region 12	Alip-Talayan	Alip	1	1	A	A	B	A
183			Talayan	1	1	B	C	B	C
184		Maridagao	Maridagao	0	0	D	D	D	D
185		Libungan	Libungan	1	1	A	A	A	A
186		Kabulnan	Kabulnan	0	0	D	D	D	D
187		Kabacan-Pagalungan	Kabacan	1	1	A	A	B	A
188			Pagalungan	1	1	B	B	B	B
189		Mlang-Malasila	Mlang	1	1	A	C	B	C
190			Malasila	1	1	A	B	B	B
191		Lambayong-Dumagul	Lambayaong	1	1	A	B	B	B
192			Dumaguil	1	0	A	B	B	B
193		Allah-Banga-Marbel	Allah	1	1	B	C	A	C
194			Allah-2	0	0	D	D	D	D
195			Banga	1	1	A	A	B	A
196			Marbel-I	1	1	A	A	B	A
197			Marbel 2	1	1	B	A	B	B
198		Siluay-Buayan	Siluay	1	1	A	A	B	A
199			Buayan	1	1	A	B	B	B
	Sub-total	**9**	**18**	**15**	**14**				
200	Region 13	Cabadbaran-Taguibo	Cabadbaran-Taguibo	1	0	A	A	A	A
201		Cantillan	Cantillan	1	1	A	A	A	A
202		Tago	Tago	1	1	A	A	A	A
203		Andanan	Andanan	1	0	A	A	B	A
204		Gibong	Gibong	1	1	B	B	B	B
205		Simulao	Simulao	1	0	A	A	D	D
	Sub-total	**6**	**6**	**6**	**3**				
Total		**111**	**203**	**183**	**162**				

Ratio (%)	I to III	IV	V	NIS
A	31	24	38	25
B	27	39	46	23
Sub-total	58	63	84	48
C	23	26	2	30
D	20	11	14	22
Total	100	100	100	100

Score:	I to III	IV	V	NIS
A	63	49	77	52
B	55	80	95	47
Sub-total	118	129	172	99
C	47	54	4	61
D	40	22	29	45
Total	205	205	205	205