

事業実施の組織強化に関する主な提言 (1/3)

Classification	Short-run Period	Medium/Long-run Period
<p>Central Office: Provincial and Regional Irrigation Offices (PIOs/RIOs):</p>	<p>(1) Provide a periodical adjustment in the limit of authority of the PFEs to procure spare parts for equipment and vehicles based on current market prices;</p> <p>(2) Ensure a better coordination of activities and cultivate more rapport among project preparation staff (engineer, economists), project-in-charge (construction) and IDOs;</p> <p>(3) Conduct a periodical assessment, among field offices including the IAs, of the workability of the General Guidelines on CDP Implementation;</p> <p>(4) Further coordinate the activities of ITs with those of IDOs to maximize extent of services to IAs;</p> <p>(5) On monitoring and evaluation, define clearly the areas or sectors to be emphasized and the criteria to be assessed, as well as involve the IAs and provide for a multi-lateral insights in the process;</p> <p>(6) Increase the manpower complement equivalent to October, 1990 level, i.e., prior to the substantive lay-off of personnel due to government austerity measures;</p> <p>(7) Fill-up vacant technical positions in PIOs like engineers, economists, and institutional development officers and irrigation technicians based on urgent requirements; give utmost priority to the recruitment of those NIA personnel who have been temporarily laid off;</p>	<p>(1) Strongly pursue the establishment of a Communal Irrigation Department which shall over-see the planning, implementation, and O&amp;M (including continuous inventory) of CISs and CIPs;</p> <p>(2) Provide this department with an adequate number of qualified (academic and experience-wise) and appropriately trained staff personnel;</p> <p>(3) Establish a computerized database system for CISs and CIPs at the central office which, in the long-run, shall be hooked up with the RIOs and PIOs;</p> <p>(4) Gradually increase the participation or authority of the PIOs/RIOs in the bidding and packaging of the sub-project and other activities relative to project implementation;</p> <p>(5) Provide the PIOs/RIOs with authority to approve project contract as a whole depending on project cost, size of project area and/or nature of funding;</p> <p>(6) Gather a multi-sectoral insights on the participatory approach by conducting a regular forum to be attended by representatives from concerned government and private sectors;</p> <p>(7) Train Farmer Irrigators Organizers (FIOs) from among the IAs to support IDOs' role in developing the IAs;</p>
<p><u>Staffing, Training and Incentives</u></p>	<p>(8) Raise the number of personnel requirement to the short-run period plus filling-up of the vacant but approved permanent positions as of October, 1990, including non-permanent positions under various new projects;</p> <p>(9) Increase the training ratio of PIO personnel from 0.6 to at least one and prevent the RIO's current training ratio of 1.4 from falling below one; this means emitting each PIO and RIO staff to a least one training slot over the long-run;</p>	<p>(8) Raise the number of personnel requirement to the short-run period plus filling-up of the vacant but approved permanent positions as of October, 1990, including non-permanent positions under various new projects;</p> <p>(9) Increase the training ratio of PIO personnel from 0.6 to at least one and prevent the RIO's current training ratio of 1.4 from falling below one; this means emitting each PIO and RIO staff to a least one training slot over the long-run;</p>

事業実施の組織強化に関する主な提言 (2/3)

Classification	Short-run Period	Medium/Long-run Period
	<p>(8) Give priority in the training of permanent personnel over project contractual and other non-permanent personnel;</p> <p>(9) Provide equal opportunity to both field office and Central Office personnel in the allocation of training opportunities;</p> <p>(10) In general, avail more of short-term courses instead of long-term courses, whether local or foreign based, specially those under grant-in-aids;</p> <p>(11) In view of the limited number of permanent staff vis-a-vis projects to be implemented, provide more emphasis on supervisory management courses, specially for engineers;</p> <p>(12) Provide a more attractive compensation package to project contractual personnel and other temporary employees like project-in-charges and IDOs;</p> <p>(13) Conduct a periodical inventory of facilities, equipment and vehicles in order to keep abreast of their current status and priority needs for repair/replacement;</p> <p>(14) Give attention to proper O&amp;M of facilities, equipment and vehicles.</p> <p>(15) Given limited fund allocation, adopt a workable phasing of construction activities but without sacrificing structural quality;</p> <p>(16) Seek temporary sources of financing for project construction activities (until DBM's fund allocation is actually released) like the NIA's Corporate Fund, government and private commercial banks and non-government organizations so as to commence construction works in the relatively rain-free months of January to April;</p>	<p>(10) Continue to provide regular funding for basic training courses like basic leadership development, financial management and system management but accommodate new relevant training courses with significant demand such as irrigated crop diversification scheme;</p> <p>(11) Let the existing training development unit at the Central Office provide the overall coordination in the planning, programming and implementation of all training courses, regardless of funding sources;</p> <p>(12) Strongly pursue the efforts to upgrade the salaries of PIEs equivalent to the level of other agencies' chief of offices with province-wide duties and responsibilities;</p> <p>(13) Standardize rules an VIC allocation system; consider the possibility of incorporating a "penalty system" alongside with the present incentive scheme in selecting RIOs/PIOs to qualify for VIC;</p> <p>(14) Provide adequate number of buildings and facilities, office equipment, construction equipment, survey and hydrology equipment and vehicles per PIO and RIO;</p> <p>(15) Seek other sources of temporary financing for project construction activities (until DBM's fund allocation is actually released) like the NIA's Corporate Fund, government and private commercial banks and non-government organizations so as to commence construction works;</p> <p>(16) Establish a regular seed fund for investigation and survey of proposed projects which would be replenished once project funds are available for continuity of such activities; and</p> <p>(17) Minimize the part of project funds (about 30%) that is regularly allocated for budgetary reserve fund, management fees and general overhead surcharges and instead, provide more allotment directly to project construction works.</p>
<p><u>Facilities and Logistics</u></p>		
<p><u>Funding</u></p>		

事業実施の組織強化に関する主な提言 (3/3)

Classification	Short-run Period	Medium/Long-run Period
<p>Irrigators Associations (IAs) <u>Organizational/operational</u></p> <p>Facilities and Logistics/ Funding</p>	<p>(17) Give continuous emphasis on the uniqueness of a CID project vis-a-vis other government projects; i.e., its participatory approach, self-liquidating or non debt-out mechanism and timeliness in relation with the poverty alleviation and economy measures of the government;</p> <p>(18) Avoid over-dependency of IAs on the IDOs and/or prevent the tendency of IDOs to provide "baby-treatment" to the IAs; encourage the IAs to handle a bigger share of the task or responsibility of any given project activity;</p> <p>(19) When the amortization problem is attributed to natural calamities and the IA requests for loan readjustment, immediately provide a revised repayment scheme taking into consideration both the IA's financial capability and NIAs budgetary standing;</p> <p>(20) Conduct an intensive information campaign for O&amp;M fee collection by means of reminders during regular IA meetings, individual notices to farmers and if possible, by radio broadcasts before and after the harvest seasons;</p> <p>(21) Require the collectors to prepare their respective quotas and provide appropriate incentives based on collection performance;</p> <p>(22) For a perennially delinquent IA member, let the irrigation superintendent and/or other higher IA officials do the collection;</p> <p>(23) Provide access to other government and private agencies/institutions that could provide technical, financial and other forms of assistance.</p>	<p>(18) Ensure that a great portion, if not all, of the equity contribution shall be in terms of labor input by the IAs and that at least the minimum wage is observed and that the amount to be deducted from the daily wage is not too large as to make the net daily income less attractive to farmers;</p> <p>(19) Regularly assess IA's weaknesses, strengths and potentials in so far as their management and operational capabilities are concerned and provide appropriate training correspondingly;</p> <p>(20) Consider the possibility of adopting a "combined incentive and penalty system" in the collection of amortization fee by providing discount on early or timely payment and penalty on late or non-payment;</p> <p>(21) Adopt an incentive scheme for advanced and timely payment of O&amp;M due and apply the penalty system only after all the persuasive measures have failed;</p> <p>(22) In line with the self-improvement policy, encourage IAs to procure, on a gradual and priority need basis, basic facilities and logistics for their operation, taking into consideration their own financial resources and available funding assistance; and</p> <p>(23) Whenever possible, participate in the public bidding of used government farm, construction and other equipment.</p>

## ピナツボ山噴火被災案件（新規開発案件）

Name of CIP	Area (ha)
<b>1. Within 20 km Radius</b>	
<b>1.1 TARLAC</b>	
1. Marimla CIP	130
<b>1.2 PAMPANGA</b>	
1. Dolores CIP	150
2. Tugtugan CIP	211
Sub-total	(361)
Total-1.	491
<b>2. Within 20 to 30 km Radius</b>	
<b>2.1 PAMPANGA</b>	
1. Sapang Balen CIP	90
2. Del Rosario CIP	100
3. San Jose CIP	220
4. Casaugan CIP	125
Sub-total	(535)
Total-2.	535
<b>3. Within 30 to 40 km Radius</b>	
<b>3.1 PAMPANGA</b>	
1. Sapa Libutad CIP	100
2. San Antonio CIP	100
3. San Pablo Central CIP	215
4. Laput CIP	70
5. Calulut II CIP	64
6. San Jose Panlumacan CIP	100
7. San Jose CIP	90
8. Concepcion CIP	150
9. San Miguel CIP	100
Sub-total	(989)
Total-3.	989
<b>Grand Total</b>	<b>2,015</b>

## ピナツボ山噴火被災案件 (改修・改良案件)

Name of CIS	Area (ha)	Name of CIS	Area (ha)
<b>1. Within 20 km Radius</b>		3. San Martin CIS	240
1.1 TARLAC		4. Marita CIS	100
1. Ambalingit CIS	290	5. Lilibangan CIS	240
1.2 PAMPANGA		6. San Bartolome CIS	362
1. Porac CIS	165	7. Telabanca CIS	386
2. Villa Maria CIS	54	Sub-total	(1,933)
Sub-total	(219)	3.2 ZAMBALES	
Total-1.	509	1. Lawis CIS	500
		2. Jolong-Matain CIS	156
<b>2. Within 20 to 30 km Radius</b>		3. Cawag CIS	200
2.1 TARLAC		Sub-total	(856)
1. Malonzo CIS	173	3.3 PAMPANGA	
2.2 ZAMBALES		1. San Roque Balen CIS	200
1. Sacatihan CIS	57	2. San Agustin CIS	65
2. Mangan-Vaca CIS	69	3. San Pedro CIS	229
Sub-total	(126)	4. Sta. Cruz CIS	92
2.3 PAMPANGA		5. Camias CIS	58
1. Quitangil CIS	114	6. San Vicente CIS	350
2. Sta. Maria CIS	187	7. Lower Sapang Biabas CIS	150
3. Upper Camachili CIS	70	8. Banquili CIS	105
4. Mawaque CIS	131	9. Pandacaqui CIS	280
5. Mabiga CIS	70	10. Pulong Cacatud CIS	50
6. Camachile CIS	279	11. Panlinlang CIS	125
7. Tabun CIS	70	12. Anao CIS	120
8. Paligui Libutad CIS	93	13. Lico CIS	90
9. Manibaug CIS	175	14. San Jose Malino CIS	132
10. Senora CIS	110	15. Calulut CIS	115
11. Macapagal CIS	120	16. Divisoria CIS	304
12. Dali CIS	206	17. San Pabro CIS	54
13. Lusung CIS	105	18. Cabetican CIS	55
14. Natividad CIS	205	19. Danganan CIS	52
15. Sapang Godio CIS	180	20. Dampol CIS	110
Sub-total	(2,115)	21. Lower Sta. Barbara CIS	162
2.4 BATAAN		22. Cabalantian CIS	150
1. Bukaran CIS	50	23. San Juan Nepo CIS	66
2. Kairing CIS	67	Sub-total	(3,114)
3. Dalao CIS	152	3.4 BATAAN	
4. Pita CIS	92	1. Pentor CIS	154
Sub-total	(361)	2. Layac CIS	150
Total-2.	2,775	3. Tubo-Tubo CIS	56
		4. Tama CIS	89
<b>3. Within 30 to 40 km Radius</b>		5. Lower Maite CIS	60
3.1 TARLAC		Sub-total	(509)
1. Lubigan CIS	155	Total-3.	6,412
2. Lab CIS	450	Grand Total	9,696

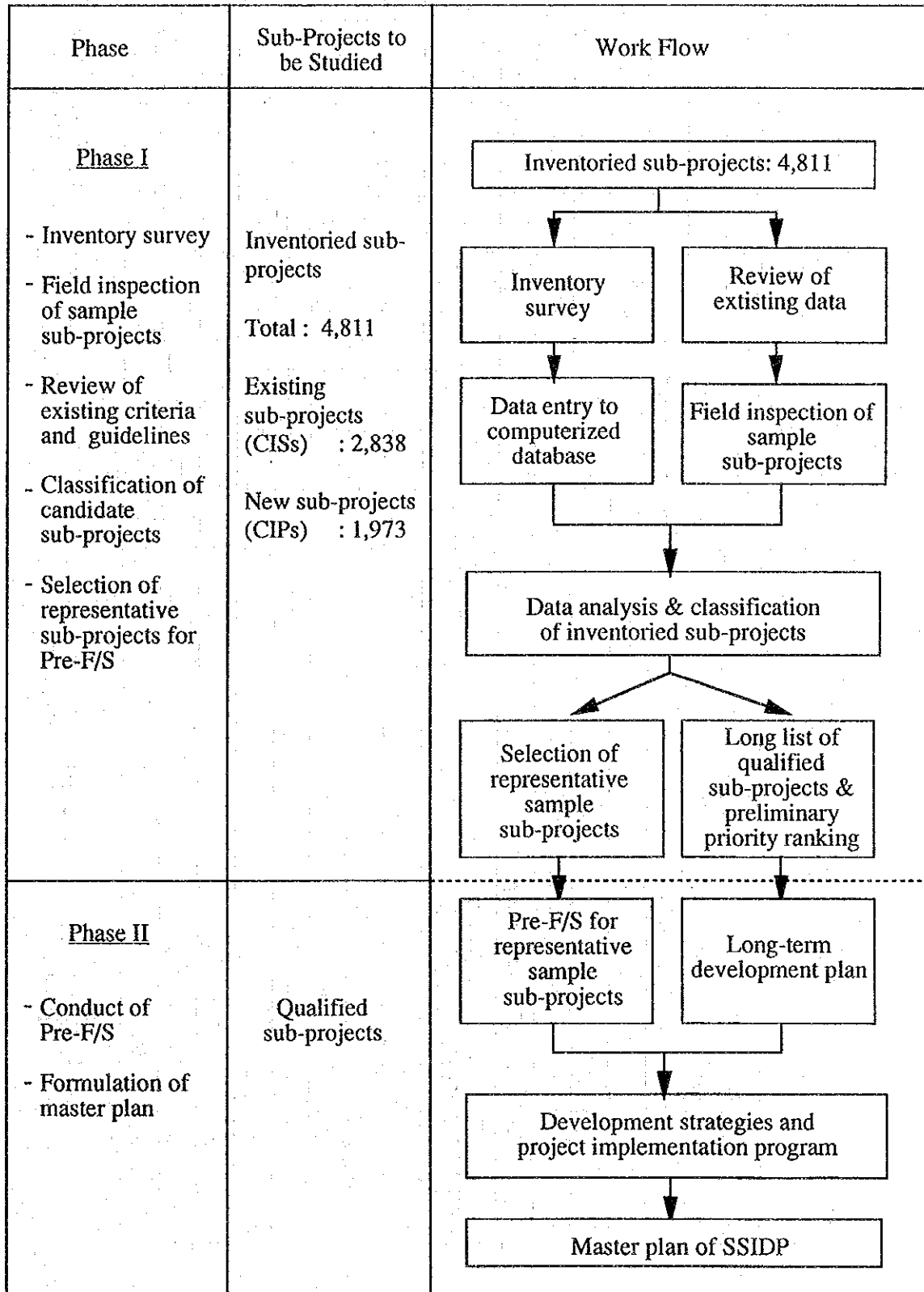


付図





調査業務の概略フローチャート

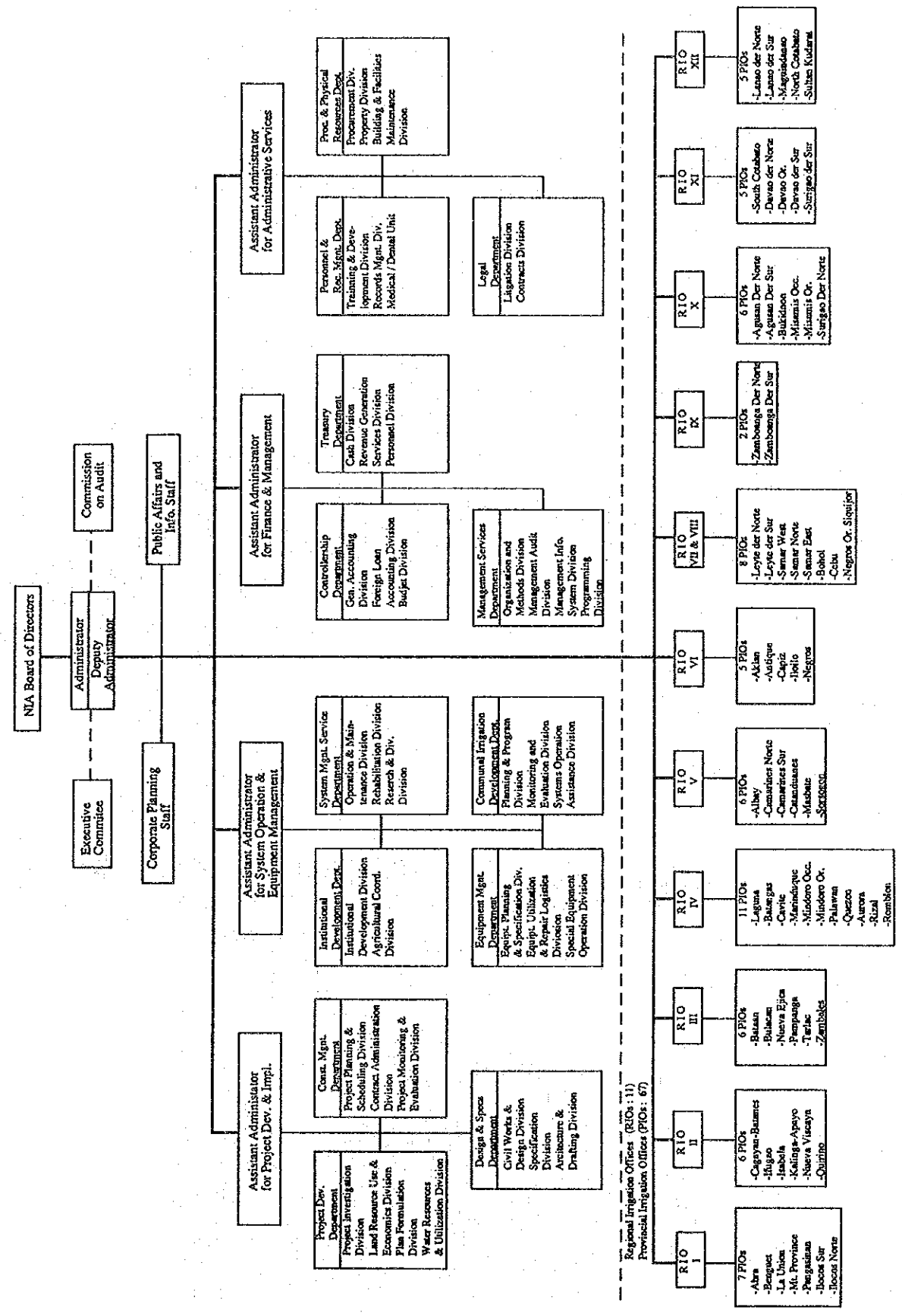


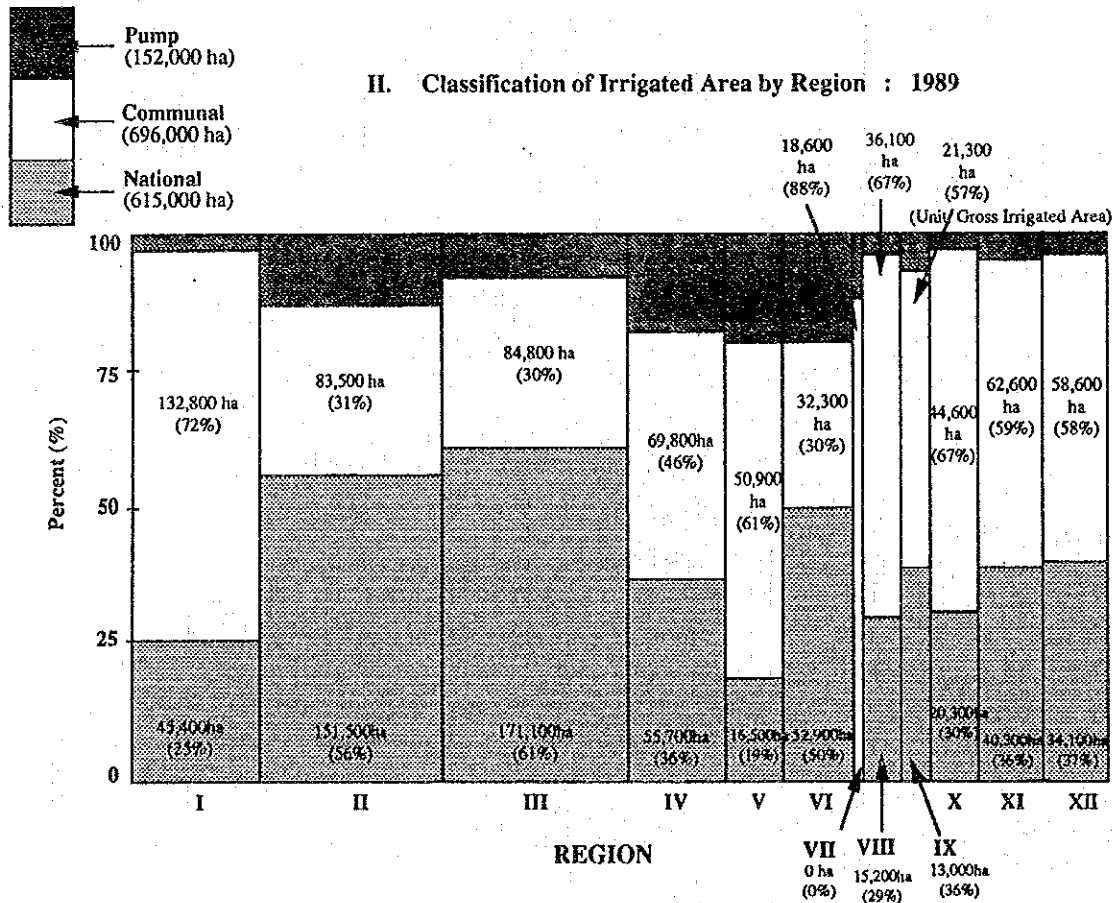
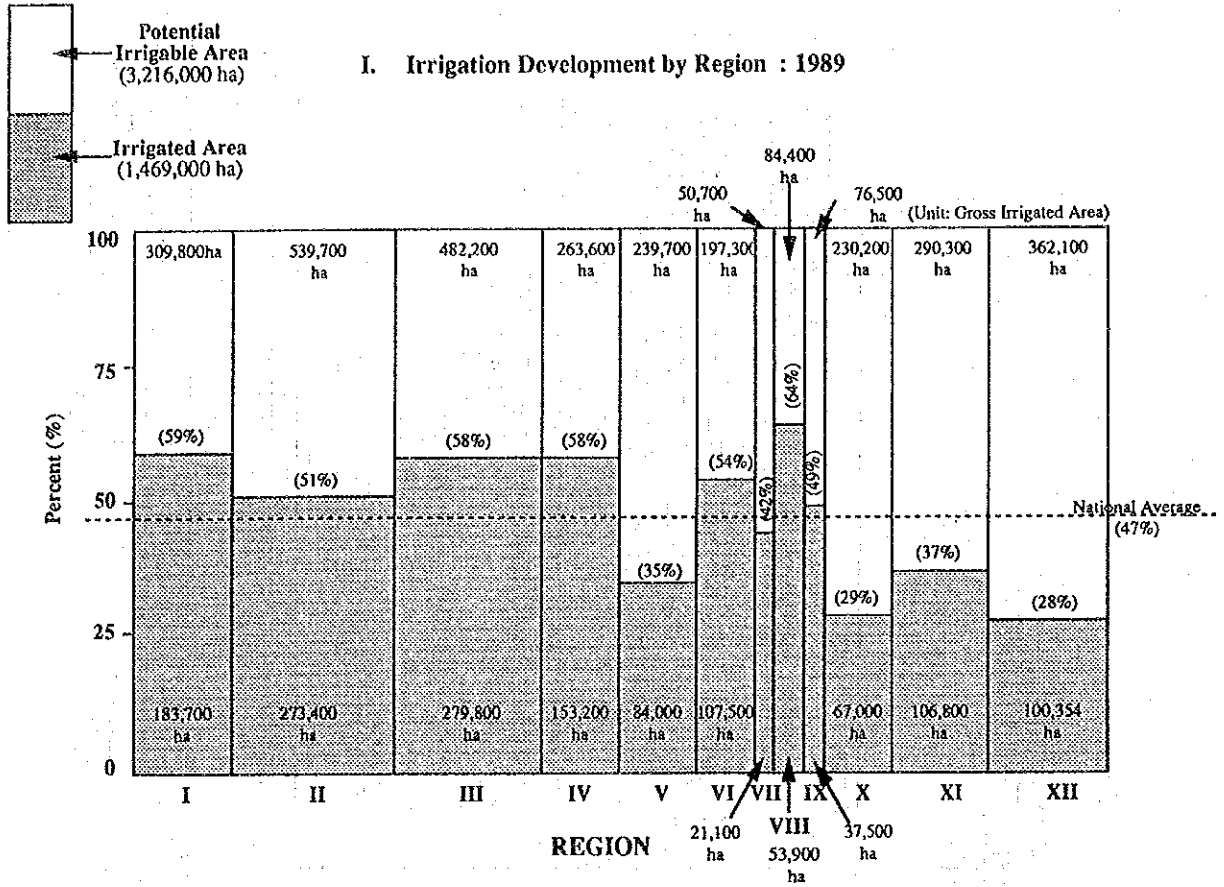
調査業務のスケジュール

Work Item	Year																				
	1990			1991			1992														
Period	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M
1. Phase I Study																					
(1) Preparatory Work in Japan																					
(2) Field Work in Philippines																					
(3) Home Office work in Japan																					
2. Phase II Study																					
(1) Field Work in Philippines																					
(2) Home Office work in Japan																					
(3) Explanation of Draft Final Report																					
(4) Preparation of Final Report																					
Reports																					
(1) Inception Report																					
(2) Progress Report (I)																					
(3) Interim Report																					
(4) Progress Report (II)																					
(5) Draft Final Report																					
(6) Final Report																					

— Preparatory Work in Japan  
 ■ Field Work in Philippines  
 □ Home Office work in Japan  
 △ Explanation of Draft Final Report

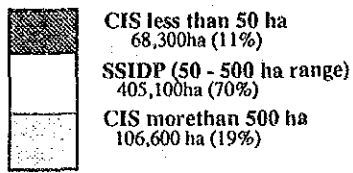
NIAの組織図





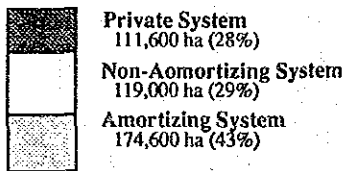
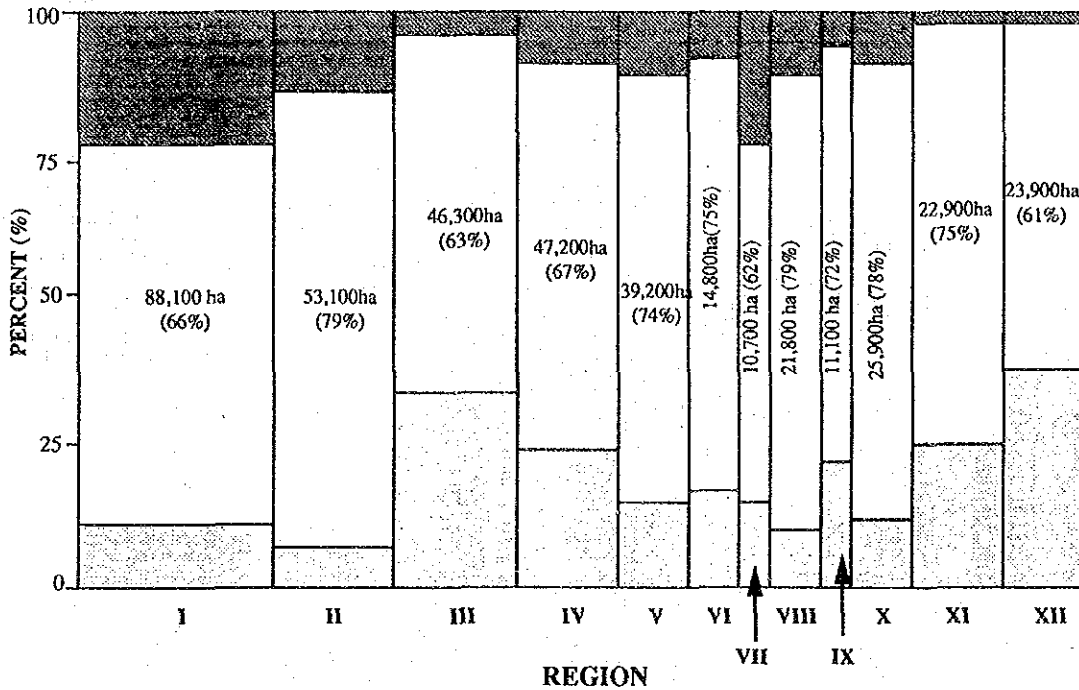
# 灌漑開発の現況 (2/2)

図 2-02 (2/2)



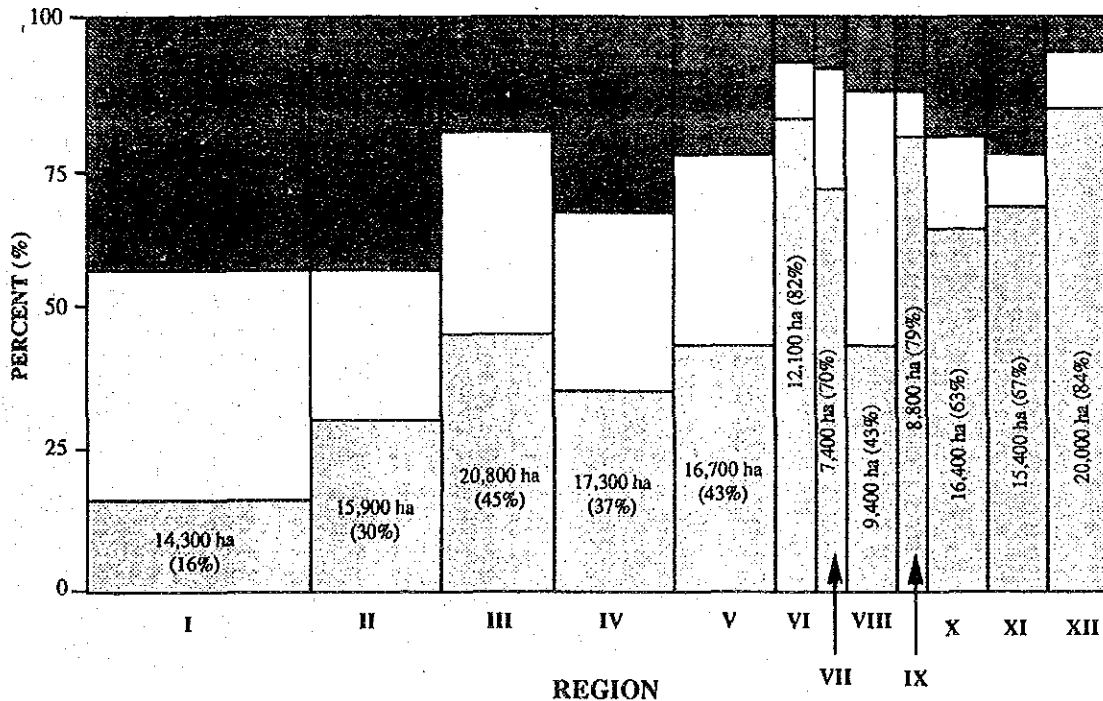
## STATUS OF COMMUNAL IRRIGATION DEVELOPMENT (CIS): 1989

(Unit: Firmed-up net irrigated area)

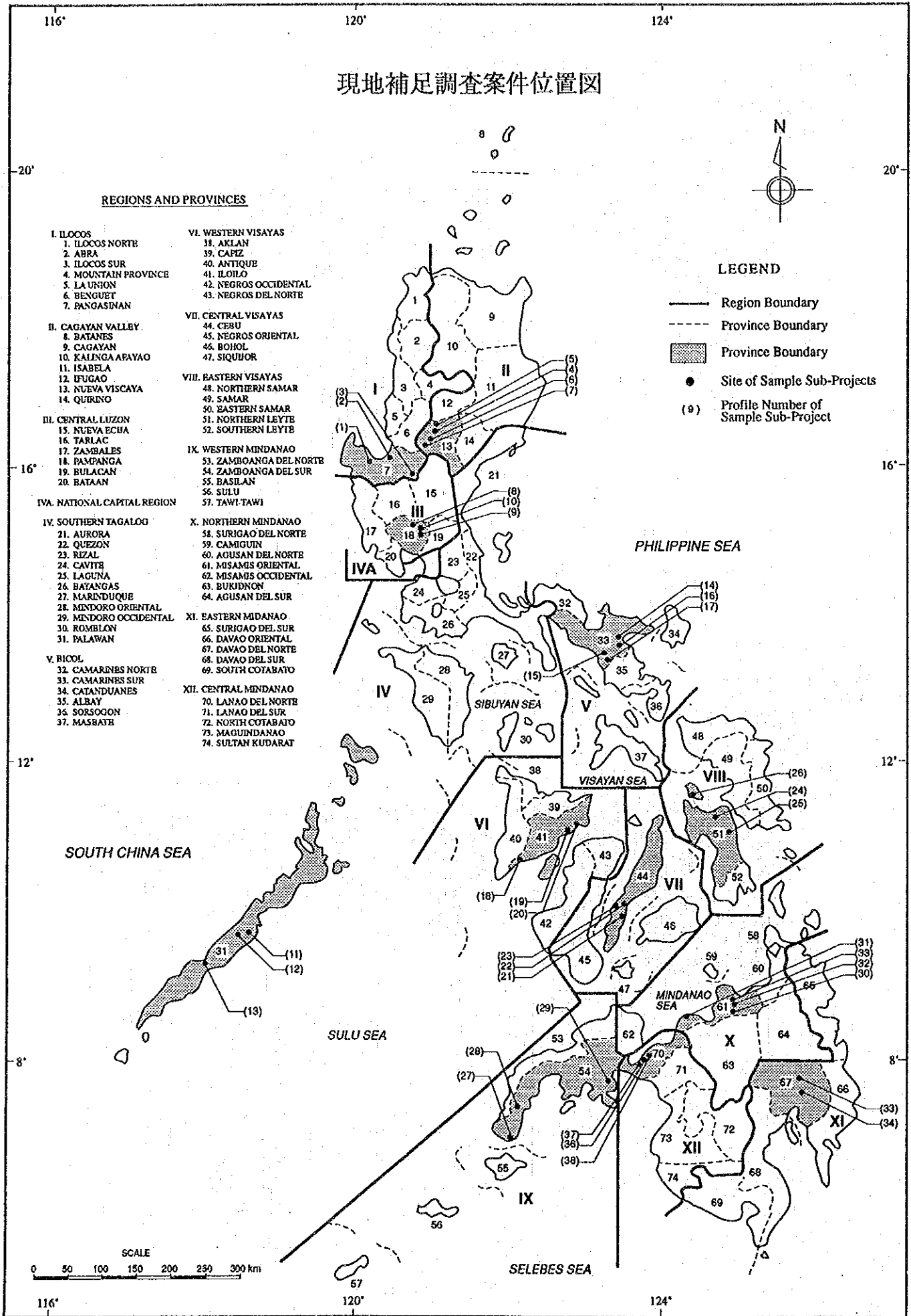


## STATUS OF SMALL SCALE IRRIGATION DEVELOPMENT (SSIDP): 1989

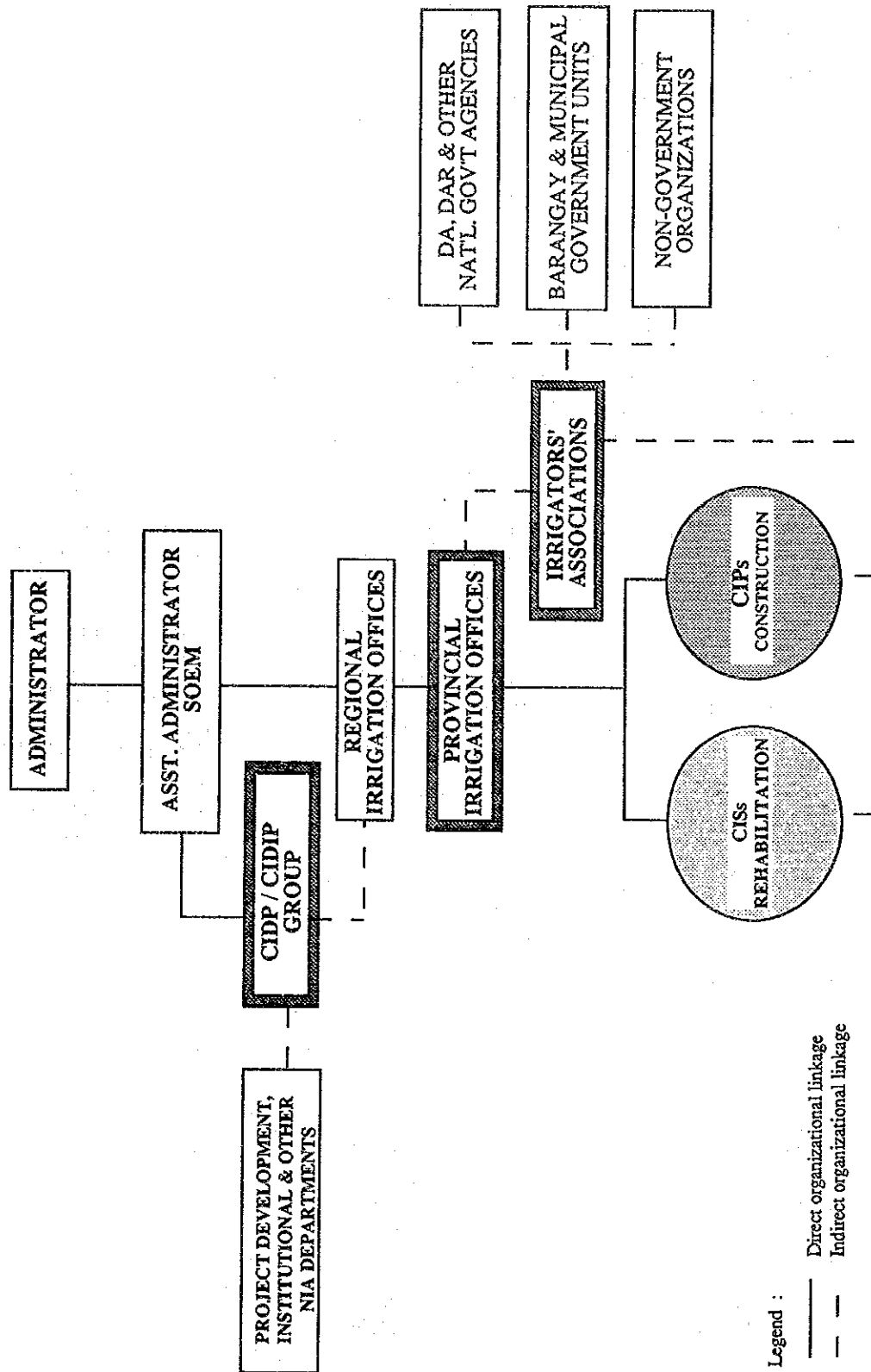
(Unit: Firmed-up net irrigated area)



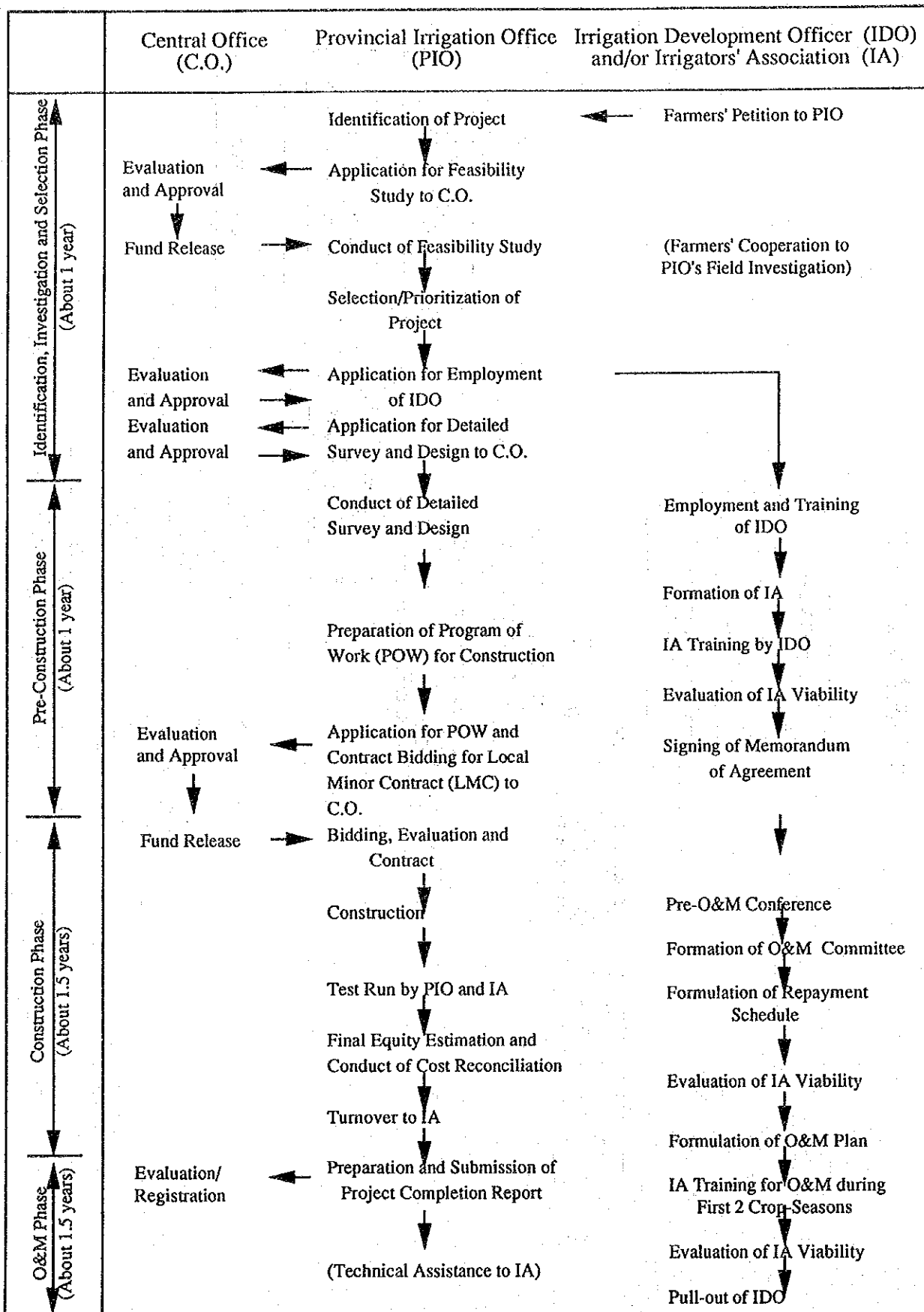
現地補足調査案件位置図



共同灌溉事業実施体制



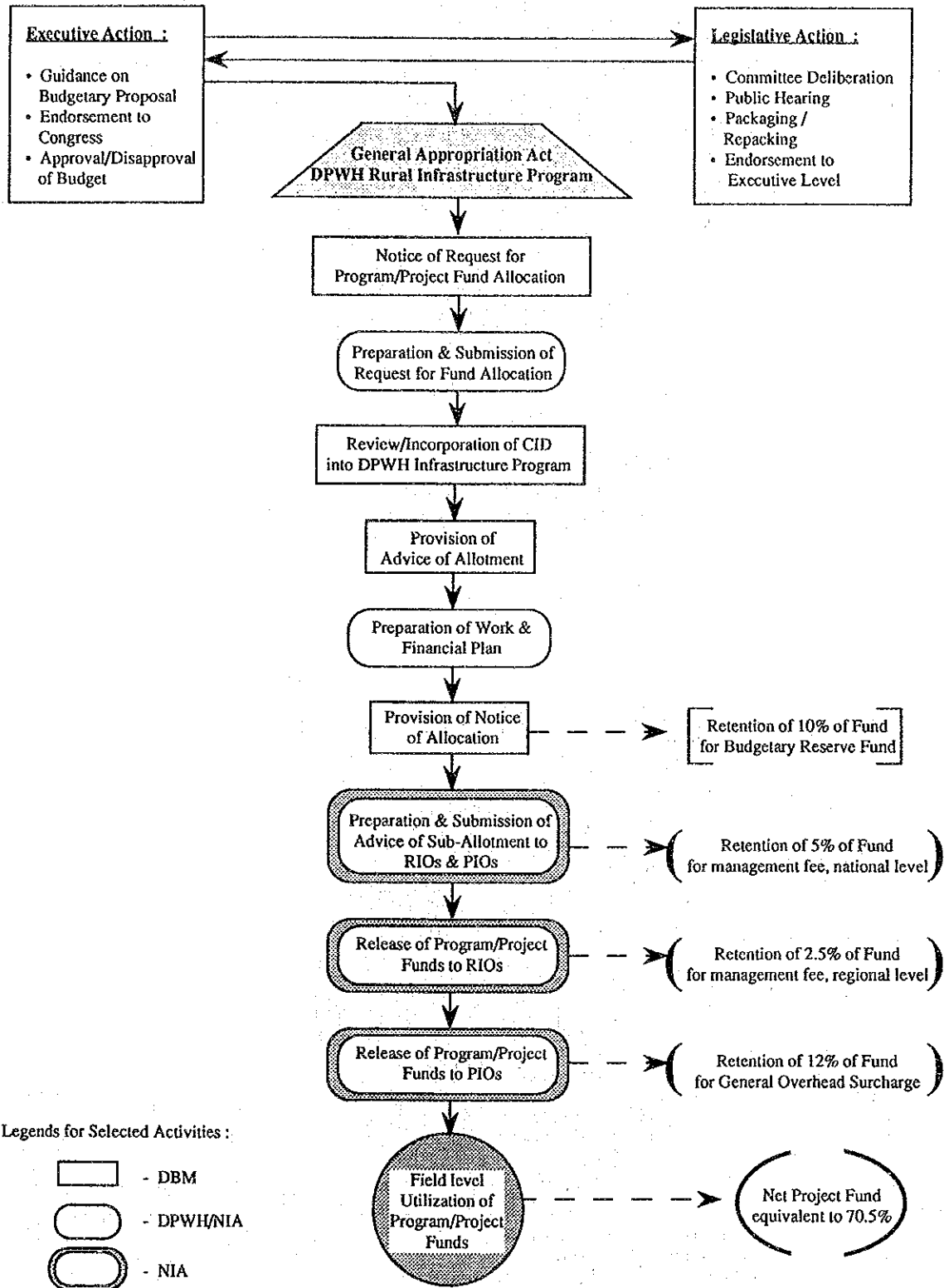
共同灌漑事業の実施流れ図



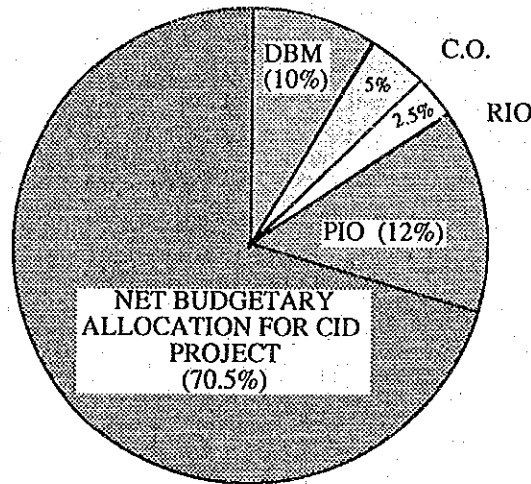
Note : Application and Submission from PIO to C.O. are made through the Regional Irrigation Office.



共同灌漑事業の予算計上と予算執行の流れ



共同灌漑事業予算における留保金の一般的内訳

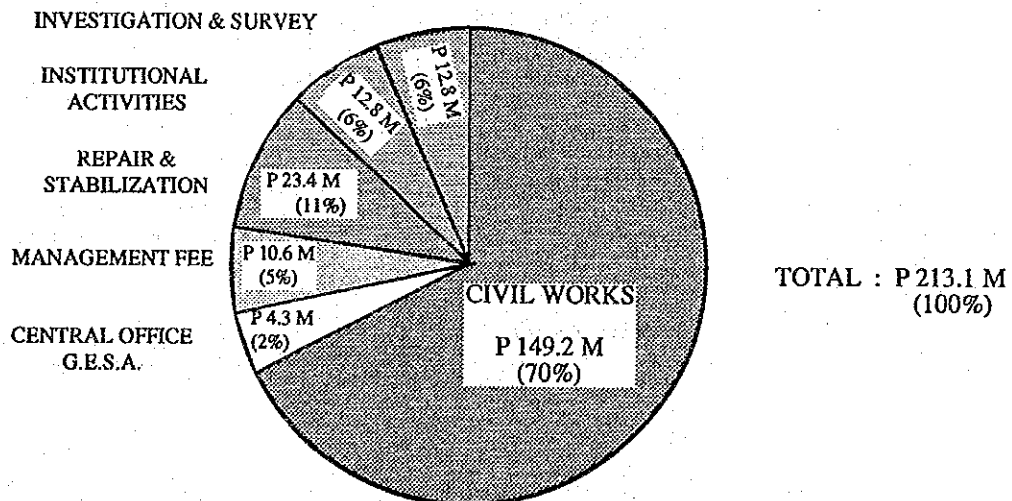


TOTAL : 100%

Notes :

- DBM - 10% for government contingency plan
- NIA/CO - 5% for management fee at national level
- RIO - 2.5% for management fee at regional level
- PIO - 12% for General Overhead Surcharge (GOS)
- Total 29.5%

1991年度の共同灌漑事業予算の配分 (支出項目別)

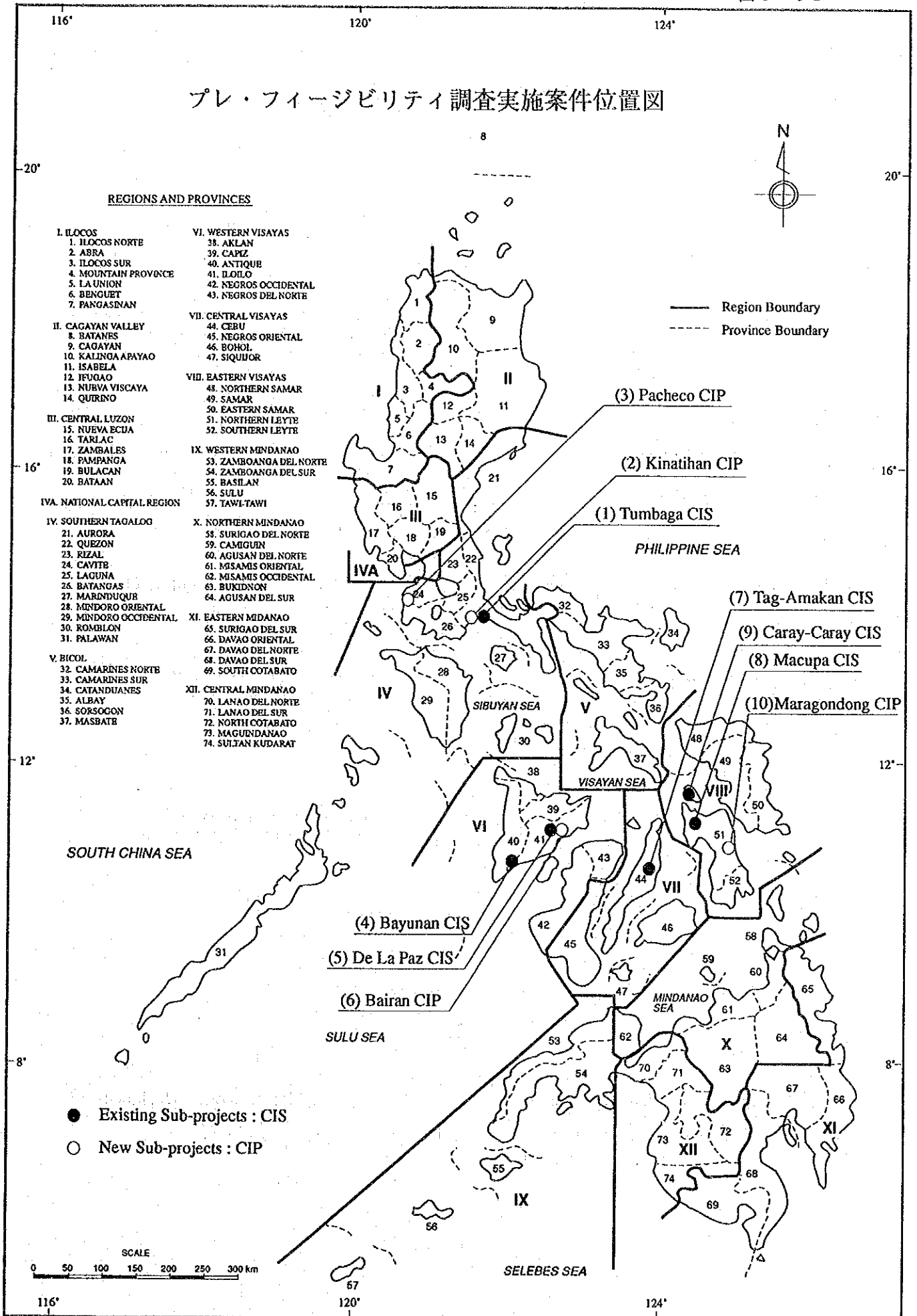


Notes :

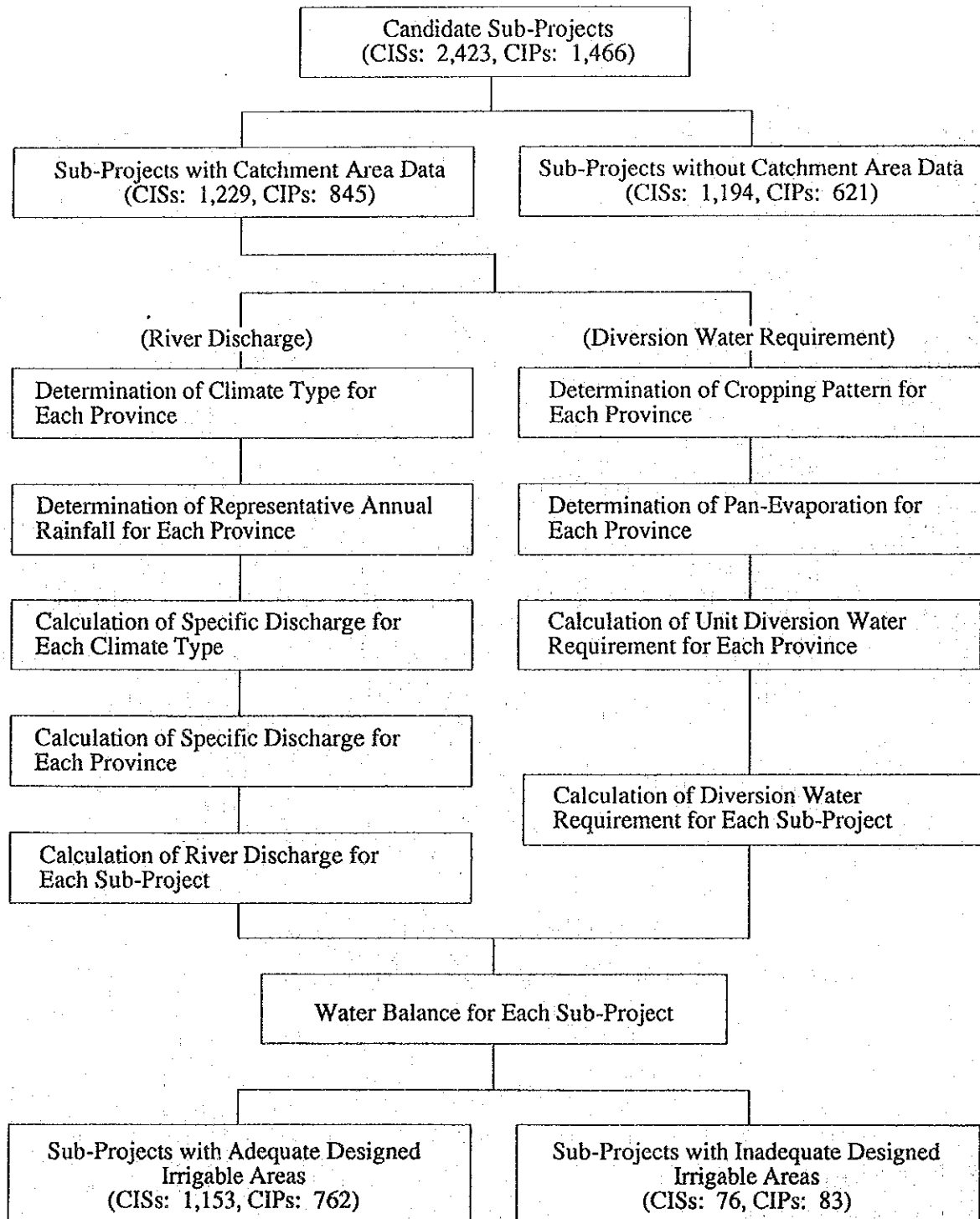
- G.E.S.A. - General Engineering, Supervision and Administration
- Civil Works - Direct cost for implementation
- RIO/PIO G.E.S.A. (maximum of 12% of direct cost)
- Contingency (maximum of 12% of direct cost)

Source : NIA CIDP/CIDIP GROUP

プレ・フィージビリティ調査実施案件位置図

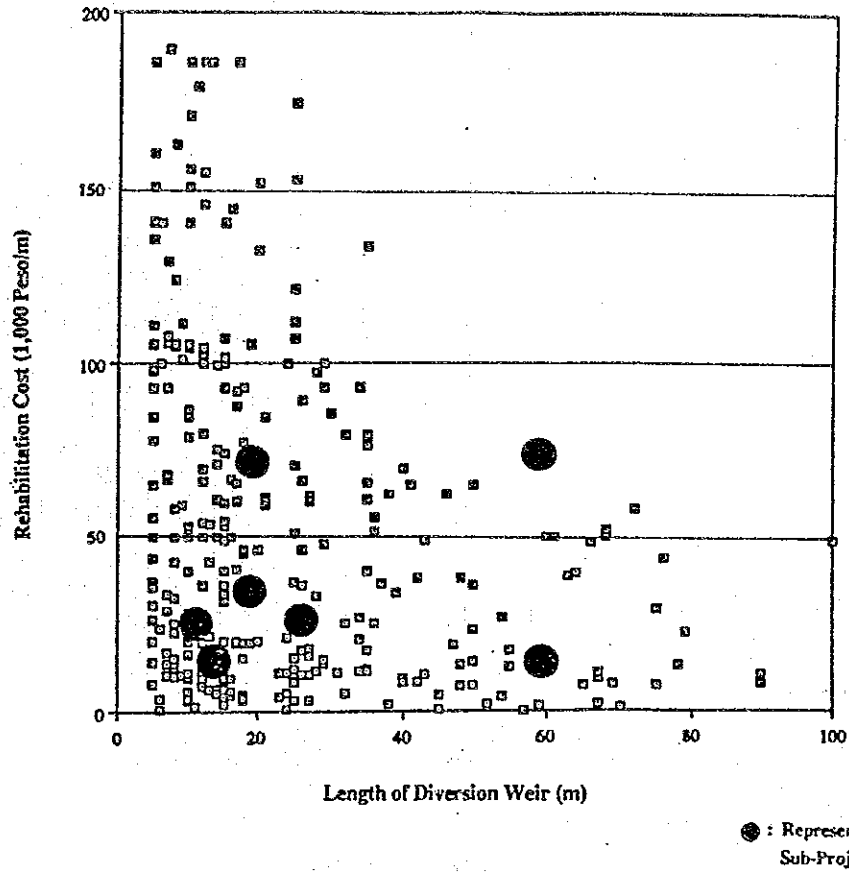


計画灌漑面積検証作業流れ図

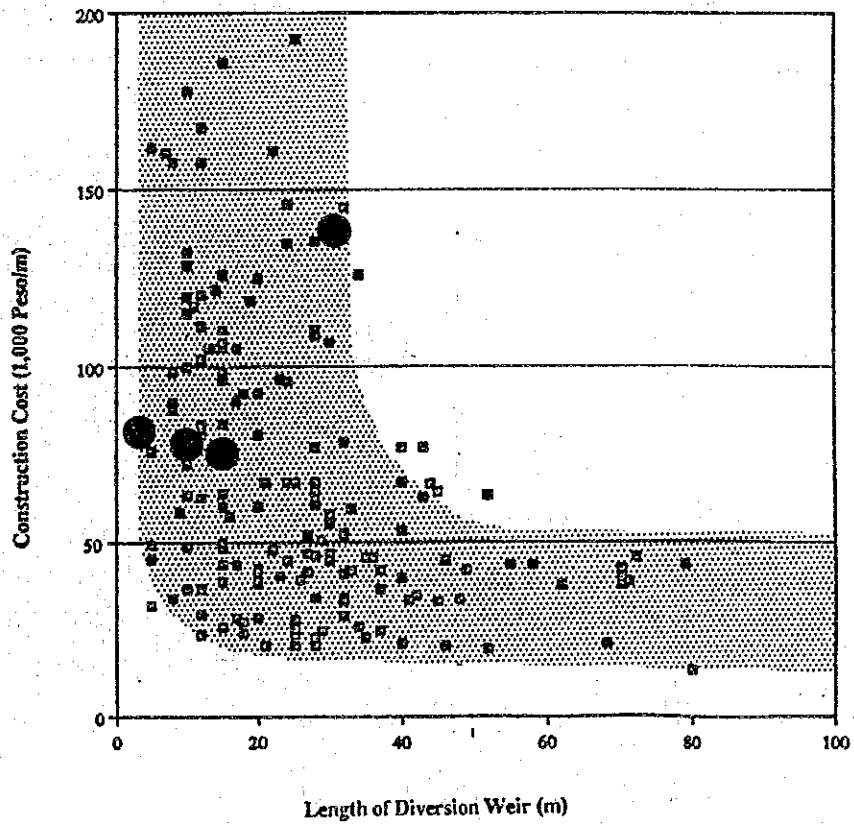


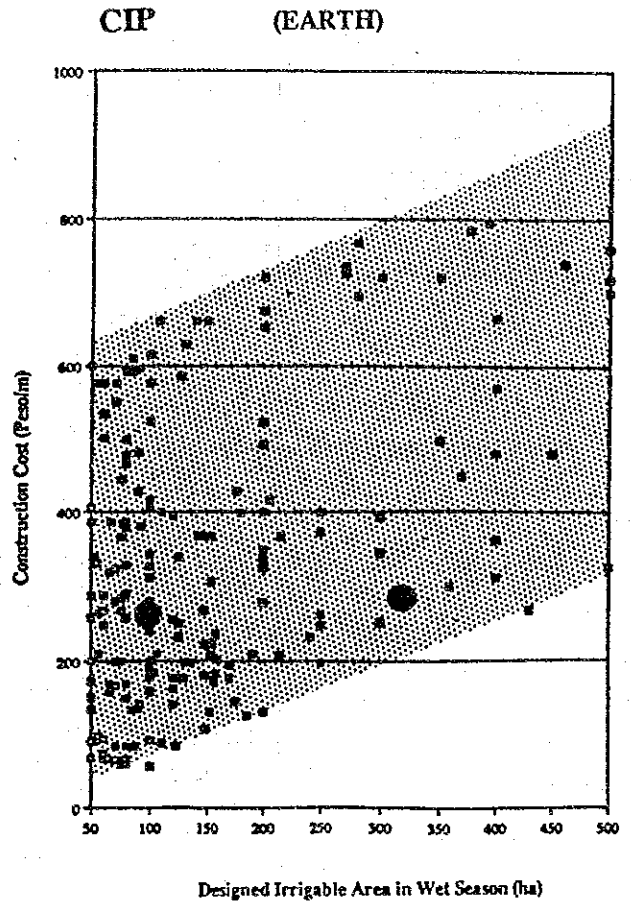
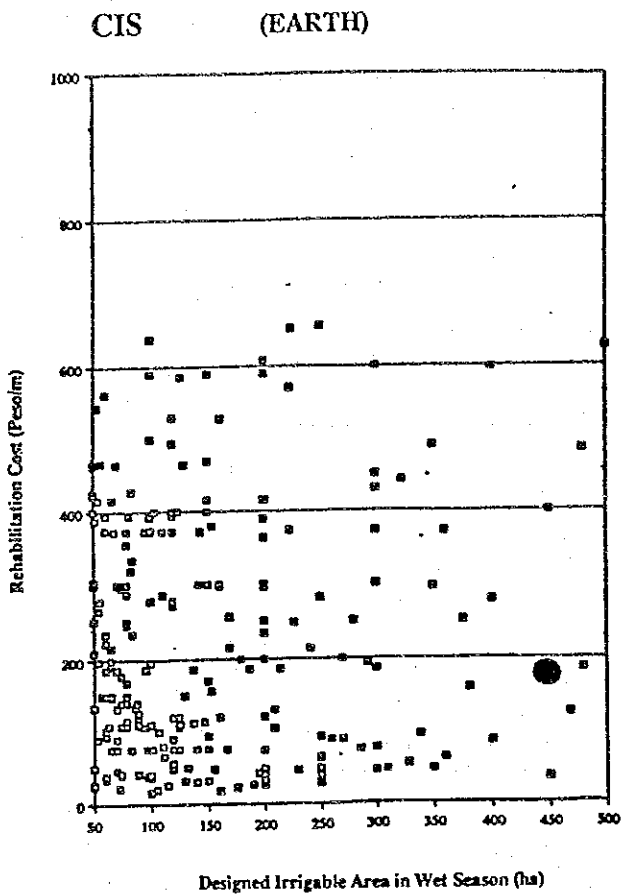
単位長当たり取水堰工事金額：CIS/CIP

CIS

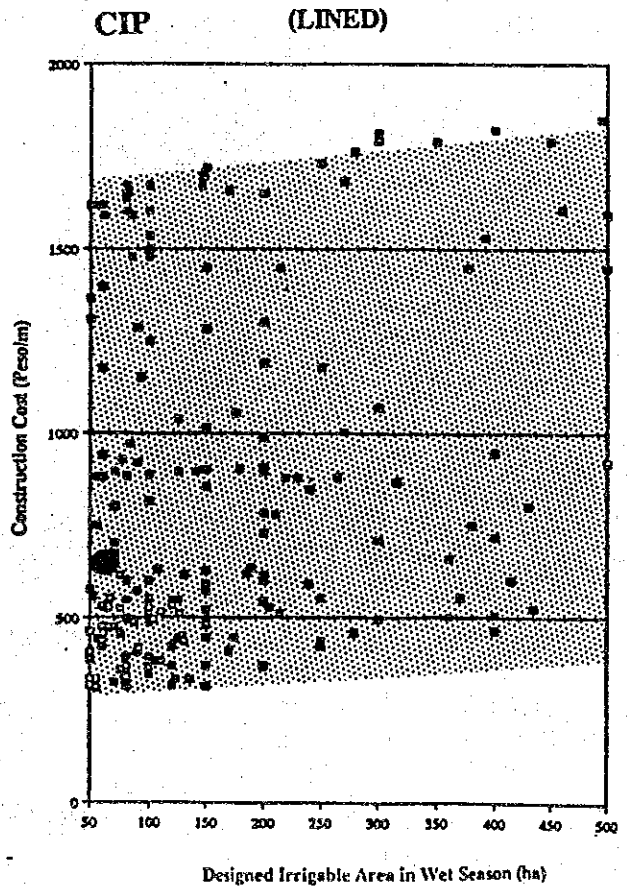
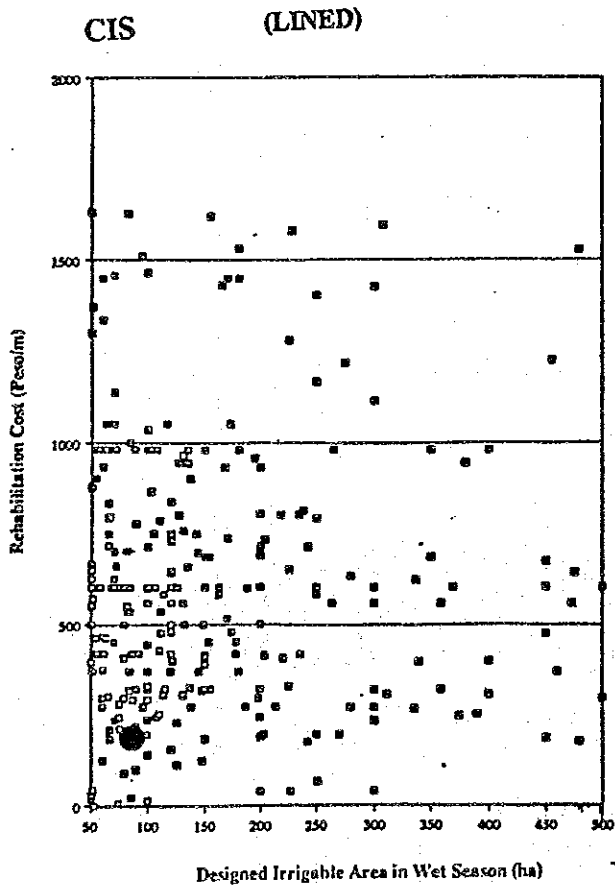


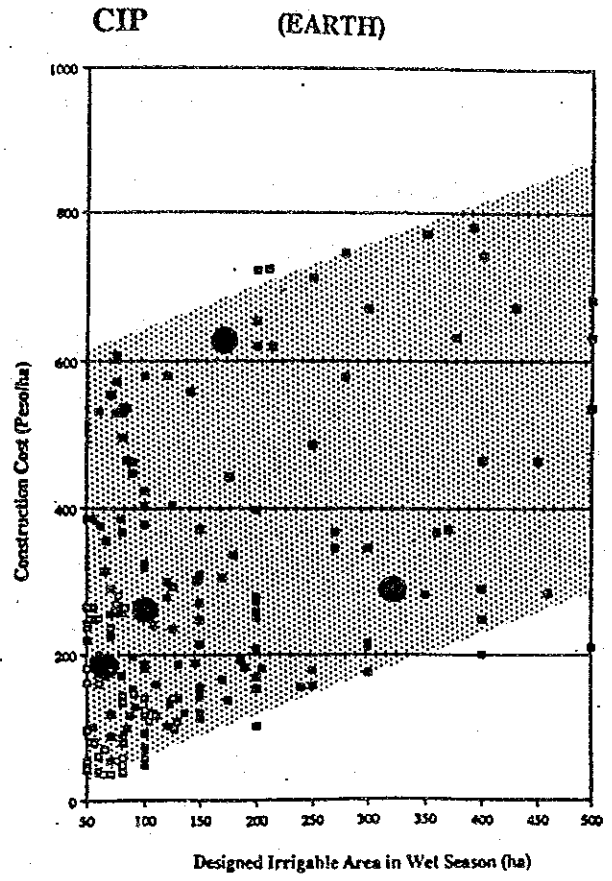
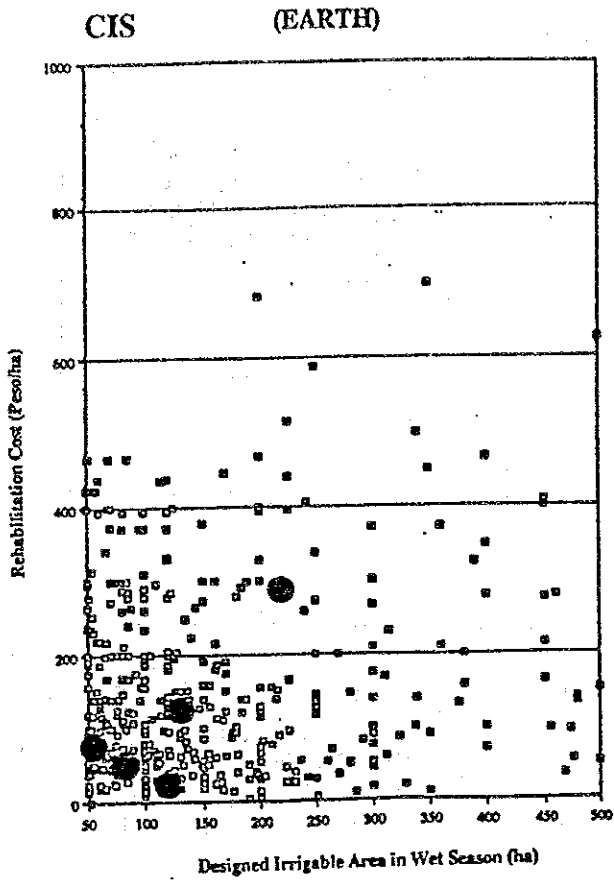
CIP



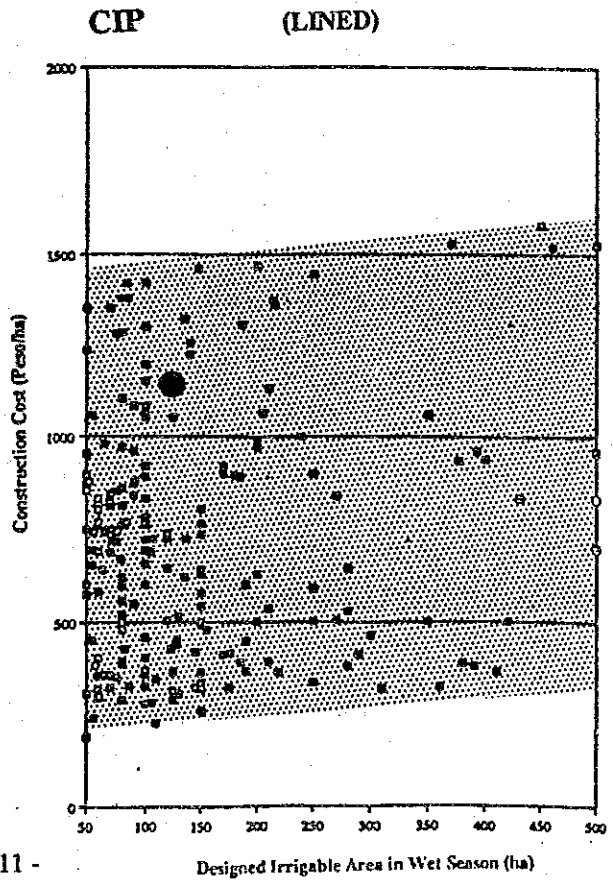
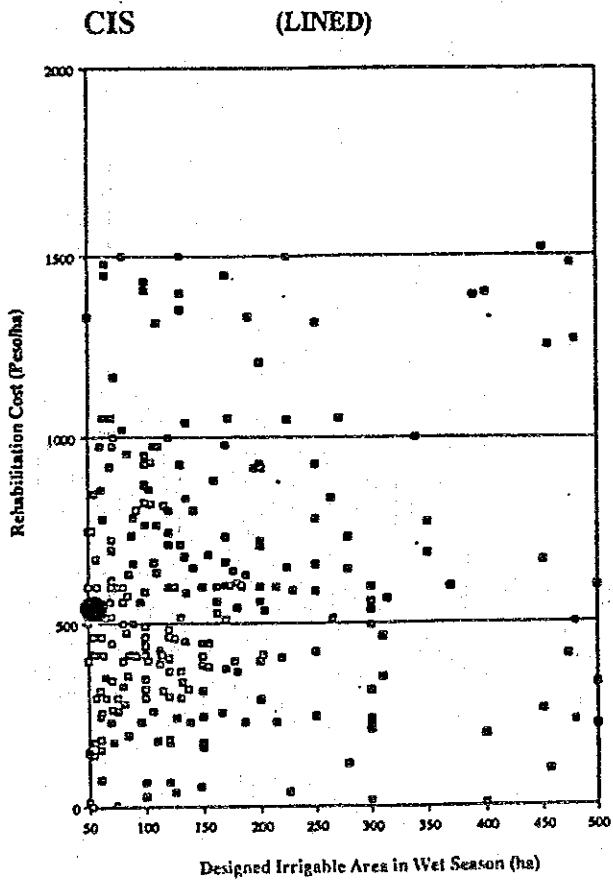


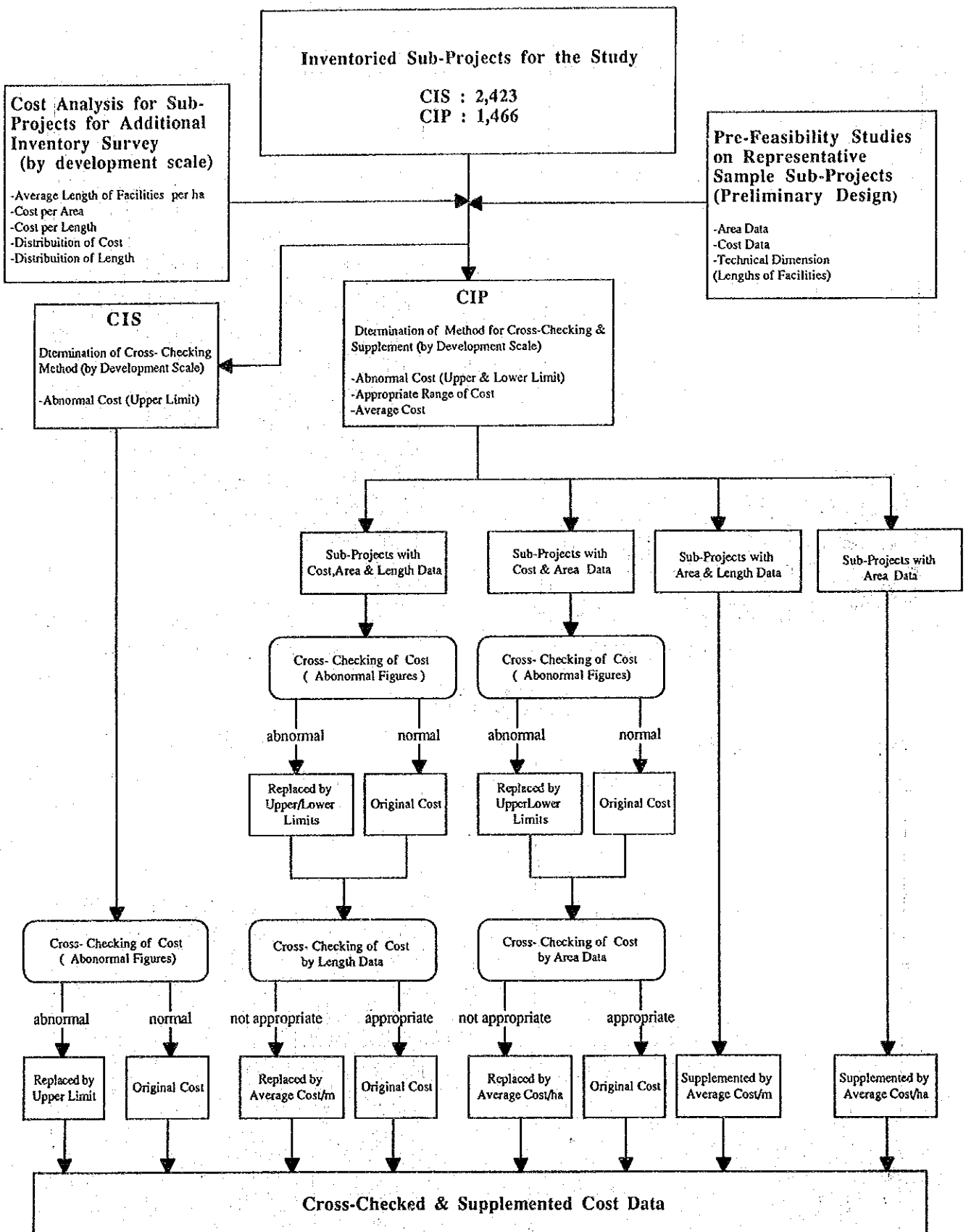
● : Representative Sample  
Sub-Project for Pre-FIS



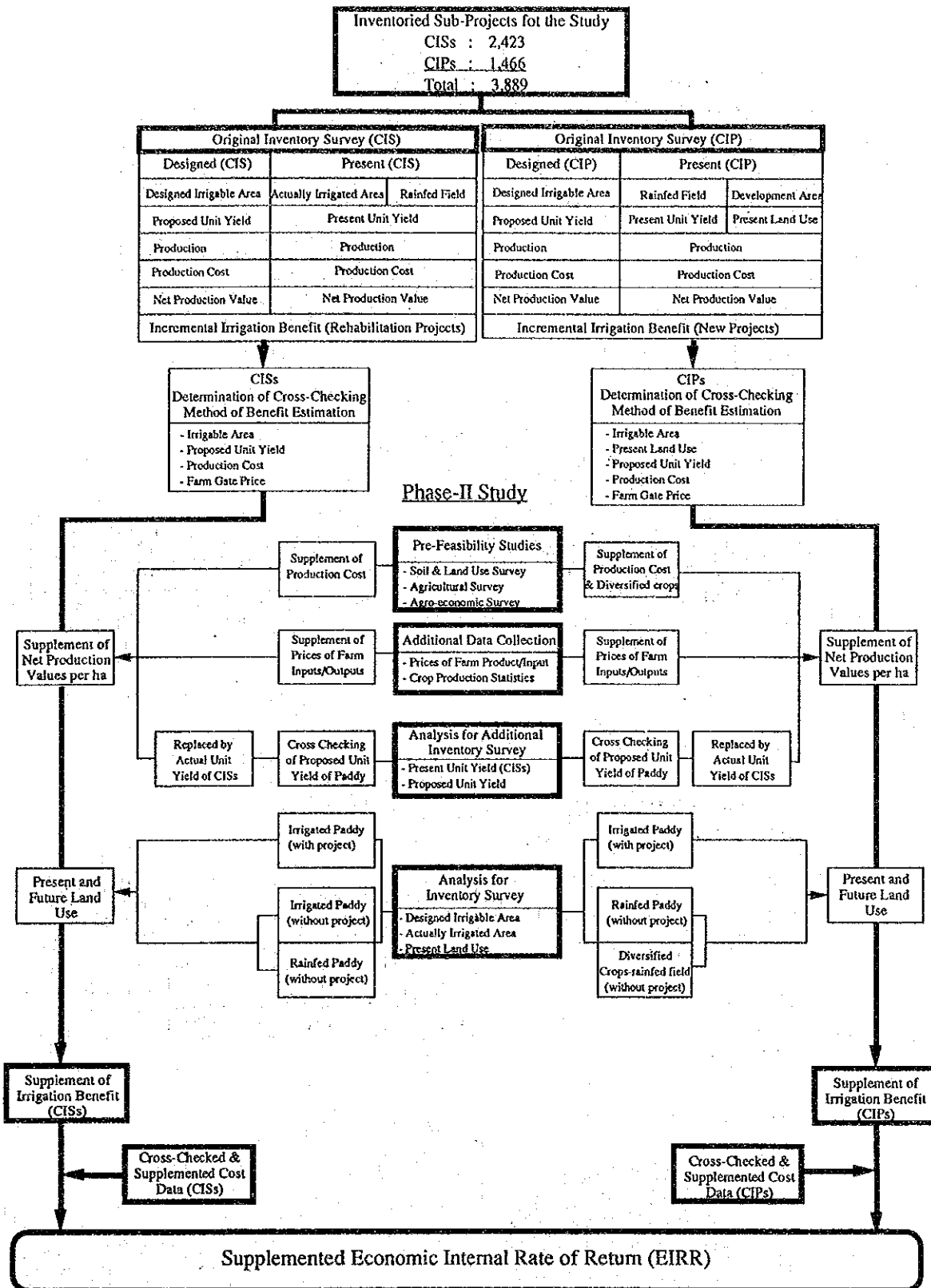


● : Representative Sample  
Sub-Project for Pre-FIS



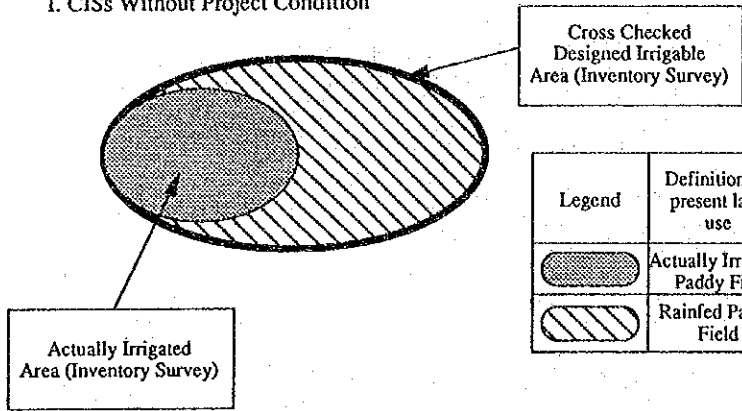






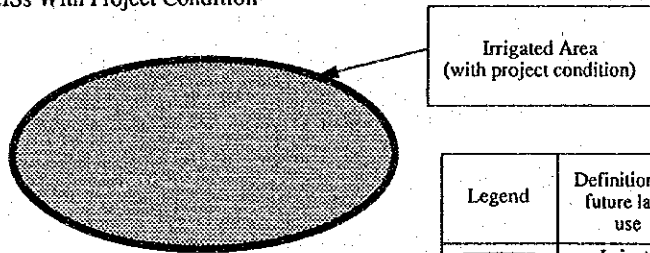
CISs

I. CISs Without Project Condition



Legend	Definition of present land use	Definition of the unit yield	Unit Yield of Paddy ton/ha (average)	
			Wet Season	Dry Season
	Actually Irrigated Paddy Field	Present Paddy Yield of CISs	3.6	3.6
	Rainfed Paddy Field	Present Paddy Yield of CIPs	2.7	2.9

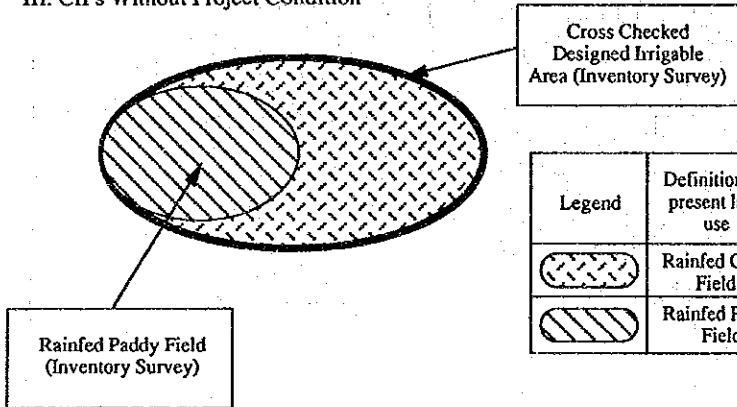
II. CISs With Project Condition



Legend	Definition of future land use	Definition of the unit yield	Unit Yield of Paddy ton/ha (average)	
			Wet Season	Dry Season
	Irrigated Paddy Field	Present Paddy Yield of CISs	3.6	3.6

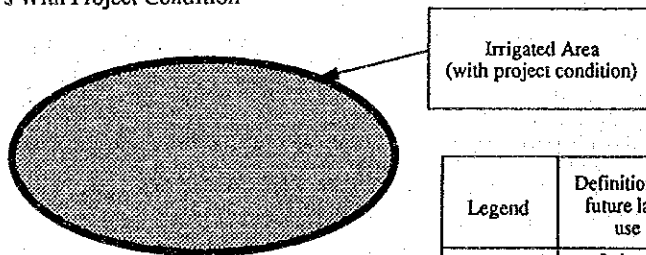
CIPs

III. CIPs Without Project Condition



Legend	Definition of present land use	Definition of the unit yield	Unit Yield ton/ha (average)	
			Wet Season	Dry Season
	Rainfed Corn Field	Average Corn Yield	1.0	1.0
	Rainfed Paddy Field	Present Paddy Yield of CIPs	2.7	2.9

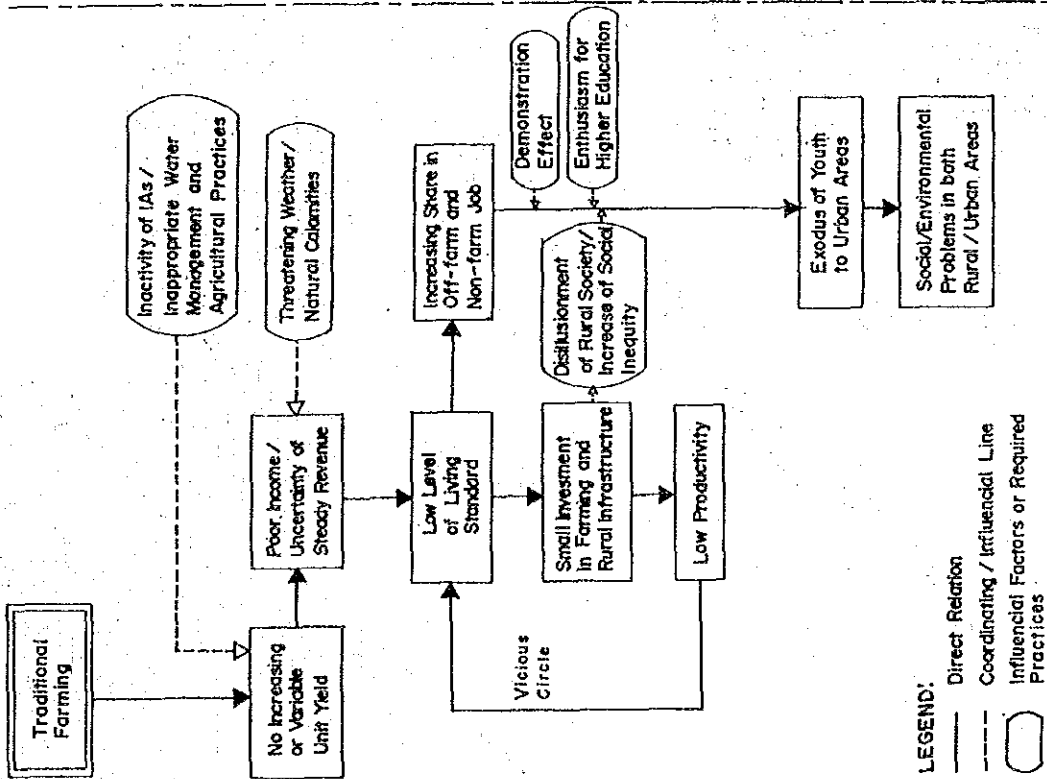
IV. CIPs With Project Condition



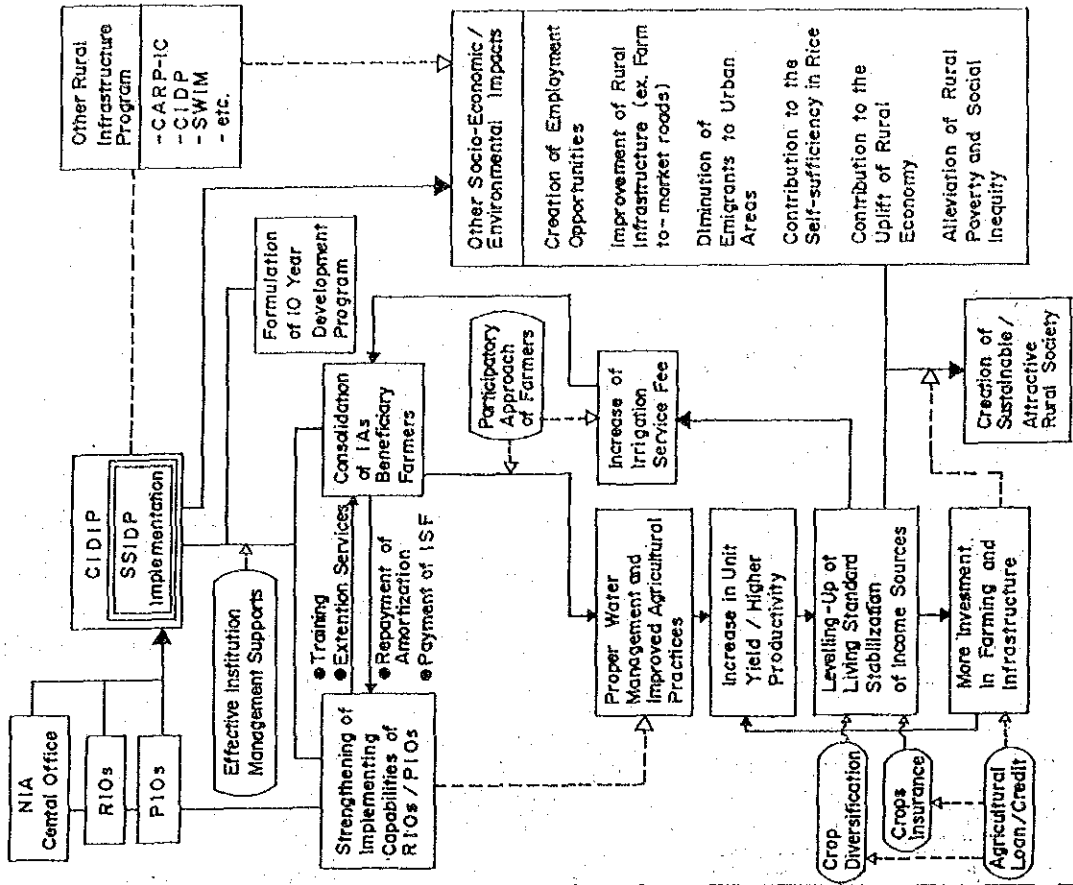
Legend	Definition of future land use	Definition of the unit yield	Unit Yield of Paddy ton/ha (average)	
			Wet Season	Dry Season
	Irrigated Paddy Field	Present Paddy Yield of CISs	3.6	3.6

農村開発における社会／経済インパクトの構図

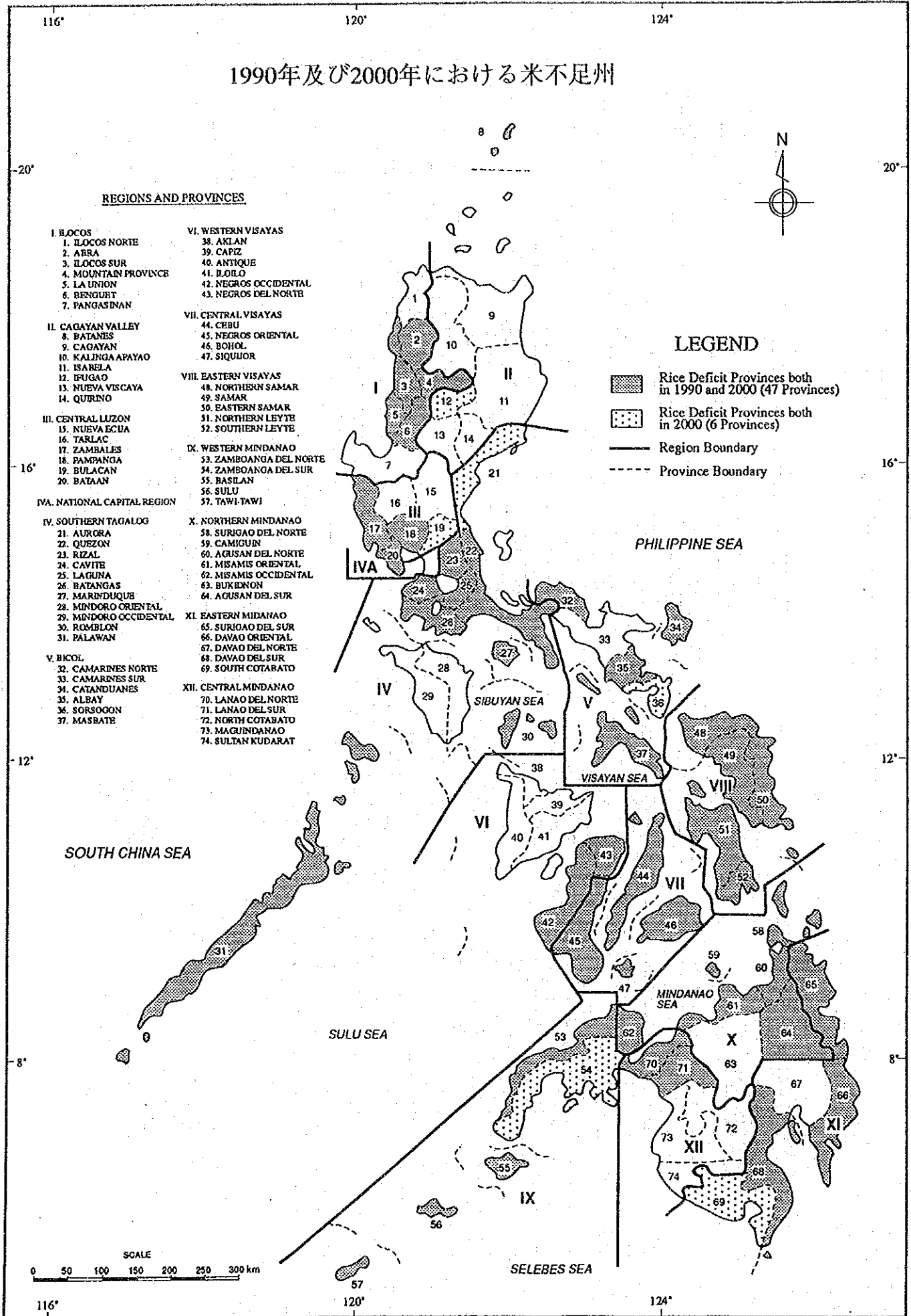
EVENTUAL PROBLEM STRUCTURE



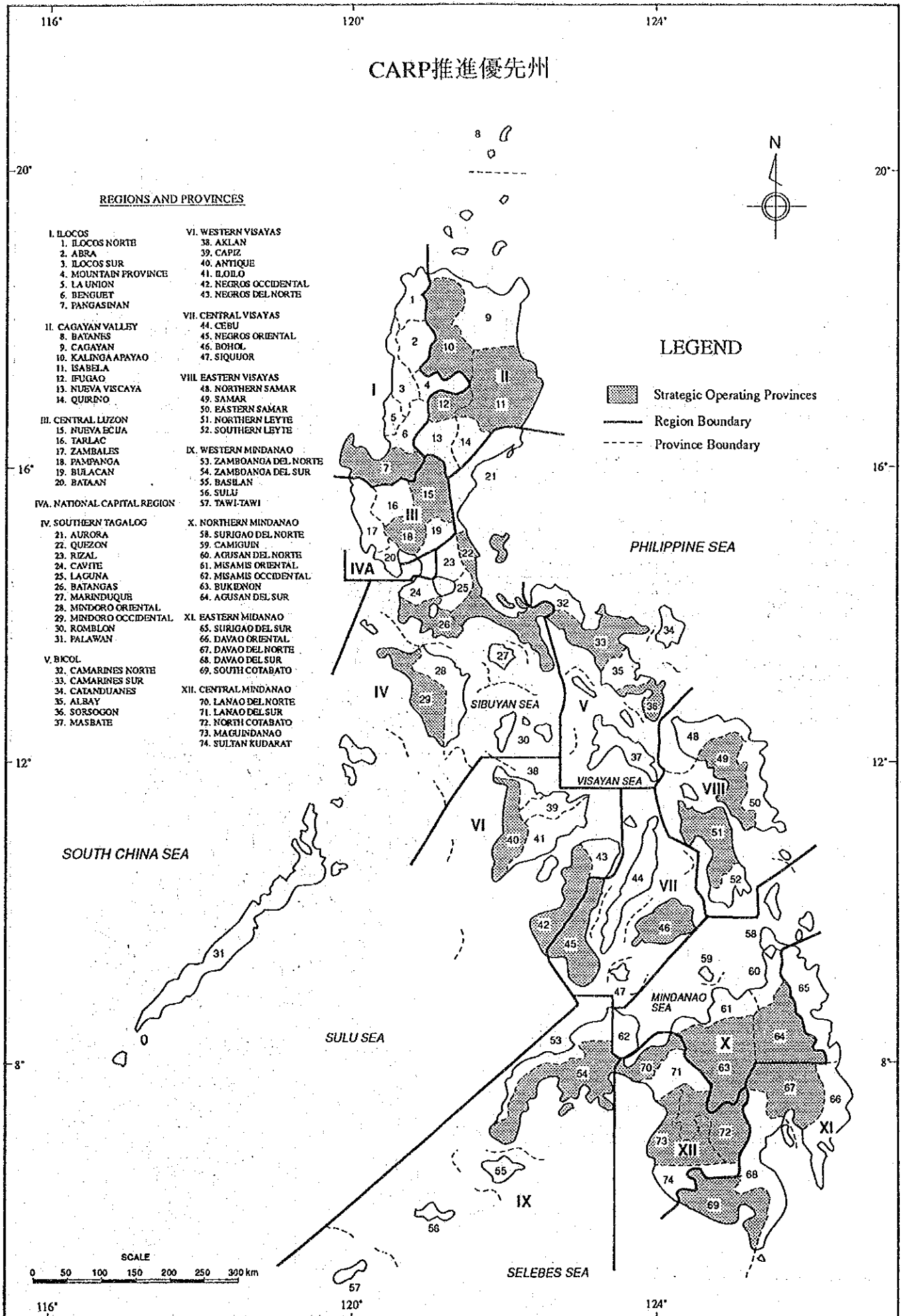
EFFECTS OF SSIDP IMPLEMENTATION



1990年及び2000年における米不足州



# CARP 推進優先州



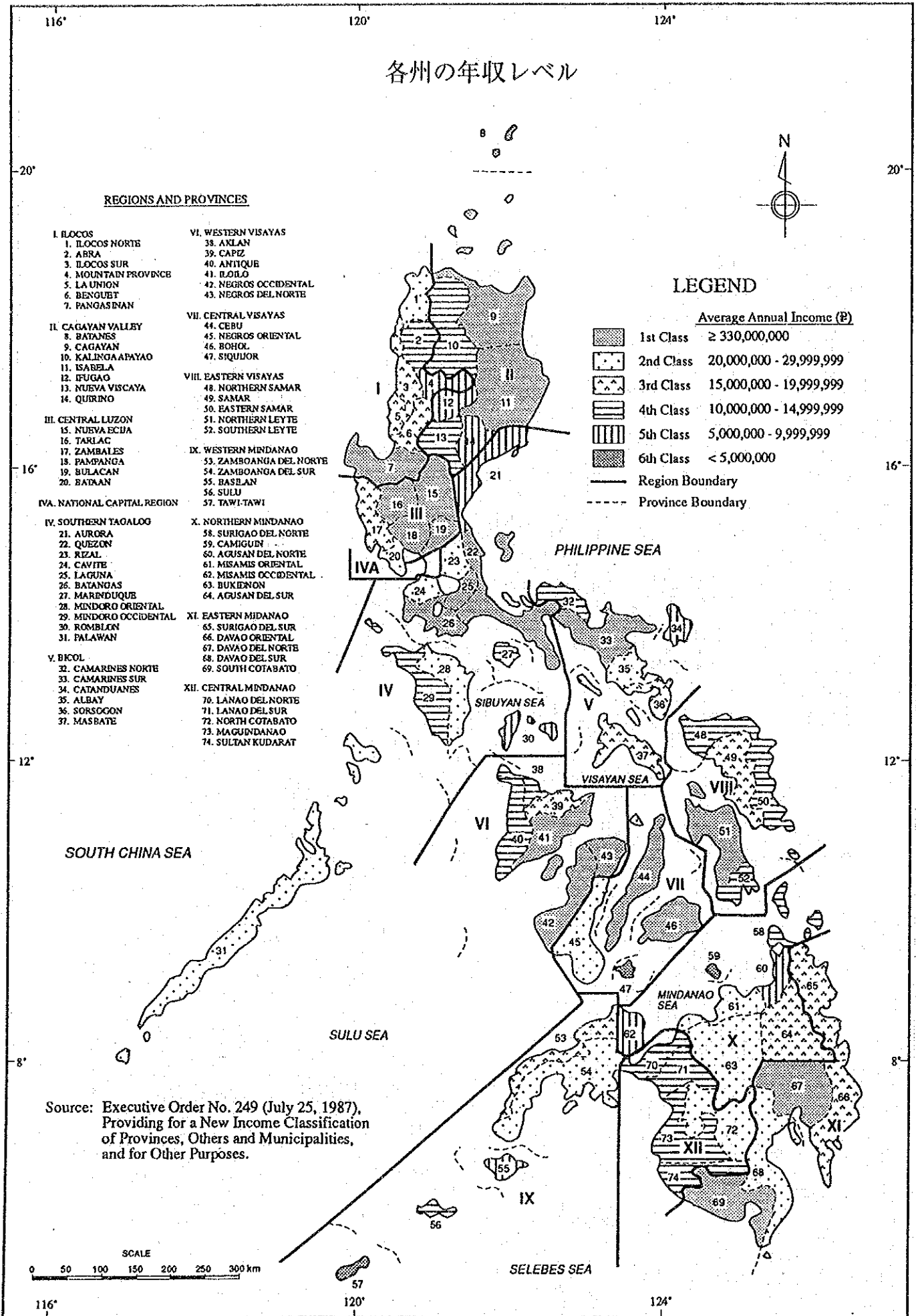
**REGIONS AND PROVINCES**

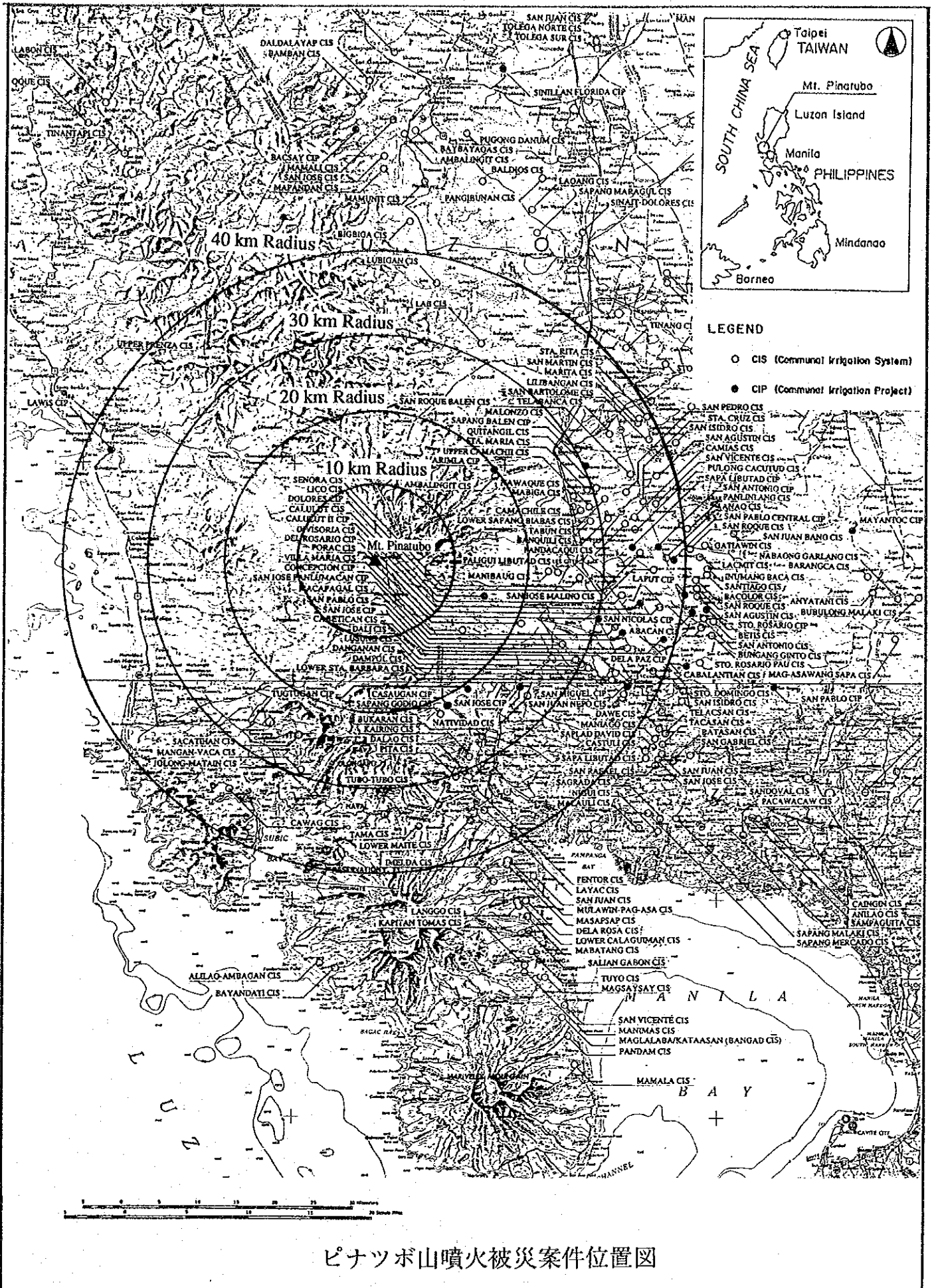
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| <p><b>I. ILOCOS</b></p> <ul style="list-style-type: none"> <li>1. ILOCOS NORTE</li> <li>2. ABRA</li> <li>3. ILOCOS SUR</li> <li>4. MOUNTAIN PROVINCE</li> <li>5. LA UNION</li> <li>6. BENGUET</li> <li>7. PANGASINAN</li> </ul> <p><b>II. CAGAYAN VALLEY</b></p> <ul style="list-style-type: none"> <li>8. BATANES</li> <li>9. CAGAYAN</li> <li>10. KALINGA APAYAO</li> <li>11. ISABELA</li> <li>12. IFUGAO</li> <li>13. NUEVA VISCAYA</li> <li>14. QUIRINO</li> </ul> <p><b>III. CENTRAL LUZON</b></p> <ul style="list-style-type: none"> <li>15. NUEVA ECUIA</li> <li>16. TARLAC</li> <li>17. ZAMBALES</li> <li>18. PAMPANGA</li> <li>19. BULACAN</li> <li>20. BATAAN</li> </ul> <p><b>IVA. NATIONAL CAPITAL REGION</b></p> <p><b>IV. SOUTHERN TAGALOG</b></p> <ul style="list-style-type: none"> <li>21. AURORA</li> <li>22. QUEZON</li> <li>23. RIZAL</li> <li>24. CAVITE</li> <li>25. LAGUNA</li> <li>26. BATANGAS</li> <li>27. MARINDUQUE</li> <li>28. MENDO RO ORIENTAL</li> <li>29. MENDO RO OCCIDENTAL</li> <li>30. ROMBLON</li> <li>31. PALAWAN</li> </ul> <p><b>V. BICOL</b></p> <ul style="list-style-type: none"> <li>32. CAMARINES NORTE</li> <li>33. CAMARINES SUR</li> <li>34. CATANDUANES</li> <li>35. ALBAY</li> <li>36. SORSOGON</li> <li>37. MASBATE</li> </ul> | <p><b>VI. WESTERN VISAYAS</b></p> <ul style="list-style-type: none"> <li>38. AKLAN</li> <li>39. CAPIZ</li> <li>40. ANTIQUE</li> <li>41. ILOILO</li> <li>42. NEGROS OCCIDENTAL</li> <li>43. NEGROS DEL NORTE</li> </ul> <p><b>VII. CENTRAL VISAYAS</b></p> <ul style="list-style-type: none"> <li>44. CEBU</li> <li>45. NEGROS ORIENTAL</li> <li>46. BOHOL</li> <li>47. SIQUOR</li> </ul> <p><b>VIII. EASTERN VISAYAS</b></p> <ul style="list-style-type: none"> <li>48. NORTHERN SAMAR</li> <li>49. SAMAR</li> <li>50. EASTERN SAMAR</li> <li>51. NORTHERN LEYTE</li> <li>52. SOUTHERN LEYTE</li> </ul> <p><b>IX. WESTERN MINDANAO</b></p> <ul style="list-style-type: none"> <li>53. ZAMBOANGA DEL NORTE</li> <li>54. ZAMBOANGA DEL SUR</li> <li>55. BASILAN</li> <li>56. SULU</li> <li>57. TAWI-TAWI</li> </ul> <p><b>X. NORTHERN MINDANAO</b></p> <ul style="list-style-type: none"> <li>58. SURIGAO DEL NORTE</li> <li>59. CAMIQUIN</li> <li>60. AGUSAN DEL NORTE</li> <li>61. MISAMIS ORIENTAL</li> <li>62. MISAMIS OCCIDENTAL</li> <li>63. BUKENON</li> <li>64. AGUSAN DEL SUR</li> </ul> <p><b>XI. EASTERN MINDANAO</b></p> <ul style="list-style-type: none"> <li>65. SURIGAO DEL SUR</li> <li>66. DAVAO ORIENTAL</li> <li>67. DAVAO DEL NORTE</li> <li>68. DAVAO DEL SUR</li> <li>69. SOUTH COTABATO</li> </ul> <p><b>XII. CENTRAL MINDANAO</b></p> <ul style="list-style-type: none"> <li>70. LANA O DEL NORTE</li> <li>71. LANA O DEL SUR</li> <li>72. NORTH COTABATO</li> <li>73. MAGUINDANAO</li> <li>74. SULTAN KUDARAT</li> </ul> |
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**LEGEND**

- Strategic Operating Provinces
- Region Boundary
- Province Boundary

各州の年収レベル





ピナツボ山噴火被災案件位置図





添付資料



添付資料-1 小規模灌漑施設整備計画 (SSIDP) マスタープランに関する実施細目 (IA)

IMPLEMENTING ARRANGEMENT ON THE TECHNICAL  
COOPERATION

BETWEEN

JAPAN INTERNATIONAL COOPERATION AGENCY

AND

NATIONAL IRRIGATION ADMINISTRATION

FOR THE

MASTER PLAN STUDY

ON THE

SMALL-SCALE IRRIGATION DEVELOPMENT PROJECT

IN

THE REPUBLIC OF THE PHILIPPINES

AGREED UPON

BETWEEN

JAPAN INTERNATIONAL COOPERATION AGENCY

AND

NATIONAL IRRIGATION ADMINISTRATION

MANILA,

FEBRUARY 8, 1990

(signed)

(signed)

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MR. JOSE B. DEL ROSARIO, JR.

ADMINISTRATOR,  
NATIONAL IRRIGATION  
ADMINISTRATION

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MR. AKIO MOTOSUGI

LEADER OF THE PRELIMINARY  
STUDY TEAM  
JAPAN INTERNATIONAL  
COOPERATION AGENCY

## **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 (hereinafter referred to as "GOJ") has decided to conduct the Master Plan Study on the Small-Scale Irrigation Development Project in the Republic of the Philippines (hereinafter referred to as "the Study"), and exchanged the Note Verbales with GOP concerning the implementation of the Study.

Japan International Cooperation Agency (hereinafter referred to as "JICA"), the official agency responsible for the implementation of the technical cooperation programme of GOJ, will undertake the Study, in accordance with the relevant laws and regulations in force in Japan.

On the part of GOP, National Irrigation Administration (hereinafter referred to as "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.

The present document constitutes the implementing arrangement between JICA and NIA under the above mentioned Note Verbales exchanged between two governments.

## **II. OBJECTIVES OF THE STUDY**

The objective of the Study is to formulate a master plan for the rehabilitation and development of the small-scale irrigation projects hereinafter referred to as "SSIP), aiming at the orderly utilization of the nation's water and land resources.

## **III. STUDY AREA**

The Study area covers the entire Philippines.

## **IV. SCOPE OF THE STUDY**

The Study consists of the following two phases :

### **Phase I**

- (1) Study on current status of SSIP.

## Phase II

- (1) Formulation of a project master plan.
- (2) Conduct of preliminary feasibility study on the representative sample sub-projects.

### 1. Phase I

- (1) Preparation of an inventory of SSIP.
  - 1) Preparatory works for the inventory survey, such as determination of items to be surveyed, preparation of forms for data compilation, etc.
  - 2) Data collection.
  - 3) Data evaluation
  - 4) Final data compilation and data analysis.
- (2) Review and analysis of relevant studies previously conducted and carry out field reconnaissance. These will be conducted in terms of the following aspects.
  - 1) Natural conditions (topography, meteorology, hydrology, geology, soil, etc.)
  - 2) Socio-economic conditions (population, national and local economy, etc.)
  - 3) Agriculture (land use, farming, land ownership, farmers' organizations, farm household economy, processing of agricultural products, marketing, etc.)
  - 4) Agricultural infrastructure (irrigation and drainage, etc.)
  - 5) Others
- (3) Classification of SSIP and preparation of criteria for sub-project screening.
- (4) Preparation of guidelines for project priority ranking.
- (5) Screening of SSIP and priority ranking of sub-projects.

### 2. Phase II

- (1) Conduct a supplementary field survey and data/information collection.

- (2) Formulation of a project master plan.

This will be composed of the following :

- 1) Long term rehabilitation and development plan of SSIP.
- 2) Improvement plan of NIA's project implementation capability and of farmers' organizations, especially IAs.
- 3) Project implementation plan for SSIP rehabilitation and development, including :
  - a) Selection of representative sample sub-projects;
  - b) Project implementation schedule;
  - c) Project implementation organization;
  - d) Project operation and maintenance system.
- 3) Conduct of preliminary feasibility study on the representative sample sub-projects.

## V. REPORTS

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

1. Inception Report  
Thirty (30) copies at the commencement of the Phase I Study.
2. Progress Report (I)  
Thirty (30) copies at the end of the field work of the Phase I Study.
3. Interim Report  
Thirty (30) copies at the end of the home office work of the Phase I Study.
4. Progress Report (II)  
Thirty (30) copies at the end of the field work of the Phase II Study.
5. Draft Final Report  
Thirty (30) copies within one (1) month following the end of the home office work of the Phase II Study. GOP shall provide JICA with its comments within one (1) month after the receipt of the Draft Final Report.

6. Final Report  
Fifty (50) copies within two (2) months after the receipt of the GOPs' comments on the Draft Final Report.

## VI. STUDY SCHEDULE

The tentative work schedule is shown in Appendix.

## VII. UNDERTAKING OF GOP

In accordance with the Note Verbales exchanged between GOJ and GOP, GOP shall accord privileges, immunities and other benefits to the Japanese study team and, through the authorities concerned, take necessary measures to facilitate smooth conduct of the Study.

1. GOP shall be responsible for dealing with claims which may be brought by the third parties against the members of Japanese study team and shall hold them harmless in respect of claims or liabilities arising in the course of, or otherwise connected with the discharge of their duties in the implementation of the Study, except when such claims or liabilities arise from gross negligence or willful misconduct of the above-mentioned members.
2. NIA shall, at its own expense, provide the Japanese study team with the following, if necessary, in cooperation with other agencies concerned :
  - (1) Available data and information related to the Study;
  - (2) Data and information necessary for the preparation of an inventory of SSIP in Phase I Study;
  - (3) Counterpart personnel;
  - (4) Suitable office space with necessary equipment in Metro Manila;
  - (5) Credential or identification cards to the members of the Japanese study team.
3. NIA shall make necessary arrangement with other governmental and non-governmental organizations concerned for the following :
  - (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 assignment therein;

- (3) to exempt the members of the Japanese study team from taxes, duties, fees 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 emolument or allowance 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 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 to take all data and documents (including photographs) related to the Study out of the Philippines to Japan by the Study team;
- (8) to provide medical services as needed and its expenses will be chargeable on members of the Japanese study team.

#### VIII. UNDERTAKING OF GOJ

In accordance with the Note Verbales exchanged between GOJ, and GOP, GOJ, through JICA, shall take the following measures for the implementation of the Study :

1. to dispatch, at its own expense, study teams to the Philippines;
2. to pursue technology transfer to the Philippine counterparts;
3. to provide the necessary equipment for the implementation of the Study, which will remain the property of JICA unless otherwise agreed.

#### 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.



TENTATIVE WORK SCHEDULE

Work Item	Month in Order																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PHASE FIELD I																				
JAPAN																				
PHASE FIELD II																				
JAPAN																				
Submission of DF/R																				
Report	△																			
	INC/R																			

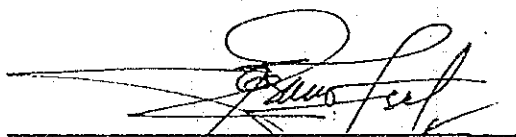
INC/R : Inception Report  
 PR/R : Progress Report  
 INT/R : Interim Report  
 DF/R : Draft Final Report  
 F/R : Final Report

▨ : Field Work  
 □ : Home Office Work

添付資料-2 インセプションレポートに関するNIAとの協議議事録  
(1990年8月3日)

MINUTES OF MEETINGS  
FOR INCEPTION REPORT  
ON  
MASTER PLAN STUDY  
ON  
SMALL SCALE IRRIGATION DEVELOPMENT PROJECT  
IN  
THE REPUBLIC OF THE PHILIPPINES

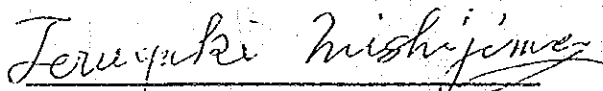
AUGUST 3, 1990



MR. JOSE B. DEL ROSARIO, JR.  
ADMINISTRATOR  
NIA



MR. TADASHI SAKAMOTO  
TEAM LEADER



WITNESS: DR. TERUYUKI NISHIJIMA  
JICA ADVISORY COMMITTEE

1. Date and Time : August 1, 1990 ( 9:30 am- 11:30 am)  
August 2, 1990 (10:00 am- 10:40 am)
2. Place : Conference Room of NIA
3. Attendants : See attached list
4. Summary of Discussion:

The JICA Study Team submitted 30 copies of the Inception Report to NIA on July 30, 1990 and explained the report at the meeting held on August 1, 1990. The second meeting was held on August 2, 1990 at the presence of JICA Advisory Committee members to discuss the inception report more in detail. The following are confirmed through discussions:

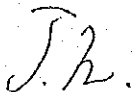
- (1) The Inception Report was generally accepted by NIA.
- (2) NIA will provide the Team with the following initial counterpart personnel:

Team Leader	:	Calixto P. Timonera
Irrigation and Drainage	:	Virgilio S. Miguel
Meteorology and Hydrology	:	Silvino A. Alonzo, Jr.
Agriculture	:	Francisco T. Orense
Agro-economy/Institution	:	Violeta M. Benico
Facility Planning & Design	:	Josias R. Pacolor
System Design & Analysis	:	Conrado M. Paredes

- (3) The Small Scale Irrigation Projects (SSIP) are a kind of communal irrigation system/projects (CIS/CIP) and are defined as those of run-off-river type having irrigation areas of 50 - 500 ha in net. CIS/CIP by pumping and/or those with storage dams (Small Reservoir Irrigation Projects--SRIP) will not be studied as the candidate projects for the Study.
- (4) The inventory survey will be carried out by NIA using the questionnaire prepared by the Study Team and will be completed by the end of September, 1990. The JICA Study Team will explain the details of questionnaire, at the meetings which will be held on August 14 to 16, with the representatives of the NIA provincial offices who will be directly involved in the inventory survey. NIA will make necessary arrangement for the meeting.
- (5) NIA will assign the following personnel as the technical advisors for the Study (the advisors will be fully involved in regular discussions during the course of the Study and other NIA officials may also be involved when the need arises for discussion of important issues such as policy making on SSIP):

Mr. Isidro R. Digal	:	Department Manager Project Development Department
Mr. Rodrigo N. de Guzman	:	Division Manager Communal Irrigation Department

- (6) NIA will provide the Study Team with the office furnished with adequate number of desks and chairs at 5th floor of DCIEC building, ID card for the Team members and all the existing documents required for the Study. All the counterpart personnel will work at the same office together with the Team.



LIST OF ATTENDANTS

NIA


- |                            |   |
|----------------------------|---|
| 1. Isidro R. Digal         | PDD Manager                               |
| 2. Rodrigo de Guzman       | Division Manager                          |
| 3. Calixto P. Timonera     | Counterpart Team Leader                   |
| 4. Virgilio S. Miguel      | Sr. Engineer A                            |
| 5. Francisco T. Orense     | Sr. Agronomist                            |
| 6. Conrado M. Paredes      | Sr. Engineer A                            |
| 7. Violeta M. Benico       | Management Info Systems Design Specialist |
| 8. Silvino A. Alonozo, Jr. | Sr. Hydrologist                           |

JICA

- |                       |                                |
|-----------------------|--------------------------------|
| 1. Teruyuki NISHIJIMA | JICA Advisory Committee Member |
| 2. Atushi HANATANI    | JICA Headquarters              |
| 3. Sumio OISHI        | JICA Expert, NIA               |
| 4. Yukinori OUCHI     | JICA Expert, NIA               |
| 5. Fumio KIKUCHI      | JICA Philippine Office         |

JICA Study Team

- |                          |                              |
|--------------------------|------------------------------|
| 1. Tadashi SAKAMOTO      | Leader                       |
| 2. Naoki ARIGA           | Project Planning (Co-Leader) |
| 3. Toshikazu HIGASHIKAWA | Irrigation and Drainage      |
| 4. Takuya IGAWA          | System Design and Analysis   |
| 5. W.S. Mirasol          | Agro-Economy/Institution     |



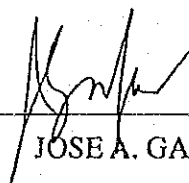
MINUTES OF MEETING  
FOR DISCUSSION OF INITIAL WORK PROGRESS  
ON  
SMALL SCALE IRRIGATION DEVELOPMENT PROJECT (SSIDP)

1. DATE AND TIME : October 18, 1990  
9:15 am- 10:40 am
2. PLACE : Conference Room of NIA
3. ATTENDANTS : See attached list
4. SUMMARY OF DISCUSSION:

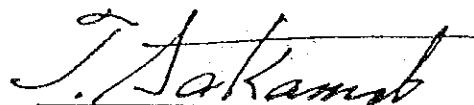
The JICA Study Team prepared the "Explanatory Note on Initial Work Progress" which deals with the major activities during the period of July 30 - September 30, 1990 and explained the Note at the meeting held on October 18, 1990. The following are confirmed through discussions:

- (1) The "Provincial Irrigation Profiles" were prepared by NIA and printed by NIA Consult.
- (2) The average development cost per ha generally depends upon the kinds of facilities constructed and that of about ₪8,500 mentioned on page 12 of the Explanatory Note seems to be too small. The relatively low development cost per ha might have been caused by the limited construction of facilities induced by the shortage of budget allocation in the past years. The JICA Study Team was requested to examine the relationship between the average development cost per ha and availability of the allocated budget.
- (3) The JICA Study Team was requested, after completion of the Study, to transfer the computerized database together with the special computer programs for data entry, printing, checking and analysis which will be used for master plan study, to the Communal Irrigation Department of NIA for continuous use and updating of such database for daily management of CISs/CIPs. The JICA Study Team said that the request would be conveyed to the JICA head office.
- (4) NIA has a policy that only one set of selection criteria shall be applied to all kinds of CISs/CIPs regardless of funding sources. However if any possible room for improvement is deemed necessary as a result of the inventory survey, the JICA Study Team will make appropriate recommendations on this.
- (5) NIA said that the cropping intensity of 130% mentioned in the Minimum Selection Criteria shall be maintained because according to the analysis by NIA, it generally indicates the marginal economic viability of the candidate sub-projects. The JICA Study Team will study the adequacy of 130% cropping intensity for the Minimum Selection Criteria.

- (6) The required guidelines for a package plan will be prepared under the master plan study, in due consideration of the prospective criteria for priority ranking and categories of sub-projects.
- (7) NIA will provide the Study Team with the recently prepared formula of regional/provincial budget allocation in which NIA's policy on priority ranking for implementation of CISs/CIPs is reflected.
- (8) The master plan study is intended to provide the framework plan for overall CIPs/CISs development in the future (for 50 - 500 ha range). The master plan shall cover the period of 1993 - 2002.
- (9) NIA emphasized the importance of the SSIDP master plan study and requested the JICA Study Team to pay more attention to transfer of knowledge to the counterpart personnel during the process of the master plan study.
- (10) The JICA Study Team said that the delayed submission of the filled-out questionnaires would affect the time schedule of Phase-I field work (about 2,500 questionnaires have been returned by 34 PIOs, as of October 17, 1990) and therefore requested NIA to take necessary actions for PIOs to submit all the filled-out questionnaires by the end of October, 1990.



JOSE A. GALVEZ  
Assistant Administrator



TADASHI SAKAMOTO  
Team Leader

## LIST OF ATTENDANTS

### NIA

1. Jose A. Galvez Assistant Administrator for SOEM
2. Isidro R. Digal PDD Manager
3. Rodrigo de Guzman Division Manager
4. Calixto Timonera Counterpart Team Leader
5. Francisco T. Orense Agriculture
6. Conrado M. Paredes System Design and Analysis
7. Violeta M. Benico Agro-economy and Institution
8. Silvino A. Alonzo, Jr. Meteorology and Hydrology
9. Adonis C. Beringuela Facility Planning and Design
10. Epifanio G. Gacusan, Jr. Facility Design

### JICA Expert, NIA

1. Sumio OISHI JICA Expert, NIA
2. Yukinori OUCHI JICA Expert, NIA

### JICA Study Team

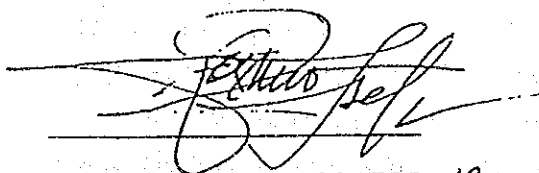
1. Tadashi SAKAMOTO Leader
2. Naoki ARIGA Project Planning (Co-Leader)
3. Toshikazu HIGASHIKAWA Irrigation & Drainage
4. Hisashi IKEWADA Agriculture
5. Yukihiro KAWAHARA Design Engineer
6. Kunita OKUWA Hydrologist
7. Takuya IGAWA System Design and Analysis Expert
7. W.S. MIRASOL Agro-Economy/Institution



添付資料-4 プログレスレポートに関するNIAとの協議議事録  
(1990年12月13日)

MINUTES OF MEETING  
FOR PROGRESS REPORT  
ON  
MASTER PLAN STUDY  
ON  
SMALL SCALE IRRIGATION DEVELOPMENT PROJECT  
IN  
THE REPUBLIC OF THE PHILIPPINES

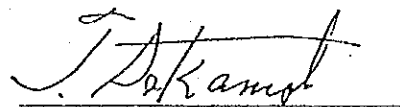
DECEMBER 13, 1990



MR. JOSE B. DEL ROSARIO JR.

ADMINISTRATOR

NIA



MR. TADASHI SAKAMOTO

TEAM LEADER

1. Date and Time : December 11, 1990  
11:00 - 12:40
2. Place : Conference Room of NIA
3. Attendants : See attached list
4. Summary of Discussion:

The meeting was presided over by Mr. Jose B. del Rosario, the Administrator of NIA. The Chairman requested Mr. Tadashi SAKAMOTO, Leader of the JICA Study Team, to present the contents of the "Progress Report" which was distributed to the concerned NIA officials on December 6, 1990. After the presentation of Mr. SAKAMOTO, the Chairman requested for comments from the body and various discussions were made between the JICA Study Team and the NIA concerned officials. The following were confirmed through discussions:

- (1) The Progress Report was basically accepted by NIA. The Chairman said that although the Report deals with only initial findings, it contains a lot of data and information which are useful for future planning on communal irrigation development. Both sides (NIA and the JICA Study Team) recognized the importance of the computerized database for the formulation of master plan on SSIDP and agreed that the computerized database would be refined through cross-checking process of the encoded data.
- (2) All of 67 PIOs submitted the filled-out questionnaires to the JICA Study Team through the central office of NIA as of December 3, 1990, bringing the total number of the returned questionnaires to 4,192. After the screening made by the Team, 3,889 sub-projects were qualified (1,466 for CIP and 2,423 for CIS) as the candidate sub-projects for the master plan, while 303 sub-projects were disqualified. Analysis and classification for these qualified sub-projects would be made in Japan and the results would be presented in the Interim Report.
- (3) NIA said that estimation of the potential irrigable areas by province is now under way, and the first estimation would be completed by February 1991. Likewise, NIA requested the JICA Study Team to utilize such initial results for setting out the provincial targets in the master plan.
- (4) Both sides agreed that as the Study Team suggested in the Progress Report, the qualified sub-projects would be classified in terms of the various factors which may

largely affect the development costs. The candidate sub-projects for the pre-feasibility studies would be selected on the basis of the above analysis and classification. The representative sample sub-projects for the pre-feasibility studies would be listed in the Interim Report. NIA requested the JICA Study Team to select the sub-projects for pre-feasibility studies as many as possible.

- (5) NIA requested the JICA Study Team to re-classify the candidate sub-projects into the current administrative regions including the newly created autonomous regions; Cordillera Autonomous Region and Muslim Autonomous Region.
- (6) NIA requested the JICA Study Team to review and, if necessary, revise the existing NIA's guidelines for prioritization of the qualified sub-projects both for new development and rehabilitation.
- (7) NIA intends to utilize the computerized database prepared by the Team for administration and management for communal irrigation development in the future, and requested the JICA Study Team to transfer the computerized database to NIA after the Study as well as the technologies concerning the database operation during the course of the Study. The JICA Study Team said that this request would be conveyed to JICA office for further consideration.
- (8) The JICA Study Team requested NIA to carry out the following during the absence of the Team (from December, 1990 to June, 1991).
  - follow-up activities for supplementary questionnaires survey on the institutional aspects,
  - gathering of provincial priority list for the candidate sub-projects,
  - collection of provincial location maps, and
  - rotational assignment of the counterpart personnel to the office for daily communication and general care for the computers and documents.
- (9) The Interim Report would be submitted to NIA by the end of March, 1991.



LIST OF ATTENDANTS

NIA

- |                             |                              |
|-----------------------------|------------------------------|
| 1. Jose B. del Rosario, Jr. | Administrator                |
| 2. Isidro R. Digal          | Manager, PDD                 |
| 3. Antonio A. Galvez        | OIC, CID                     |
| 4. Rodrigo N. de Guzman     | Division Manager, CID        |
| 5. Calixto P. Timonera      | Counterpart Team Leader      |
| 6. Virgilio S. Miguel       | Irrigation and Drainage      |
| 7. Francisco T. Orense      | Agriculture                  |
| 8. Conrado M. Paredes       | System Design and Analysis   |
| 9. Violeta M. Benico        | Agro-Economy and Institution |
| 10. Silvino A. Alonzo Jr.   | Meteorology and Hydrology    |
| 11. Adonis C. Beringuela    | Facility Planning and Design |
| 12. Epifanio G. Gacusan Jr. | Facility Design              |
| 13. Antonio F. Mamuyac      | Researcher                   |

JICA

- |                  |                        |
|------------------|------------------------|
| 1. Sumio OISHI   | JICA Expert, NIA       |
| 2. Fumio KIKUCHI | JICA Philippine Office |

JICA Study Team

- |                          |                              |
|--------------------------|------------------------------|
| 1. Tadashi SAKAMOTO      | Leader                       |
| 2. Naoki ARIGA           | Project Planning (Co-Leader) |
| 3. Toshikazu HIGASHIKAWA | Irrigation and Drainage      |
| 4. Hisashi IKEWADA       | Agriculture                  |
| 5. Yukihiro KAWAHARA     | Design Engineer              |
| 6. Takuya IGAWA          | System Design and Analysis   |
| 7. Wilmarth S. MIRASOL   | Agro-Economy/Institution     |



添付資料-5 ドラフト・インテリムレポートに関するNIAとの協議議事録  
(1991年2月25日)

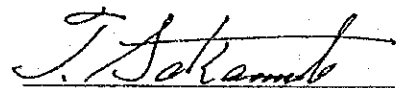
MINUTES OF MEETING  
FOR INTERIM REPORT (DRAFT)  
ON  
MASTER PLAN STUDY  
ON  
SMALL SCALE IRRIGATION DEVELOPMENT PROJECT  
IN  
THE REPUBLIC OF THE PHILIPPINES

February 25, 1991



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MR. JOSE B. DEL ROSARIO, JR.  
ADMINISTRATOR, NIA



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MR. TADASHI SAKAMOTO  
TEAM LEADER

1. Date and Time : February 25, 1991  
1:30 p.m. - 3:00 p.m.
2. Place : Conference Room of NIA
3. Attendants : See attached list
4. Summary of Discussion:

Mr. Tadashi SAKAMOTO, leader of the JICA Study Team, explained the outline of the "Interim Report on Master Plan Study on the Small Scale Irrigation Development Project (draft)". After the presentation of Mr. SAKAMOTO, the Chairman requested for comments from the body and various discussions were made between the JICA Study Team and the NIA concerned officials. The following were confirmed through discussions:

- (1) Additional inventory survey will be carried out by NIA on the basis of the questionnaires to be prepared by the JICA Study Team. The questionnaires will be jointly finalized by mid March, 1991. The additional inventory survey will be completed by the end of May, 1991.
- (2) The additional inventory survey will be made for those sub-projects proposed by the JICA Study Team in the "Interim Report" (CISs: 763, CIPs: 204, Total: 967). The JICA Study Team submitted the list of those sub-projects to NIA.
- (3) Encoding and analysis of the additional inventory survey will be made by the JICA Study Team under the Phase-II studies that will start from June, 1991.



- (4) The representative sample sub-projects for the pre-feasibility studies will be selected by NIA, considering availability of topographic maps and the selection criteria proposed by the JICA Study Team. NIA will inform the JICA Study Team of their selection by the end of March, 1991. NIA will gather the presently available data and information concerning the selected sample sub-projects by the end of May, 1991.
- (5) The Interim Report will be submitted to NIA through the JICA Philippine Office by the end of March, 1991. Full discussion on the Interim Report will be made at the beginning of the Phase-II studies and the NIA's comments and/or suggestions on the Interim Report will be studied under the Phase-II.



## LIST OF ATTENDANTS

### NIA

1. Jose B. del Rosario, Jr. Administrator
2. Isidro R. Digal Manager, PDD
3. Rodrigo N. de Guzman Division Manager, CID
4. Calixto P. Timonera Counterpart Team Leader

### JICA

1. Sumio OISHI JICA Expert, NIA
2. Makoto KASHIWAYA JICA Philippine Office

### JICA Study Team


1. Tadashi SAKAMOTO Leader
2. Yukihiro KAWAHARA Design Engineer
3. Wilmarth S. MIRASOL Agro-Economy/Institution



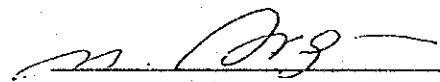
添付資料-6 インテリムレポートに関するNIAとの協議議事録(1991年6月6日)


MINUTES OF MEETING  
FOR INTERIM REPORT  
ON  
MASTER PLAN STUDY  
ON  
SMALL SCALE IRRIGATION DEVELOPMENT PROJECT  
IN  
THE REPUBLIC OF THE PHILIPPINES

June 6, 1991

  
\_\_\_\_\_  
MR. JOSE B. DEL ROSARIO, JR.  
ADMINISTRATOR

NIA

  
\_\_\_\_\_  
for  
MR. TADASHI SAKAMOTO  
TEAM LEADER

  
\_\_\_\_\_  
WITNESS: MR. KAZUO KIMURA  
CHAIRMAN OF JICA ADVISORY COMMITTEE

1. Date and Time : June 4, 1991 ( 9:00 a.m. - 10:30 a.m.)  
June 6, 1991 (11:00 p.m.- 12:30 p.m.)
2. Place : Conference Room of NIA
3. Attendants : See attached list
4. Summary of Discussion:

The meetings were presided by Mr. Jose B. del Rosario, Jr., the Administrator of NIA. The JICA Study Team explained the outline of the Interim Report at the meeting held on June 4, 1991. The second meeting was held on June 6, 1991 at the presence of Mr. Kazuo Kimura, the Chairman of JICA Advisory Committee, to discuss the Report in more detail. The following were confirmed during the discussions:

- (1) The JICA Study Team submitted 30 copies of the Interim Report to NIA through the JICA Philippine Office in March 1991. The Interim Report was basically accepted by NIA.
- (2) The following 10 sub-projects were selected as the representative sample sub-projects under the Study, and the pre-feasibility studies on these sub-projects will be carried out under the Phase-II:

No.	Province	Name of sub-projects	Municipality	Designed irrigable area (ha)	Topography
<u>CISs for Rehabilitation/Improvement</u>					
1	Quezon	Pili-Tumbaga	Sariaya	121	Alluvial Plain
2	Iloilo	Bayunan	San Joaguin	170	Hilly/Terrace
3	Iloilo	Tigbanaba	Igbaras	120	Hilly/Terrace
4	Cebu	Tag-Amakan	Asturias	51	Valley
5	Northern Leyte	Hambabalud	Jaro	150	Alluvial Plain
6	Northern Leyte	Macupa	Leyte	450	Alluvial Plain
<u>CIPs for New Development</u>					
7	Quezon	Kinatihan	Candelaria	100	Alluvial Plain
8	Cavite	Pacheco	Magallanes	200	Valley
9	Iloilo	Bairan	Ajuy	64	Alluvial Plain
10	Northern Leyte	Maragondong	Dagami	400	Valley

- (3) The topographic maps scaled 1/4,000 and all available data and information on the selected representative sample sub-projects will be submitted to the JICA Study

Team by June 15, 1991. The JICA Study Team will submit the field investigation schedule to NIA by June 20, 1991. NIA was requested to make necessary arrangement for the field investigation, including gathering of latest information on security conditions around the areas where the sub-projects are located.

- (4) Additional inventory survey are carried out by NIA, to supplement the required data for formulation of the master plan, particularly those for development costs and the engineering data of irrigation facilities. Encoding and analysis of the additional inventory survey will be made by the JICA Study Team under the Phase-II. The master plan will be formulated on the basis of the data collected by June 15, 1991, in due consideration of time factor for the Study.
- (5) NIA pointed out that PIOs should be strengthened in every aspect to improve their capabilities and resources for proper implementation of SSIDP, and the JICA Study Team was requested to make recommendations for such plans to strengthen PIOs in the master plan study.
- (6) The proposed guidelines and criteria for formulation of master plan were discussed and those proposed in the Interim Report were basically accepted by NIA with the following observations:

Minimum Selection Criteria

- 1) The minimum selection criteria shall be established separately for CISs and CIPs as the JICA Study Team proposed.
- 2) The minimum selection criteria indicate the minimum requirement of the proposed sub-projects for implementation and primarily aim to make pre-screening of the sub-projects. Prioritization will be made only for the sub-projects which have qualified according to the criteria. Evaluation will be made for individual sub-projects (not for a package of sub-projects).
- 3) The following two guidelines shall be added to improve the existing criteria:  
"The projects with more than 20% land still eligible for re-distribution under CARP should be included only after emancipation patents have been issued.",  
and  
"The designed irrigation and drainage facilities should be conformable to the minimum facilities requirement."
- 4) The development cost per ha given in the existing criteria should be read as the "chargeable cost per ha" instead of the "total project costs per ha".

- 5) In the proposed criteria for rehabilitation schemes, item (c) should be read as "IA is amortizing the existing loan or has fully paid the required equity"

Criteria for Prioritization

- 1) The minimum requirement of EIRR will be 10%.
  - 2) The new guidelines of NIA for CARP shall be reflected on the factors and merit point for socio-economic aspect.
  - 3) Definitive terms and ranges shall be given to the factors of "organization of IA" and "willingness to render equity/amortization". The representative sample farmers shall be read as IA members in the criteria for rehabilitation projects.
- 
- (7) The guidelines and criteria will be finalized on the basis of the above discussions and those finalized will be presented in the Progress Report No.2 which will be submitted to NIA by the end of August, 1991. The work schedule of Phase-II presented in the Interim Report was accepted by NIA.
  - (8) NIA will provide the JICA Study Team with the office space at the DCIEC building and also counterpart personnel in continuation of the Phase-I.

## LIST OF ATTENDANTS

### NIA

1. Jose B. del Rosario, Jr. Administrator
2. Jose A. Galvez Assistant Administrator for SOEM
3. Isidro R. Digal Manager, PDD
4. Antonio A. Galvez OIC, CID
5. Calixto P. Timonera Counterpart Team Leader
6. Virgilio S. Miguel Irrigation and Drainage
7. Francisco T. Orense Agriculture
8. Conrado M. Paredes System Design and Analysis
9. Silvino A. Alonzo Jr. Meteorology and Hydrology
10. Adonis C. Beringuela Facility Planning and Design
11. Antonio F. Mamuyac Researcher
12. Violeta M. Benico Agro-economy and Institution

### JICA

1. Kazuo KIMURA Chairman, JICA Advisory Committee
2. Atsushi HANATANI JICA, Head Office
3. Sumio OISHI JICA Expert, NIA


### JICA Study Team

1. Tosihito OTANI Advisor
2. Naoki ARIGA Co-leader/Project Planning
3. Toshikazu HIGASHIKAWA Irrigation and Drainage
4. Yukihiro KAWAHARA Design Engineer
5. Wilmarth S. MIRASOL Agro-Economy/Institution
6. Takuya IGAWA System Design and Analysis

添付資料ー 7 プログレスレポートNo.2に関するNIAとの協議議事録 (1991年8月26日)

MINUTES OF MEETING  
FOR PROGRESS REPORT NO.2  
ON  
MASTER PLAN STUDY  
ON  
SMALL SCALE IRRIGATION DEVELOPMENT PROJECT (SSIDP)  
IN  
THE REPUBLIC OF THE PHILIPPINES

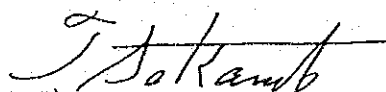
August 29, 1991



MR. JOSE B. DEL ROSARIO, JR.

ADMINISTRATOR

NIA



MR. TADASHI SAKAMOTO

TEAM LEADER

1. Date and Time : August 27, 1991 ( 9:00 a.m. - 10:30 a.m.)
2. Place : Conference Room of NIA
3. Attendants : See attached list
4. Summary of Discussion:

The meeting was presided by Mr. Jose B. del Rosario, Jr., the Administrator of NIA. Mr. Tadashi SAKAMOTO, the leader of the JICA Study Team, explained the outline of the Progress Report No.2. The following were confirmed during the discussions:

- (1) The JICA Study Team submitted 30 copies of the Progress Report No.2 to NIA on August 22, 1991. During the field work under Phase-II, a series of discussions were made between the concerned NIA's officials and the JICA Study Team, and most of the NIA's policies and directions on SSIDP were already incorporated into the Progress Report No.2. The Progress Report No.2 was therefore accepted by NIA with some suggestions for further studies.
- (2) NIA appreciated and accepted the proposed "minimum selection criteria" and the "general guidelines for prioritization" which are given in Chapter VII of the Report, said that these proposed criteria/guidelines would be applied to all the CIPs/CISs, irrespective of the funding sources.
- (3) NIA also accepted the framework of the 10 year development program on SSIDP which is described in the Chapter IX of the Report, and said that the master plan should be considered in the NIA Corporate Plan after the Study is completed.
- (4) NIA emphasized again the importance of the institutional build-up and training for the strengthening of PIOs, and requested the JICA Study Team to include possible suggestions in the Draft Final Report.
- (5) NIA suggested that the following be incorporated or explained in the Draft Final Report:
  - 1) the existing NIA' guidelines for irrigation and drainage facilities in communal irrigation development in connection with the guidelines for minimum requirement of irrigation and drainage facilities,



- 2) future directions of management and administration of CISs/CIPs, inclusive of the development of the database system, based on the NIA's policy on decentralization of authority to RIOs, and
  - 3) The Republic Act 6978 (1990) which determines the amount to be amortized by the farmers beneficiaries.
- 
- (6) The existing database system will be re-structured during the home office work of Phase-II on the basis of the agreed concept which is given in ANNEX C of the Progress Report No.2.
  - (7) The Draft Final Report, together with the revised computerized database system, will be submitted to NIA by the beginning of December, 1991.

*Jari*

*JS*



## LIST OF ATTENDANTS

### NIA

- |                             |                                  |
|-----------------------------|----------------------------------|
| 1. Jose B. del Rosario, Jr. | Administrator                    |
| 2. Jose A. Galvez           | Assistant Administrator for SOEM |
| 3. Isidro R. Digal          | Manager, PDD                     |
| 4. Antonio A. Galvez        | OIC, CID                         |
| 5. Rodrigo N. de Guzman     | Division Manager, CID            |
| 6. Calixto P. Timonera      | Counterpart Team Leader          |
| 7. Virgilio S. Miguel       | Irrigation and Drainage          |
| 8. Francisco T. Orense      | Agriculture                      |
| 9. Conrado M. Paredes       | System Design and Analysis       |
| 10. Silvino A. Alonzo Jr.   | Meteorology and Hydrology        |
| 11. Violeta M. Benico       | Agro-economy and Institution     |
| 12. Antonio F. Mamuyac      | Researcher                       |
| 13. Emelita B. Parallon     | Facility Design                  |
| 14. Artemio A. Tapa         | Facility Design                  |

### JICA

- |                |                  |
|----------------|------------------|
| 1. Sumio OISHI | JICA Expert, NIA |
|----------------|------------------|

### JICA Study Team

- |                          |                            |
|--------------------------|----------------------------|
| 1. Tadashi SAKAMOTO      | Team Leader                |
| 2. Naoki ARIGA           | Co-leader/Project Planning |
| 3. Toshikazu HIGASHIKAWA | Irrigation and Drainage    |
| 4. Yukihiro KAWAHARA     | Design Engineer            |
| 5. Wilmarth S. MIRASOL   | Agro-Economy/Institution   |
| 6. Takuya IGAWA          | System Design and Analysis |
| 7. Fumihiko FURUICHI     | Project Evaluation         |
| 8. Hisashi KEWADA        | Agriculture                |

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添付資料 - 8 ドラフトファイナルレポートに関するNIAとの協議議事録 (1991年12月2日)

MINUTES OF MEETING  
FOR DRAFT FINAL REPORT  
ON  
MASTER PLAN STUDY  
ON  
SMALL SCALE IRRIGATION DEVELOPMENT PROJECT (SSIDP)  
IN  
THE REPUBLIC OF THE PHILIPPINES

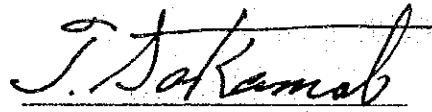
December 4, 1991



MR. JOSE B. DEL ROSARIO, JR.

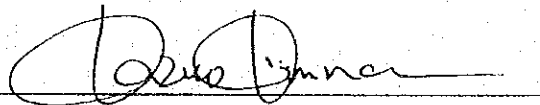
ADMINISTRATOR

NIA



MR. TADASHI SAKAMOTO

TEAM LEADER



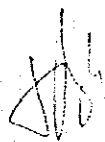
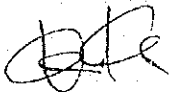
WITNESS: MR. KAZUO KIMURA

CHAIRMAN OF JICA ADVISORY COMMITTEE

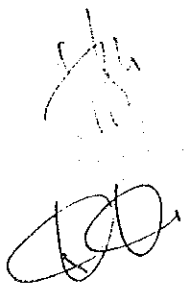
1. Date and Time : December 2, 1991 ( 10:00 a.m. - 11:00 a.m.)
2. Place : Conference Room of NIA
3. Attendants : See attached list
4. Summary of Discussion:

The meeting was presided by Mr. Jose B. del Rosario, Jr., the Administrator of NIA. Mr. Tadashi SAKAMOTO, the leader of the JICA Study Team, explained the outline of the Draft Final Report. The following were confirmed during the discussions:

- (1) Thirty (30) copies of the draft final report were sent to the Philippines in early November 1991, however these reports were not delivered to NIA before having the meeting because of the delayed custom clearance at NAIA. Therefore, the advanced copies of the report that the JICA Study Team directly brought in, were used for discussions. It is expected that the report will be delivered to NIA by December 10, 1991.
- (2) NIA appreciated and accepted the Draft Final Report, because during the course of the Study, a series of discussions were made between the concerned NIA officials and the JICA Study Team, and most of the NIA's policies and directions on SSIDP were already incorporated into the Draft Final Report. NIA said that the master plan would be reflected in the NIA Corporate Plan for implementation.
- (3) NIA requested the JICA Study Team to attach the glossary of technical terms to the Final Report, in order to avoid the misunderstanding on terminology which is used in the report.
- (4) The JICA Study Team requested NIA to inform the Team of the NIA's official comments on the Draft Final Report through the JICA Philippines Office if any by January 15, 1992. The Final Report will be prepared within one month after receiving the NIA's comments, and submitted to NIA as early as possible.
- (5) The JICA Study Team submitted a copy of the computerized database system to NIA. Demonstration and technical explanation of the database system will be made on December 5, 1991 mainly for the counterpart personnel.

- (6) NIA requested the JICA Study Team to donate the vehicles that JICA provided the Team for the execution of the Study. The JICA Study Team said that the request would be conveyed to the JICA Office.



## LIST OF ATTENDANTS

### NIA

1. Jose B. del Rosario, Jr. Administrator
2. Jose A. Galvez Assistant Administrator for SOEM
3. Isidro R. Digal Manager, PDD
4. Antonio A. Galvez OIC, CID
5. Rodrigo N. de Guzman Division Manager, CID

### JICA

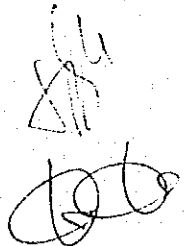
1. Sumio OISHI JICA Expert, NIA

### JICA Advisory Committee

1. Kazuo KIMURA Chairman
2. Atsushi HANATANI JICA Headquarter (coordinator)

### JICA Study Team

1. Tadashi SAKAMOTO Team Leader
2. Naoki ARIGA Co-leader/Project Planning
3. Toshikazu HIGASHIKAWA Irrigation and Drainage
4. Yukihiro KAWAHARA Design Engineer
5. Wilmarth S. MIRASOL Agro-Economy/Institution







JICA