APPENDIX V

PCM WORKSHOPS

APPENDIX – CHAPTER V

PCM WORKSHOPS

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CHAPTER V PCM WORKSHOPS

1. PCM Workshop

The participatory workshops are conducted in this study aiming at formation of "Ownership" in the Philippine side. In order to organize and facilitate workshops effectively, a participatory method termed Project Cycle Management (PCM) is adopted.

The 1st and 2nd workshops were held last August and September 2000. The 1st workshop was conducted for the NIA Central Office involving the members of Internal Task Force (ITF) and Inter-Agency Coordination Committee (IACC). The aim of the workshop was to establish a common understanding among the participants on the problems and objectives related to the NIA what it ought to be in the future. The 2nd workshop was held in San Fernando, Pampanga involving the staff of the field offices in Region III. The aim of the workshop was to formulate a basic concept of Capability Improvement Plan. The summary of these workshops is reported in the "Progress Report, November 2000".

The 3rd, 4th and 5th workshops were held last November and December 2000 involving the staff of three (3) NISOs, namely: Nayom-Bayto, UPRIIS Ditrict III and Aganan-Sta.Barbara, aiming at formulating the action-oriented short-term capacity improvement plan for the above field offices.

The 6th workshop was held on February 2001 in Quezon City involving Division Managers of NIA Central Office, aiming at formulation of the logical framework for basic approaches to tackle the issues of NIA's management. Prior to the workshop, the JICA Study Team proposed a Logical Framework for NIA's Management Strengthening Plan. And in the workshop, participants discussed it, modified it and developed it.

The 7th and 8th workshops were held on June 2001 in Quezon City involving Department Managers of NIA Central Office, members of Inter Agency Coordination Committee (IACC) and members of NIA's Internal Task Force (ITF) aiming at formulation of sector/department based specific plan of operation for NIA's Management Strengthening. The participants of the 7th workshop were requested to make a plan of operation by developing the Logical Framework that was formulated in the 6th workshop. The results of the 7th workshop were presented in the 8th workshop.

The 9th workshop was held on July 2001 involving the staff of three (3) NISOs, namely: Aganan-Sta.Barbara, Nayom-Bayto, UPRIIS Ditrict III and IA representatives in Aganan, aiming at evaluating the implementation of the Capacity Improvement Plan for Aganan NISO and UPRIIS District III and assessment of impact of provision of equipment in Nayom-Bayto.

The below is the summary of the workshops from 3^{rd} to 9^{th} . For the full report, refer to the respective separated workshop reports.

2. 3rd Participatory Workshop on Capacity Improvement Plan for NISO

The "3rd Participatory Workshop on Capacity Improvement Plan for NISO" (3rd Participatory Workshop) was held on November 7, 9, 13, 2000 involving the staff of three (3) NISOs,

namely: Nayom-Bayto, UPRIIS Ditrict III and Aganan-Sta.Barbara, aiming at formulating the action-oriented short-term capacity improvement plan for the above offices.

Prior to this workshop, capacity improvement plan for the NIA's field offices was prepared by the JICA Study Team (the Study Team). In order to substantiate this capacity improvement plan, a case study was implemented in three offices. Nayom-Bayto NISO was selected as a model office, whose performance was replicated to the other two replication offices. UPRIIS District III and Aganan-Sta.Barbara NISO were selected as replication offices to which capacity improvement plan was applied. (For the detail of selection procedure and review of these offices, refer to the "Progress Report, November 2000".)

Proposed capacity improvement plan is composed of different forms of interventions and time perspectives. Policy and structural changes constitute the long-term capacity improvement plan (the long-term plan), while operational solutions that can be implemented immediately comprise the short-term capacity improvement plan (the short-term plan). (For the detail of the long-term and the short-term plans, refer to the "Progress Report, November 2000".)

The long-term plan is targeting to increase income of NISO focusing upon the four (4) outputs, i.e. (a) organizational restructuring, (b) improvement of water management, (c) proper maintenance of irrigation facilities and (d) increase of ISF collection.

The short-term plans are derived from this long-term plan. Each output of the long-term plan will be the project purpose of the short-term plan. This means that four (4) short-term plans will be formulated from the long-term plan.

As for the case study to substantiate the proposed capacity improvement plan, only the short-term plans were implemented mainly due to time constraints. "Water Management" and "ISF Collection" were chosen to be the themes/purposes of the case study.

The conceptual relationship of the long-term plan and the short-term plans is presented below in the form of Project Design Matrixes (PDM) (Table V.1).

The proposed short-term plan for "Water Management" was tried in Aganan-Sta.Barbara NISO and the plan for "ISF Collection" was implemented in both UPRIIS District III and Aganan-Sta.Barbara NISO. These short-term plans were implemented within 3 months period from November 2000 to February 2001.

The 3rd Participatory Workshop was held on

- 1) November 7 in Zambales city involving the staff of Nayom-Bayto NISO
- 2) November 9 in Cabanatuan city involving the staff of UPRIIS Ditrict III
- 3) November 13 in Iloio city involving the staff of Aganan-Sta.Barbara NISO.

2.1 Objectives

The workshop was intended:

- 1) to analyze the strength, weakness, opportunities and threats of Nayom-Bayto NISO as a model office
- 2) to formulate frameworks of short-term capacity improvement plans for UPRIIS District III and Aganan-Sta.Barbara NISO

3) to create "Ownership" of the trial projects in the above NISOs by introducing participatory methods in planning.

2.2 Participants

1) Workshop in Nayom-Bayto NISO

Twenty five (25) participants attended the workshop. They consist of staff of Nayom-Bayto NISO, a counterpart personnel for the Study Team and members of the Study Team.

2) Workshop in UPRIIS District III

Nineteen (19) participants attended the workshop. They consist of staff of UPRIIS District III, a counterpart personnel for the Study Team and members of the Study Team.

3) Workshop in Aganan-Sta.Barbara NISO

Twenty (20) participants attended the workshop. They consist of staff of Aganan-Sta.Barbara NISO including one Japan Overseas Cooperation Volunteer, a counterpart personnel for the Study Team and members of the Study Team.

2.3 Workshop Outcome

(1) Workshop in Nayom-Bayto NISO

The first session was held involving the staff of Nayom-Bayto NISO in order to analyze the essential factors for good performance as the model office. Those factors are expected to be replicated to the other two (2) replication offices. The analysis was done separately about two different functions of the office, i.e. "ISF Collection" and "Water Management" with using a participatory analysis tool termed "SWOT Analysis".

SWOT stands for <u>S</u>trengths, <u>W</u>eaknesses, <u>O</u>pportunities and <u>T</u>hreats. Strengths are things that have worked well, Weaknesses are things that have not worked so well, Opportunities are ideas on how to overcome weaknesses and build on strengths and Threats are things that exist which reduce the range of opportunities for change. Strengths and Weaknesses can be as factors that are internal to an organization, and so can be controlled by management; Opportunities and Threats can be seen as external factors affecting the environment in which an organization is working.

In terms of the strengths, the participants emphasized work attitudes as "cooperation", "teamwork", "self-sacrifice" and even "working religiously", rather than work system they employ. "Good leadership" of Irrigation Superintendent was also mentioned as the Study Team preconceived. Relating to work system, the employments of "target-oriented taskforce", "regular meeting for good communication", "execution of proper monitoring" and "voluntary based foot patrol during night time" were highly appreciated as strengths.

"Strong links with LGUs" and "Inactive IAs" were listed under the categories of external factors as opportunities and threats. This implies that the participants consider that collaboration with LGUs and IAs is not sufficient and should be further improved.

Most weaknesses and threats are related to the "shortage of resources as manpower, materials and equipment". "Institutional development (training for farmers)" is also considered not to be sufficient for ISF collection neither for water management. "AO17" was apparently recognized to be one of the threats for ISF collection.

Results of the SWOT Analysis are summarized in Table V.2.

(2) Workshop in UPRIIS District III

The second session was held involving the staff of UPRIIS District III in order to formulate a framework of a short-term capacity improvement plan for "ISF Collection" of the office.

The formulation of the short-term plan was carried out using a participatory planning method termed "Project Cycle Management (PCM)". Not all the steps of PCM method was carried out, but only the formulation of Project Design Matrix (PDM) was done after the prototype PDM for the short-term plan was introduced to the participants. That was because of the workshop was not intended to create the improvement plan unique to the office, but was expected to substantiate applicability and efficiency of the proposed capacity improvement plan prepared by the Study Team. PDM (or Logical Framework) is a matrix that shows logical inter-relationships among the components of a project, such as objectives, activities and inputs, as well as the important assumptions related to the project.

The prototype PDM prepared by the Study Team was highly adaptable to the situation of UPRIIS District III. With minor modification on the prototype, the participants elaborated and completed the PDM for "ISF Collection".

<u>Project Purpose</u> was decided to be "Billed area is increased by 10 %". This is the objective that is expected to be achieved within the implementation period of 3 months or by the end of February 2001.

In order to achieve the Project Purpose, four (4) <u>Outputs</u> are expected to be realized, i.e. (a)Service area is firmed-up, (b)Data base is updated, (c)Skill is enhanced and (d)Billing procedure is revised.

<u>Activities</u> are specific actions intended to produce the Outputs. Activities for each Output were enumerated and <u>Persons in Charge (P/C)</u> were also designated.

PDM formulated by the workshop is as presented in Table V.3

(3) Workshop in Aganan-Sta.Barbara NISO

The third session was held involving the staff of Aganan-Sta.Barbara NISO in order to formulate frameworks of short-term capacity improvement plans for "ISF Collection" and "Water Management" of the office.

Aganan-Sta.Barbara NISO is responsible for the operations of two river irrigation systems, namely Aganan and Sta.Barbara. The short-term plan will be implemented in Aganan NIS Division 3.

1) PDM of the Short-Term Capacity Improvement Plan for "Water Management"

In the discussion, it was found that water management in Aganan NIS is relatively less problematic and fairly well operated. But it was admitted that there was still a room to be improved and the project was welcomed to the office.

The prototype PDM for water management prepared by the Study Team was adaptable to the situation of Aganan-Sta.Barbara NISO as a whole. Because of the time constraints, only the Narrative Summary was elaborated and confirmed by the participants.

<u>Project Purpose</u> was decided to be "Cropping intensity is increased". This was expected to be achieved within the implementation period of 3 months or by the end of February 2001. The indicators were planed to be discussed and decided after studying baseline data.

PDM formulated by the workshop is as presented in Table V.4.

2) PDM of the Short-Term Capacity Improvement Plan for "ISF Collection"

Although major problems of Aganan-Sta.Barbara NISO are related to farmers and IAs, the prototype PDM for ISF collection was still adaptable to the situation of the office. With minor modification on the prototype, the participants elaborated and completed the PDM.

<u>Project Purpose</u> was decided to be "ISF collection efficiency is increased". The item for indicator was decided but the quantitative figure was not agreed upon. The figure was planed to be discussed and decided after studying baseline dada.

Five (5) <u>Outputs</u> are expected to be realized, i.e. (a)Service area is firmed-up, (b)Data base is updated, (c)Skill is enhanced, (d)Billing procedure is revised and (e)Collection strategy is improved. According to the staff of the office, out of five outputs, (a) was already completed and (b) was in the process. Confirmation about how they were completed/processed was required as activities.

Activities for each Output were enumerated and Persons in Charge (P/C) were designated.

PDM formulated by the workshop is as presented in Table V.5.

2.4 Workshop Evaluation

At the end of the workshop, Workshop Evaluation Sheets were passed for the participants to answer. A total of 42 participants answered the evaluation sheets. Summary of the results of evaluation are as follows.

1) What was your impression on the workshop?

a. Excellent
a. Excellent

- b. Very Good 38 (90%)
- c. Fairly Good 1 (2%)
- d. Not so Good 0 (0%)
- e. No Answer 1 (2%)

- 2) Please state reasons for your answer.
 - We have learned about our strengths, weaknesses, opportunities and threats on this organization. Additional knowledge I thoughts to be applied to our work.
 - We have been given a chance to participate and give our suggestions for the improvement of our office.
 - Although some are still shy, almost all of the participants have participated in the discussion.
 - Goals are properly set and actions are identified.
- 3) What are your suggestions to improve the conduct of workshop?
 - Enough time make it one or two days to give/share more opinions/ideas.
 - May we have enough time (longer time) in order to be able to discuss everything that is necessary for the improvement of the system.
 - With the use of audiovisual samples.

3 4th & 5th Participatory Workshop on Strengthening of NIA's Management System

The "4th & 5th Participatory Workshop on Strengthening of NIA's Management System (4th & 5th Participatory Workshop) was held on December 7, 8, 13, 2000 involving Department Managers and Division Managers of NIA Central Office and the NIA Streamlining Committee members, focusing upon the problem/solution finding concerning functions/organization of NIA.

Prior to this workshop, the JICA Study Team reviewed organization and management of NIA Central Office, and adduced problems/issues concerning each sector and department. The 4th Participatory Workshop was held, involving high-level management officials, intending to deepen understanding and analysis about these problems/issues.

3.1 Objectives

The workshop was intended:

- 1) to analyze the problems/issues and find solutions specific to each sector and department of the NIA Central Office.
- 2) to analyze the problems/issues and find solutions concerning the organizational restructuring of NIA.

3.2 Participants

1) Workshop with Managers of the NIA Central Office

Forty (40) participants attended the workshop. They consist of Department Managers and Division Managers of the NIA Central Office, counterpart personnel for the Study Team and members of the Study Team.

2) Workshop with NIA Streamlining Committee Members

Twelve (12) participants attended the workshop. They consist of the NIA Streamlining Committee members, counterpart personnel for the Study Team and members of the Study Team.

3.3 Workshop Outcome

(1) Workshop with Managers of the NIA Central Office

The participants were divided into four (4) groups on sector basis, i.e. PDI, SOEM, Finance & Management and Administrative sector and discussed about problems/issues concerning each department. The followings are major issues that were discussed in the workshop.

1) Project Development & Implementation (PDI) Sector

Projects are not implemented enough because project documents prepared by PDD cannot be cleared by ECC, ICC nor EGA. Clearance by ECC, ICC and EGA are relatively newly started system and PDD cannot cope with this requirement. In other words, PDD does not have enough capability to satisfy these conditions. A solution conceived by the participants is to set up a specific unit to handle the securing these conditions and other legal requirements.

Weak monitoring and evaluation was also identified as a problem relating to project implementation. Most of the monitoring is mere report making without systematic monitoring activities. The solutions prepared by the participants are not specific enough as "to implement disciplinary action for project implementation" or "PDD needs experts in all discipline to support RIO & FO in project preparation".

Relating to DSD, the problem of "Good designers migrate abroad or to consulting firms because of the low incentives" was stated. The solution is to contract out design works to consulting firms. However there was an argument on this solution among the participants. A ground of the counterview is that if the design works were to be contracted out, the capability of DSD as designers group would be further deteriorated.

Most of the projects are behind schedule because of some reasons. One of the major reasons is Right of Way Acquisition (ROWA) problem. And the solution to solve the problem is to legislate a new law on ROWA. The participants of the workshop deemed to solve ROWA problems with legal execution. However, this solution would be effective only after the problem takes place. There must be an idea to avoid ROWA problems in the first place with technical measures as proper implementation of feasibility study and design.

2) Systems Operation and Equipment Management (SOEM) Sector

"Implementation of Memorandum Circular (MC) #29 which allocates 5% of the project cost for Irrigation Development Project (IDP) activities" was proposed as one of the way to promote Institutional Development activities. This MC was approved and issued in December 2000 and expected to be implemented.

Disposal of unserviceable equipments takes time, because the COA formula (appraised value) is higher than NIA's. The solution for this problem is to request COA to amend the formula and suggest the PPRD mode on RIO bases or Island bases.

3) Finance & Management Sector

In order to cope with the timely submission of financial report, computerization was proposed. Computers are installed in offices, but not used as a database but only as typewriters. It means that there is no need of hardware improvement but software introduction for the efficient management.

There were two suggestions relating to management fee. The one is to increase the rate of management fee from 5% to the higher rate. The other is to include management fee in the Program of Work (POW). Management fee is supposed to be computed by Project Management Office (PMO) and included in POW. But the problem here is that management fee is frequently incorrectly calculated and not included in POW. It was pointed out that the proper computation and declaration is more practical and effective way to increase income from management fee. Appropriate instruction and training for PMO will be a realistic way to improve the situation.

Shortage of auditor was emphasized in the workshop. Four (4) different types of audit for 203 responsible offices in a year must be too much work for seven (7) internal auditors. As a way to lighten the workload of auditors, Monitoring Performance Indicators prepared by CORPLAN was proposed to be used.

4) Administrative Services (AS) Sector

Common problems/issues with other sectors were stated as computerization (refer to Finance & Management Sector), weak monitoring & evaluation (refer to PDI Sector) and delay of procurement. Computerization was specially emphasized in the workshop.

5) Workshop with NIA Streamlining Committee Members

Following the explanation about the progress and present situation of NIA Streamlining Proposal, the participants started the discussion about organizational restructuring of NIA. They firstly listed up existing duplication of function and staff redundancy, and then tried to find some alternatives of organizational restructuring plan. The workshop was carried out with using color cards in order to visualize the information and contents of discussion. The followings are major results of the discussion.

a. Duplication of Function and Staff Redundancy

There are functional duplications among departments as follows.

- 1) CMD and SMD : New construction is duplicated.
- 2) PDD and SMD : Feasibility study is duplicated.
- 3) PDI and PPRD : Procurement of supplies and equipment is duplicated.
- 4) PDD and NIA Consultant : No duplication but depletion.

The participants didn't spare much time for discussing the specific issues concerning staff redundancy.

b. Organizational Restructuring Proposals

Advantages of NIA Streamlining Proposal presented in the workshop are as follows; "Each region can concentrate on regional irrigation development", "Easy to manage an office" and "Can reduce overhead cost". These are not specific enough and ill founded. On the other hand, disadvantages are as follows; "Too many RIOs" and "May encounter financial difficulty". "Too many RIOs" means "bloated organization". Bloated organization and financial difficulty are the most serious issues NIA is facing now. This implies that with NIA Streamlining Proposal, the critical situation of NIA would not be changed.

Other reorganization proposals presented were as follows; "Island based corporation", "No more RIO but only PIMO" and "Regional distribution by river basin". But the discussion was relatively leaned toward disadvantages of these proposals rather than advantages.

3.4 Workshop Evaluation

At the end of the workshop, Workshop Evaluation Sheets were passed for the participants to answer. A total of 29 participants answered the evaluation sheets. Summary of the results of evaluation are as follows.

1) What was your impression on the workshop?

a.	Excellent	0	(0%)
b.	Very Good	19	(66%)
c.	Fairly Good	5	(17%)
d.	Not so Good	1	(3%)
e.	No Answer	4	(14%)

- 2) Please state reasons for your answer.
 - The workshop brought out the insistent problems that were plaguing our office; hence a feeling of hope was established that the JICA consultants could at last help give solutions, given their expertise on those matters.
 - Exchange of views with different departments broadens one's perspective on the solutions for specific problems.
 - There was a lively participation/sharing of views, inter group discussions.
- 3) What are your suggestions to improve the conduct of workshop?
 - The study team should have informed the NIA staff of the workshop the information data to be needed in the discussion.
 - The workshop should have made sure that all the concerned sectors are adequately represented.
 - The data and information needed in the workshop should be required from the participants at least one week before the actual conduct of the workshop.

4 6th Participatory Workshop on Strengthening of NIA's Management System

The "6th Participatory Workshop on Strengthening of NIA's Management System" was held on February 26, 2001 in Quezon City involving Division Managers of NIA Central Office, aiming at formulation of the logical framework for basic approaches to tackle the issues of NIA's management.

Prior to the workshop, the JICA Study Team proposed a Logical Framework for NIA's Management Strengthening Plan. And in the workshop, participants discussed it, modified it and developed it. (For the detail of the proposed Logical Framework, refer to the "Interim Report, March 2001" prepared by the JICA Study Team.)

4.1 Objective

The workshop was intended to develop the Logical Framework of NIA's Management Strengthening Plan.

4.2 **Participants**

Thirty nine (40) participants including Division Managers of NIA Central Office. They consist of:

- One (1) member from CORPLAN
- Nine (9) members from PDI sector,
- Six (6) members from SOEM sector,
- Six (6) members from Finance & Management sector,
- Five (5) members from Administrative Services sector,
- Nine (9) counterpart personnel for the JICA Study Team,
- Three (4) members of the JICA Study Team.

4.3 Workshop Outcomes

The Logical Framework prepared by the JICA Study Team was presented at the beginning of the workshop, and then the participants started discussion on it with using color cards.

Logical Framework or Project Design Matrix (PDM) presents the key elements of a development intervention and their interrelationships. The intervention is usually termed a project. The framework clearly identifies the impacts or objectives the project will achieve. It also allocates measurable and/or tangible performance targets to them. The framework also clearly identifies the inputs and outputs the project will deliver to enable achievement of the proposed objectives. Thus, the framework presents a means and ends matrix where inputs lead to outputs and outputs lead to immediate objectives, which in turn lead to longer-term objectives. Although the matrix usually comprises 16 frames organized under 4 major headings, it is somewhat modified here in order to cope with the wider and comprehensive scope of the issues of NIA.

In the workshop, the participants modified and developed the proposed framework in order to formulate a realistic and effective NIA's Management Strengthening Plan. The "Narrative Summary" was fully discussed and almost completed. But, because of the time limitation,

"Objectively Verifiable Indicators", "Means of Verification", "Important Assumptions", "Pre-conditions" and "Inputs" were not covered. Thus the further discussion will be required for the completion of the Logical Framework or the NIA's Management Strengthening Plan.

The Logical Framework for NIA's Management Strengthening Plan formulated by the participants is presented in Table V.6.

4.4 Workshop Evaluation

At the end of the workshop, Workshop Evaluation Sheets were passed for the participants to answer. A total of 26 participants answered the evaluation sheets. Summary of the results of evaluation are as follows.

1) What was your impression on the workshop?

a.	Excellent	1	(4%)
b.	Very Good	25	(96%)
c.	Fairly Good	0	(0%)
d.	Not so Good	0	(0%)

- e. No Answer 0 (0%)
- 2) Please state reasons for your answer.
 - During the workshop presentation, sector representatives were informed of issues/concerns of other sector in NIA aside from their own. This will enable the participants to extend their support to cooperation in the solution to the problem if necessary.
 - Most of the activities needed to attain its purpose were properly identified.
 - There was active participation of almost all the participants, thus critical thinking was encouraged by the facilitators.
- 3) What are your suggestions to improve the conduct of workshop?
 - Suggest that everybody should contribute/participate in the discussion, participatory on deciding which is best among the affirmative solutions.
 - After the sector workshop, there should also be conference with top management officials (Administrator, Deputy Administrator and the Assistant Administrators) so that all prevailing problems could be addressed.
 - To conduct similar workshop with the field personnel (NISO, PIO, RIO) to obtain their impression.

5 7th and 8th Participatory Workshop on Strengthening of NIA's Management System

The "7th Participatory Workshop on Strengthening of NIA's Management System" was held on June 8, 2001 in Quezon City involving Department Managers of NIA Central Office, members of Inter Agency Coordination Committee (IACC) and members of NIA's Internal Task Force (ITF) aiming at formulation of an implementation schedule for NIA's Management Strengthening Plan.

The participants were requested to make an implementation schedule prioritizing the conceivable programs proposed in the form of the Logical Framework that was formulated in the 6^{th} workshop.

The 8th Participatory Workshop was held under the title of the "Meeting with Regional Managers & Project Managers on JICA's Study on Strengthening of NIA's Management System" on June 20, 2001 in Quezon City involving Regional Managers, Project Managers and members of Internal Task Force (ITF). In the workshop, the results of the 7th workshop were presented.

The below is the summary of the 7th workshop. For the full report, refer to the separated workshop report.

5.1 Objective

The workshop was intended to formulate an implementation schedule for NIA's Management Strengthening Plan.

5.2 **Participants**

Twenty nine (29) participants including Department Managers of NIA Central Office, IACC members and ITF members. They consist of:

- One (1) member from DBM
- One (1) member from DILG
- Three (3) members from PDI sector,
- Three (3) members from SOEM sector,
- Two (2) members from Finance & Management sector,
- Two (2) members from Administrative Services sector,
- Nine (9) counterpart personnel for the JICA Study Team,
- Eight (8) members of the JICA Study Team.

5.3 Workshop Outcomes

Although the number of the participants decreased from the estimated number of 60 to the actual number of 29 (probably because the workshop was held in their workplace) and the time was quite limited, the participants prioritized all the conceivable programs proposed in the Logical Framework (Table V.6) that was formulated in the 6th workshop. And the participants from NIA and the Study Team, both parties agreed upon the prioritization of the programs in due consideration of the urgency of respective program/project and availability of resources. Because the work result of the workshop was not elaborate enough to be an implementation schedule, the Study Team developed a specific implementation schedule based on the work result of the workshop. Developed implementation schedule is presented in the Table V.7.

5.4 Workshop Evaluation

At the end of the workshop, Workshop Evaluation Sheets were passed for the participants to answer. A total of 10 participants answered the evaluation sheets. Summary of the results of evaluation are as follows.

1) What was your impression on the workshop?

a.	Excellent	0	(0%)
b.	Very Good	7	(70%)
c.	Fairly Good	3	(30%)
d.	Not so Good	0	(0%)
e.	No Answer	0	(0%)

- 2) Please state reasons for your answer.
 - Objectives sufficiently satisfied but limited participation by members of top management.
 - The workshop clarifies issues according to priority.
 - The workshop was not carried out according to what was planned. The participants were supposed to be divided into groups but they didn't like to work in the small groups. The top management did not participate in the workshop. Some issues were not discussed thoroughly.
- 3) What are your suggestions to improve the conduct of workshop?
 - Conduct workshop outside NIA central office compound so that participants will be obliged to attend the whole day workshop.
 - Attendance of participants at all levels should have been observed to gain a wider perspective or opinion about the interim report.
 - The participants in the 6th participatory workshop were Division Managers & Study Team counterparts. Those in the 7th workshop were Department Managers & counterparts. The Managers could not relate with the result of the 6th workshop as basis for the Action Plan to be prepared (in the 7th workshop). Maybe, the Study Team should have briefed the managers of the results of the 6th workshop.

6 9th Participatory Workshop on Capacity Improvement Plan for NISO

The "9th Participatory Workshop on Capacity Improvement Plan for NISO" was held on July 13, 14, 16 and 17, 2001 involving the staff of three (3) NISOs, namely: Aganan-Sta.Barbara, Nayom-Bayto, UPRIIS District III and IA representatives in Aganan, aiming at evaluating the implementation of the Capacity Improvement Plan for Aganan-Sta.Barbara NISO and UPRIIS District III and assessment of impact of provision of equipment (computer hardware with software and fax machine) in Nayom-Bayto.

Prior to this workshop, the 3rd Participatory workshop was conducted last November 7~9 and 13, 2000 involving the staff of these three (3) NISOs. In the workshop, the strength, weakness, opportunities and threats of Nayom-Bayto as model office were identified. And based on the analysis of Nayom-Bayto, short-term capacity improvement plan for UPRIIS District III and Aganan-Sta.Barbara NISO were formulated.

The formulated plans for "Water Management" was piloted in Aganan NISO and "ISF Revenue Improvement" was piloted in UPRIIS District III and Aganan NISO. These plans were originally scheduled to be conducted for a 3-month period (November 2000 ~ February 2001). However, the GOP requested for an extension because 3-month period was too short to obtain a reliable result. The request was conveyed by the study team to JICA Headquarters Tokyo and was granted, hence the team continued to implement the plan until the early part of the Phase II Study.

The "9th Participatory Workshop on Capacity Improvement Plan for NISO" was held on

- 1) July 13, 14 in Iloilo City involving the staff of Aganan-Sta.Barbara NISO and farmers/IA representatives in Aganan
- 2) July 16 in Zambales involving the staff of Nayom-Bayto NISO
- 3) July 17 in Cabanatuan City involving the staff of UPRIIS District III.

6.1 **Objectives**

The workshop was intended:

- 1) to explain the Scope and Schedule of Phase II Study
- 2) to evaluate the impact of improvement plan for gate control operations and water delivery formulated in the 3rd workshop in Aganan-Sta.Barbar NISO
- 3) to evaluate the impact of improvement plan for ISF collection formulated in the 3rd workshop in Aganan-Sta.Barbar NISO and UPRIIS District III.
- 4) to evaluate the impact of provision of equipment (computer hardware with software and fax machine) in Nayom-Bayto NISO.

6.2 **Participants**

1) Workshop in Aganan-Sta.Barbara NISO

Thirty (30) participants including key personnel of Aganan-Sta.Barbara NISO. They consist of: eight (8) staff from Aganan-Sta.Barbara NISO, twenty (20) IA representatives among six (6) IA's (Validation Survey Respondents), one (1) counterpart personnel, one (1) member of the JICA Study Team

2) Workshop in Nayom-Bayto NISO

Twenty one (21) participants including the staff of Nayom-Bayto NISO attended the workshop. They consist of sixteen (16) staff from Nayom-Bayto NISO, three (3) counterpart personnel, and two (2) members of the JICA Study Team.

3) Workshop in UPRIIS District III

Sixteen (16) participants attended the workshop. They consist of eleven (11) staff from UPRIIS District III, three (3) counterpart personnel and, two (2) members of the JICA Study Team.

6.3 Executive Summaries:

(1) Workshop in Aganan-Sta.Barbara NISO

The first session was held involving the staff of Aganan-Sta Barbara NISO and representatives of the IAs covering Aganan, in order to evaluate the implementation of the Capacity Improvement Plan for the NISO both in "Water Management" and "ISF Collection."

1) Capacity Improvement Plan for Water Management

Four (4) outputs were expected to be achieved by the Capacity Improvement Plan for Water Management, i.e., 1) cropping calendar is prepared, 2) water delivery and distribution scheduled properly, 3) gate operation conducted properly and 4) water delivery and distribution is conducted properly. The actual outputs were compared with the expected outputs and the result showed that all four outputs were successfully achieved.

Prior to the Workshop, the Study Team conducted a "Validation Survey on Water Delivery and Distribution" to assess the impact of water delivery schedule and gate control introduced by the Study Team. (Details are discussed in the "Capacity Improvement Plan Report") Respondents of the survey were representatives from the 9 IA's covering the 5 divisions of Aganan area. Eighty (80) farmers answered the questionnaires for the dry cropping 2001 and one hundred twenty (120) representatives for the wet season 2001. Highlights of the survey results were discussed and confirmed with the IA representatives in the workshop. 69/120 or 86% of the respondents for the dry season and 88/120 or 73% of the respondents for the wet season were aware of the "Bulletin Boards" showing water delivery schedule installed by the Study Team beside the head gates of lateral canals. 70/180 or 87.5% of the respondents were satisfied with the water delivery distribution schedule during the dry season 2001 (Oct. 2000~Feb. 2001). Farmers whose farms are located in the tail end of the canals practice the dry seeding method "Kabsaka" to catch with the cropping schedule. 10/80 or 12.5% who were not satisfied were those whose farm lots are located at the downstream area. Water could reach their farm because canals are silted. The volume of water was sufficient according to the IA representatives. 50/80 or 62.5% of the farmers' respondents have not paid their ISF for dry crop. Reasons why farmers did not pay ISF are presented below in item 4). Respondents affirmed that water reached their farms timely for land soaking and for land preparation both for dry and wet seasons 2001. Permanent bulletin boards show the specific month and date when to open/close the head gate/check gate, thus the water delivery schedule can be effectively disseminated in farmers, and eventually lead to the increase of irrigated area and yields.

Measures for proper gate control introduced by the Study Team gained positive results. The Study Team, WRFTs and representatives of the concerned IAs jointly prepared a "Job Aid" on gate operation and water delivery schedule detailing the person in charge, the witness and the date and time of opening/closing of head gate/check gate. "Foot Patrol Teams" composed of the chief of the operations section, WRFTs and representatives of IAs were organized to ensure success of water delivery. And simple "Manuals" were also prepared by the Study Team to improve O&M practices to sustain irrigation systems.

2) Capacity Improvement Plan for ISF Collection

Four (4) outputs were expected to be achieved by the Capacity Improvement Plan for ISF Collection, i.e., 1) service area is firmed-up, 2) database is updated, 3) skill is enhanced, 4) collection strategy is improved. The actual outputs were compared with the expected outputs and the result showed that outputs 1)~3) were successfully achieved but not output 4).

Prior to the workshop, the Study Team conducted a "Validation Survey on ISF Collection" to assess the impact of the strategy for ISF collection increase. (Details are discussed in the "Capacity Improvement Plan Report").

"Capacity Improvement Plan for ISF Collection" was implemented aiming to prove that by updating the parcellary maps and the master lists, and reconciling the master lists and the IFRs, the NISO can prevent losses due to understatement in reporting of benefited and exempted areas, the consequent effect of which is the increase in billable area.

(a) Problems encountered in the process of updating parcellary maps

The respondents mentioned that they encountered the following problems in the process of updating parcellary maps: 1) lot sizes shown in parcellary maps do not tally with those found in the field, 2) names of tenant farmers in parcellary maps do not tally with the names of farmers in master lists, 3) it is difficult to secure the cadastral number of lots from the Assessor's Office.

(b) Problems encountered in the process of reconciliation of master lists with IFRs:

Lot sizes shown in master lists differ from those of the IFRs. Some farmers with IFR are not listed in master lists.

During the implementation of the Capacity Improvement Plan for ISF Collection, the following outputs were produced: 1) parcellary maps are updated, 2) master lists & IFRs are updated.

The decrease of service area is primarily attributed to land conversion. Aganan-Sta.Barbara NISO has been updating parcellary maps and master lists since 1997. Understatement of reported billing and exempted areas has been corrected at the time the Capacity Improvement Plan was introduced.

Lessons learned from the implementation of the Capacity Improvement Plan is the importance of regular updating of three documents (parcellary maps, master lists and IFRs) in so far as control of ISF billing is concerned.

3) Reasons why farmers do not pay ISF & how IA can help in increasing ISF collection

The workshop participants were divided into five groups representing the different IA's in Aganan area. Reasons common among the participants are: 1) education of children is always the first priority, 2) NIA does not accept collection in kind, 3) untimely arrival of NIA's collectors, 4) high cost of production, 5) farmers' tenure status.

IA representatives committed themselves to help in convincing their fellow farmers to pay their ISF through intensive collection campaign, enter into Type II contract, convince farmers to pay on time to avail of the 10% discount.

(2) Workshop in Nayom-Bayto NISO

Nayom-Bayto NISO was chosen as a model office in connection with the study on Capacity Improvement Plan. In the 3rd Participatory Workshop the staff analyzed their strengths, weaknesses, opportunities and threats in relation to ISF collection and water management.

The 2nd session for the 9th Participatory Workshop was held involving the staff of Nayom-Bayto NISO aiming at re-assess its weaknesses and threats and to assess the impact of the equipment provided by the Study.

1) Analysis of weaknesses and threats in ISF collection and water management

In the 3rd Participatory Workshop the staff have identified their Strengths, Weaknesses, Opportunities and Threats applying SWOT analysis. Seven months since the start of the implementation of the Capacity Improvement Plan, the staff re-analyzed whether the identified weaknesses and threats remained the same. The lack of equipment was given attention hence the JICA Study provided computer hardware with software and a fax machine to the NISO. Inactive IA's were attended to and series of meetings and information dissemination were conducted to strengthen the IAs. To some extent, some weaknesses were overcome. The Nayom-Bayto NISO maintains its high performance. It is basically attributed to the commitment and dedication of the staff.

2) Analysis of impact produced by the provision of equipment

The workshop also assessed impact of the inputs provided by the JICA Study. In general the provision of the computer hardware with software and a fax machine is of great help of the NISO. With these inputs the database is regularly updated, bills and statement of accounts are prepared on time and distributed to farmers before harvest season to ensure ISF payments. It also helps in the preparation of POWs and hastens and improves report preparation. The fax machine improved the communication process and reduced communication expenses.

(3) Workshop in UPRIIS District III

The third session was held involving the staff of UPRIIS District III in order to assess the impact of the implementation of the Capacity Improvement Plan for "ISF Collection."

The actual output was compared with the expected output using the indicators identified in the Project Design Matrix. Increase of ISF collection could not be verified, probably because the cut-off date for dry crop 2001 was July 31, 2001.

1) Capacity Improvement Plan for ISF Collection

The followings are comparisons of expected outputs and actual outputs:

(a) Service area is firmed-up: The office had a hard time securing documentation of declaration of real property from the Assessors Office. Actual field survey

should have been done but was not undertaken during the implementation period due to luck of funds.

- (b) Data base updated: For the 5 sample IA's field investigation was conducted and it was found that the lot size shown in the master list differ from that in the IFR. Some farmers with IFR are not listed in the master list. Changes were reflected to the master list database.
- (c) Skill is enhanced: The staff were given hands on training on spreadsheet application (MS Excel) using the spreadsheet templates developed by the Study Team. Selected staff attended the GIS training conducted by the Study Team.
- (d) Billing procedure is revised: The Study Team recommended the office to revise the existing billing system.

The results of the validation survey on ISF Collection was also discussed in the worrshop. Highlights in the discussion were the problems encountered during the updating of the parcellary maps and in reconciling the master list with the IFRs (details are discussed in Capacity Improvement Plan.)

6.4 Workshop Evaluation

Out of the fifty five (55) participants who attended the 9th Participatory Workshop, fifty (50) submitted their evaluation of the workshop.

In general, the workshop for three (3) NISO were successfully conducted. There was an active participation among the representatives of the NISOs and IAs. The workshop in Aganan especially served as a venue for NIA staff and IA representatives to exchange their views on how to strengthen the O&M and how to increase ISF collection. The workshop in Nayom-Bayto served as a venue for the NISO to evaluate its performance during the Study period. UPRIIS staffs believe that the workshop gave them the chance to assess the problems, find solutions in the implementation of the Capacity Improvement Plan.

TABLES

Table V.1 The Conceptual Relationship of the Long-term Plan and the Short-term Plans

PDM 1 (The long-term plan)

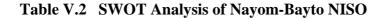
Narrative Summary	Indicators	Means of Verification	Important Assumptions	
<overall goal=""> Strong and viable organization.</overall>				
<project purpose=""> Income of NISO is increased.</project>				
<outputs> 1. Organization 2. Water Management 3. Maintenance 4. ISF Collection</outputs>				
<activities> 1-1 1-2 2-1 2-2 3-1</activities>	<in< td=""><td>puts></td><td><pre- conditions></pre- </td><td>-</td></in<>	puts>	<pre- conditions></pre- 	-
3-2				

PDM 2 (The short-term plan for Water Management)

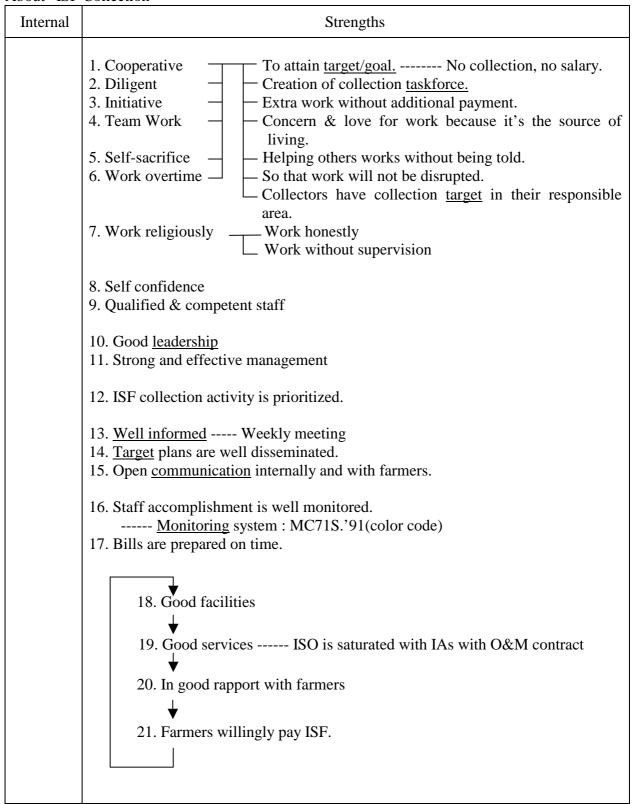
Narrative Summary	Indicators	MoV	IAs
<overall goal=""> - Crop Yield increased.</overall>			
<project purpose=""> - Irrigated Area increased.</project>			
<outputs> 1. Water Delivery Schedule 2. Gate Operation Manual 3. On-the-Job Training 4. Foot Patrol</outputs>			
<activities> 1-1 1-2 2-1 •</activities>	<inpu< td=""><td>its></td><td><pre-c></pre-c></td></inpu<>	its>	<pre-c></pre-c>
•			

PDM 3 (The short-term plan for ISF Collection)

Narrative Summary	Indicators	MoV	IAs
<overall goal=""> - ISF Collection increased.</overall>			
<project purpose=""> - Billed Area increased.</project>			
<outputs> 1. Parcellary Map 2. Update of Data Base 3. Skill Enhancement 4. Revision of Procedure</outputs>			
<activities> 1-1 1-2 2-1 ·</activities>	<inpt< td=""><td>its></td><td><pre-c></pre-c></td></inpt<>	its>	<pre-c></pre-c>
•			







Internal	Weaknesses
	 Limited resources Spare parts New motorcycles Collection expenses subsidy Limited personnel Lack of equipment Minimal research and development activities Training /seminars for staff & farmers
External	Opportunities
	 Strong links with LGUs Effective education to farmers Sufficient trainings for advancement of staff Recruitment of young labor force Proper coordination with other government agencies/NGOs to extent trainings Government agencies : DA, DAR, DENR NGO : ??? Seek assistance from RIO/CO for additional resources & equipment
External	Threats
	 Inactive IAs Peace & order situation AO17 Environmental degradation (watershed) Land conversion Natural calamities No police power Oil price increases.

About "Water Management"

Internal	Strengths
	 O&M plan, cropping calendar and cropping pattern is well prepared. Water delivery schedule is well implemented. (This is called Rotation of schedule in N-B) Close monitoring of water schedule Foot patrol after office hours, voluntary Good maintenance of irrigation canal & facilities Type 1 contract Installation of staff gauges Water re-use drainage water is re-used with check gates Regular meeting coordination meeting with IAs
Internal	Weaknesses
	 Unauthorized and/or illegal diversion Defective tertiary level facilities Series of turn-outs Lack of tertiary level facilities
External	Opportunities
	 Effective education to farmers to change their attitudes & values Improvement of tertiary level facilities Additional improvement of existing canals Consolidation of turn-outs Further education on water management Modern apparatus to use in monitoring/recording water discharge at main/lateral canals
External	Threats
	 Quarrying within restricted zone Peace & order situation Destruction of watershed

Table V.3PDM of Short-term Capacity Improvement Plan for "ISF Collection" for
UPRIIS District III

Duration : 3 months (20 November, 2000 ~ End of February, 2001)

Target Area : 1000ha of 5 IAs

Narrative Summary	Indicators	Means of Verification	Important Assumptions
<over-all goal=""></over-all>			
ISF Collection is increased.			
<project purpose=""> Billed area is increased.</project>	Billed area is increased by 10% by the end of February 2001.	Periodic report of billed area.	-Water is available. -No rat infestation takes place. -Farmers adherence to water delivery schedule.
 <outputs></outputs> Service area is firmed-up. Database is updated. Skill is enhanced. Billing procedure is revised. 	 Compare old parcellary maps with updated ones. Compare old IFRs with updated ones. Number of farm lot size and area. Updated database. Reports and computer outputs. Revised billing collection manual. 	 Prepared documentation of declaration of real property assessors' office. Field observation. 	None
<activities and="" charge="" in="" person=""> 1.1 Inventory taking of farm lots within the 1000ha sample area. 1.1.1 Analysis of inventory records and deciding on farm area. 1.1.2 Require conformity of farmers for revised area. 1.1.3 Confirmation of the existing data of parcellary maps2 Verification of lot sizes from farmers. <p 1.2:="" c="" i.1="" supervisor,="" wrft="" zone="" ~=""> 1.3 Drawing and printing of updated parcellary maps. <p 1.3:="" c="" engineer="" operation=""></p></p></activities>			None <pre-conditions> - Inputs are available on time.</pre-conditions>

Table V.4PDM of Short-term Capacity Improvement Plan for "Water Management"
for Aganan-Sta.Barbara NISO

Duration : 3 months (20 November 2000 ~ End of February 2001)

Target Area : Aganan NIS Division 3 (900ha / two IAs)

Narrative Summary	Indicators	Means of Verification	Important Assumptions
<over-all goal=""></over-all>			
<project purpose=""></project>			
- Cropping intensity is increased.			
<outputs></outputs>			
 Copping calendar is prepared. (Completed.) Water delivery & distribution schedule is prepared. (Completed.) Gate operation is conducted properly. Water delivery & distribution is conducted properly. 			
<activities and="" charge="" in="" person=""> 1. To confirm the cropping calendar. <p c="" jica="" study="" team=""> </p></activities>	<inputs -Computer</inputs 	>	
2. To confirm the water delivery & distribution schedule. <p c="" jica="" study="" team=""></p>	-Printer -Fax machine		
 3.1 To prepare simple instruction materials for gate operation. 3.2 To do the on-the-job training on proper gate operation to WRFs, ditch tenders and IA members <p c="" engineers=""></p> 			<pre-conditions></pre-conditions>
4. To do foot patrol when necessary. <p c=""></p>			

Table V.5PDM of Short-term Capacity Improvement Plan for "ISF Collection" for
Aganan-Sta.Barbara NISO

Duration : 3 months (20 November, 2000 ~ End of February, 2001)

Target Area : Aganan NIS Division 3 (900ha / two IAs)

Narrative Summary	Indicators	Means of Verification	Important Assumptions
<over-all goal=""></over-all>			
<project purpose=""> ISF collection efficiency is increased.</project>	Collection efficiency is increased by <u>%</u> basis after AO17 by the end of February 2001.	Collection report	
 <outputs></outputs> Service area is firmed-up. (Completed.) Database is updated. (In the process.) Skill is enhanced. Billing procedure is revised. Collection strategy is improved. 	 Compare old parcellary maps with updated ones. Compare old IFRs with updated ones. Number of farm lot size and area. Updated database. Reports and computer outputs. Revised billing collection manual. Number of farmers who willingly pay ISF. 	 Prepared documentation of declaration of real property assessors office Field observation. Collection report 	None
<activities and="" charge="" in="" person=""> 0. Baseline data survey to determine the indicator for Project Purpose. <p and="" c="" engineers="" jica="" study="" team=""></p></activities>	<inputs></inputs>	>	Nor
1. Confirmation of firmed-up service area. <p c="" jica="" study="" team=""></p>	-Printer -Fax machine		None
2. Confirmation of updated database. <p c="" jica="" study="" team=""></p>			
 3.1 Train ISO staff in computer operation. 3.2 On-the job training in word processing and spreadsheet application. <p c="" jica="" study="" team=""></p> 			
File Conversion - Design and development of templates for LIPA, LLTCF and ALLP. <p c="" jica="" study="" team=""> - Encoding of data on developed templates. <p c="" encoder=""></p></p>			<pre-conditions></pre-conditions>
 4.1 Proposal of revised procedure. 4.2 Discussion on the revised billing procedure. 4.3 Design and development of a revised billing and collection manual. <p c="" jica="" study="" team=""></p> 			
 5.1 Utilize IAs in ISF collection. - IAs enter contract among TSA groups. - Combined efforts of NIA personnel with IAs. 5.2 Intensive monitoring of ISF collection performance. 5.3 Provision of other support services. - IGP: Income Generation Project - CBU Bldg.: Capital Build-Up Building - TEP: Technology Enhancement Program 5.4 Post harvest facilities can be availed by farmers who pay ISF. 5.5 Encourage payment of current account. <p c="" development="" institutional="" section=""></p> 			

Table V.6 Logical Framework for NIA's Management Strengthening Plan

Objectively Verifiable Indicators	Means of Verification	Important Assumptions
I. Self-sufficiency rate in rice II. Poverty incidence is decreased	 I. Statistics of Bureau of Agricultural Statistics (BAS) II. Farmers' Income & Expenditure Survey Report 	
- Crops Yield is increased	- Farmers' Income & Expenditure Survey Report	 Market price of rice is not slumped Market price of agricultural inputs and labor cost is not jack-upped
- Delivery of right amount of water on right time		Jack appen
 Financial viability index is positive <u>Cropping Intensity</u> is increased 	 Financial Statement Performance Evaluation Report 	- No serious damage by natural calamity, pest or rats
 Lean but strong organization Total income Total cost Number of accomplished projects <u>Irrigated area</u> Number of active IA 	 NIA Corporate Culture Survey Financial Statement Financial Statement Project Accomplishment Report O&M Report IA Functionality Survey Report 	 Rainfall is not drastically changed by irregular weather like El Nino or La Nina Watershed maintains capacity of holding water
Inputs		Pre-conditions
 GOP allocates the necessary fund for activities (ex. In order to finance retirement and training programs, GOP provides a continuing fund for the 5-year restructuring program.) Services (consultants/experts in institutional development, finance & accounting, auditing, corporate management, operation management, irrigation facilities, GIS, MIS, etc.) Equipment and materials for construction and O&M 		 GOP and LGU provide political support and commitment Leadership of top management of NIA Ownership of the NIA's Management Strengthening among NIA staff Good governance No populist politics No political interventions Consistent agricultural development policy & strategies
	Indicators I. Self-sufficiency rate in rice II. Poverty incidence is decreased c Crops Yield is increased - Delivery of right amount of water on right time - Financial viability index is positive - Financial viability index is positive - Cropping Intensity is increased 1 Lean but strong organization 2 Total cost 4 Number of accomplished projects 5 Irrigated area 6 Number of active IA Ing Ing Ing GOP allocates the necessar (ex. In order to finance retirer provides a continuing fund fo program.) - Services (consultants/exper finance & accounting, auditin, operation management, irrigation	Indicators Delatis of vertification Agricultural Statistics (BAS) I. Self-sufficiency rate in rice decreased I. Statistics of Bureau of Agricultural Statistics (BAS) I. Poverty incidence is decreased I. Farmers' Income & Expenditure Survey Report - Crops Yield is increased - Farmers' Income & Expenditure Survey Report - Delivery of right amount of water on right time - Financial Statement - Delivery of right amount of water on right time - Financial Statement - Cropping Intensity is increased - Financial Statement 1 Lean but strong organization 3 Total cost 1 NIA Corporate Culture Survey 2 Total income 1 NIA Corporate Culture Survey 3 Total cost - Financial Statement 4 Number of active IA Project Accomplishment Report 5 Irrigated area 6 Number of active IA 5 O&M Report 6 Number of active IA - Survey 8 Expenditive Survey Report - GOP allocates the necessary fund for activities (ex. In order to finance retirement and training programs, GOP provides a continuing fund for the 5-year restructuring program.) - Services (consultants/experts in institutional development, finance & accounting, auditing, corporate management, operation management, irrigation facilities, GIS, MIS, etc.)

* technical viability : quality of service 1) skills (human resource), 2) system's operation

Activities and Sub-activities

1. NIA organization is strengthened

1.1 Consolidate the NIA management system

- (1) Restructure the Corporate Board of Directors (CBOD) Possible. However it needs some legislative measures.
 - 1) Strong Technical Secretariat for CBOD
 - 2) Delegation of attendance to BOD meetings should be limited to 2nd highest ranking officials
 - 3) BOD private sector representative must come from IA
 - 4) Enforce RA 7607 re:NCIA President to occupy seat in BOD
- (2) Strengthen the management support system (focus on Corplan)
- (3) Improve the management information system (MIS)
 - 1) Computerize MIS
 - 2) Maintain computerized MIS
 - 3) Develop & improve data base
 - 4) Use MIS for decision making, planning, etc.
 - 5) Recruit/hire additional programmers at EDP
 - 6) Provide & install internet for RIO nation wide
- (4) Strengthen the auditing function (to be independent = directly under the Administrator's Office)
 - 1) Restructure internal audit system
- (5) Others
 - 1) Review, monitor, rewrite and strengthen Policy
 - 2) Provide term tenure ship to AA (CESO : Career Executive Service Officer)
 - 3) Implement laws on merit promotion program
 - 4) Implement devolution effectively
 - 5) Impose sanctions on erring officials & employees
 - 6) Develop doable career development plan
 - 7) Provide good career pattern & incentives (fringe benefit, bonus etc.)for NIA personnel
 - 8) Strict implementation of EO439 s.1995 (about promotion)
 - 9) Recruit young qualified/competent personnel
 - 10) NIA must have effective/working monitoring & evaluation system as tool in
 - (a) determining/measuring performance of offices
 - (b) policy & decision making

1.2 Restructure NIA organization

(1) Integrate the organizational units

(Functional analysis of offices prior to merging is required.)

- 1) Merger overlapping units in CO
- 2) Regroup RIOs
- 3) Delegate the CO power and functions to RIO
- 4) Carry out devolution of CIS to LGU (MOA is needed between NIA and DILG)
- 5) Create one irrigation responsibility center (PIMO) for the operations and management of NIS by integrating NISO and PIO(Further study is required in terms of financial viability. Ex. 5 years after merging, Region 3 has no impact.)
- 6) Consolidate the supporting structure for IA and LGU

- (2) Prepare and implement an effective/attractive retirement program
 - 1) Explore possibility of borrowing funds for early retirement program from WB, ADB or JBIC as program/development loan
- (3) Transfer or re-assign redundant personnel

1.3Implement training and retooling program
(include Human Resource Developmentfund is needed)

2. Income is increased

2.1 Increase income from ISF

- (1) Restore the ISF rate to 1975 rate (1^{st} step)
 - 1) Increase the ISF rate to market base (2^{nd} step)
- (2) Increase ISF collection efficiency up to 60% on the national average
 - 1) Entrust or contract out ISF collection to a private sector including the regrouped IA (CIA) Not accepted by the participants

Alternative for 1) : Review & strengthen policy on IA's ISF collection under Type 2 contract

- 2) Develop strong & effective collection strategies
- 3) Intensify annotation program
- 4) Strengthen internal audit on ISF collection in irrigation systems and PIO
- 5) Collect ISF arrears by court actions
- (3) Amend certain ISF related policies

2.2 Increase income from other sources

- (1) Promote subsidiary businesses
 - 1) Lease idle equipment
 - 2) Lease idle buildings
- (2) Increase Management Fee rate to 10%
 - 1) Collect the right amount of 5% Management Fee
- (3) Accelerate disposal of non-performing asset
 - 1) Maximize disposal of unserviceable equipment
 - 2) Accelerate disposal of non-performing land
- **3.** Cost is reduced

3.1 Reduce/Eliminate the functional duplication and staff redundancy of NIA

- **3.2** Accelerate the retirement program
- 3.3 Strengthen the NIA's subsidiary business and relocate staff to it
- 3.4 Establish a standard

3.5 National government shoulders or subsidizes maintenance cost for completed major structures (dams, roads)

4. **Project implementation is improved**

4.1 Transfer functions (PDD, DSD, SMD & IDD) to RIO Not accepted by the participants

Alternative for 4.1 Strengthen RIO to have capability in planning & design by transferring or reassigning redundant staff

4.2 Strengthen the capability of planning and monitoring/supervising

(1) Collaborate with concerned Agencies/stakeholders in addressing the watershed & environmental problems affecting NIA's system (DENR, LGU, etc.)

4.3 Facilitate the project execution by eliminating obstacles in procurement, ROWA and others

- (1) Train members of Bidding Award Committee (BAC) and technical secretariat
- (2) Let PDI to handle/monitor all construction related activities, eliminating duplication of functions with SOEM

4.4 Encourage private sector to participate in irrigation implementation

- 1) Build & Operation & Transfer (BOT)
- 2) Build & Transfer (BT)
- 3) Build & Operation & Own (BOO)

5. **O&M** is strengthened

5.1 Set-up O&M fund to secure the regular maintenance of facilities and rehabilitation of NIS

Revision of 5.1 Set-up adequate O&M/emergency funds to secure the proper operation and regular maintenance as well as the rehabilitation/restoration of NIS facilities

5.2 Provide adequate A1 equipment for O&M of NIS

(1) Implement MC10s99 on "Equipment Group Pooling" in field offices

5.3 Improve MIS on O&M

5.4 Enforce legal sanction on illegal diversion and other prohibited activities

(1) Coordinate with LGU in checking water distribution

- 5.5 Set aside a part of equipment rental collected to establish "Equipment Trust Fund" for equipment repair & maintenance
- 5.6 NISO must concentrate only on O&M activities (contradicting) SOEM must concentrate only on O&M activities (contradicting) Repair & rehabilitation must be done by RIO (contradicting)
- 5.7 Firm up & update irrigated area regularly

6. IA is strengthened

6.1 Prepare and implement a turnover (IMT) program of NIS or laterals to IA/CIA

- (1) Develop and implement a workable and effective IA strengthening program of IMT
- (2) Conduct trainings for both officers & members of IA
- (3) Conduct on-the-job trainings instead of classroom type
- (4) NIA finance group trains IA on financial management

6.2 Monitor IA activities

- (1) Develop a system to measure effectiveness of IA
- (2) Carry out internal audit on regions and systems
- (3) Audit IA cashbooks
- (4) Accountant in RIO (senior management analyst) audit IA
- (5) Include a penal code in the MOA between NIA and IA
- 6.3 Hire an independent institution (e.g. an academic institution such as an university) to conduct an assessment of IA development to determine the deficiencies of NIA's efforts Not accepted by the participants

Alternative 6.3 NIA internal audit conduct regular IA assessment (This is stipulated in MOA between NIA and IA on Type 2 contract.)

- (1) Assess not only failure but also success in IDP implementation
- 6.4 Find legislative measure to fully fund institutional development and sustenance of IA (Part of the program is included in GAA)
- 6.5 Institutional Development Officers must have permanent appointment.

Table V.7Implementation Schedule for NIA's Management Strengthening Plan

Programs	and	Projects

1. Stre	ngthening of NIA's Organization is
	onsolidation of the NIA's management system
(1)	Restructuring of the Corporate Board of Directors (CBOD)
(-)	1) Strong Technical Secretariat should be a member of CBOD
	2) BOD private sector representatives must come from IA
	3) Enforce RA 7607 re:NCIA President to occupy seat in BOD
(2)	Strengthening of the management support system focusing upon Corplan
(3)	Improvement of the management information system (MIS)
	1) Computerize MIS
	2) Maintain computerized MIS
	3) Develop & improve data base
	4) Use MIS for decision-making, planning, etc.
	5) Recruit/hire additional programmers at EDP
	6) Provide & install internet for RIO nation wide
(4)	Improvement of the financial system
	1) Improve Accounting System
	2) Improve Budgeting system
	3) Improve Financial Forecasting System
	4) Improve Bidding System
	5) Improve Tariff Formulation System
(5)	Strengthening of the auditing function
	estructuring of NIA's organization
(1)	Integration of the organizational units
	(Functional analysis of offices prior to the merging is required.)
	1) Merger overlapping units in CO
	2) Regroup RIOs
	3) Delegate the CO power and functions to RIO
	4) Carry out devolution of CIS to LGU (MOA is needed between NIA and DILG)
	5) Create one irrigation responsibility center (PIMO) for the operations and
	management of NIS by integrating NISO and PIO
	6) Consolidate the supporting structure for IA and LGU
(2)	Preparation and implementation of effective/attractive retirement programs
	1) Explore possibility of borrowing funds for early retirement program from WB,
	ADB or JBIC as program/development loan
(3)	Transfer or re-assignment of redundant personnel
1.3 In	plementation of training and retooling programs
	(including Human Resource Development)

2. In	come Increase
2.1 I	ncrease income from ISF
(1)	Restoration of the ISF rate to 1975 rate (1st step)
	1) Increase the ISF rate to market base (2 nd step)
(2)	Increase of ISF collection efficiency up to 60% on the national average
	1) Review & strengthen policy on IA's ISF collection under Type 2 contract
	2) Develop strong & effective collection strategies
	3) Intensify annotation program
	4) Strengthen internal audit on ISF collection in irrigation systems and PIO
	5) Collect ISF arrears by court actions
(3)	Amendment of ISF related policies
2.2 I	ncrease income from other sources
(1)	Increase of the Management Fee rate to 10%
	1) Collect the right amount of 5% Management Fee
(2)	Acceleration of disposal of non-performing asset
	1) Maximize disposal of unserviceable equipment
	2) Accelerate disposal of non-performing land

3 Cost reduction

3.1	Elimination of the f	unctional duplica	ation and staff	redundancy of NIA
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- **3.2** Acceleration of the retirement programs
- 3.3 Establishment of cost standard

4.	Improvement	of pro	ject imp	olementation
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- 4.1 Transfer of functions (PDD, DSD, SMD & IDD) to RIO
- 4.2 Collaboration with concerned Agencies/stakeholders in addressing the watershed & environmental problems affecting NIA's system (DENR, LGU, etc.)
- 4.3 Facilitation of the project execution by eliminating obstacles in procurement, ROWA and others
- 4.4 Strengthening of Bidding Award Committee (BAC) and technical secretariat
- 4.5 Elimination of functional duplication of PDI and SOEM to let PDI to handle/monitor all construction related activities,
- 4.6 Encouragement of participation of private sector in irrigation implementation
 - 1) Build & Operation & Transfer (BOT)
 - 2) Build & Transfer (BT)
 - 3) Build & Operation & Own (BOO)

Э	Strengthening of O&M
5.1	Set-up of an adequate O&M/emergency funds to secure the proper operation and
	regular maintenance as well as the rehabilitation/restoration of NIS facilities
5.2	2 Establishment of "Equipment Trust Fund" for equipment repair & maintenance
	by setting aside a part of equipment rental collected
5.3	B Provision of adequate A1 equipment for O&M of NIS

1) Implement MC10s99 on "Equipment Group Pooling" in field offices

5.4 Improvement of MIS for O&M

.

5.4 Enforcement of legal sanction on illegal diversion and other prohibited activities 1) Coordinate with LGU in checking water distribution

- **5.6 Elimination of functional duplication on O&M** NISO must concentrate only on O&M activities SOEM must concentrate only on O&M activities Repair & rehabilitation must be done by RIO
- 5.7 Firm up & update irrigated area regularly

6 Strengthening of IA

- ~

6.1 Preparation and implementation of a turnover (IMT) program of NIS or laterals to IA/CIA

- (1) Develop and implement a workable and effective IA strengthening program of IMT
- (2) Conduct trainings for both officers & members of IA
- (3) Conduct on-the-job trainings instead of classroom type
- (4) NIA finance group trains IA on financial management

6.2 Monitoring of IA activities

- (1) Develop a system to measure effectiveness of IA
- (2) Carry out internal audit on regions and systems
- (3) Audit IA cashbooks
- (4) Accountant in RIO (senior management analyst) audit IA
- (5) Include a penal code in the MOA between NIA and IA

6.3 Regular IA assessment by the NIA internal audit

(1) Assess not only failure but also success in IDP implementation

6.4 Finding of legislative measures to fully fund institutional development and sustenance of IA

(Part of the program is included in GAA)

APPENDIX VI

STUDY ON INTEGRATION OF REGIONAL OFFICES AND PROVINCIAL OFFICES / NISO

APPENDIX – CHAPTER VI

STUDY ON INTEGRATION OF REGIONAL OFFICES AND PROVINCIAL OFFICES/NISO

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CHAPTER VI STUDY ON INTEGRATION OF REGIONAL OFFICES AND PROVINCIAL OFFICES/NISO

1. Integration of Region III and UPRIIS Operations Office (Case Study)

1.1 Review of Present Organizational Structure and Responsibilities

1.1.1 Mandate of Regional Offices

The basic mandate of the Regional Offices is essentially to oversee the performance of the field operations composed of the provincial irrigation offices (PIOs) and the national irrigation systems offices (NISOs). Broadly included in the mandate is the supervision of the construction of foreign-assisted projects. The latter function, however, is being superficially performed by the RIOs as the Central Office (CO) has direct control and supervision in the construction of foreign-assisted projects through the specially created project management offices (PMOs). In the supervision of national irrigation systems, this is likewise loosely treated as dam and reservoir types of irrigation systems have established their operations offices similar to the structure of the RIOs, notable cases of which are UPRIIS and MARIIS.

1.1.2 Organizational and Administrative Linkages

Region III and UPRIIS Operations Office have exactly the same organizational structure as shown in Figure VI.1.1. Region III is composed of 6 divisions, while UPRIIS operations office is made up of 4 divisions. The reduction of division in UPRIIS was necessitated by the acute lack of manpower since originally UPRIIS had the same divisions as the RIO.

These offices are basically performing staff support in the form of coordination and technical assistance to the lower offices. In the case of Region III, this implies support to the PIOs and NISOs, while UPRIIS is focused on the 4 District Offices, including the dam and reservoir division. UPRIIS operations office is likened as the overseer in terms of water allocation policy among the 4 District Offices.

In the organizational hierarchy, Region III and UPRIIS operations offices are organizational layers whose existence are dependent on financial support, in the form of ISF collection, coming from the NISOs and District Offices. They are essentially cost centers. The financial viability of their existence is being threatened unless there are opportunities for generating their own revenues as the NISOs and District offices have also been saddled with poor collection of ISFs. It is to be noted that 15 per cent of the ISF collections of the District Offices are being used to pay the personnel and overhead costs of UPRIIS Operations office, while 20 per cent of the NISOs' ISF collections are used to defray the personnel and overhead cost of Region III.

1.1.3 Administrative Workload

In terms of responsibility, Region III is directly assisting the 6 PIOs and 9 national irrigation systems. UPRIIS operations office, on the other hand is confined to the 4 District offices and the Dam and Reservoir Division. UPRIIS operations office is almost equivalent to Region III, where both offices independently report to the CO. A comparative profile of the scope of

responsibility of the two offices is given below. Obviously, UPRIIS operations office has the bigger scope in terms of service area. This may have greatly influenced the decision to establish an operations office. In the global context of water resource development in the region, Region III has the overall supervision responsibility, however.

Size in terms of irrigation service area, complexity of the irrigation system, and geographic accessibility have apparently dictated the establishment of two separate offices whose main concern is support and technical assistance to proper O and M of national irrigation systems. At the beginning, this was not a serious problem, but now that direct subsidies from the CO to the regions and UPRIIS have been eliminated, the cost of maintaining two separate offices within the same regional confines has indeed become prohibitive. *This observation is also true in the case of smaller regions that have individually maintained separate offices.* Political rather than economic consideration has been the primordial reason for the establishment of the offices.

Region III and UPRIIS operations office, as well as Region II and MARIIS are perfect examples of compartmentalized workload. To a certain extent, this is advantageous as there is focus of work and this may be equated to specialization. However, a closer review of this is the perceived absence of integrative planning and coordination on a geographic standpoint because both offices are co-equal and do not share the same horizon and perspective. Physically, this is quite evident in Region III and UPRIIS where the offices are located far apart unlike in Region II and MARIIS where they are housed under one roof. In effect, there is hardly any synergy of activities between Region III and UPRIIS.

Region III		UPRIIS Operations Office		
PIOs (CIS)	Service Area (ha)	District Offices	Service Area (ha)	
1 Bataan		District I	24962	
2 Pampanga		District II	23913	
3 Nueva Ecija		District III	29846	
4 Tarlac		District IV	23811	
5 Zambales		Dam and Reservoir		
NISOs				
1 Angat-Maasin	31485			
2 Camiling	8580			
3 Bucao	1231			
4 Colo-Caulaman	1021			
5 Nayom-Bayto	1948			
6 Nueva Ecija PIS	1313			
7 Porac-Gumain	4004			
8 Sto. Tomas	3924			
9 Tasmoris	13297			

Scope of Work and Supervision

Source: NIA Region III and UPRIIS

1.1.4 Divisions

Region III

A brief assessment of the functions of the 6 divisions of Region III is summarized in Table VI1.1 The divisions are essentially the counterpart of departments in the CO. The assessment pointed out the following observations:

- (a) Distinct functional relationship among the technical divisions (engineering, operations, equipment and IDD) is quite loose given the degree of overlapping among them. For instance, engineering and operations have respective responsibility in design of new construction and repairs and rehabilitation projects, respectively. Similarly, operations and institutional development have both responsibilities in training irrigation end-users and field officers. With the new thrusts on IMT and devolution, these responsibilities are likely to be fragmented if the same functional divisions are maintained. The need to fuse overlapping divisions becomes deemed imperative.
- (b) Equipment management division (EMD) is a revenue earner to the extent that there are projects. Without projects, EMD is likened as simply a motor pool of idle and mothballed equipment. Region III may be an exception, although based on the financial reports, income from equipment rentals has not been promising. Maintaining it as a division needs a closer review. Subsuming it under the engineering division to minimize redundancy also merits consideration.
- (c) Administrative is generally concerned with routine day-to-day administrative transactions. It can be expanded to assume the role of the finance and management division. Given this dimension, the finance and management division can be part and parcel of the administrative division.

The basic weakness of the divisional structure in Region III (which is generic to the Regional Offices and even to the CO) is the individualized nature of the divisions. Each division is doing its day-to-day functions, but not a single division is doing planning and investigative functions relative to shifting time dimensions that would allow the office to respond for changed conditions. Pieces of information coming from the various divisions go directly to the Regional Manager without the benefit of being analyzed from strategic and operational viewpoints. A support staff directly attached to the office of the Regional irrigation manager is plainly doing public relations. Communal irrigation projects transferred to the LGUs, for instance, has been totally abandoned (except for foreign-assisted projects) when in fact the Region could establish a technical assistance relationship with the LGUs. Under this circumstance, the Region could continue generating projects for and in behalf of the LGUs and the latter could reimburse for the services rendered through the GESA. This scheme could certainly defray part of the overhead cost of the Regions. Essentially, the divisions' modes of doing their work invariably suffer from short sightedness.

UPRIIS Operations Office

The functions of UPRIIS Operations Office' divisions are essentially similar to Region III. The only difference is the administrative workload. As earlier pointed out, UPRIIS is only responsible for the irrigation service area of the Upper Pampanga systems of close to 100,000 ha.

The number of divisions has been reduced into 4 from 6 by fusing engineering and operations divisions and administrative and finance divisions as shown in Figure 1.1. UPRIIS has gone ahead with its streamlining informally out of necessity. For one, it can not maintain its usual structure due to manpower depletion and acute lack of financial resources to pay for personnel salaries. UPRIIS operations office is practically relying on the ISF contributions of the District Offices. Its equipment division can not generate enough revenues as major rehabilitation and repair works have been very small for UPRIIS, in general, over the past several years, as evidenced by the deteriorating condition of the system's roads, canals and laterals.

The merging of 4 divisions into 2 was a good step. Notwithstanding with the reduced divisions, UPRIIS does not have any distinct advantage over the divisions in Region III, however. The merging was physical and nothing was new with respect to functions and thrust vis-à-vis future direction of UPRIIS and other adjacent river basin projects. The operations office whose divisional structure is patterned after the Regional offices may not all be essential if the concern is mere coordination and water planning about the needs of the District Offices and the Dam and Reservoir division. Such a responsibility can be equally performed by a smaller office (rather than an operations office) placed directly under the ambit of Region III.

1.1.5 Manpower Complement

The comparative manpower complement is given below. Of particular importance is the number of permanent employees. Region III and UPRIIS do not differ significantly in the number of authorized (permanent) personnel. But in terms of the number of filled-up, Region III is still intact with 76 per cent of its personnel or 103 people still available. UPRIIS has to date only 53 people or 43 per cent of the authorized personnel. Including the daily/contractual personnel, Region III has about 121 people while UPRIIS has about 76 people.

There are important implications about the extent of available permanent personnel. In terms of staffing, the permanent are the people who are secured vis-à-vis the daily/contractual who can only be employed subject to availability of project funds.

(a) In Region III, there is concentration of personnel in the equipment and management and administrative and finance divisions. Only a handful is available for the more important and technical divisions like engineering, operations and IDD. Although this is borne out by the original design of the staffing pattern (authorized), the degree of importance of maintaining such cadre of personnel for the concerned divisions may no longer be essential given the following considerations. Deployment of personnel under equipment and management division, for one, is contingent on the extent of projects being undertaken. Under this circumstance, personnel can be mobilized on a job order basis which can be cheaper than maintaining permanent personnel as they can be employed and/or terminated on need basis. In the case of administrative and finance, the high number of employees is mainly composed of accounting processors, clerks, utility workers, and security guards (Table VI.1.2).

(b) In UPRIIS, the manpower issue is entirely different from Region III. It has retrenched to the extent that only 40 per cent of the permanent items are filled up. It has only 9 people in equipment and management division and 20 people in administrative and finance division. Engineering and operations combined have only 8 people or 50 per cent of the authorized, while IDD has only 9 out of 12 people. The step taken by UPRIIS was borne out of necessity. If UPRIIS, in general, could go on with this magnitude of manpower, *further reduction of its personnel is arguably not going to pose a major constraint in the context of integration*.

	Region III		UPRIIS	
	Authorized	Filled-up	Authorized	Filled-up
1 Regional/Operations Manager Office	3	3	11	4
2 Engineering Division	18	12	16/a	8/a
3 Operations Division	11	9		
4 Institutional Devt. Division	11	9	19	12
5 Equipment Management Division	40	29	39	9
6 Administrative Division	30	22	38/b	20/b
7 Finance and Mgt. Division	23	19		
Total Permanent	136	103	123	53
Add: Daily/contractual		18		23
TOTAL		121		76

Comparative Manpower Complement of Region III and UPRIIS

/a Combined with operations division

/b Combined with finance and management division

Source: Ref. Table 1.2

1.2 Proposed Integration of Region III and UPRIIS

If only to eliminate the weaknesses cited above, the integration of Region III and UPRIIS merits favorable consideration. The following considerations are cited:

- (a) Region III (*and possibly the other Regional offices*) will have to undergo organizational strengthening in view of the weaknesses of its structures. The divisions will have to be reorganized congruent with the new challenges such as devolution, decentralization and IMT. This reorganization should globally be taken in parallel with the absorption of UPRIIS to establish a unified structure.
- (b) UPRIIS operations office is essentially crippled with its depleted manpower. Annexing it with Region III offers an alternative form of pooling its depleted manpower and thus regaining its strategic importance in the planning for UPRIIS.
- (c) The consolidation of revenue-generating assets, and eliminating redundant structures/divisions of two separate offices to meet the new challenges in the development of national irrigation systems and technical support to the LGUs is essential to ensure financial viability.
- (d) A single office overseeing the entire irrigation and water resource development offers ease in the coordination and attainment of integrated planning and technical assistance within the same geographic region. The contribution of UPRIIS' wastewater, for instance, to supplement supply to the other systems during critical periods can be planned and implemented under a unified structure.

1.2.1 Organizational Framework

In presenting the proposed integration plan, it is important to discuss the organizational framework presented in Figure VI.1.2. The framework stresses the distinct role that the regional and provincial irrigation management offices will perform under the proposed strengthening of NIA's management systems. The regional offices (e.g. Region III) are envisaged to do project preparation and_execution. This would mean assuming most of the responsibilities that the CO used to do before. Under the proposed framework, the special project offices or project management office (PMO) will now be directly under the regional offices.

The PIMO will focus on operations and maintenance and will not be involved in any construction activity. The reason is simply to give attention to O and M, an activity that has been neglected because of the priority given in favor of construction under the old organizational arrangement. With the transfer of communal irrigation projects to the LGUs, construction activity by the provincial offices will certainly disappear except maybe in special foreign-funded projects.

The new role being given to the regional and PIMO offices is essential in the context of decentralization, and would justify their continued existence. There are basic principles that should be met to activate these offices:

(a) The Region and the PIMO/District Offices should be adequately provided with budget. They can do so by giving them greater authority, generate revenues, and operate as semi-autonomous profit centers. Cross subsidization among the offices should be discouraged to allow flexibility in the use of their revenues, especially for maintenance of the systems.

- (b) While greater autonomy is proposed for these offices, accountability should also be co-existent with greater freedom. This means that control in the use of funds will be given prime consideration. Within the offices, appropriate systems and oversight committees composed of government and non-government representatives will be created to ensure transparency in the bidding and approval of contracts.
- (c) The manpower should be adequately compensated to ensure morale. It is thus proposed that the new staffing will be upgraded and will be only composed of qualified and competent staff competitive with the staffing structure of similar agencies.

1.2.2 Proposed Organizational Structure

The proposed organizational structure of the integrated office is given in Figure VI.1.3. The proposed structure is composed of three (3) major services and/or divisions with Region III as the surviving institution. *This structure is also proposed for the other consolidated regional offices*. The divisions have been upgraded to have the equivalent of department in the CO by virtue of greater responsibilities. The reduction in the number of divisions should not be construed as diminution of responsibilities but rather part of unifying the functions and responsibilities aimed at producing synergistic effect. Thus, under the proposed structure corresponding adjustments relative to line and staff authority, manpower and compensations were made.

The engineering, operations and administrative services comprised the new divisions. Equipment and management was placed under engineering; institutional development division was fused with operations, while finance and management was put under administrative. A small unit directly under the office of the Regional Director is the planning and monitoring which will serve as the instrument of control.

1) Engineering Services

The bulk of activities under project preparation and execution are essentially physical infrastructures and civil works, and these will be carried out under the engineering services. Specific activities are:

- (a) Planning and investigation
- (b) Design and specification
- (c) Feasibility study
- (d) Construction management
- (e) Contract preparation and supervision
- (f) Equipment management

The engineering services will assume the responsibilities of the PDD under a decentralized and consolidated structure. It is to be noted that a number of these activities will be contracted out to reputable institutions, and thus the engineering services will be greatly involved in selection and evaluation works.

The importance of good planning and adhering to the plan can not be overemphasized. This is the very essence of decentralizing project preparation and implementation so that the requirements can be calibrated appropriately and avoid costly delays.

The engineering services will be staffed with competent engineers and economists and will be managed by services/division manager equivalent to the rank of a department manager. A principal engineer will head each section.

2) Operations Services

The importance of operations services is essential especially in the institutional aspects of systems and water management. This division will be given the premier role of designing and coordinating innovative aspects of physical and institutional aspects of water delivery and allocation, including ISF. The division will combine the functions of the former operations and IDD. Institutional development will be given a new dimension in view of the importance of the IAs in the maintenance of the systems under the IMT. Specific activities under the heading of operations are:

- (a) Systems management
- (b) Water management
- (c) IAs technical and managerial assistance
- (d) IAs build-up and monitoring

The operations will be managed by a division chief with the rank of a department manager and each section will be headed by a principal engineer and/or institutional development personnel who are extensively involved in community/water-users organizing and managerial support.

3) Administrative Services

Administrative will combine the functions of day-to-day administrative matters including finance/cash management. Specific activities are:

- (a) Budget
- (b) Personnel
- (c) Records
- (d) Accounting
- (e) General services
- (f) Legal

A chief with the rank of a department manager will head the administrative services. The budget, personnel, records, general services and legal will be headed by a management chief, while the finance and accounting will be headed by a chief accountant

4) Planning and Monitoring Unit

The planning and monitoring unit will be the region's instrument of control. This unit will draw up annual and quarterly plans consistent with long-range plans and programs. It would monitor work progress and expenditures, gather and analyze data and present these to the management for policy and operational decision-making. The unit will also be responsible for backstopping the 3 divisions on strategic and policy planning.

The deputy regional director/irrigation manager will directly supervise the unit. Its staff will consist of senior engineer, economist and accountant.

1.2.3 Proposed Manpower Complement

The proposed manpower complement, including their salaries is presented in Table VI.1.3. Consistent with the proposal to strengthen the region, the salaries of the proposed manpower have been upgraded. The new staffing pattern is composed of only 83 personnel, 47 percent less than the combined permanent staffing of Region III and UPRIIS operations office.

The new staffing pattern for the Regional office can be summarized as follows: (a)the Regional Director assisted by a deputy Regional Director will head the Office; (b) Division Manager will manage the division, equivalent to a department at the CO; and (c) Principal engineer and/or section chief will head the different sections.

1.3 Financial Effects

1.3.1 Personnel Redundancy

Region III and UPRIIS operations office have total permanent personnel of 156. Including the daily and contractual personnel of 41, the total number is close to 200 (see section 1.5). Under the proposed integration, only the permanent personnel were considered. Given this consideration, the number of redundant permanent personnel is about 82, the detail of which is given in Table VI.1.4. Including the contractual, the total personnel due to be displaced is 123.

1.3.2 Savings in Personnel Salaries

With the upgraded salary structure, the annual cost of salaries is estimated at around 12.69 million pesos. The proposed annual cost of salaries is 66 percent less than the existing salaries of combined Region III and UPRIIS operations office.

Present Annual Salar	ies (million Pesos)/	Proposed Annual Salaries (million Pesos)		
Region III	18338	Region III & UPRIIS	12693	
UPRIIS Operations	18956			
Total	37294/a		12693/b	
Saving			24601	

Source: NIA CO, Region III and UPRIIS

2. Integration of Pampanga PIO and Porac-Gumain NISO

2.1 Review of Present Organizational Structure

2.1.1 Organizational Structure

Pampanga PIO and Porac-Gumain NISO were merged to become the Pampanga Provincial Irrigation Management Office. The organizational structure of the merged PIO and Porac-Gumain NISO is given in Figure VI.2.1. The two offices were fused and retained a single administrative section. The engineering and operations and maintenance were individual sections under the provincial and PG NISO, respectively.

The two offices were merged physically under a single roof, but functional integration is partially done. Accounting and finance transactions are still separately done. This is because the merging was internal to NIA and did not have the concurrence of the CSC and DBM.

The merging of the two offices provided an avenue to fully utilize the personnel of the PIO that became dormant in the absence of new communal irrigation projects. It should be stressed that with the Pinatubo incident in the early 90's, several communal as well as national irrigation systems in Pampanga were destroyed and thus a lull in construction activity. This was aggravated with the transfer of communal irrigation projects to the LGUs through the local government code. Notwithstanding these factors, the merging was a good step (*and a worthwhile model at the provincial level*) to consolidate depleted manpower of both offices and focused the activities on the O & M of existing systems.

Organizationally, the existing structure retains the bias in construction activity with the retention of the engineering section. This is all right but with the eventual disappearance of communal irrigation projects, this section is again likely to become inactive. The organizational structure will have to be slightly modified to be congruent with the framework as earlier discussed in section 2.1.

2.1.2 Manpower Complement

The existing manpower complement is given in Table VI.2.1. There are 52 personnel, 33 of which are permanent and the balance of 19 are daily/contractual. It is clearly evident that the personnel comprising the engineering section were former employees of the PIO, while the operations section comprises mostly the PG-NISO. The two sections are reinforced with daily/contractual personnel. Accordingly, there was no problem with the appointment of the head, as the PIO irrigation engineer had to be reassigned elsewhere. The position, however, remains and never was abolished. In reality, the staffing was made out of mere convenience to accommodate existing people who can not be forced to retire due to civil service rules.

Given the present quality of personnel, the engineering section appears weak with a single senior engineer and two assistants. The rest of the people are skilled or technicians. The existing structure of the PIO restricts its engineering section with reference to planning and design. It is still the Regional office that has the overall responsibility relative to design and planning. Thus, the people in the engineering section can be considered empty unless mobilized to do repairs of civil work.

With the exception of WRF tenders who should have been gone in lieu of Type II contract, the people under operations and maintenance appear intact and can be considered adequate relative to qualifications. The presence of WRFTs, agriculturist and IDOs can at least assume the important activities in water delivery/allocation, crop management and technical support to the IAs.

The people under the administrative are generally composed of non-technical, except for the cashier and accounting processors. Although the number of people has been reduced, the qualification of the personnel may have to be upgraded.

2.2 **Proposed Integration of PIO and NISO**

2.2.1 Rationale for Merging PIO and NISO

The merging of the PIO and NISO is inevitable for the following reasons:

- (a) With the devolution in place, there is no more major responsibility for the PIOs that have been established primarily for the construction and rehabilitation of communal irrigation projects. The provincial LGUs can absorb the PIOs similar to the former Bureau of Agricultural Extension (BAEX).
- (b) With the full-scale implementation of the IMT, small NISOs (e.g. systems whose service area of 3000 ha and below) are likely to be abolished since the O & M responsibility will be completely transferred to the IAs.
- (c) A new organization overseeing the maintenance of national irrigation systems becomes imperative at the provincial level; otherwise NIA will be unprepared to overcome the challenges of the new thrust on irrigation management. This thrust is minimum government intervention and more reliance on private initiatives. Reliance on private initiatives, however, requires serious and tedious institutional support that the existing provincial offices have not been crafted for.

2.2.3 Proposed Organizational Structure

The proposed organizational structure, composed of 3 sections is given in Figure VI.2.2. The structure is patterned after the proposed organizational framework described in section 1.2 where there is a distinct responsibility of the proposed PIMOs. It is proposed that the PIMO will focus on operations and_maintenance and leave construction activity to the regions through their special project offices. There are strong arguments for this focus of responsibility:

(a) It has become very costly for NIA to undertake major rehabilitation given the termination of direct subsidies from the national government. The only way it can prevent rapid deterioration of the facilities is to institute a strong policy of preventive maintenance.

- (b) Allowing the PIMO to focus on O&M will give them the opportunity to consolidate their efforts on technical and managerial assistance to the IAs essential to full implementation of IMT.
- (c) Water management has been virtually neglected with the diffused attention of the NISO and PIO. With concentration on O & M, the previous responsibility on water management planning to institute proper water delivery and allocation vis-à-vis water supply will be resuscitated.
- (d) Prompt and efficient service is synonymous to the institution of appropriate O & M practices. Appropriate service given to the IAs can minimize the problem of delinquent farmers. This should ensure the financial viability of the PIMO.
- (1) Operations

The operations section is mainly associated with software and/or institutional support. Specific activities under the heading of operations include:

- (a) systems management
- (b) water management
- (c) IAs build-up
- (d) IAs managerial assistance
- (e) Community/LGU assistance

Systems and water management is important in the maintenance of available water supply. If the systems are not properly maintained, the consequence is poor water management. Water measuring instruments can help the realization of proper systems and water management.

IAs build-up and managerial assistance are important in ensuring the over-all maturity of the IAs. This activity can not overemphasized with the thrust on IMT. IMT can only be realized should the IAs are technically and managerially prepared to assume such important role. The institutional development of the IAs will thus take a new dimension and should be jointly undertaken by the PIMO and reputable civil societies. The traditional concept of IAs organization will be reinforced with a continuing training on managerial and entrepreneurship to transform the IAs as market-driven organizations.

Community and LGU assistance is essential to get a broad-based support from the community. The problem of delinquent farmers with respect to payment of ISF can be minimized if the support of the community and the LGU is harnessed.

Competent staff will manage the operations section.

(2) Repair and Maintenance

Repair and maintenance will enforce a strict policy on preventive maintenance. It will focus on the hardware support of the irrigation systems. While engineering works are involved in major repairs, the section should not be construed to be concerned with construction. Specific activities under this section include:

- (a) dam and major/minor lateral canals
- (b) heavy equipment dredging
- (c) other infrastructure

Competent staff will manage the section.

(3) Administrative

The section will take care of the day-to-day administrative needs of the PIMO. Specific activities under the section are:

- (a) Personnel
- (b) Budget/finance
- (c) ISF collection and billing
- (d) Procurement

2.2.4 Proposed Manpower Complement

The proposed manpower complement, including the salaries is given in Table VI.2.2. The total workforce is 31, about 40 per cent less than the present manpower. Compared with the existing permanent staff of 33, the proposed staff is just about the same number. Positions and qualification differ from the old staffing pattern due to the upgrading of positions.

2.3 Financial Effects

2.3.1 Personnel Redundancy

The number of redundant personnel is given in Table VI.2.3. The number of redundant personnel is about 27 or 50 per cent of the total workforce. The number of new positions and upgrading of qualifications physically increase the number of displaced personnel. Note that of the proposed 31 personnel, only 25 people of the existing workforce will be absorbed. About 6 personnel will be recruited elsewhere or can be considered new.

3. Restructuring District Offices

3.1 Review of Organizational and Functional Structure

3.1.1 Organizational Structure

The 4 district offices of UPRIIS, including the dam and reservoir division will retain their identity at the provincial level. Based on the review, the organizational structure of the district offices is appropriate as given in Figure VI.3.1. The present structure is in congruent with the thrust on O & M at the provincial level. It is to be noted that the proposed PIMO organization is patterned after the district offices. However, some district offices have informally created organization units to address specific concerns because of manpower problems. There is nothing wrong with the present organizational structure.

The present organizational structure of the dam and reservoir division, however, requires reorganization. The present structure as shown in Figure VI.2.3 is composed of 3 sections, 2 sections of which pertains to operations of dam and the last section is watershed management. The basic weakness of the organization is the existence of several maintenance units under the Pantabangan section. Consolidating these units and into a single unit is proposed to improve coordination.

3.1.2 Manpower Complement

The existing workforce is given in Tables V.3.1 and V.3.2. What are noticeable among the 4 district offices are the WRF tenders. They have not been retired despite the policy on Type II contract. As regards the dam and reservoir, 70 per cent of the total workforce is assigned in the Pantabangan dam section. It is claimed that the present workforce of the district and dam and reservoir is overstaffed.

3.2 Proposed Organizational Structure of the Dam and Reservoir Division

The proposed organizational structure of the dam and reservoir division is presented in Figure VI.3.3. The proposal considered the consolidation of several maintenance units under the Pantabangan dam section.

3.2.1 Proposed Staffing Pattern

The proposed staffing pattern, including salaries is shown in Tables V.3.3 and V.3.4. The total workforce by district is given below:

District	Personnel
Ι	71
Ш	70
III	76
IV	70
Dam and Reservoir	57

3.3 Financial Effects

3.3.1 Personnel Redundancy

Estimates on the number of redundant personnel are given in Tables V.3.5 and V.3.6, a summary of which is given below.

Office	Number of Personnel
District I	52
District II	41
District III	76
District IV	41
Dam and Reservoir	58

TABLES

Table VI.1.1 Assessment of Divisional Responsibilities of Region III Office

Division	Assessment
1. Engineering	Engineering division is basically oriented to design, planning and construction. This division was primarily intended to assist and support the PIOs in the construction of CIS. This became a necessity because the PIOs were restricted with design standards. Had the PIOs been given design engineers as those posted in the Region, the PIOs can proceed with bigger and more responsible construction works.
2. Operations	Operations division is geared toward systems and water management, including repair and rehabilitation. This division was meant to support the NISOs. With the task assigned to repair and rehabilitation, it has also design engineers primarily for designing major repairs and rehabilitation. This task is perceived to overlap with the function of the engineering division. Over the years, the operations is perceived to have weakened its role because it was limited to monitoring and allocating repair and rehabilitation budgets among the competing NISOs instead of training irrigation end-users and field officers.
3. Institutional Development	IDD or institutional development division is primarily involved in organizing and build-up of IAs. Another important task rendered is dissemination of improved farm technologies, a major part of water management. Certainly this overlaps with the responsibility of the operations division on research and development, although this has been a dormant activity brought about by funding constraint.
4. Equipment Management	Equipment management division is basically in charge of pooling and dispatching of heavy and construction equipment. The extent of work of this division is contingent on the number of projects undertaken and availability of serviceable equipment. Presently, the condition of equipment is far from satisfactory.
5. Administrative	Administrative division is primarily concerned with personnel, records, general services, procurement and other services. Legal is one of the services assigned in this division, but because of low pay, no legal personnel has ever attempted to apply for the position. It has been dormant for quite sometime and this affects the capability of the region to address legal suits and prosecute erring IA members relative to non-payment of ISF.
6. Finance and Management	Finance and management division is primarily responsible for cash and budget transactions. One of the bigger tasks of the division is management control. However, this task is superficially done because it does not have any linkage with the other divisions with respect to planning and technical control. It can thus be integrated with administrative and focused on budget and finance activities.

Head Office III UPRIIS Total Head Office 1 1 2 1 Regional Manager 1 1 2 2 Clerk 1 1 2 Sub-total 1 2 3 Suport Staff 1 1 3 3 PR/Information Officer 2 1 3 4 Sr Financial Analyst 1 1 1 5 Clerk/Stenographer 2 2 4 Empineering Division 2 2 4 5. Supervising Engineer 2 2 4 8. Sr Engineer 3 2 5 9. Engineer 3 1 4 10. Economist 1 1 2 11. Drafisman 2 1 3 3 12. Engineering Assistant 1 1 1 2 13. Survey Aide 1 1 1 1 1 14. Clerk 1 1 1 <th>Table VI.1.2 Tresent reisonner Of Kegion</th> <th></th> <th>-</th> <th></th>	Table VI.1.2 Tresent reisonner Of Kegion		-	
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41. Sr Economist 1 1 2 42. Information/CR Officer 1 1 2	· · ·		1	
42. Information/CR Officer 1 1 2	40. Sr Engineer		1	
	41. Sr Economist	1	1	2
	42. Information/CR Officer	1	1	2
43. Agriculturist 1 1	43. Agriculturist	1		1

 Table VI.1.2
 Present Personnel Of Region III and UPRIIS Operations Office

Division/Position	0	Permanent		
44. Clerk	1	1	2	
Sub-total	9	12	21	
Administrative Division				
4.5 Division Manager	1	1	2	
46. Sr IRM Officer	1	1	2	
47. Sr Supply Officer	1	1	2	
48. IRM Officer		1	1	
49. IRD/Supply Officer	1	1	2	
50. IRM/Administrative Assistant		1	1	
51. Electronic Operator	1	1	2	
52. Attorney				
53. Medical Officer				
54. Dentist				
55. Store Keeper	1		1	
56. Security Guard	7	1	8	
57. Utility/Skilled Worker	4	3	7	
58. Clerk	5	2	7	
Sub-total	22	13	35	
Finance Division				
59. Division Manager	1		1	
60. Sr Corporate Accountant	1	1	2	
61. Sr Management Analyst	1		1	
62. Cashier	1	1	2	
63. Corporate Account Analyst	2	2	4	
64. Financial Planning Analyst	1		1	
65. Sr Accounting Processor	8	2	10	
66. Engineer			0	
67. Collection Representative	3		3	
68. Cashiering Assistant	1	1	2	
69. Clerk			0	
Sub-total	19	7	26	
TOTAL Permanent	103	53	156	
Add: Daily and Contractual	18	23	41	
TOTAL	121	76	197	
IUIAL	121	/0	197	

 Table VI.1.2
 Present Personnel Of Region III and UPRIIS Operations Office

Source: Region III and UPRIIS

(operations	Office (1/2)		
					y (PHP)
Director' s Office	SG	Rate/mo	No	Monthly	Annual
1. Regional Director	28	22,000	1	22,000	264,000
2. Deputy Regional Director	27	21,300	1	21,300	255,600
3. Secretary	11	9,580	2	19,160	229,920
Sub-total			4		749,520
Planning and Monitoring					
4. Sr Engineer	16	12,820	1	12,820	153,840
5. Sr Economist	16	12,820	1	12,820	153,840
6. Sr Finance/Accountant	16	12,820	1	12,820	153,840
7. Clerk	9	7,900	1	7,900	94,800
Sub-total			4		556,320
Engineering Division					
8. Division chief	25	19,700	1	19,700	236,400
9. Clerk	9	7,900	1	7,900	94,800
Sub-total			2		331,200
Planning and Design					,
10. Principal Engineer	22	17,500	1	17,500	210,000
11. Supervising Engineer	18	14,400	2	28,800	345,600
12. Sr Engineer	16	12,820	4	51,280	615,360
13. Sr Draftsman	11	9,600	1	9,600	115,200
Sub-total			8	- ,	1,286,160
Construction			-		, ,
14. Principal Engineer	22	17,500	1	17,500	210,000
15. Supervising Engineer	18	14,400	2	28,800	345,600
16. Sr Engineer	16	12,820	2	25,640	307,680
17. Engineer	14	11,000	1	11,000	132,000
Sub-total		,	6	,	863,280
Investigation and Survey					,
18. Principal Engineer	22	17,500	1	17,500	210,000
19. Supervising Engineer	18	14,400	2	28,800	345,600
20. Sr Engineer	16	12,820	3	38,460	461,520
Sub-total		,	6	,	1,017,120
Feasibility Report & Contract			Ū		1,017,120
21. Principal Engineer	22	17,500	1	17,500	210,000
22. Supervising Engineer	18	14,400	1	14,400	172,800
23. Sr. Engineer	16	12,820	1	12,820	153,840
24. Sr Economist	16	12,820	1	12,820	153,840
Sub-total		12,020	4	12,020	690,480
Equipment			•		0,00
25. Principal Engineer	22	17,500	1	17,500	210,000
26. Supervising Engineer	18	14,400	1	14,400	172,800
27. Sr Engineer	16	12,820	2	25,640	307,680
28. Drivers	7	7,400	4	29,600	355,200
29. Equipment Operators	9	7,400	2	15,800	189,600
30. Auto-Mechanic	9	7,900	2	15,800	189,600
Sub-total	,	7,700	12	15,000	1,424,880
Operations Division			14		1,727,000
31. Division Chief	25	19,700	1	19,700	236,400
32. Clerk	9	7,900	1	7,900	94,800
Sub-total	7	7,900	2	7,900	331,200
Systems and Water Management			4		551,200
33. Principal Engineer	22	17,500	1	17,500	210,000
34. Supervising Engineer	18	17,500	$\frac{1}{2}$	28,800	345,600
34. Supervising Engineer	10	14,400	L	20,000	343,000

Table VI.1.3 Proposed Staffing Pattern for Combined Region III and UPRIISOperations Office (1/2)

U	perations	SOLUCE $(2/2)$	<u>) </u>		
				Salar	y (PHP)
Director' s Office	SG	Rate/mo	No	Monthly	Annual
35. Sr Engineer	16	12,820	4	51,280	615,360
36. Soil and Water Specialist	16	12,820	1	12,820	153,840
Sub-total			8		1,324,800
Institutional					
37. Irrigators Development chief	22	17,500	1	17,500	210,000
38. Supervising IDO	18	14,400	2	28,800	345,600
39. Sr IDO	16	12,820	2	25,640	307,680
Sub-total			5		863,280
Administrative Division					
40. Division Chief	25	17,500	1	17,500	210,000
41. Clerk	9	7,900	1	7,900	94,800
Sub-total			2		304,800
Personnel, Records & Gen. Services					
42. Administrative Services chief	22	17,500	1	17,500	210,000
43. Personnel Officer	16	12,820	1	12,820	153,840
44. Records Officer	16	12,820	1	12,820	153,840
45. Procurement and Supply Officer	16	12,820	1	12,820	153,840
46. General Services Officer	16	12,820	1	12,820	153,840
47. Legal Officer	22	17,500	1	17,500	210,000
48. Industrial Security Guards	7	7,400	2	14,800	177,600
49. Utility Workers	7	7,400	2	14,800	177,600
Sub-total			10		1,390,560
Finance					
50. Chief Accountant	22	17,500	1	17,500	210,000
51. Sr Accountant	16	12,820	2	25,640	307,680
52. Sr Financial Analyst	16	12,820	2	25,640	307,680
53. Sr Cashier	16	12,820	1	12,820	153,840
54. Accountants	15	12,100	4	48,400	580,800
Sub-total			10		1,560,000
TOTAL			83		12,693,600

Table VI.1.3 Proposed Staffing Pattern for Combined Region III and UPRIISOperations Office (2/2)

	PRIIS Opera		ce		
A. Position	Proposed	Existing	Def/Excs	Remarks	Reclassified
1. Regional Director	1		-1	Ν	
2. Deputy Regional Director	1		-1	N	
3. Regional/Operations Irrigation Engineer		2	2	R	2
4. Services chief(Dept)	3		-3	N	
5. Division Manager		10	10	R	10
6. Principal Engineer	6		-6	N	
7. Supv Engineer	10	5	-5		
8. Sr Engineer	17	9	-8		
9. Engineer	1	7	6	R	6
10. Sr Economist	2	2	0		Ũ
11. Sr Finance/Accountant	5	3	-2		
12. Sr Draftsman	1	3	2	R	
13. Soil and Water Specialist	1	1	0	K	
14. Irrigators Devt chief	1	3	2	R	
15. Supervising IDO	2	2	0	K	
				D	
16. Sr IDO	2	5	3	R	
17. Administrative section chief	1	2	-1	N	
18. Personnel Officer/Sr IRM	1	2	1	R	1
19. Records Officer	1		-1	-	-
20. Procurement Officer/Sr Supply	1	2	1	R	1
21. General Services Officer	1		-1		
22. Legal Officer	1		-1		
23. Section Chief Accountant	1		-1	N	
24. Sr Cashier	1	2	1	R	
25. Accountants	4		-4		
26. Drivers	4	8	4	R	
27. HE Operators	2	8	6	R	
28. Auto Mechanic	2	8	6	R	
29. Secretary	2		-2	Ν	
30.Clerk	4	14	10	R	2
31. Security Guards	2	8	6	R	
32. Utility Workers	2	12	10	R	
B. Sub-total	83	116	33	70	22
C. Other Positions					
33. Sr Material Inspector		1		R	
34. Irrigators Devt Officers		1		R	
35. Community Relations Officers		2		R	
36. Sr. IRM Officer				R	
37. IRM Officer		1		R	1
38. IRM/Administrative Assistant		1	-	R	1
		2	-		
40. Electronin Operator				R	
41. Storekeeper		1		R	1
42. Sr. Management Analyst		1		R	1
43.Corporate Account Analyst		5		R	4
44.Financial Planning Analyst		1	ļ	R	l
45. Sr Accounting Processor		11		R	
46.Collection Representative		3	ļ	R	
47. Cashiering Assistant		2	ļ	R	
48. Transport Maintenance Supervisor		3		R	
49.Soil Technologist		1		R	
50. IRD/Supply Officer		1		R	
51. PR/Information Officer		3		R	
D. Sub-total		40		40	6
Total(B+D)	83	156		110	28

Table VI.1.4Estimate of Redundant Personnel for Combined Region III and
UPRIIS Operations Office

Source: JICA Study Team Code: R – Redundant; N – New; Def – Deficit; Excs - Excess

Reclassified – Excess personnel but will be absorbed to replace new positions

Provincial Irrigation Management Office	PIMO	PG NISO	Pampanga PIO
Head Office			
1. Irrigation Superintendent/Officer	1	1	1
Engineering			
2. Sr Engineer	1		1
3. Engineer	2		
4. Engineering Assistant	3		1
5. WRFO	1	1	
6. Drafstman	1		
7. Driver-Mechanic	2	2	1
8. Auto-Mechanic	1		1
9. Data Encoder	1		
10. Utility Worker	1		
11. Foreman	1		1
12. HE Operator	2		
Sub-total	16	3	5
Operations & Maintenance			
13. Agriculturist	1	1	
14. Sr WRFT	5		5
15. WRFT	3	3	
16. WRF Tender	6	8	
17. IDO	3		
18. Utility Worker	2	1	
Sub-total	20	13	5
Administrative			
19. Cashier	1		1
20. Sr Accounting Processor	2	1	
21. Accounting Processor	1	2	
22. Clerk	3	1	1
23. Storekeeper	1	1	1
24. Utility Worker	4		
25. Security Guards	2	2	1
26. Electronic Computer Operator	1		
Sub-total	15	7	4
TOTAL	52	24	15

Table VI.2.1 Existing Manpower Complement of PIMO Pampanga

Source: NIA Region III Note: PG NISO and Pampanga personnel are all permanent positions Combined PIMO has the following breakdown::

Permanent	33
Contractual	19
Total	52

Provincial Irrigation Management Office	No	SG	Salary (PHP)		
Head Office			Monthly	Annual	
1. Irrigation Superintendent	1	25	19,700	236,400	
2. Clerk	1	9	7,900	94,800	
Sub-total	2		27,600	331,200	
Operations Section			, í		
3. Supvg Engineer	1	18	14,400	172,800	
4. Sr Engineer	1	16	12,820	153,840	
5. Sr WRFT/IDOs	4	16	12,820	615,360	
6. WRFT(Operator)	2	12	10,160	243,840	
7. Agronomist	1	14	11,000	132,000	
8. Soils Specialist	1	14	11,000	132,000	
9. Utility worker	1	7	7,400	88,800	
Sub-total	11		79,600	1,538,640	
Repair and Maintenance			,		
Section					
10. Supvg Engineer	1	18	14,400	172,800	
11. Sr Engineer	1	16	12,820	153,840	
12. Engineer	1	14	11,000	132,000	
13. Auto Mechanic	1	9	7,900	94,800	
14. Driver Mechanic	1	9	7,900	94,800	
15. HE Operator	1	9	7,900	94,800	
16. Survey Aide	1	9	7,900	94,800	
Sub-total	7		69,820	837,840	
Administrative Section					
17. Administrative Services Officer	1	18	14,400	172,800	
18. Cashier	1	16	12,820	153,840	
19. Sr Accounting Processor	1	16	12,820	153,840	
20. Property Officer	1	16	12,820	153,840	
21. Records Officer	1	16	12,820	153,840	
22. IRM/Personnel Officer	1	16	12,820	153,840	
23. Collection Representative	1	12	10,160	121,920	
24. Accountants	1	15	12,100	145,200	
25. Clerk	1	9	7,900	94,800	
26. Security Guards	1	7	7,400	88,800	
27. Utility Worker	1	7	7,400	88,800	
Sub-total	11		123,460	1,481,520	
Total	31		, , , , , , , , , , , , , , , , , , ,	4,189,200	

Table VI.2.2 Proposed Staffing Pattern for PIMO Pampanga

Table VI.2.5 Estilla				_	
	Proposed	Existing	Def/Excs	Remarks	Reclassified
1. Irrigation Superintendent	1	1	0		
2. Supvg Engineer	2		-2	N	
3. Sr Engineer	2	1	-1		
4. Sr WRFT/IDOs	4	5	1	R	
5. WRFT(Operator)	2	3	1	R	
6. Engineer	1	2	1	R	1
7. Agronomist	1	1	0		
8. Soils Specialist	1		-1		
9. Auto-mechanic	1	1	0		
10. Driver Mechanic	1	2	1	R	
11. HE Operator	1	2	1	R	
12. Survey Aide	1		-1		
13. Administrative Services Officer	1		-1		
14. Cashier	1	1	0		
15. Sr Accounting Processor	1	2	1	R	
16. Property Officer	1		-1		
17.Records Officer	1		-1		
18. IRM/Personnel Officer	1		-1		
19. Collection Representative	1		-1		
20. Accountants	1		-1		
21. Clerk	2	3	1	R	
22. Security Guards	1	2	1	R	
23. Utility worker	2	7	5	R	
Sub-total	31	33	2	13	1
Other Personnel					
24. Engineering Assistant		3		R	2
25. Draftsman		1		R	
26. WRFO		1		R	
27. Foreman		1		R	
28. Data Encoder		1		R	
29. WRF Tender		6		R	1
30. IDO		3		R	
31. Accounting Processor		1		R	1
32. Store keeper		1		R	
33. Electronic computer operator		1		R	ľ
Sub-total		19		19	4
Total	31	52		32	5

 Table VI.2.3 Estimate of Redundant Personnel of PIMO Pampanga

Code: N – New; R - Redundant Reclassified – Excess personnel but will be absorbed.

District Offices of UPRIIS	т			TV.
District Office	Ι	II	III	IV
1. Irrigation Superintendent	1	1	1	1
2. Supvg. Engineer	2	2	2	2
3. Engineer(Hydrologist)	1	1	1	1
4. Engineering Assistant	1	1	1	1
5. Draftsman	1	1	1	1
	6	5		-
Sub-total	0	3	6	6
Operations Section	2	2	2	2
6. Sr Engineer	3	3	3	3
7. Sr WRFT	22	17	20	17
8. WRFT(Operator)	9	4	15	13
9. WRF Tender	38	34	62	30
10. WRF Technician		3	2	1
Sub-total	72	61	102	64
Repair and Maintenance Section				
11. Engineering Assistant	1	1		
12. Foreman	1			1
13. Carpenter	1	1	1	
14. Auto Mechanic	2	2	2	2
15. Driver Mechanic	4	5	7	6
17. HE Operator	3	3	3	3
18. Survey Aide		1	1	
Sub-total	12	13	14	12
Administrative Section				
19. Administrative Services Officer	1	1	1	1
20. Cashier	1	1	1	1
21. Sr Accounting Processor	1	1	1	1
22. Property Officer	1	1	1	1
23. Records Officer			1	
24. IRM/Personnel Officer	1	1		1
25. Transport Dispatcher	1	1		1
26. Collection Representative	2	2	1	2
*	1	1	1	1
27. Electronic Comm. System Operator				
27. Electronic Comm. System Operator 28. Store keeper				
28. Store keeper	1	1	1	1
28. Store keeper 29. Cashiering Assistant	1 1	1 1	1	1 1
28. Store keeper29. Cashiering Assistant30. Security Guards	1 1 3	1 1 3	1 1 3	1 1 3
 28. Store keeper 29. Cashiering Assistant 30. Security Guards 31. Clerk 	1 1 3 4	1 1 3 4	1 1 3 3	$ \begin{array}{r}1\\1\\3\\3\end{array} $
 28. Store keeper 29. Cashiering Assistant 30. Security Guards 31. Clerk 32. Accounting Processor 	1 1 3	1 1 3 4 7	1 1 3 3 7	$ \begin{array}{r}1\\1\\3\\3\\6\end{array} $
 28. Store keeper 29. Cashiering Assistant 30. Security Guards 31. Clerk 32. Accounting Processor 33. Foreman 	1 1 3 4 9	1 1 3 4 7 1	1 1 3 3 7 1	$ \begin{array}{r}1\\1\\3\\3\end{array} $
 28. Store keeper 29. Cashiering Assistant 30. Security Guards 31. Clerk 32. Accounting Processor 33. Foreman 34. Mason 	1 1 3 4 9 1	1 1 3 4 7 1 1	1 1 3 7 1 1	$ \begin{array}{c} 1\\ 1\\ 3\\ 6\\ 1\\ \end{array} $
 28. Store keeper 29. Cashiering Assistant 30. Security Guards 31. Clerk 32. Accounting Processor 33. Foreman 34. Mason 35. Utility worker 	1 1 3 4 9 1 1	1 1 3 4 7 1 1 1	1 1 3 7 1 1 2	$ \begin{array}{c} 1\\ 1\\ 3\\ 6\\ 1\\ 1\\ 1 \end{array} $
 28. Store keeper 29. Cashiering Assistant 30. Security Guards 31. Clerk 32. Accounting Processor 33. Foreman 34. Mason 	1 1 3 4 9 1	1 1 3 4 7 1 1	1 1 3 7 1 1	$ \begin{array}{c} 1\\ 1\\ 3\\ 6\\ 1\\ \end{array} $

 Table VI.3.1
 Existing Personnel of UPRHS District Offices

Dam and Reservoir Division UPRIIS	-r - · · · - · - · - · · · · · · · · · ·	Section		
	Head	Pantabangan	Canili-Diayo	Watershed Mgt
	Office	Dam	Dam	Section
Head Office				
1. Division Manager	1			
2. Clerk	1	1	1	
3. Principal Engineer		1		
4. Supvg Engineer			1	
5. Watershed Mgt. Chief				1
6. Draftsman		1		
7. Transport Electrician		1		
8. Mason		1		
9. Welder			1	
10. Forester				2
11. Agriculturist				1
12. Forestry Assistant				6
13. Driver Mechanic				1
		5	3	11
Mechanical Electrical Unit				
14. Sr Engineer		3	1	
15. Engineer		3		
16. Engineering Assistant		5	2	
17. Sr. Instrument Technician		1		
18. Auto Mechanic		1	1	
10. Plant Electrician		4	1	
11. Foreman				
12. Electronic Comm. Syst. Operator		1	1	
13. WRF Operator		5		
14. Utility Worker		3		
· · · · ·		26	6	
Maintenance Unit				
15. Sr Engineer		3	1	
16. Engineer		1		
17. Agriculturist		1		
18. Carpenter		2		
19. Sheet Metal Worker		1		
20. Plant helper		2		
21. Foreman		3	1	
22. Plumber			1	
23. Utility worker		17	5	
		30	8	
Equipment Unit				
24. Auto Mechanic		1		
25. HE Operator		2		
26. Driver Mechanic		4		
27. Utility Worker		1		
· · · · ·		8		
Administrative Unit				
28. Administrative Officer		1		
	1		1	L

 Table VI.3.2
 Existing Manpower of Dam and Reservoir Division, UPRIIS

Dam and Reservoir Division UPRIIS	Section							
	Head	Pantabangan	Canili-Diayo	Watershed Mgt				
	Office	Dam	Dam	Section				
29. Cashier		1						
30. Property Officer		1						
31. IRM Officer		1						
32. HSD		2						
33. Sr Accounting Processor		1						
34. Electronic Computer Systems Operator		2						
35. Cashiering Assistant		1						
36. Security Guards		1						
37. Clerk		1						
38. Utility Worker		5						
39. Nurse		1						
		18						
Total	2	87	17	11				
	117							

 Table V 3.2
 Existing Manpower of Dam and Reservoir Division, UPRIIS

	Table	/13.	<u>r roposeu Sta</u>	ing i attern i			1			11.7
District						II				IV
	SG	No.	Monthly (PHP)	Annual (PHP)	No	Annual (PHP)	No.	Annual (PHP)	No	Annual (PHP)
District Head Office										
1.Irrigation Superintendent	25	1	19,700	236,400	1	236,400	1	236,400	1	236,400
2.Clerk	9	1	7,900	94,800	1	94,800	1	94,800	1	94,800
Sub-total		2	27,600	331,200	2	331,200	2	331,200	2	331,200
Operations Section										
3.Supvg Engineer	18	1	14,400	172,800	1	172,800	1	172,800	1	172,800
4.Sr Engineer	16	2	12,820	307,680	2	307,680	2	307,680	2	307,680
5.Sr WRFT/IDOs	16	25	12,820	3,846,000	24	3,692,160	30	4,615,200	24	3,692,160
6.WRFT(Operator)	12	10	10,160	1,219,200	10	1,219,200	10	1,219,200	10	1,219,200
7.Agronomist	14	2	11,000	264,000	2	264,000	2	264,000	2	264,000
8. Soils Specialist	14	2	11,000	264,000	2	264,000	2	264,000	2	264,000
9. Utility worker	7	2	7,400	177,600	2	177,600	2	177,600	2	177,600
Sub-total		44	79,600	6,251,280	43	6,097,440	49	7,020,480	43	6,097,440
Repair and Maintenance Section							Î.			
10. Supvg Engineer	18	1	14,400	172,800	1	172,800	1	172,800	1	172,800
11. Sr Engineer	16	2	12,820	307,680	2	307,680	2	307,680	2	307,680
12. Engineer	14	1	11,000	132,000	1	132,000	1	132,000	1	132,000
13. Auto Mechanic	9	2	7,900	189,600	2	189,600	2	189,600	2	189,600
14. Driver Mechanic	9	2	7,900	189,600	2	189,600	2	189,600	2	189,600
15. HE Operator	9	2	7,900	189,600	2	189,600	2	189,600	2	189,600
16. Survey Aide	9	1	7,900	94,800	1	94,800	1	94,800	1	94,800
Sub-total		11	69,820	1,276,080	11	1,276,080	11	1,276,080	11	1,276,080
Administrative Section					1					
17. Administrative Services Officer	18	1	14,400	172,800	1	172,800	1	172,800	1	172,800
18. Cashier	16	1	12,820	153,840	1	153,840	1	153,840	1	153,840
19. Sr Accounting Processor	16	1	12,820	153,840	1	153,840	1	153,840	1	153,840
20. Property Officer	16	1	12,820	153,840	1	153,840	1	153,840	1	153,840
21. Records Officer	16	1	12,820	153,840	1	153,840	1	153,840	1	153,840
22. IRM/Personnel Officer	16	1	12,820	153,840	1	153,840	1	153,840	1	153,840
23. Collection Representative	12	2	10,160	243,840	2	243,840	2	243,840	2	243,840
24. Accountants	15	3	12,100	435,600	3	435,600	3	435,600	3	435,600
25. Clerk	9	1	7,900	94,800	1	94,800	1	94,800	1	94,800
26. Security Guards	7	1	7,400	88,800	1	88,800	1	88,800	1	88,800
27. Utility Worker	7	1	7,400	88,800	1	88,800	1	88,800	1	88,800
Sub-total		14	123,460	1,893,840	14	1,893,840	14	1,893,840	14	1,893,840
Total		71		9,752,400	70	9,598,560	76	10,521,600	70	9,598,560

Table VI 3.3 Proposed Staffing Pattern for UPRIIS District Offices

	1	UPRIIS		
Dam and Reservoir	No	SG	Monthly (PHP)	Annual (PHP)
Head Office				
1. Division Manager	1	25	19,700	236,400
2. Clerk	1	9	7,900	94,800
Sub-total	2			331,200
Pantabangan Dam Section				
Head Unit				
3. Principal Engineer	1	22	17,500	210,000
4. Clerk	1	9	7,900	94,800
Sub-total	2			304,800
Electrical/Mechanical Unit				
5. Supervising Engineer	1	18	14,400	172,800
6. Sr Engineer	2	16	12,820	307,680
7. Engineer	2	14	11,000	264,000
8. Plant Electrician	2	10	8,600	206,400
9. Plant Mechanic	2	10	8,600	206,400
Sub-total	9			1,157,280
Maintenance Unit				
10. Supervising Engineer	1	18	14,400	172,800
11. Sr Engineer	2	16	12,820	307,680
12. Engineer	1	14	11,000	132,000
13. HE Operator	1	9	7,900	94,800
14. Auto-Mechanic	1	9	7,900	94,800
15. Driver-Mechanic	2	9	7,900	189,600
16. WRF Operator	2	9	7,900	189,600
17. Other skilled/utility worker	2	9	7,900	189,600
Sub-total	12		,	1,370,880
Canili-Diayo Dam Section				· · · · · · · · ·
Head Unit				
18. Principal Engineer	1	22	17,500	210,000
19. Clerk	1	9	7,900	94,800
Sub-total	2		,	304,800
Electrical/Mechanical Unit				,
20. Supervising Engineer	1	18	14,400	172,800
21. Sr Engineer	1	16	12,820	153,840
22. Engineer		14	11,000	100,010
23. Plant Electrician	1	10	8,600	103,200
24. Plant Mechanic	1	10	8,600	103,200
Sub-total	4	10	0,000	533,040
Maintenance Unit	т			555,040
25. Supervising Engineer	1	18	14,400	172,800
26. Sr Engineer	1	16	12,820	172,800
27. Engineer	1	10	11,000	132,000
28. HE Operator	1	9	7,900	94,800
29. Auto-Mechanic	1	9	7,900	94,800
30. Driver-Mechanic	1	9	7,900	94,800
31. WRF Operator	1	9	7,900	94,800
32. Other skilled/utility worker	1	9	7,900	94,800
Sub-total	8	9	7,900	
500-10181	ð			932,640

Table VI.3.4 Proposed Staffing Pattern on Dam and Reservoir Division, UPRIIS

		UPKIIS						
Watershed Management Section								
Dam and Reservoir	No	SG	Monthly (PHP)	Annual (PHP)				
Head Unit								
33. Watershed Mgt. Chief	1	22	17,500	210,000				
34. Clerk	1	9	7,900	94,800				
Sub-total	2			304,800				
Maintenance Unit								
35. Forester	2	16	12,820	307,680				
36. Agriculturist	1	16	12,820	153,840				
37. Forest Assistant	6	10	8,600	619,200				
38. Driver-Mechanic	1	9	7,900	94,800				
Sub-total	10			1,175,520				
Administrative Section								
39. Administrative Services								
chief	1	22	17,500	210,000				
40. Property & Suply Officer	1	16	12,820	153,840				
41. Personnel Officer	1	16	12,820	153,840				
42. Sr Accountant	1	16	12,820	153,840				
43. Cashier	1	16	12,820	153,840				
44. Clerk	1	9	7,900	94,800				
45. Security Guard	1	7	7,400	88,800				
46. Utility worker	1	7	7,400	88,800				
Sub-total	8			1,097,760				
TOTAL	59			7,207,920				

Table VI.3.4 Proposed Staffing Pattern on Dam and Reservoir Division,
UPRIIS

		Iuo			i ersonner		District (JIIICOS				
District	Ι			II			III			IV		
	Proposed	Existing	Def/Exc	Proposed	Existing	Def/Excs	Proposed	Existing	Def/Excs	Proposed	Existing	Def/Excs
1 Indention Conceintendent	1	1	0	1	1	0	1	1	0	1	1	
1. Irrigation Superintendent	1	1	0	1	1	0	1	1		1	-	0
2. Supvg Engineer	2	2	0	2	2	0	2	2	0	2	2	0
3. Sr Engineer	4	3	-1	4	3	-1	4	3	-1	4	3	-1
4. Engineer	1	1	0	1	1	0	1	1	0	1	1	0
5. Engineering Assistant		2	2		1	1		1	1		1	1
6. Sr WRFT/IDOs	25	22	-3	24	17	-7	30	20	-10	24	17	-7
7. WRFT (Operator)	10	9	-1	10	4	-6	10	15	5	10	13	3
8. Agronomist	2		-2	2		-2	2		-2	2		-2
9. Soils specialist	2		-2	2		-2	2		-2	2		-2
10. Utility worker	3	1	-2	3	1	-2	3	2	-1	3	1	-2
11. Auto Mechanic	2	2	0	2	2	0	2	2	0	2	2	0
12. Driver Mechanic	2	4	2	2	5	3	2	7	5	2	6	4
13. HE Operator	2	3	1	2	3	1	2	3	1	2	3	1
14. Survey Aide	1		-1	1	1	0	1	1	0	1		-1
15. Administrative services officer	1	1	0	1	1	0	1	1	0	1	1	0
16. Cashier	1	1	0	1	1	0	1	1	0	1	1	0
17. Sr Accounting Processor	1	1	0	1	1	0	1	1	0	1	1	0
	1	1		1	1		1	1	-	1	1	-
18. Property Officer	1	1	0	1	1	0	1	1	0	1	1	0
19. Records Officer			-1	1		-1	1	1	0	1		-1
20. Personnel Officer	1	1	0	1	1	0	1		-1	1	1	0
21. Collection Representative	2	2	0	2	2	0	2	1	-1	2	2	0
22. Accountants	3		-3	3		-3	3		-3	3		-3
23. Clerk	2	4	2	2	4	2	2	3	1	2	3	1

Table VI.3.5 Redundant Personnel for UPRIIS District Offices

		Iuni			croonner			/IIIees				
District	I			II			III			IV		
	Proposed	Existing	Def/Exc	Proposed	Existing	Def/Excs	Proposed	Existing	Def/Excs	Proposed	Existing	Def/Excs
24. Security Guards	1	3	2	1	3	2	1	3	2	1	3	2
Sub-total	71	64	-7	70	55	-15	76	70	-6	70	63	-7
Others												
25. Draftsman		1			1			1			1	
26. WRF Tender		38			34			62			30	
27. WRF Technician					3			2			1	
28. Transport Dispatcher		1			1						1	
29. Electonic Comm. Ssystems Operator		1			1			1			1	
30. Storekeeper		1			1			1			1	
31. Cashiering Assistant		1			1			1			1	
32. Accounting Processor		9			7			7			6	
33. Foreman		1			1			1			2	
34. Mason/carpenter		2			2			2				
Sub-total		55			52			78			44	
Total	71	119			107			148			107	
		-16			-24			-21			-19	
	(55+9-12)	52		(52+9-20)	41		(78+15-17)	76		(44+12-15)	41	
		4			4			4			4	

Table VI.3.5 Redundant Personnel for UPRIIS District Offices

	Proposed	Existing	Def/Excs	
1 Division Manager	1	1	0	
2 Watershed Mgt. Chief	1	1	0	
3 Principal Engineer	2	1	-1	
4 Supervising Engineer	4	1	-3	
5 Sr Engineer	6	8	2	2
6 Engineer	4	4	0	
7 Plant Electrician	3	5	2	2
8 Plant Mechanic	3		-3	
9 HE Operator	2	2	0	
10 Auto-Mechanic	2	2	0	
11 Driver-Mechanic	4	5	1	
12 WRF Operator	3	5	2	
13 Forester	2	2	0	
14 Agriculturist	1	1	0	
15 Forest Assistant	6	6	0	
16 Administrative Services chief	1	1	0	
17 Property & Suply Officer	1	1	0	
18 Personnel Officer	1	1	0	
19 Sr Accountant	1	1	-1	
20 Cashier	1	1	0	
21 Clerk	5	4	-1	
22 Security Guard	1	1	0	
23 Utility worker	4	31	27	
Sub-total	.59	84	25	
	57	01	25	
Others				
24 Draftsman		1		
25 Transport Electrician		2		
26 Mason		2		
27 Welder		1		
28 Sr Instrument Technician		1		
29 Engineering Assistant		7		2
30 Foreman		4		
31 Electronic Comm. Syst. Opr		4		
32 Carpenter		2		
33 Sheet Metal worker		1		
34 Plant Helper		2		
35 Plumber		1		
36 Sr Accounting Processor		1		1
37 HSD		2		1
38 Cashiering Assistant		1		1
39 Nurse		1		
57 1 (d150		33		

Table VI.3.6 Estimate of Redundant Personnel, Dam and Reservoir, UPRIIS

Deficit	-9
Redundant (33+34-9)	58

FIGURES

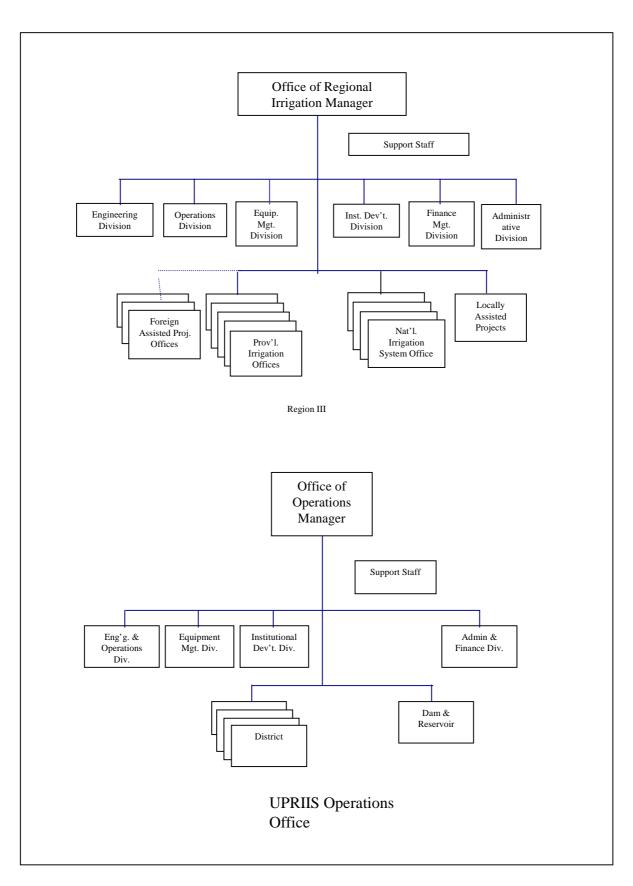


Figure VI.1.1 Existing Organizational Structure of Region III and UPRIIS

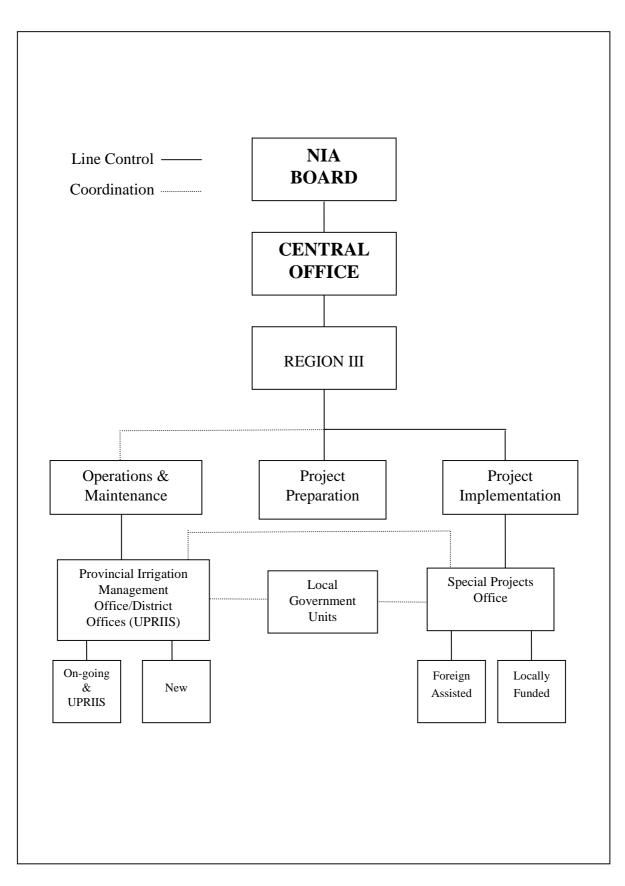


Figure VI.1.2 Organizational Framework for Implementation and Operation and Maintenance o National Irrigation Systems

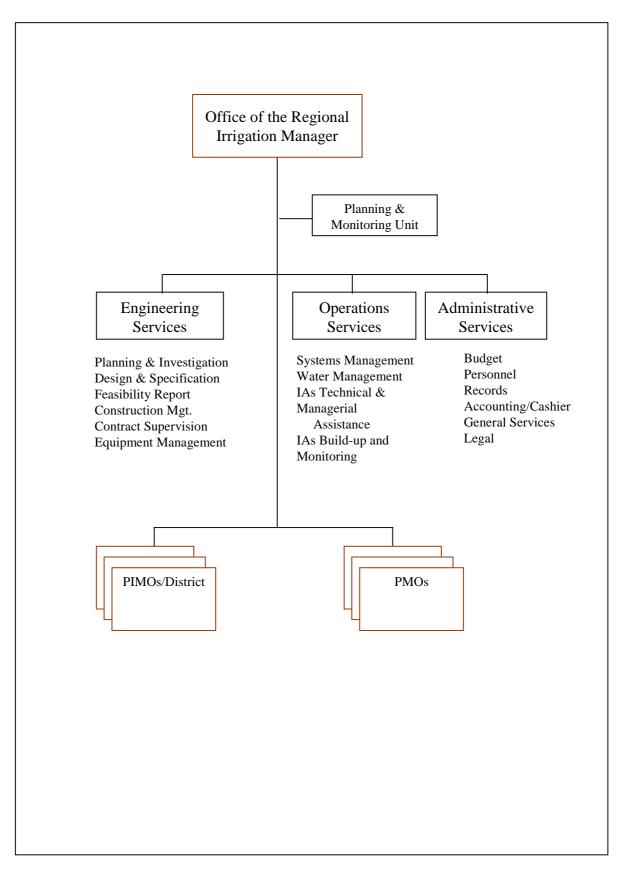


Figure VI.1.3 Proposed Organizational Structure of Combined Region III and UPRIIS

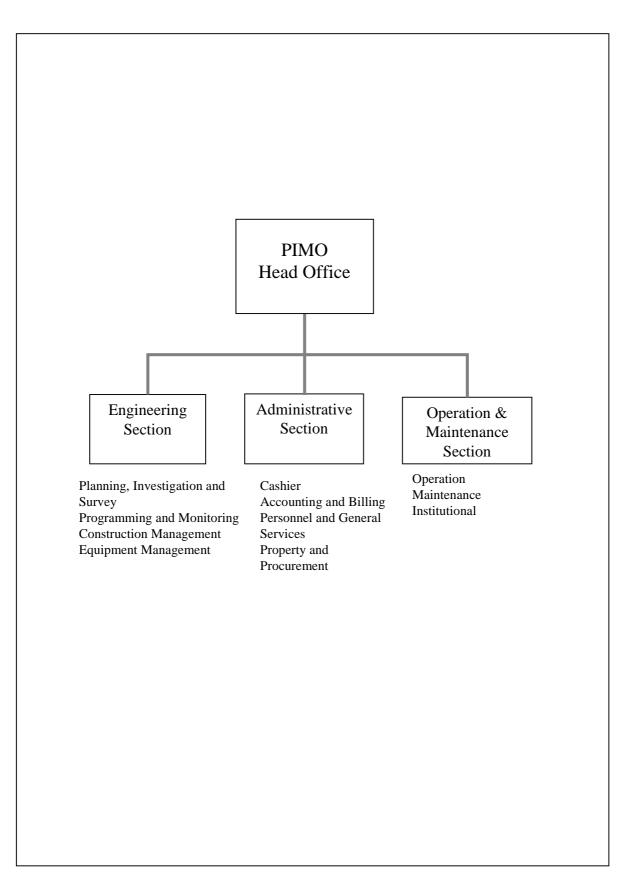


Figure VI.2.1 Existing Organizational Structure of PIMO Pampanga

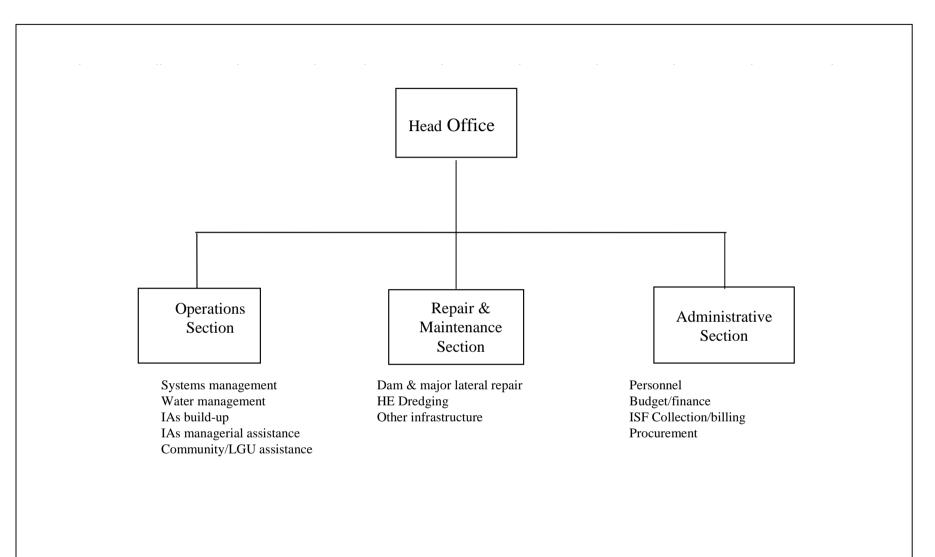
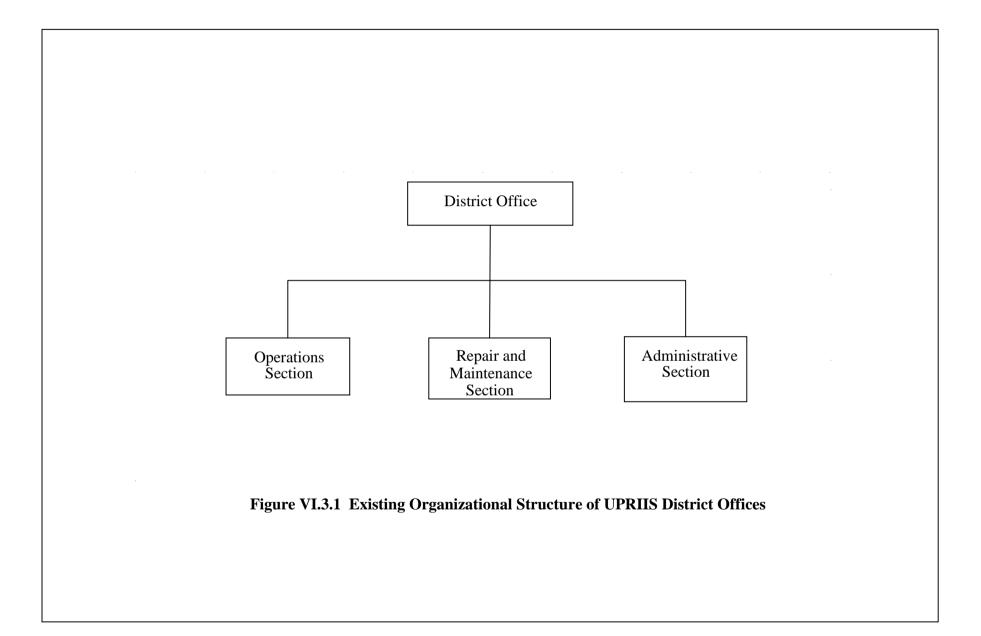
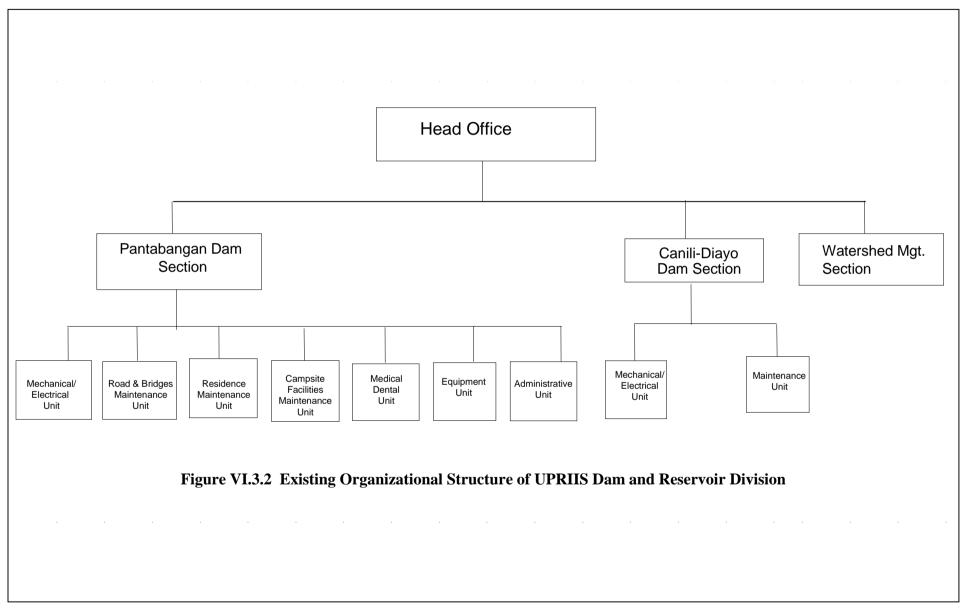


Figure VI.2.2 Proposed Organizational Structure of PIMO Pampanga

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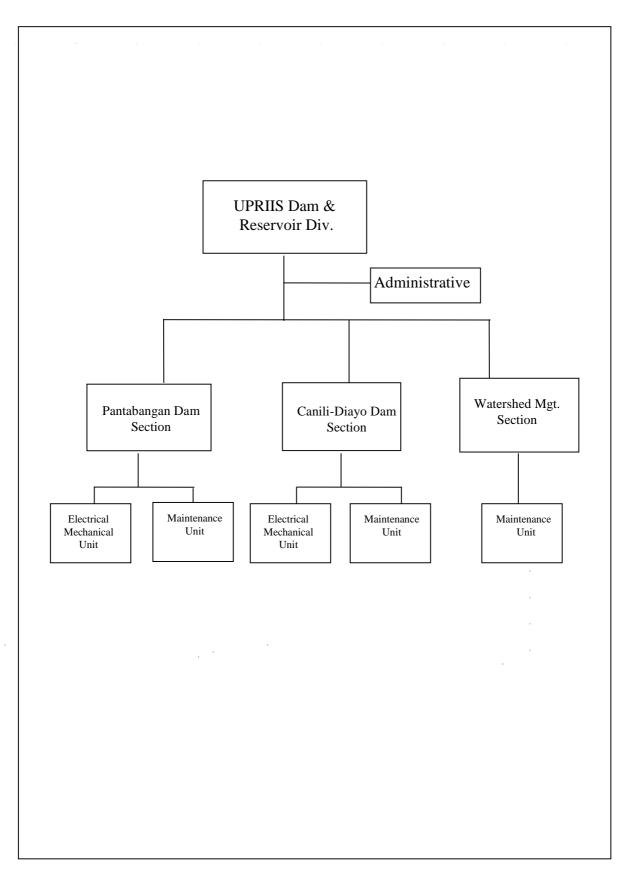


Figure VI.3.3 Proposed Organizational Structure Of UPRIIS Dam and Reservoir Division

APPENDIX VII

REFERENCE DATA

CHAPTER VII REFERENCE DATA

A number of basic data were collected during the course of the Study and the key analyzed data only have been attached to the Main Report in the form of tables and figures.

The other informative data and documents are compiled in this Chapter VII: Reference Data, as follows:

VII.1	NIA Corporate Plan
VII.2	Financial Projection Data
VII.3	Personnel Data (Functions of NIA's Offices)
VII.4	Legislations Related to NIA Management
VII.5	Status of Implementation of the AFMA of 1997

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REFERENCE DATA VII.1

NIA Corporate Plan

NAME OF	DESCRIPTION	PROVINCE/ Cagayan Alcala,	FUNDING	SCH	EDULE	ESTIMATED PROJECT COST (P'000) AND	CUMULATIVE ACCOMPLISHMENT	1			FUNDING R	EQUIREMENT ((P'000)/ PHYSICA	L TARGETS (H	A)			idp0110 TOTAL	TOTAL 2
PROJECTS		Amulung COVERED	SOURCE	Start	End	PHYSICAL TARGETS(HA)		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2001 - 2010	- 2010
ON-GOING I	PROJECTS																		
Malitubog- Aaridagao rrigation Project	Construction of Diversion Works bridge, siphon irrigation canals and laterals, drainage canals & laterals, on-farm development,	North Cotabato, Carmen Pagalungan Maguindanao	OECF	1989	2003	L(P) 1,348		111,561 58,610 1,261	433,960 433,960 -	95,697 95,697 -	-	- -	-	-	-	- -	-	641,218 588,267 1,261	
	project facilities, pilot farms and access roads in Maridagao area (6,625 ha) & Upper Malitubog area (4,215 ha) construction of flood	Pikit				New 10 Rehab - Dam Constn Bridge Construction	840 764 1 37.10% 1	2,672 - 30% 50%	4,000 - -	3,404 - -	-	- - -	- - -	-	- - -	- - -	-	10,076 0 0 1	
	protection dikes & development of strong and effective farmers organization					Siphon Canals (km) Roads (km) Drainage	1 143 47 182 85 76 41	50% 13 40 25	- 28 25	- - -		- - -	- - -	-	-	- - -	-	1 13 68 50	
						Pumps On-farm Facilities Pilot farm		-	-	-	-	-	-	-	-	-	-	00000	
Kabulnan rigation : Area vevelopment	Construction of irrigation & drainage facilities and rural roads to serve 12,030 ha; Program for institutional	Maguindanao Ampatuan, Maganoy, Sultan sa	ADB	1992	2001		683 696	25,000 25,000	-	-	-	-	-	-	-	-	-	25,000 25,000 0	
roject	development, watershed/soil conservation, social infrastructure, and women in development.	Barongis Datu Piang				Rehab - Canals (km) (Lining)	030 6,165 183 127	5,865 - 56	-	-	-	-	-	-	-	-	-	5,865 0 56	
						Roads (km)	234 213 244 128	- 21	-	-	-	-	-	-	-	-	-	21	
ampanga- elta evelopment oject -IC	Construction of Diversion Dams, including supply and erection of gates, irrigation and drainage canals and appurtenant structures and provision of	Pampanga Apalit, Arayat, Candaba, Sta Ana,	OECF	1992	2003	L(P) 870 F(\$) 60		157,925 157,925 0 4,000	561,320 0 13,365 1,000	319,797 0 7,614 863	-	-	-	-	-	-	-	1,039,042 157,925 20,979 5,863	
	farm and project facilities.	Sta Ana, Mexico, San Luis, San Simon				Rehab 3 Dam Constn Pumps	209 1,346 331 3,331 1 80.40% 6 5 120 38	4,000 0 - - 30			-	-	-	-	-	-	-	5,865	
						Drainage	36 49 162 14	5 60	18 1 30	-	-	-	-	-	-	-	-	6	
Lower gusan evelopment roject -IC	Construction of two pumping plants along Agusan River to supply year-round irrigation to 7,922 ha in Butuan City	Agusan del Norte Butuan City, Buenavista	OECF	1996	2003		759 185	75,488 75,488 0	483,520 244,470 5,692	125,319 125,319 -	-	-	-	-	-	-	-	684,327 445,277 5,692	
	and Buenavista.						082 0 840 0 2 1 2 1	3,000 0 1 1	2,000 840 -	2,082	-	- - -	- - -	-	-	-	-	7,082 840 1	
							111 4 116 0 10 10	66 39 6	25 15 2	-	-	-	-	-	-	-	-	91 54 8	

NAME OF PROJECTS	DESCRIPTION	PROVINCE/ Cagayan Alcala, Amulung	FUNDING	SCH	EDULE	ESTIMATED PROJECT COST (P'000) AND	CUMULATIVE ACCOMPLISHMENT										idp0110d TOTAL 2001 - 2010	TOTAL 20 - 2010	
PROJECTS		COVERED	SOURCE	Start	End	PHYSICAL TARGETS(HA)		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2001 - 2010	- 2010
Irrigation Systems mprovement	Improvement of 16,105 ha and extension area of 1,609 ha. Improvement of rural roads,	Northern Leyte Ormoc City, Palo,	ADB	1997	2003	T(P) 1,883 L(P) 703	350 603,125	155,473 55,204 2,387	728,900 259,540 11,175	395,849 144,039 5,995	-	-	-	-	-	-	-	1,280,222 458,783 19,558	
roject II	monitoring and control and provision of extension services and schistosomiasis control.	Alang-alang, Sta Fe, San Miguel,					609 70 105 3,294	280 4,230	700 5,000	559 3,581	-	-	-	-	-	-	-	1,539	
	and semislosonnasis control.	Dulag, Pastrana,				Canals (km) Srv Roads	384 131 357 38	110 141	83 53	-	-	-	-	-	-	-	-	193 194	5
		Dagami, Barawen, Julieta,				Brg/Access Roads (km)	100 47 183 60	32 65	17 9	-	-	-	-	-		-	-	49	
		Tabon-tabon, Abuyog				Post Harvest Facilties (No.)	47 7	11	19			-	-					30)
'asecnan ultipur- se Irrig.	Construction of irrigation facilities & improvement of drainage systems in 35,000 ha	Nueva Ecija: Nampicuan, Guimba,	OECF	1997		L(P) 1,407		155,048 155,048 0	557,160 126,190 10,261	718,084 116,054 14,334	787,509 83,003 16,774	-	-	-	-	-	-	2,217,801 480,295 41,369	i
Power pject -IC	of farmlands. Establishment of re-use points & intermediate	Talugtog, Cuyapo,				New 38	000 2,037	8,166	2,850	14,554	9,797	-	-		-			35,963	1
	farm ponds both in new & rehab areas. Rehabilitation of irrigation and drainage	Munoz Entire UPRIIS area				Div. Work	000 3 524 58	0 1 150	5,000 1 150	8,000 - 100	7,000 - 59	-	-	-	-	-	-	20,000 2 459	
	facilities in UPRIIS. Insti- tutional development in new areas, pilot areas for diversified irrigation	Portions of: Bulacan Pampanga Nueva Vizcaya Quirino				Drng Canals	372 10 555 30	70 150	70 150	70 100	142 90	-		-	-	-	-	352 490	2
'. Tarlac Groundwater Irrigation System	Rehabilitation of the existing tubewells and installation of pumps & uppurtenant equip- ment construction of additional	Tarlac Capaz, Concepcion, Gerona,	OECF	1999		T(P) 632 L(P) 248 F(\$) 8		102,450 40,000 1,487	259,850 123,700 3,242	- -	-	- -	-	-	-	-	-	362,300 163,700 4,729)
tem ctivation ject	ment construction of additional tubewells.	La Paz, Mayantoc,				Rehab	200 436 300 248	956 44	808 8	-	-	-	-	-	-	-	-	1,764 52	
		Moncada, Paniqui, Pura,Ramos, Tarlac & Victoria				Canals (km) Pumps Irrigation Struc	33 8 50 10 442 110	- 15	- 17	-	-	-	-	-	-	-	-	0 32 0	
						On-farm Facilities Institutional Streng- thening (# of IAs)		- 23			-	-	-	-	-	-	-	23	
ater	Improvement of selected existing irrigation system,	Nationwide	IBRD	1997	2002	T(P) 2,418 L(P) 748		245,993 50,993	534,370 35,930	-	-	-	-	-	-	-	-	780,363 86,923	
velopment ject	expand irrigated area, facilitate policy,institutional					F(\$) 50	730	4,643	11,868	-	-	-	-	-	-	-	-	16,510	
	reform and environmental improvement. Implemented with DENR, NWRB and DOF					Rehab 62 Canals (km) 1	125 408 646 30,658 382 500 513 154	639 6,688 359 108	2,078 25,300 629 199	-	-	-	-	-	-	-	-	2,717 31,988 988 307	5
	Cost of all components is P 2.418 B. For NIA and DOH components, total cost is					Silt Excluders Repair of	8 0	5	-	-	-	-	-	-	-	-	-	5	
	P 1.85 B.					Structures Erosion 1	9 0 142 0	400	- 383	-	-	-	-	-	-	-	-	783	;
						Control Schistosomiasis Control	3 0	1	-	-	-	-	-	-	-	-	-	1	
						Sediment Monitoring Environment	3 0 1 0	-	-	-	-	-	-	-	-	-	-	3	
						Monitoring Institutional Streng- thening			-										

NAME OF	DESCRIPTION	PROVINCE/ Cagayan Alcala,	FUNDING	SCH	EDULE	ESTIMATED PROJECT COST (P'000) AND	CUMULATIVE ACCOMPLISHMEN				FUNDING REQ	UIREMENT (P'00	00)/ PHYSICAL	TARGETS (HA)				TOTAL	TOTAL 200
PROJECTS		Amulung COVERED	SOURCE	Stant	End	PHYSICAL TARGETS(HA		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2001 - 2010	- 2010
Southern Philippines Irrigation	Construction and improvement of small-to-medium scale irriga- tion systems, strengthen O&M	Core Projects: Agusan del Sur Buenavista	ADB	2000		T(P) 4,065 L(P) 1,730	,364 165,732	160,732 75,732 2,024	541,680 189,290 8,390	996,342 395,485 14,306	1,247,033 529,699 17,079	661,937 283,118 9,020	2008 291,908 191,908 2,381					3,899,632 1,665,232 53,200	291,90 191,90 2,38
Sector Project	through beneficiary participa- tion & institutional capacity	Agusan Norte; Prosperidad					,195	0	260	995	4,010	2,900	4,030	-	-		-	12,195	4,0
	of executing agencies. Construction of four core proj. Calayagon CIP (250 ha) Gi- bong RIP (656 ha)/Malaig RIP (2,750 ha). & Can-Asujan SRIP (950 ha). Subprojects consist of 6 NIPs, 2 CIPs & 3 SRIPs. Other components include environmental & social mea- sures & institutional develop- ment.	Lanao del Sur Butiq Cebu Carcar Subprojects: To be selec- ted in Agusan del Norte & Sur, ARMM, Regions 6 & 7				Rehab 2		270	0	467	1,065	1,168	0	-	-	-		2,970	
0. Bohol Irrigation Project II	Construction of fill-type dam at Bayongan to irrigate 4,140 ha and link canal to supplement the water supply of Capayas	Bohol Ubay, San Miguel, Trinidad	OECF	2000	2005	L(P) 748		80,000 50,000 714	407,230 154,840 6,009	613,000 213,000 9,524	500,000 100,000 9,524	713,770 190,160 12,467	-	-	-	-	-	2,314,000 708,000 38,238	
	Reservoir to irrigate 1,160 ha; Canal network and on-farm development works will be undertaken.					Rehab Dam Constn Canals (km)	,550 0 750 0 1 0 80 0	0 550 60%	900 - 40% 20	1,200 - - 20	1,000 200 - 30	- 1,450	-	-	-	-	-	4,550 750 1 80	
						Drainage Canals Land leveling V 2 Works	65 0 ,800 0	5 200	10 500	15 500	15 1,000	20 600	-			-	-	65 2,800	
1.San Roque Multipurpose rrigation Project	Modification of existing Agno RIS diversion dam, enlarge- ment of existing main canals & laterals, construction of new	Pangasinan Basista, Binmaley, Urbiztondo,	JBIC	1999	2008	L(P) 8,634 F(\$)	,040 0	-	63,100 63,100 0	700,000 700,000 0	700,000 700,000 0	1,860,900 1,860,900 0	1,900,000 1,900,000 0	1,800,000 1,800,000 0	1,610,040 1,610,040 0	-	-	8,634,040 8,634,040 0	5,310,0 5,310,0
	irrigation distribution and drainage facilities for about 23,700 ha of new area & rehab & improvement of existing	Bayambang, Calasiao, Mapandan, Malasiqui,				Rehab 47 Costs include P250 M	,700 ,100	-	0 0	0 4,000	0 4,000	4,000 9,500	5,000 10,000	5,000 10,000	9,700 11,000	-	-	23,700 48,500	19,70 31,00
	Agno RIS, LARIS and AMDRAS	San Carlos C. Sta. Barbara, Dagupan City, Laoac, Alcala, Manaoag, Mangaldan, Bautista, Binalonan, Sto. Tomas, Urdaneta City, Villasis, Asingan, Balungao, Natividad, Rosales, San Nicolas, San Quintin, Sta. Maria, Tayug Tarlac: Moncada, San Manuel				released in 1999 was for detailed design.													

NAME OF	DESCRIPTION	PROVINCE/ Cagayan Alcala,	FUNDING	SCH	EDULE	ESTIMATED PROJECT COST (P'000) AND		ULATIVE PLISHMENT			F	FUNDING REQ	JIREMENT (P'00	00)/ PHYSICAL '	TARGETS (HA)				idp0110d TOTAL	TOTAL 20
PROJECTS		Amulung COVERED	SOURCE	Start	End	PHYSICAL TARGETS(H	(A)	-	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2001 - 2010	- 2010
2. Balog- Balog Multipurpose Project	Construction of a 113-m high earth and rockfill dam across Bulsa River to generate elec- tricity & provide year-round	Tarlac Concepcion, Ger Ramos, Tarlac,	GAA ona,	1999	2008		28,368 28,368	650,000	100,000 100,000	175,611 175,611 -	600,000 600,000 -	600,000 600,000 -	2,500,000 2,500,000	2,500,000 2,500,000 -	2,350,000 2,350,000	2,024,389 2,024,389 -	-	-	10,850,000 10,850,000 0	
	irrigation water to a service area of about 39,150 ha. New irrigation facilities and appurtenant structures will be provided and existing areas	La Paz, Paniqui, Victoria, Pura					24,849 14,301 1 1	0 3,839 0 0	- 800 50%	- 0 -	1,000 1,000 -	1,000 1,000 -	4,500 1,000 -	5,000 1,000 -	6,349 2,662 -	7,000 3,000 -	- - -	- - -	24,849 10,462 1	
	rehabilitated to include the drainage network.					Intake & Canal Siphon	2	0 0	-	- 1	- 1	-		-	-	-	-	-	2	1 2
3. Apayao- Abulog Irrigation Systems	Construction of 1.8-m high ogee type dam across Abulog River, irrigation & drainage facilities, rehab of existing	Cagayan: Pamplona, Abulog, Ballesteros,	GAA	1996	2003	L(P) 8 F(\$) -	50,000 50,000	546,778	200,000 200,000	75,000 75,000	28,222 28,222	-	-	-	-	-	-	- -	303,222 303,222 0	
Improvement Project	canals and structures	Aparri, Allacapan Apayao: Pudtol,				Dam Constructi Canals (km)	6,465 10,535 1 269	0 500 100.00% 8	1,000 9,000 - 190	3,400 1,035 -	1,565 - -	-	-	-	-	-		-	5,965 10,035 0 190	5))
		Flora, Luna, Sta. Marcela				Drainage Roads (km) Project Facilities Terminal Facilities Institutional Dev't	201 250	0 39	150 141	-	-	-	-	-	-	-	-	-	150 141	
4. Addalam River Irrigation Project	Construction of an overflow type, ogee-shaped rubble masonry diversion dam across Addalam River; Construction	Quirino Aglipay & Saguday Isabela	GAA	1997	2003	L(P) 9 F(\$) -	93,994 93,994	239,986	175,000 175,000	74,500 74,500	504,508 504,508 -	-	-	-	-	-	-	- -	754,008 754,008 0	3
	of canal distribution system, drainage network, access and service roads.	Echague & Jones				New Rehab - Diversion Dam Canals (km) Roads (km) Institutional Dev't	5,830 1 520 119	0 0 22 20	0 - 25% 20 18	0 - 25% 27 21	5,830 - 25% 26 22 -	-		-	-	-			5,830 0 1 73 61) 1 3
5. Itbayat Integrated Agric'l Dev't	Construction of facilities to divert water from Cabaywan River to irrigate 200 hectares of farmlands in Itbayat.	Batanes Itbayat	GAA	1996	2002	L(P) 1 F(\$) -			17,000 17,000 -	9,907 9,907 -	15,000 15,000 -	-	-	-	-	-	-	- -	41,907 41,907 0	7
Project						New Rehab -	200		- 50	- 150	-	-	-	-	-	-	-	-	200)
6. Catubig Irrigation Project	Repair & improvement of Irawahan & Hibubullao CISs & construction of Palapag CIP.	Northern Samar Catubig, Las Navas, Palapag,	GAA	1996	2003	L(P) 2 F(\$) -	43,500 43,500	109,404	45,000 45,000	-	89,096 89,096 -	-	-	-	-	-	- -	- -	134,096 134,096 0	
		Laoang				New Rehab Roads (km) IA Strengthening	950 1,010 21	250 400 11	0 200 5	-	700 410 5	-	-	-	-	-	-	-	700 610 10	0
7. Dolores Irrigation Project	Rehabilitation & restoration of Jicontol CIS, construction of Sulong SRIP.	Eastern Samar Dolores, Jicontol, Hinolaso,	GAA	1996	2004	L(P) 5 F(\$) -	60,000 60,000	178,051	80,000 80,000 -	-	100,000 100,000 -	201,949 201,949	-	-	-	-	-	- -	381,949 381,949 0	
	H C C	Gap-ang, Can-avid Sulong				New Rehab Canals (km) Drainage Roads (km) Pumps (#) IA Strengthening	1,629 500 15 45 62 7	445 500 14 10 30 7	350 0 5 5 4	- - - -	250 - 5 - -	- 5 10 4	-	-	-	-	-	- - - -	1,184 0 15 20 8 0	5

NAME OF	DESCRIPTION	PROVINCE/ Cagayan Alcala,	FUNDING	3 SCH	EDULE	ESTIMATED PROJECT COST (P'000) AND	CUMULATIVE ACCOMPLISHMENT			F	UNDING REQU	JIREMENT (P'00	00)/ PHYSICAL 7	FARGETS (HA)				idp0110d TOTAL	TOTAL 2000
PROJECTS		Amulung COVERED	SOURCE	Start	End	PHYSICAL TARGETS(HA		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2001 - 2010	- 2010
18. Basey Irrigation Project	Construction of irrigation facilities to divert water from Bugasan River to irrigate 3,000 ha in Basey.	Western Samar Basey	GAA	1996	2006	T(P) 70	0,500 82,186 0,500	-	-	120,000	130,000 130,000	250,000 250,000 -	118,314 118,314 -	-	-	-	-	618,314 618,314 0	118,314 118,314 (
	(Phase I and II)					New Rehab - Canals (km) Drainage Roads (km)	8,000 15 0 66 0 110 9 39 9	-		500 - 15 8 6	650 - 15 8 6	1,150 - 24 16 11	- 685 - 12 3 5				- - -	2,985 0 66 35 28	685 () 12
						Divrsn Works IA Strengthenir Proj Fclts	1 0 00% 8%	-	-	- 20%	- 24%	- 35%	- 10%	-	-	-	-	0	(
19 Bubunawan Irrigation Project	Construction of two diversion dams & appurtenant structures. One diversion dam would be	Bukidnon Libuna, Baungon	GAA	1996	2003		0,000 244,248 0,000 0	100,000 100,000 -	63,100 63,100	92,652 92,652	-	-	-	-	-	-	- -	255,752 255,752 0	
	constructed across Bubunawan River to serve 2,000 ha located at the the left bank. The other diversion dam would be constructed across Tumalaong River to serve 1,000 ha. Canal distribution system consists of					New Rehab -	8,000 0	2,000	- 350	- 650	-	-	-	-		-	-	3,000	
20. Aulo Irrigation Project	an 18 km main canal & 11 km lateral & sub-lateral canals. Construction of small water impounding dams & its appur- tenant structures to store water for irrigation &	Palayan City	GAA	1996	2003		4,200 60,239 4,200	30,000 30,000 -	35,200 35,200 -	168,761 168,761 -	- -	- -	- -	- -	- - -	- -	- -	233,961 233,961 0	
	provision of irrigation & drainage & on farm facilities.					Dam Construction New Rehab -	810	- 0	- 0	- 810	-	-	-	-	-	-	-	0 810 0	
21. Grain Sector Development Program -IC	Rehabilitation & expansion of National Irrigation Systems & Communal Irrigation Systems covering about 18,500 has.	Nationwide	ADB	2001	2006		2,200 7,234 5,833	-	317,870 139,290 4,252	565,000 185,150 9,044	565,000 185,150 9,044	537,200 178,148 8,549	247,130 39,496 4,944	-	-	-	-	2,232,200 727,234 35,833	247,130 39,490 4,944
	located in 8 identified grain trading sub-system areas.						1,544 5,456	-	-	1,160 4,184	0 5,284	362 4,398	22 2,590	-	-	-	-	1,544 16,456	2: 2,59
22. Small Reservoir Irrigation Project	Construction of small water impounding dams and its uppurtenant structures to store water for irrigation &	Nationwide	GAA	1989	2009	F(\$) -	5,100 1,232,599	78,000 78,000 -	89,300 89,300 -	300,000 300,000	300,000 300,000 -	1,000,000 1,000,000 -	1,371,912 1,371,912 -	1,402,589 1,402,589 -	1,300,000 1,300,000 -	910,700 910,700 -	-	6,752,501 6,752,501 0	4,985,201 4,985,201
(SRIP)	provision of irrigation & drainage and on farm facilities.						3,298 5,873 5,102 7,783	1,095 0	0 0	2,000 0	2,000 0	10,000 2,000	12,000 4,000	12,000 5,319	13,330 6,000	10,000	-	62,425 17,319	

NAME OF PROJECTS	DESCRIPTION	PROVINCE/ Cagayan Alcala,	FUNDING	SCH	EDULE		ED PROJECT 2000) AND	CUMULATIVE ACCOMPLISHMENT			1	FUNDING REQ	UIREMENT (P'00	00)/ PHYSICAL '	FARGETS (HA)				TOTAL 2001 - 2010	TOTAL 200 - 2010
PROJECTS		Amulung COVERED	SOURCE	Start	End	PHYSICAL	TARGETS(HA)		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2001 - 2010	- 2010
23. Repair, rehab of existing	Rehabilitation/repair and improvement of groundwater pump irrigation projects to	Nationwide	GAA	1996	2009		4,103,044 4,103,044 -		50,000 50,000	63,100 63,100 -	200,000 200,000	200,000 200,000	657,347 657,347 -	655,422 655,422	665,766 665,766 -	576,840 576,840 -	440,455 440,455	-	3,508,930 3,508,930 0	
groundwater irrigation Systems, Establish- ment of Groundwater Pump Proj. (Pump Irrig. Development Program)	sustain the operation of the existing wells. Construction & installation of new deep wells and shallow tubewells nationwide. (Includes P10M allocation for pump irrigation projects for CY 2000)					New Rehab	49,680 8,000		1,373 196	400 220	3,479 1,491	3,479 1,491	6,970 1,333	6,150 537	5,971 671	5,441 600	3,096 0	-	36,359 6,539	20,658
24. Repair, Rehab, Restoration & Preventive	A. Rehabilitation of irrigation facilities and structures of NISs & CISs (non-functional areas) (Balikatan Sagip	Nationwide	GAA			T(P) L(P) F(\$)	2,000,000 2,000,000		-	1,500,000 1,500,000 -	500,000 500,000 -	-	-	-	-	-	-	-	2,000,000 2,000,000 0	
Maintenance of existing	Patubig Program)					New Rehab	63,060	0 0	-	- 47,295	- 15,765		-	-	-	-	-	-	0 63,060	0 0
National & Communal Irrigation Facilities	B. Preventive maintenance of existing irrigation facilities & structures in NIS.Activities include minor repairs of	Nationwide	GAA			T(P) L(P) F(\$)	1,363,100 1,363,100 -		100,000 100,000 -	63,100 63,100	150,000 150,000	150,000 150,000	150,000 150,000	150,000 150,000	150,000 150,000	150,000 150,000	150,000 150,000 -	150,000 150,000 -	1,363,100 1,363,100 0	
	measuring & control structures					Canal Lining Raising of E Grouted Rip Construction Clearing and Construction Repair of Di Repair of Irr Repair/Inst. Installation of	lities Lude: Irrig. Canals (km/cu. g or Reshaping (km) mbankment (km/cu.n raping (km/cu.m of New Canals (km Weeding (km/cu.m. & Modification of 7 version Structures (N igation Structures (N	m.))) l'urm-outs (No.) ko.) Boards,Staff Guages (No.	35,760	20,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	535,760	300,000
25. Repair & Rehab of Existing Service &	Rehabilitation and repair of existing service and farm to market roads to facilitate the movement of farm produce &	Nationwide	GAA			T(P) L(P) F(\$)	1,337,27 1,337,27 -		95,000 95,000 -	42,275 42,275	150,000 150,000	150,000 150,000 -	1,337,275 1,337,275 0							
Access Roads	inputs, as well as farm equipment.					Road Repair (km of road	16,469 s)	9	1,189	280	1,875	1,875	1,875	1,875	1,875	1,875	1,875	1,875	16,469	9,375

																			idp0110d	idp0110d
NAME OF PROJECTS	DESCRIPTION	PROVINCE/ Cagayan Alcala, Amulung	FUNDING	SCHE	EDULE		ED PROJECT '000) AND	CUMULATIVE ACCOMPLISHMENT			I	FUNDING REQ	UIREMENT (P'00	00)/ PHYSICAL '	TARGETS (HA)				TOTAL 2001 - 2010	TOTAL 2006 - 2010
		COVERED	SOURCE	Start	End	PHYSICAL	TARGETS(HA)		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010		
26. Rehab, Repair and Improvement of Drainage	Construction of drainage & flood protection measures to increase cropping intensities in NIS & CIS.	Nationwide	GAA			T(P) L(P) F(\$)	1,331,000 1,331,000 0		90,000 90,000 -	41,000 41,000	150,000 150,000 -	150,000 150,000 -	150,000 150,000 -	150,000 150,000 -	150,000 150,000 -	150,000 150,000 -	150,000 150,000 -	150,000 150,000 -	1,331,000 1,331,000 0	
& Flood Protection System in CIS & NIS						Repair of Drainage	14,560 (km canals)		180	40	300	300	300	300	300	300	300	300	2,620	1,500
27. Feasibi- lity Study, Detailed Eng'g of Proposed Projects	Preparation of potential projects for implementation.	Nationwide	GAA			T(P) L(P) F(\$)	948,300 948,300 -		100,000 100,000 -	48,300 48,300 -	100,000 100,000 -	100,000 100,000 -	100,000 100,000 -	100,000 100,000 -	100,000 100,000 -	100,000 100,000 -	100,000 100,000 -	100,000 100,000 -	948,300 948,300 0	
28. Agri-Ins- titutional Dev't Program, Nationwide	Organization and training of Irrigators' Associations to develop and strengthen their capabilities for O&M of NISs and CISs.	Nationwide	GAA			T(P) L(P) F(\$)	553,800 553,800 -		30,000 30,000 -	43,800 43,800 -	60,000 60,000 -	60,000 60,000 -	60,000 60,000 -	60,000 60,000 -	60,000 60,000 -	60,000 60,000 -	60,000 60,000 -	60,000 60,000 -	553,800 553,800 0	300,000 300,000 0
Sub-Total A						T(P) L(P) F(\$)	71,840,331 54,651,744 416,534		2,559,670 2,034,000 12,516	7,213,153 4,094,503 74,254	7,857,327 5,302,983 60,818	5,841,491 3,639,801 52,421	8,791,154 7,529,673 30,035	7,694,686 7,387,052 7,325	6,828,355 6,828,355 0	6,121,269 6,121,269 0	1,961,155 1,961,155 0	610,000 610,000 0	55,478,260 45,508,791 237,368	22,907,831
(On-going Projects)						New Rehab Preventive N	288,795 293,006 faintenance		31,446 21,978	18,896 84,698	42,197 38,898	22,520 20,040	31,332 19,399	32,887 18,127	29,320 18,652	35,471 20,600	13,096 0	0	257,165 242,392	
						in NISs Sust. O&M Urgent Rep.	0 0 0		35,760 0 0	20,000 0 0	60,000 0 0	60,000 0 0	60,000 0 0	60,000 0 0	60,000 0 0	60,000 0 0	60,000 0 0	60,000 0 0	535,760 0	300,000 0 0 0 0
						Canals (km) Drainage Roads (km)	3,830 16,428 1,619	;	999 641 474	952 377 141	166 398 33	109 475 10	34 336 11	12 303 5	0 300 0	0 300 0	0 300 0	0 300 0	2,272 3,729 674	

NAME OF	DESCRIPTION	PROVINCE/ Cagayan Alcala,	FUNDING	SCH	EDULE	ESTIMATED COST (P'00		CUMULATIVE ACCOMPLISHMENT				FUNDING REQ	UIREMENT (P'0	00)/ PHYSICAL 7	FARGETS (HA)				idp0110d TOTAL	TOTAL 20
PROJECTS		Amulung COVERED	SOURCE	Start	End	PHYSICAL TA	ARGETS(HA)		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2001 - 2010	- 2010
8. PIPELINE PR . Bago RIS Rehab &	The project aims to improve the operating capability of the	Negros Occidental	JBIC	2002	2005	L(P)	958,697 681,386	5	-	132,030 95,720	300,000 200,000	300,000 162,689	226,667 222,977	-	-	-	-	:	958,697 681,386	
Improvement Project	Bago RIS thru 5 major compo- nents: system rehabilitation/ improvement, improved water management, institutional dev't. IA dev't.& watershed managemen & protection.	Bago City, Murcia, Pulupandan, La Carlota, t Valladolid, San Enrique, Bacolod City Pontevedra				F(\$) New Rehab Improvement	6,603 1,325 11,952 -	5	-	865 0 0	2,381 0 3,525	3,269 325 3,500	88 1,000 4,927	-	-	-	-	-	6,603 1,325 11,952	5
2. Help for Catubig Agric1 Advancement Project Stage I	Construction of 4 irrigation systems with an area of 4,550 ha, flood protection & drainage facilities, improvement of rural infrastructure, schisto- somiasis control and other agricultural support services.	Northern Samar Catubig, Laoang, Los Navas	JBIC	2002	2008	T(P) L(P) F(\$) New Rehab				145,000 40,950 2,477 0	236,994 65,422 4,085 800	546,002 137,380 9,729 1,000	650,000 150,000 11,905 -	550,000 150,000 9,524 1,000	352,993 76,547 6,582 750	-	- - -	-	2,480,989 620,299 44,302 4,550 0	226,5 16,1
3. Banaoang Irrigation Project	Construction of pumping station 150 m upstream of Banaoang Bridge with 7 units of pumps each with capacity of 1.75 cms; construction of 20.6 km main canal and network of lateral and sublateral canals	Ilocos Sur Vigan, Magsingal, San Vicente, Bantay, San Ildefonso, Sto. Domingo	GAA	2002	2006	T(P) L(P) F(\$) New Rehab	822,200) FS completed DE on-going Submitted to ICC)	- - -	- - -	211,504 113,215 2,340 0	300,000 100,000 4,762 0	630,000 360,000 6,429 2,000	335,926 248,985 2,070 4,000	-	- - -	-		1,477,430 822,200 15,601 6,000 0	248,9
l. Angat Afterbay Regulatory Dam		Bulacan		2002	2003	T(P) L(P) F(\$)	590,280 90,000 11,911)	-	10,000 10,000 -	30,000 30,000	- -	- -	- -	- -	- -	-	-	40,000 40,000 0	
 Balingasag Irrigation Project 	Construction of concrete diversion weir 1.5 m high with a span of 551 m. across the Balatucan River.	Misamis Or. Balingasag	GAA	2002		T(P) L(P) F(\$)	- 150,000	DE completed	-	-	150,000 150,000 -	-	-	-	-	-	-	-	150,000 150,000 0	
						New Rehab	2,000)	-	-	- 2,000	-		-		-	-	-	2,000	-
5. Agricul- tural Productivity Improvement	Provision of stable irrigation water (through surface and groundwater) for CIPs covering 1,500 ha, recharging wells to	Occ. Mindoro Lubang Looc	JICA grant	2003	2004	T(P) L(P) F(\$)	252,630 25,263 5,414		- -	- -	101,052 10,105 2,165	151,578 15,158 3,248	- -	- -	- -	-	- -	-	252,630 25,263 5,414	
and Environmental Conservation In Lubang Island	maintain groundwater resources post-harvest facilities, and social infrastructure					New Rehab	- 1,500		-	-	-	- 1,500	-	-	-	-	-	-	1,500	
. Rizal (Aliog) Irrigation Project	Involves use of transbasin conveyance system; contruction of a 3-m deflatable rubber dam diversion tunnel, networks of water conveyance, drainage	Kalinga Rizal	GAA	2003	2006	T(P) L(P) F(\$) New	193,300) FS completed DE ongoing 5 Submitted to ICC	-	- - -	50,000 50,000 0	100,000 50,000 1,190 465	190,700 68,300 2,914 500	125,000 25,000 2,381 500	-	-	-	-	465,700 193,300 6,486 1,465	25,0 2,3
	channels and service roads along the main canals and laterals.					Rehab	-		-		-	-	-	-	-	-	-	-	0	

NAME OF	DESCRIPTION	PROVINCE/ Cagayan Alcala,	FUNDING	SCHE	EDULE		TED PROJECT P'000) AND	CUMULATIVE ACCOMPLISHMENT			I	UNDING REQU	JIREMENT (P'00	00)/ PHYSICAL 7	FARGETS (HA)				idp0110d TOTAL	idp01100 TOTAL 200
PROJECTS		Amulung COVERED	SOURCE	Start	End	PHYSICA	L TARGETS(HA)		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2001 - 2010	- 2010
Rehabili- tation of CIADP	Project revolves the improve- ment of intake facilities and rehabilitation of pumps for IAAPIS and Magapit PIS, to	Cagayan Iguig,Lallo, Amulong, Alcala,	Grant JICA		2005			Submitted to ICC	-	-	40,000 40,000 -	40,000 40,000 -	296,000 296,000 -	-	-	-	-	-	376,000 376,000 0	(
	make these systems fully operational. Equipment will also be provided.	Aparri, Camalaniugan, Buguey				New Rehab	- 14,551		-	-	- 0	- 0	- 14,551	-	-	-	-	-	0 14,551	
Procure- ment of Pumps, Drilling Rigs & Related Equipment			Spanish Grant	2003	2005	T(P) L(P) F(\$)	892,920 180,000 16,974		-	-	30,000 30,000 -	60,000 60,000 -	90,000 90,000 -	-	-	-			180,000 180,000 0	
0.Malitubog- Libungan Transbasin Irrigation	Construction of a diversion dam across Malitubog River & a transbasin tunnel to carry water to Libungan River to	Maguindanao Pigkawayan North Cotabato	IBRD	2003	2008	T(P) L(P) F(\$)	1,351,200 682,600 15,919	FS completed Submitted to ICC	- -	- -	50,000 50,000 0	200,000 100,000 2,381	300,000 150,000 3,571	300,000 150,000 3,571	282,600 132,600 3,571	218,600 100,000 2,824	- -	- -	1,351,200 682,600 15,919	801,20 382,60 9,96
Project	augment water supply for 9,310 ha of existing area in Libungan RIS & generate 4,870 ha new area.	Libungan Midsayap				New Rehab	4,870 9,310		-	-	-	0 1,000	0 2,000	500 2,000	1,500 2,000	2,870 2,310	-	-	4,870 9,310	4,870 6,310
1.Participa- tory Irrigation Development	Project envisions the optimiza- tion of irrigation potentials of both NIS & CIS nationwide. It covers a total service area	Nationwide	IBRD	2003	2011	T(P) L(P) F(\$)	9,826,900 1,965,400 187,179		- -	- -	50,000 50,000	300,000 100,000 4,762	1,215,640 283,130 22,203	885,700 177,140 16,870	867,610 173,520 16,526	1,744,300 268,860 35,130	1,143,740 228,750 21,785	689,650 137,930 13,136	6,896,640 1,419,330 130,412	5,331,000 986,200 103,444
Project Phase I	of 323,917 ha and involves restoration/rehabilitation/cons- truction of irrig. facilities, augmentation of water supply, institutional strengthening, dev't of appropriate technolo- gies, watenhed protection & erosion control & the augmen- tation/improvement of NIA's technical capability for FS, DE & PBME.					New Rehab Additional : WS DS	8,247 315,670 Irrig. Area 83,293 111,687			-	-	00	500 19,000	1,000 40,000	1,000 40,000	1,000 40,000	1,000 40,000	1,000 40,000	5,500 219,000	5,00 200,00
. Irrigation Aanagement mprovement Project	The project aims to replace & or upgrade the ageing O&M equipment of NIA. Project components are: a)strengthening of equipment management, b)re-fleeting of NIA equipment and c)construction of Equipment Service Centers(3) and Group Pools(10).	Nationwide		2003	2006	T(P) L(P) F(\$)	4,130,000 1,150,000 70,952	Submitted to ICC	-	-	480,000 200,000 6,667	1,250,000 350,000 21,429	1,200,000 300,000 21,429	1,200,000 300,000 21,429	-	-	-	-	4,130,000 1,150,000 70,952	1,200,00 300,00 21,42
3. Bicol River Basin Flood Control and	Rehabilitation of Libmanan- Cabusao RIS; construction & rehab of communal projects, drainage & flood protection	Libmanan, Cabusao, Nabua, Iriga,Baao	ADB	2003	2009	T(P) L(P) F(\$)		FS completed DE completed	-	-	150,000 50,000 2,381	300,000 100,000 4,762	388,000 100,000 6,857	536,000 200,000 8,000	720,000 300,000 10,000	904,000 400,000 12,000	878,000 290,000 14,000	-	3,876,000 1,440,000 58,000	3,038,00 1,190,00 44,00
rrigation Development Project-IC	works.	Bulan,Pili, Buhi, Oas Libon, Bato, Pulangui				New Rehab	10,000 4,304		-	-	0 0	100 500	1,000 1,695	1,000 935	2,000 174	2,000 1,000	3,900 0	-	10,000 4,304	8,900 2,109
4. River Basin and Vatershed Program		Bicol and Mindanao	IBRD	2003	2011	L(P) F(\$)	2,500,000 646,000 44,143		-	-	50,000 50,000 0	150,000 150,000 0	300,000 50,000 5,952	400,000 75,000 7,738	400,000 96,000 7,238	400,000 75,000 7,738	400,000 75,000 7,738	400,000 75,000 7,738	2,500,000 646,000 44,143	2,000,000 396,000 38,190
with DPWH)						New Rehab	-		-	-		-	-				-	-	0	(

NAME OF	DESCRIPTION	PROVINCE/ Cagayan Alcala,	FUNDING	3 SCHI	EDULE	ESTIMATED PROJECOST (P'000) AND		CUMULATIVE ACCOMPLISHMENT				FUNDING REQU	JIREMENT (P'00	0)/ PHYSICAL 7	TARGETS (HA)				idp0110d TOTAL	idp0110d TOTAL 2006
PROJECTS		Amulung COVERED	SOURCE	Start	End	PHYSICAL TARGETS	S(HA)		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2001 - 2010	- 2010
5.Irrigation Sector Development Program,	The SISDP will consist of two pilot projects for irrigation modernization & siltation management (MRIIS & AMRIIS)	MARIIS AMRIS	ADB	2004	2009	T(P)	5,000,000 2,000,000 71,429	TA for project preparation Submitted to ADB	-	-	-	400,000 160,000 5,714	500,000 200,000 7,143	900,000 400,000 11,905	1,200,000 500,000 16,667	1,100,000 400,000 16,667	900,000 340,000 13,333	-	5,000,000 2,000,000 71,429	4,100,000 1,640,000 58,571
Package II	once subproject for generating new areas & restoration of nonfunctional service area (Sibalom San Jose Reservoir Project in Antique, 4,4485 ha) & one storage dam across Bayabas River in Bulacan as an alternative source of water supply to replace water alloca- tion for irrigation from Angat Reservoir.	Sibalom, San Jose, Hamtic				New Rehab Dam Construction O&M Improvement Sedimentation & Siltation control & prevention	10,000 130 2		-	-	-	0 0	0 0	1,000 130	2,000 0	3,000 0	4,000 0	-	10,000 130	10,000 130
6. Saug Reservoir Project	Construction of a 46-m high storage dam, irrigation & drainage facilities to irrigate 6,730 ha; construction of	Davao del Norte New Corella	ADB	2004	2009	T(P) L(P) F(\$)	885,060	FS completed DE on-going Submitted to ICC	-	- -	-	50,000 50,000 0	325,000 125,000 4,762	450,000 200,000 5,952	500,000 250,000 5,952	375,000 175,000 4,762	260,610 85,060 4,180	-	1,960,610 885,060 25,608	1,585,610 710,060 20,846
	powerhouse & installation of hydropower plant with 1,000 KW capacity.					New Rehab	5,000 1,730		-	-	-	0 0	0 500	500 500	1,500 730	1,500 0	1,500 0	-	5,000 1,730	5,000 1,230
7.Kadingilan Irrigation Project	Construction of diversion dam across Maridugo River & canal distribution system to irrigate 6,000 hectares.	Bukidnon Kadingilan, Don Carlos, Pangantucan	IBRD	2004	2007	T(P) L(P) F(\$)	679,600	FS completed DE on-going Submitted to ICC	-	-	- -	50,000 50,000 0	450,000 200,000 5,952	550,000 250,000 7,143	373,100 179,600 4,607	-	- -	- -	1,423,100 679,600 17,702	923,100 429,600 11,750
	inigate 0,000 nectares.	& Kalilangan				New Rehab	6,000		-	-	-	-	1,000	1,500	3,500	-	-	-	6,000 0	5,000 0
8. Tumauini Reservoir Project	Construction of a storage dam, new irrigation & drainage facilities & rehabilitation of the existing NIS. Available	Isabela Cabagan, Ilagan, Tumauini	JBIC	2004	2009	L(P) F(\$)	469,800 44,743	FS completed DE on-going Submitted to ICC	-	-	-	50,000 50,000 0	375,000 75,000 7,143	500,000 100,000 9,524	600,000 100,000 11,905	450,000 100,000 8,333	374,000 44,800 7,838	-	2,349,000 469,800 44,743	1,924,000 344,800 37,600
	head from reservoir will also be used to separate hydro electric power					New Rehab	2,385 3,615		-		-	0 0	0 1,000	500 1,000	500 1,000	500 615	885 0	-	2,385 3,615	2,385 2,615
9. Malitubog- Maridagao Irrigation Project II	Development of the Lower Malitubog and Pagalungan Extension areas. Water will be diverted from the Maridagao	North Cotabato Pikit Maguindanao	JBIC	2004	2010	L(P) F(\$)	688,250 50,360	FS completed DE completed	-	- -	-	50,000 50,000 0	184,000 100,000 2,000	310,000 100,000 5,000	456,000 120,000 8,000	545,000 125,000 10,000	694,000 106,000 14,000	564,370 87,250 11,360	2,803,370 688,250 50,360	2,569,370 538,250 48,360
	Diversion Works.	Pagalungan				New Rehab	8,760		-		-	-	-	-	-	- 500	3,000	2,760	6,260 0	6,260 0
20. Partici- patory Irrigation Development	Project envisions the optimiza- tion of irrigation potentials by improving efficiency and augmentation of water supply	Natiowide	GAA	2004	2012	L(P) F(\$)	8,468,320 1,693,660 161,301	FS ongoing	-	-	-	632,780 126,550 12,053	1,219,950 243,990 23,237	763,260 152,650 14,538	747,620 149,520 14,240	1,589,330 317,870 30,273	985,650 197,130 18,774	594,290 118,860 11,320	6,532,880 1,306,570 124,436	4,680,150 936,030 89,146
Program Phase II	for water supply for existing systems. It will cover 340,213 ha with about 253,135 farm families. These were not included in phase I of the project.					New Rehab Additional Irrg Area WS DS	10,540 329,673 72,870 79,391		-	-	-	255 6,500	600 20,000	1,200 42,000	1,200 42,000	1,500 42,000	1,500 42,000	1,500 42,000	7,755 236,500	6,900 210,000
21. North Lawis Irrigation Project	Construction of diversion dam across North Lawis River to irrigate 1,270 ha; 7.7 km main canal & 20.66 km lateral canal improvement of natural	Zambales Candelaria	GAA	2005	2006	T(P) L(P) F(\$) New	190,500 190,500 - 1,270	FS completed	-	-	-	-	90,500 90,500 -	100,000 100,000 - 1,270	-	-	-	-	190,500 190,500 0 1,270	100,000 100,000 0 1,270
12 Outrat	drainage/waterways.	0	C A A	2005	2008	Rehab T(P)	-	E2 & DE						-	-	-			0	0
22. Quipot Irrigation Project Phase I and II	Construction of a 4.5-m high & 100-m long dam, irrigation & drainage facilities	Quezon Tiaong Sariaya Candelaria Batangas	GAA	2005	2008	T(P) L(P) F(\$) New	750,000 750,000 - 3,410	FS & DE completed	-	-	-	-	100,000 100,000 -	150,000 150,000 - 560	250,000 250,000	250,000 250,000 - 2,850	-	-	750,000 750,000 0 3,410	650,000 650,000 0 3,410
anu 11		Batangas San Juan				New Rehab	3,410 770		-	-	-	-	0	560 620	0	2,850 150	-	-	3,410 770	3,410 770

NAME OF	DESCRIPTION	PROVINCE/ Cagayan Alcala,	FUNDING	SCH	EDULE		TED PROJECT (P'000) AND	CUMULATIVE ACCOMPLISHMENT				FUNDING	REQUIRE	MENT (P'000)/ PHYSICAL T	ARGETS (HA)				idp0110d TOTAL	TOTAL 2000
PROJECTS		Amulung COVERED	SOURCE	Stort	End	DUVSIC	AL TARGETS(HA)		2001	2002	2003	2004	21	005	2006	2007	2008	2009	2010	2001 - 2010	- 2010
23. Ilocos Norte Irrigation Project	Construction of a 143.5 m.high fill type dam with 232 MCM reservoir capacity; 9.1-km headrace and tailrace tunnels;	Ilocos Norte Badoc,Pinili, Nueva Era, Batac,Paoay,	JBIC		2013	T(P) L(P) F(\$)	14,994,000	FS completed Submitted to ICC	-	-	-	-		145,194 144,480 17	2000 209,194 149,680 1,417	569,318 299,720 6,419	1,289,318 599,720 16,419	1,960,000 700,000 30,000	2,270,000 800,000 35,000	6,443,024 2,693,600 89,272	
(Palsiguan) Phase II	afterbay concrete gravity dam; powerplant (6.8 mw);irrigation	Solsona,Cura Ilocos Sur				New Rehab	12,400)	-	-	-	-		0	0	1,000	1,000	2,000	2,000	6,000	6,000
	facilities to cover 12,400 ha & supplement water supply for 7,240 ha in Stage I	Sinait (Dam is in Abra.)					~														
 Talakag Irrigation Project 	Construction of a 2.0-m high & 110-m long concrete ogee- shaped rubble masonry dam across Batang River, canal	Bukidnon Talakag	GAA	2005	2007	T(P) L(P) F(\$)		FS completed DE completed	-	-	-	-		75,000 75,000 -	139,661 139,661 -	125,000 125,000	- - -			339,661 339,661 0	264,661 264,661 0
	distribution network, drainage facilities, O&M roads, on-farm & other facilities.					New Rehab	2,800		-	-	-	-		-	- 500	2,300	-	-	-	2,800	2,800
25. Alcala Amulung West Pump	Construction of pumping station irrigation & drainage facilities to irrigate 7,700 hectares	Cagayan Alcala Amulung			2008 I & II)	T(P) L(P) F(\$)	1,388,000 347,000 24,786	Stage I - FS completed.	-	-	:	-		138,800 55,520 1,983	250,800 100,320 3,583	250,700 100,280 3,581	250,700 100,280 3,581	-	-	891,000 356,400 12,729	300,880
Irrigation Project	consisting of stages I, II & III.			2014	2017	New Rehab	7,700		-	-		-		-	500	1,000	2,500	-	-	4,000	4,000
				(Stage	2017 III)																
26. Mibolo- Tipanoy Irrigation Project	Water coming from Blue Spring would be conveyed through a piping system ans stored in a number of pressure tanks or	Iligan City Lanao del Norte		2005		T(P) L(P) F(\$)		For Study No ICC clearance needed	-	-	-	-		70,000 70,000 -	-	-	-	-	-	70,000 70,000 0	
	reservoir to irrigate an area of 300 has. through sprinkler irrigation.Crop diversification would be introduced in the area.					New Rehab	- 300		-	-	-	-		- 300	-	-	-	-	-	300 0	0
27. Upland Irrigation and Rural Development	Provision of irrigation for upland vegetable crops & introduce crop diversification.	Laguna Nagcarlan, Liliw, Majayjay	GAA	2005	2007	T(P) L(P) F(\$)	504,500 504,500 -	FS completed Submitted to ICC	-	-	-	-		50,000 50,000	250,000 250,000	204,500 204,500	-	-	-	504,500 504,500 0	
Project in Southern Luzon		wiajayjay				New Rehab	- 320		-	-	-	-		-	- 100	- 220	-	-	-	320	320 0
28. Infanta Impounding Irrigation	Construction of an impounding dam & facilities to irrigate additional 560 ha and augment	Pangasinan Infanta	Proposed for JICA	2005	2006	T(P) L(P) F(\$)		FS completed DE completed	- -	-	-	-		100,000 100,000	150,000 150,000	-	-	-	-	250,000 250,000	
Project	water supply for 620 ha		grant			New Rehab	560 620	0	-	-	-	-		0 0	560 620	-		-	-	560 620	
29. Tineg River Irrigation	Construction of 2 m high diversion dam & its appurtenant structures across Tineg River,	Abra Lagayan, La Paz	GAA	2006	2009	T(P) L(P) F(\$)	266,700	FS completed DE on-going Submitted	-	-	-	-		-	50,000 50,000 0	100,000 50,000 1,190	250,000 100,000 3,571	192,300 66,700 2,990	-	592,300 266,700 7,752	266,700
Project	13.54 km main conveyance systems 20,21 km lateral & sub-lateral canals & on-farm facilities. Flood protection dikes along the river will also be constructed. Irrigation					New Rehab	1,950 0	to ICC	-		-	-		-	-	-	- 500	1,450	-	1,950	1,950
80. Mapanuepe Lake Irrigation Project	facilities shall cover 1,950 ha. Construction of a barrage type weir across the cut-off channel. to raise the water level by about 3.5 m from the mouth of	Zambales San Marcelino, San Antonio,	GAA	2006	2007	T(P) L(P) F(\$)	- 160,095	FS completed DE on-going	-	-	-	-		-	70,000 70,000 -	90,095 90,095 -	-	-	-	160,095 160,095 0	160,095
	the lake & store about 17.995 mcm of water for irrigation.	San Narciso				New Rehab	1,900		-	-	-	-		-	-	1,900	-	-	-	1,900 (1,900

		PROVINCE/	1	1		ESTIMATED PROJ	IECT	CUMULATIVE											idp0110d	idp0110d
NAME OF	DESCRIPTION	Cagayan Alcala,	FUNDING	SCH	EDULE	COST (P'000) AN		ACCOMPLISHMENT				FUNDING R	EQUIREMENT (F	P'000)/ PHYSICAL '	TARGETS (HA)				TOTAL	TOTAL 2006
PROJECTS		Amulung COVERED	COURCE	0		NUVGICUL TADOR	TO(114)	-	2001	2002	2002	2001	2005	2007	2007	2000	2000	2010	2001 - 2010	- 2010
31. Watershed &	Watershed protection/reforesta-	Tarlac	SOURCE	Start 2006				FS completed	2001	2002	2003	2004	2005	2006 57,800	2007 57,800	2008 57,800	2009 57,800	2010 57,800	289,000	289,000
and	tion & erosion control measures	Mayantoc,Tarlac			2010	L(P)		No ICC	-	-	-	-	-	57,800	57,800	57,800	57,800	57,800	289,000	289,000
Erosion	in 10 NISa: Camiling RIS,	Zambales	l ciemen	ĩ		F(\$)	-	clearance	-	-	-	-	-	-	-	-	-	-	200,000	209,000
Control	Maranding RIS, Baco-bucayo RIS	Candelaria, Masin	nloc			. (0)		needed.											0	0
For Ten	Agos, Tumauini, Barit, Cura,	Pangasinan	1			Refstn(ha)	4,200)	-	-	-	-	-	840	840	840	840	840	4,200	4,200
Irrigation	Pongso, Cantingas & Matogdon.	San Manuel				Assisted	1,000)	-	-	-	-	-	200	200	200	200	200	1,000	1,000
Systems	To be implemented with DA,	Lanao del Norte				regeneration(ha)														
	DENR, LGUs and NGOs	Salvador, Sapad,	Nunungan			Hill	31,600)	-	-	-	-	-	6,320	6,320	6,320	6,320	6,320	31,600	31,600
		Oriental Mindoro				farming(ha)														
		Naujan, Baco, Sa				Road	195	5	-	-	-	-	-	39	39	39	39	39	195	195
		Occidental Mindo	oro			Improv't(km)														
		Sta. Cruz				Wd lots(ha)	7,300)	-	-	-	-	-	1,460	1,460	1,460	1,460	1,460	7,300	7,300
		Quezon				Streambanks Protection	on													
		Infanta, Gen.Nak	kar			(km)	4	ł	-	-	-	-	-	0	0	0	0	0	0	0
		Rizal				Soil	2,000)	-	-	-	-	-	400	400	400	400	400	2,000	2,000
		Tanay				Conservation(ha)														
		Isabela				Orchard	700)	-	-	-	-	-	100	100	200	200	100	700	700
		Tumauini,Cabag		1,		Plantation(ha)														
		Maconacon,San	Pablo,			Livelihood Assistance	9		-	-	-	-	-	-	-	-	-	-	0	0
		Camarines Sur Buhi				Pasture Improvement (ha)	500							100	100	100	100	100	500	500
		Buni Ilocos Norte				(na) Social	500		-	-	-	-	-	100	100	100	100	100	500	500
		Carasi				Forestry(ha)	500)	-	-	-	-	-	100	100	100	100	100	500	500
		Northern Leyte				Porestry(na)														
		Carigara, Jaro, Tu	inga																	
		Romblon	inga																	
		Magdiwang, Caj	idiocan San F	Fernando																
		Camarines Norte																		
		Labo																		
		Labo																		
32. Sto.	Construction of facilities and	Catanduanes	GAA	2006	2007	T(P)	72.000	FS on-going	-	-	-	-	-	55,000	17,000	-	-	-	72,000	72,000
Domingo	installation of pump for	Virac				L(P)	72,000		-	-	-	-	-	55,000	17,000	-	-	-	72,000	72,000
Pump Irrig.	irrigation at Buyo River to					F(\$)	,)	-	-	-	-	-	-	-	-	-	-	0	0
Project	irrigate 720 ha of farmlands.																			
5	Ū.					New	720)	-	-	-	-	-	0	720	-	-	-	720	720
						Rehab	C)	-	-	-	-	-	-	-	-	-	-	0	0
Muleta	Construction of an impounding	Bukidnon	IBRD	2006	2011	T(P)	1,550,000	FS on-going	-	-	-	-	-	80,000	248,000	285,000	369,000	344,000	1,326,000	1,326,000
Reservoir	earthfill dam across Muleta	Maramag,				L(P)	387,500)	-	-	-	-	-	80,000	80,000	75,000	75,000	50,000	360,000	360,000
Irrigation	River at about 1km upstream	Valencia				F(\$)	27,679)	-	-	-	-	-	0	4,000	5,000	7,000	7,000	23,000	23,000
Project	of Muleta RIS Dam; generation	Don Carlos																		
	of additional 7,341 ha and					New	7,341		-	-	-	-	-	0	0	1,000	1,000	2,000	4,000	4,000
	rehabilitation of 2,429 ha of					Rehab	2,429)	-	-	-	-	-	0	1,000	1,000	429	0	2,429	2,429
	existing service areas.																			
		L .	L	1	1															
Mabini	Construction of a 88.5-m high,	Pangasinan	Proposed	2007	2013			FS completed	-	-	-	-	-	-	206,000	520,000	880,000	1,200,000	2,806,000	2,806,000
Irrigation	530-m long, 4.12 million cubic	Alaminos,	BOT			L(P)	1,015,300		-	-	-	-	-	-	80,000	100,000	250,000	360,000	790,000	790,000
Project	meters volume embankment	Mabini,				F(\$)	122,588	5	-	-	-	-	-	-	3,000	10,000	15,000	20,000	48,000	48,000
	1dam; 92 km irrigation canals;	Bani, Sual				27	11 500										0	500		
	hydropower plant w/ installed					New	11,500)	-	-	-	-	-	-	0	0	0	500	500	500
	capacity of 10 mw, and other				1	Rehab	-			-	-	-	-	-	-	-	-	-	0	0
	appurtenances		1	1	1															
25 41:	Construction of Domelia	Manufadana	CAA	2007	1	T(D)	108,000								108.000				100.000	108,000
35. Alip River	Construction of Damalipao	Maguindanao	GAA	2007	1	T(P) L(P)	108,000	,	-	-	-	-	-	-	108,000	-	-	-	108,000 108,000	108,000
Irrigation	stream check, silt ejector & repair/rehab of existing	Datu Piglas	1	1	1	L(P) F(\$)	108,000	í.		-	-	-	-	-	108,000	-	-	-	108,000	108,000
System	irrigation facilities.				1	1.(2)	U.	,	-	-	-	-	-	-	-	-	-	-	0	0
system	inigation facilities.		1	1	1	New	300						-		300	-	-		300	300
	1	1	1	1	1	Rehab	3,000		-	-	-	-	-	-	3,000	-	-	-	3,000	3,000

Legspi Irrigation and Rural The lowland rural component involy intraction of diversi Lamalag to irriga 2000 the diversi Lamalag to irriga 2000 the diversi 2000 the	version weir in rigate 130 ha & am in Daraga to a. The upland increases yields of corn, coconut sified crops.Other re rural road ral water supply & integrated ves. of a 30-m high rirrigation & ties & groundwater vide year-round ,100 hectares. to provide irrit- supply to one NIS & vide to total area of erate additional ha. It involves on of 111 m	Amulung COVERED Albay Camalig, Daraga Zamboanga del Norte & Sur Titay, Kalawit Pangasinan Mangatarem Aguilar Bugallon	SOURCE Proposed for JICA grant GAA	<u>Start</u> 2007 2007	End 2008 2010	T(P) L(P) F(\$) New Rehab	186.400 5,650 -		2001	2002	2003	2004	2005	2006 - - -	2007 150,000 50,000 2,381 0	2008 273,700 136,400 3,269 525	2009	2010	2001 - 2010 423,700 186,400 5,650 525 0	5,650
Legaspi Irrigation and Rural Development Project-IC 16.8 m high dam irrigate 395 ha. Th rural dev1 to incr & production of a & other diversific omponents are n upgrading, rural rehabilitation & in support services. 7. Titay Valley Project	ural development volves the cons- version weir in rigate 130 ha & an in Darga to a. The upland increase yields of corn, coconut sified crops.Oher re rural road ral water supply & integrated ves. of a 30-m high ririgation & tites & groundwater vide year-round 100 hectares. to provide irrit- supply to one NIS & to fot toal area of erate additional ha. It involves on of 111 m	Camalig, Daraga Zamboanga del Norte & Sur Titay, Kalawit Pangasinan Mangatarem Aguilar	Proposed for JICA grant GAA	2007	2008	T(P) L(P) F(\$) New Rehab	423,700 186,400 5,650 - -) For DE	-	-	-	-	-	-	150,000 50,000 2,381	273,700 136,400 3,269	-	-	186,400 5,650	186,400 5,650
Development Lamalag to irriga Project-IC 16.8 m high dam irrigate 395 ha. Tr rural dev't to iner- & production of a & other diversifie components are n upgrading, rural v rehabilitation & it valley Project 2000 S.Pila River Multipurpose Project areas to p gation water supp structures across 1 hydroelectric pow installed capacity S.Puso S.Puso S.Puso S.Puso Construction of installed capacity project 1,250 hectares. Project 2000 S.Pila River S.Puso S.Puso S.Puso Construction of installed capacity project 1,250 hectares. Project 2000 S.Puso S.Pu	rigate 130 ha & lam in Daraga to a. The upland increase yields of corn, coconut sified crops.Other are nural road ral water supply & integrated exes. of a 30-m high mirigation & tites & 'groundwater vide year-round 1,00 hectares. to provide irrit- supply to one NIS & to fo total area of rarea additional ha. It involves on of 111 m	Norte & Sur Titay, Kalawit Pangasinan Mangatarem Aguilar	GAA	2007	2010	Rehab T(P)	-		-	-	-	-	-	-	-	- 525	-	-	525 0	525
 irrigate 305 ha. The construction of c& other diversifie components are n upgrading, rural devit to increase of the diversifie components are n upgrading, rural devit storage dam, irrigation for storage dam, irrigation for a storage dam, irrigation for a storage dam, irrigation for a storage dam, irrigation to 4,100 8. Pila River Multipurpose Project 8. Pila River Multipurpose Project areas to p gation water support structure area of 6,138 ha. the construction of a storage dam & area of 6,138 ha. the construction of storage dam & area of 6,138 ha. the construction of storage dam & area of 1,250 hectares. Project 9. Puyo Small Reservoir Inrigation 1,250 hectares. 0. Talayan River S0 units structures area of so units structure area of 8,252 (2000) 	a. The upland increases yields of corn, coconut sified crops.Other re rural road k integrated ves. of a 30-m high mirigation & tites & groundwater vide year-round 100 hectares. to provide irrii- supply to one NIS & of total area of total set of total area of total set rest additional ha. It involves on of 111 m	Norte & Sur Titay, Kalawit Pangasinan Mangatarem Aguilar		2007	2010	T(P)			-	-	-	-		-	-	-		-		
Valley storage dam, irrig drainage facilities installation of gro pumps to provide irrigation to 4,100 88. Pila River Project areas to p gation water supp Project 36. CIS (rehab of 8,252) & generat area of 6,138 ha. area of 6,138 ha. area of 6,138 ha. area of 6,138 ha. structures across hydroelectric pow installed capacity project 39. Puyo Small Reservoir Project 40. Talayan River	irrigation & ities & groundwater vide year-round ,100 hectares. to provide irri- supply to one NIS & o of total area of erate additional ha. It involves on of 111 m	Norte & Sur Titay, Kalawit Pangasinan Mangatarem Aguilar		2007	2010															
Irrigation drainage facilities installation of gro pumps to provide irrigation to 4,100 SR.Pila River Project areas to p gation water supp 36 C1S (rehab of 8,252) & generatic area of 6,138 ha. the construction of storage dam & ap structures across hydroelectric pow installed capacity S9. Puyo Construction of rn appurtenant struct provide irrigation 1,250 hectares. Wor Construction of rn appurtenant struct provide irrigation 1,250 hectares. Wor Construction of rn appurtenant struct provide irrigation 1,250 hectares. Wor Construction of rn appurtenant struct provide irrigation 1,250 hectares.	ities & groundwater vide year-round ,100 hectares. to provide irri- supply to one NIS & o of total area of erate additional ha. It involves on of 111 m	Titay, Kalawit Pangasinan Mangatarem Aguilar	JBIC				1,100,000	FS on-going	-	-	-	-	-	-	100,000 100,000	200,000 200,000	300,000 300,000	500,000 500,000	1,100,000 1,100,000	
 pumps to provide irrigation to 4,100 Project areas to p gation water sup 36 CIS (rehab of 8,252) & generat area of 6,138 ha. the construction of storage dam & ap structures across 1 hydroelectric pow installed capacity Puyo Small Reservoir Inrigation Project Construction of r appurtenant struc provide irrigation L250 hectares. Yo units structures for construction 	vide year-round ,100 hectares. to provide irri- supply to one NIS & o of total area of erate additional ha. It involves on of 111 m	Pangasinan Mangatarem Aguilar	JBIC			F(\$)	-	,	-	-	-	-	-	-	-	-	-	-	0	0
Multipurpose gation water supp Project 36 CIS (rehab of 8,252) & generati area of 6,138 ha. the construction c storage dam & ap structures across hydroelectric pow installed capacity 7 Small appurtenant struc provide irrigation 1,250 hectares.	supply to one NIS & o of total area of erate additional ha. It involves on of 111 m	Mangatarem Aguilar	JBIC	1		New Rehab	3,800 300		-	-	-	-	-	-	0 300	800 0	1,500 0	1,500 0	3,800 300	3,800 300
Project 36 C1S (rehab of 8,252) & generati area of 6,138 ha. the construction of storage dam & ap structures across in hydroelectric pow installed capacity 39. Puyo Construction of r appurtenant struct provide irrigation 1,250 hectares. 97. Puyo Construction of r appurtenant struct provide irrigation 1,250 hectares. 40. Talayan River Construction/reha 50 units structure	o of total area of erate additional ha. It involves on of 111 m	Aguilar		2007	2014	T(P)		FS completed	-	-	-	-	-	-	200,000	400,000	600,000	950,000	2,150,000	
area of 6,138 ha. the construction of storage dam & ap structures across.) hydroelectric pow installed capacity 39. Puyo Construction of rr Small appurtenant struc Provide irrigation 1,250 hectares. Project 40. Talayan Construction/reha Si unit structure	ha. It involves on of 111 m	Биданоп				L(P) F(\$)	3,396,800 63,800) DE on-going	-	-	-	-	-	-	100,000 2,381	150,000 5,952	200,000 9,524	410,000 12,857	860,000 30,714	
storage dam & ap structures across J hydroelectric pow installed capacity 39. Puyo Construction of rr Small appurtenant struc- Reservoir provide irrigation 1,250 hectares. Project 40. Talayan Construction/reha River 50 units structure						New Rehab	6,138 8,252		-	-	-	-	-	-	0	0 1,000	0 2,000	500 2,000	500 5,000	500 5,000
Small appurtenant struct provide irrigation Irrigation 1,250 hectares. Project 200 hectares. 40. Talayan Construction/reha River 50 units structure	power plant with					Kellab	6,232		-		-	-	-	-	0	1,000	2,000	2,000	3,000	5,000
Project 40. Talayan Construction/reha River 50 units structure	tructures to	Agusan Norte Jabongan	GAA	2007	2008	T(P) L(P) F(\$)	254,000 254,000		-	-	-	-	-	-	54,000 54,000	200,000 200,000	-	-	254,000 254,000 0	
40. Talayan Construction/reha River 50 units structure						New	1,250)		-	-		-	-	250	1,000		-	1,250	1,250
River 50 units structure						Rehab	-		-	-	-		-	-	-		-	-	0	0
	tures, rehab of struction of canal	Maguindanao	GAA	2008		T(P) L(P) F(\$)		For Detailed Engineering	-	-	-	-	-	-	-	104,000 104,000 -	-	-	104,000 104,000 0	
System lining & construc to Market Roads.						New Rehab	388 700		-		-	-	-			388 700	-	:	388 700	388 700
41. Loboc Construction of p		Bohol	GAA	2008	2009	T(P)	60,000	For FS		-	-	-	-	-	-	30,000	30,000		60,000	60,000
Valley irrigation facilitie Irrigation 250 hectares. Project	lities for	Loboc				L(P) F(\$)	60,000 0)		-	-	-	-	-	-	30,000	30,000	-	60,000 0	60,000 0
noject						New Rehab	250 50		-	-	-	-	-	-	1	- 50	- 250	-	250 50	250 50
	of Terrubian Dam,	Maguindanao	GAA	2008	2010		699,000		-	-	-	-	-	-	-	200,000	200,000	299,000	699,000	
RIS Reha- bilitation structures, termin Project facilities & constr	minal & drainage onstruction of					L(P) F(\$)	699,000 0)	-	-	-	-	-	-	-	200,000	200,000	299,000 -	699,000 0	0
trapezoidal canal	inal lining.					New Rehab	380 820		-	-	-	-	-	-	-	0 0	145 400	235 420	380 820	
43. Sibuguey Provide irrigation RIS irrigable areas wi Extension valley not irrigate	s within the gated by the	Zamboanga Sur Bayug, Buug, Diplahan,	GAA	2008	2010	T(P) L(P) F(\$)	500,000 500,000) FS on-going	-	-	-	-	-	-	-	75,000 75,000	200,000 200,000	225,000 225,000	500,000 500,000 0	
existing Sibuguey		Imelda,Payao, Lakewood, Cisiay				New Rehab	3,000)	-	-	-	-		-		0	500	2,500	3,000	3,000

NAME OF PROJECTS	DESCRIPTION	PROVINCE/ Cagayan Alcala, Amulung	FUNDING	SCH	EDULE	ESTIMAT COST (TED PROJECT P'000) AND	CUMULATIVE ACCOMPLISHMENT				FUNDING R	EQUIREMENT (I	P'000)/ PHYSICA	L TARGETS (HA	()			idp0110d TOTAL 2001 - 2010	total 200 - 2010
PROJECTS		COVERED	SOURCE	Start	End	PHYSICAL	L TARGETS(HA)	-	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2001 - 2010	- 2010
4. Jalaur	Improvement of irrigated	Iloilo	JBIC	2008		T(P)		FS completed	-	-	-	-	-	-	-	164,000	226,000	436,000	826,000	826,000
Irrigation	agriculture through rehabilita-	Barotac, Pavia				L(P)) For Detailed	-	-	-	-	-	-	-	80,000	100,000	100,000	280,000	
Systems & Rural Area	tion/improvement of existing systems, applying adequate	Nuevo, Mina, Dingle, Zarraga,				F(\$)		Engineering	-	-	-	-	-	-	-	2,000	3,000	8,000	13,000	
Development	farming technology &	Pototan, Dumang	gas,			New	-		-	-		-	-	-	-	-		-	0) (
Project	introducing crop diversifi- cation.	San Miguel, Oton,Leganes				Rehab	21,760)	-	-	-	-	-	-	-	0	3,000	4,000	7,000	7,000
45. Ilocos	Construction of two diversion	New Lucena Ilocos Sur	JBIC	2008	2013	T(D)	2 000 000	FS completed								144.000	268,000	436,000	848.000	848,000
Sur	dams (10 m & 6.7 m high);	Sta. Lucia,	JDIC	2000	2015	L(P)	500,000	Needs	-	-	-	-	-	-	-	60,000	100,000	100,000	260,000	
Transbasin	192 km of irrigation and	Sta. Cruz,				F(\$)	35,714	updating	-	-	-	-	-	-	-	2,000	4,000	8,000	14,000	
Project	drainage canals; hydro power plant w/ installed capacity of	Burgos, Luna Sta. Maria, Luna				New	4,000	For DE								0	500	700	1,200	1,20
	6.5 mw;20 km transmission lines and other appurtenances	Narvacan, San Esteban				Rehab	5,830		-	-	-	-	-	-	-	0	1,000	1,000	2,000	
 Maganoy 	Construction of impounding	Maguindanao	IBRD	2008	2013			FS on-going	-		-	-	-		-	163,500	260,000	369,000	792,500	
Dam No. 3 Development	earthfill dam 45 m above the riverbed of Cabilaan River for	Maganoy, Ampatuan,				L(P) F(\$)	375,000 26,786		-	-	-	-	-	-	-	37,500 3,000	50,000 5,000	75,000 7,000	162,500 15,000	
Project	irrigation, power generation	Sultan							-	-	-	-	-	-	-					
	and fisheries.	Kudarat, Esperanza,				New Rehab	8,800									0	0	500	500	500
		Isulan, Bagumbayan				Renab	C.	,	-	-		-	-	-	-		-	-	· · · ·	
47. Lake	Construction of new Small	Lanao del Sur	GAA	2009	2016		2,820,000		-	-	-	-	-	-	-	-	100,000	150,000	250,000	
Lanao Irrigation	Scale Irrigation Projects & rehabilitation of existing CIS	Taraka,Masiu, Bubong,Pualas,Ba	Vana			L(P) F(\$)	2,820,000)	-	-	-	-	-	-	-	-	100,000	150,000	250,000	250,000
Development	located around Lake Lanao.	Lumba-Bayabao,M	Maguing,			1(3)			-	-	-	-	-	-	-	-	-	-	· · · ·	
Project		Balindong,Tubara Marawi City,Mulo				New Rehab	15,000									-	0	2,000 1,000	2,000	
		Buadipuso-Bunton Ditsaan-Ramain,C Lumbatan,Madalu Lumbayanagui,Ma Poona-Bayabao,B	ng, Janassi, ım,Madamba arantao,	vi			.,										·	.,		
48. Adgaoan -	Construction of rubber dams	Agusan Sur	ADB	2009	2014	T(P)	1,853,306		-	-	-	-	-	-	-	-	136,500	258,000	394,500	
Umayan Irrigation	at two independent projects. The Adgaoan rubber dam &	Lapaz, Loreto				L(P) F(\$)	455,000 33,293		-	-	-	-	-	-	-	-	52,500 2,000	90,000 4,000	142,500 6,000	
Project	the Umayan rubber dam.																			
						New Rehab	- 16,000)	-	-	-	-	-	-	-	-	- 0	1,000	1,000	1,00
49. Tago RIS		Surigao del		2009	2011	T(P)	1,800,000) For FS									501,500	500,000	1,001,500	1,001,500
Extension		Sur				L(P)	1,800,000		-	-	-	-	-	-	-	-	501,500	500,000	1,001,500	
		Tago San Miguel				F(\$)	-		-	-	-	-	-	-	-	-	-	-	0	
		3				New Rehab	- 6,927	7	-	-	-	-	-	-	-	-	- 1,000	- 2,000	3,000) () 3,000
50. Ojot	Construction of irrigation and	Agusan del Sur		2009	2012	T(D)	500.000) For FS									80,000	100,000	180.000	180,000
Irrigation Project	drainage facilities to serve 2,200 hectares of new areas	Agusan dei Sur		2009	2012	L(P) F(\$)	500,000		-	-	-	-	-	-	-	-	80,000	100,000	180,000	
5	in Agusan del Sur					New	2,200)	-	-	-	-	-	-	-	-	-	245	245	245
						Rehab	-		-	-	-	-	-	-	-	-	-	-	0) (
51. Debibi Groundwater Irrigation Project	The project envisioned to irrigate a potential area of 4,000 has. It would include several communal irrigation	Quirino Cabarruguis, Saguday	GAA	2009	2012	T(P) L(P) F(\$)	640,000 640,000 0	For further study	-	-	-	-	-	-	-	-	100,000 100,000 -	150,000 150,000 -	250,000 250,000	
	systems.			1		New Rehab	4,000			-	-	-	-	-	-	-	0	500	500	500

NAME OF	DESCRIPTION	PROVINCE/ Cagayan Alcala,	FUNDING	SCH	EDULE	ESTIMATED COST (P'00	PROJECT	CUMULATIVE ACCOMPLISHMENT				FUNDING RI	EQUIREMENT (P'000)/ PHYSICA	L TARGETS (H	A)			TOTAL	idp0110 TOTAL 200
PROJECTS	DESCRIPTION	Amulung COVERED	SOURCE	Charact	End			ACCOMPLISIIMENT	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2001 - 2010	- 2010
2. Balintingon	Construction of 140 m high,	Nueva Ecija	BOT	2009	2015	T(P)	5,083,000	FS completed	2001	2002	2005	2004	2003	2006	2007	2008	2009	450,000	703,000	703,0
Reservoir	rockfill central-core dam & its	General				L(P)		Submitted	-	-	-	-	-	-	-	-	75,000	100,000	175,000	175,0
Project	appurtenant structures across Sumacbao River, powerhouse	Tinio				F(\$)	84,714	to ICC	-	-	-	-	-	-	-	-	4,238	8,333	12,571	12,57
	w\ installed capacity of 44 MW,					New	18,800			-	-	-	-	-	-	-	0	0	0	1
	diversion weir & irrigation					Rehab	-			-	-	-	-	-	-	-	-	-	0	
	facilities to update 14,900 ha in Balintingon area & expand UPRIIS District 4 by 3,900 ha.																			
53. Magat	Rehabilitation & protection of	Isabela:Ramon	GAA	2009	2013	T(P)	2.600.000	FS completed							-		268,000	520,000	788.000	788,00
Watershed	the Magat Watershed through	Nueva Vizcaya				L(P)	920,000)	-	-	-	-	-	-	-	-	100,000	184,000	284,000	284,00
and	reforestation involving NIA,FMB					F(\$)	40,000		-	-	-	-	-	-	-	-	4,000	8,000	12,000	12,00
Erosion Control	& private sector, smallhold agro-forestry, agro-forestry	Bagabag, Bambang,				Refores-	27,560								-		5,000	5,000	10,000	10,00
Project	livestock & construction &	Bayombong,				tation	.,											.,		
	maintenance of about 1,405 km forest roads.	Diadi, Dupax Norte,																		
	kin torest roads.	Dupax None, Dupax Sur,																		
		Kayapa,																		
		Quezon,																		
		Sta. Fe, Solano,																		
		Villaverde																		
		Ifugao																		
		Aguinaldo																		
		Banaue, Hingyon,																		
		Hungduan,																		
		Kiangan,																		
		Lagawe,Lamut Mayoyao,																		
		Potia,Tinoc																		
	G	n 9	JBIC	2000	2015	T. D	4.0<1.000	100 1									121.000	505 000	720.000	720.00
54. Asue Irrigation	Construction of a 48.5-meter high, 265-m long, 796,000-cubic	Iloilo Sara,	JRIC	2009	2015	1(P) L(P)		FS needs updating		-	-	-	-	-	-	-	134,000 50,000	586,000 250,000	720,000 300,000	720,00 300,00
Project	meter volume embankment dam;	San Dionisio,				F(\$)		For Detailed		-	-	-	-	-	-	-	2,000	8,000	10,000	10,00
	139 km irrigation & drainage	Ajuy,				27	8.440	Engineering												
	canals; hydro power plant with installed capacity of 1.4 mw;	Concepcion				New Rehab	7,120						-				0	- 0	0	
	10 km transmission lines and					Renab	-		-	-		-	-	-	-		-	-	0	
	other appurtenances																			
55. Lake	Development of an irrigation	Agusan del	ADB	2009	2016	T(P)	2.456.250	With Pre-FS		-	-	-	-	-	-	-	161,000	306,000	467,000	467,00
Mainit	projects for the agricultural	Norte		2007	2010	L(P)	356,250)		-	-	-	-	-	-	-	35,000	54,000	89,000	89,00
Integrated	lands along the periphery of	Surigao del				F(\$)	50,000		-	-	-	-	-	-	-	-	3,000	6,000	9,000	9,00
Area Development	Lake Mainit & the vast area south of the lake down to Cabad-	Norte Mainit,				New	20,000										0	2,000	2,000	2,00
Project-IC	baran plains. At each new	Tubod,				Rehab	-	,		-	-	-	-	-	-	-	-	-	2,000	2,00
	development, appurtenant	Alegria,																		
	irrigation, drainange & on-farm facilities will be provided.	Kitcharao Jabonga																		
	racinties will be provided.	Jabonga																		
56. Gumain	Construction of 108 m high,	Pampanga		2010	2018			FS completed,		-	-	-	-	-	-	-	-	134,000	134,000	134,00
Reservoir	zoned embankment dam to	Floridablanca				L(P)		for updating	-	-	-	-	-	-	-	-	-	50,000 2,000	50,000 2,000	50,00 2,00
Project	store irrigation water to serve 11,000 ha of paddy & 5,200 ha.	Guagua,Lubao Sta. Rita				F(\$)	135,476		-	-	-	-	-	-	-	-	-	2,000	2,000	2,00
	of sugarcane area & augment	Bataan				New	16,200			-	-	-	-	-	-	-	-	0	0	
	water supply to 7,900 ha in	Dinalupihan	1	1	1	Rehab	7,900		-	-	-		-		-		-	0	0	
	Porac-Gumain & Caulaman RIS	Hermosa	1	1	1															
57. Matuno	Construction of a 147-m high,	Nueva Vizcaya	вот	2010	2019	T(P)	461,160	FS completed,							-		-	310,000	310,000	310,00
Irrigation	580-m long, 10 million cubic	Bambang,	1			L(P)	228,354	Submitted	-	-	-	-	-	-	-	-	-	100,000	100,000	100,00
Project	meter volume embankment dam;	Bagabag,	1	1	1	F(\$)	232,806	to ICC	-	-	-		-	-	-	-	-	5,000	5,000	5,00
	3 diversion dams (1.6 m, 1.8 m, and 2.5 m long); 335 km	Solano, Bayombong	1	1	1	New	12,680											0	0	1
	irrigation & drainage canals;	Villa Verde	1	1	1	Rehab	-			-	-	-	-	-	-	-	-	-	0	
	2 units @ 92.7 mw hydropower		1	1	1															1
	plant and other appurtenances	1	1	1	1	1		1												1

NAME OF	DESCRIPTION	PROVINCE/ Cagayan Alcala,	FUNDING	SCHE	EDULE	ESTIMATED PROJEC COST (P'000) AND	CUMULATIVE ACCOMPLISHMENT				FUNDING R	EQUIREMENT (P'000)/ PHYSIC/	AL TARGETS (H	A)			idp0110d TOTAL	idp0110d TOTAL 2000
PROJECTS		Amulung COVERED	SOURCE	Start	End	PHYSICAL TARGETS	(HA)	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2001 - 2010	- 2010
8. Negros Occidental Irrigation	Expansion of irrigated area for rice and sugarcane production by providing new irrigation &	Negros Occ. Kabangkalan, Ilog,	IBRD	2010	2015		,500,000 For FS 375,000 26,786	-	-	-	-	-	-	-	-	-	124,000 40,000 2,000	124,000 40,000 2,000	124,00 40,00 2,00
Package	drainage facilities through construction of Sicaba-Manapla, Malogo, Binalbagan & Hilabangan irrigation projects.	Himamaylan, Cauayan, Binalbagan, Isabela, La				New Rehab	28,925	-	-	-	-	-	-	-	-	-	-	0	
		Castellana, Talisay, Manapla, Moises Padilla, Hinigaran, Siluay																	
9. Jalaur Alternative Scheme	Construction of several small impounding dams upstream of the Jalaur service area to	Iloilo Maasin, Alimodian,	JBIC	2010	2017	L(P) 1	,000,000 For FS ,500,000 112,500	-	-	-	-	- -	- -	-	-	-	226,000 100,000 3,000	226,000 100,000 3,000	226,000 100,000 3,000
Project	increase water supply for irrigation and construction of new facilities.	Lambunao, Calinog, Janiuay				New Rehab	20,000 0	-	-	-	-	-	-	-	-	-	0	0	0
0. Land Reclamation & Resettle-	The proposed project will involve reclamation through poldering of lands which are	North Cotabato Pikit	IBRD	2010		L(P)	,947,500 For FS 427,500	-	-	-	-	-	-	-	:	-	260,000 50,000 5,000	260,000 50,000	260,000 50,000 5,000
& Resettle- ment Project in Liguasan	poldering of lands which are inundated during wet months but dry during the rest of the year.A complementary gravity	Maguindanao Pagalungan				F(\$) New Rehab	60,000 30,000	-			-	-	-	-		-	0	5,000	5,000
Marsh	irrigation & pumping scheme is expected.					Kenao	·	-	-	-	-	-	-	-	-	-		0	
1. Chico- Mallig Irrigation	Construction of the Mallig No. 2 Storage Dam to provide water to a net irrigable area	Kalinga, Isabela, Cagayan	GAA	2010	2015		,680,000 For FS ,872,000 66,857	-	-	-	-	-	-	-	-	-	468,000 187,200 6,686	468,000 187,200 6,686	468,000 187,200 6,686
and Dam Project	of 31,200 ha comprising of 4 separate areas. Irrigation & drainage facilities will also	Rizal, Magsaysay, Enrile, Gadu				New Rehab	31,200	-	-	-	-	-	-	-	-	-	-	0	(
	be constructed.	Liwan,																	
2. Salug Multipurpose rrigation	Construction of rockfill dam or concrete dam with a maximum height of 100 meters. The	Zamboanga Sur Molave, Mahayag, Tambulig,	GAA	2010			,000,000 With project ,250,000 identification 89,286	-	-	-	-	-	-	-	-	-	100,000 100,000 -	100,000 100,000 0	100,000 100,000
Project	project will irrigate about 22,000 ha, of 11,700 ha are presenty irrigated.	Bonifacio, Magsaysay				New Rehab	10,300 11,700	-	-	-	-	-	-	-	-	-	0	0	0
 Dibuluan Irrigation 	Construction of a 4 meter diversion dam across the	Isabela San Agustin,	GAA	2010		L(P)	191,000 For FS 191,000	-	-	-	-	-	-	-	-	-	100,000 100,000	100,000 100,000	100,000
Project	Dibuluan River & irrigation facilities for 3,000 hectares of farmland.	Jones				F(\$) New	3,000	-	-	-	-	-	-	-	-	-	- 0	0	
4. Villaverde	Construction of an intake	Nueva Vizcaya	GAA	2010	2011	Rehab T(P)	150,000 For FS	-	-	-	-	-	-	-	-	-	- 70,000	0 70,000	70,000
Irrigation Project	structure at the end check of the Lamut CIS & facilities to irrigate 3,000 hectares.	Villaverde, Solano				L(P) F(\$)	. 150,000	-	-	-	-	-	-	-	-	-	70,000	70,000	70,000
						New Rehab	3,000	-	-	-	-	-	-	-	-	-	- 0	0	
5. Kulaman River Basin Project	Construction of small dams & irrigation facilities for 4 CIPs, namely, Kiadsam, Mati, Malegdeng and Basag.	Sultan Kudarat Sen. Ninoy Aquino	GAA	2010		L(P) F(\$)	170,000 For FS 170,000		-	-	-	-	-	-	-	-	80,000 80,000 -	80,000 80,000 0	80,000 80,000 0
						New Rehab	1,140 0	-	-	-	-	-	-	-	-	-	- 0	0	0

NAME OF	DESCRIPTION	PROVINCE/ Cagayan Alcala,	FUNDING	SCHE	EDULE	ESTIMATED PROJECT COST (P'000) AND	CUMULATIVE ACCOMPLISHMENT			1	FUNDING REQU	JIREMENT (P'00	0)/ PHYSICAL 7	FARGETS (HA)				TOTAL 2001 - 2010	TOTAL 2006 - 2010
PROJECTS	l	Amulung COVERED	SOURCE	Start	End	PHYSICAL TARGETS(HA)		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010		
Sub-Total B						T(P) 60,478, L(P) 22,897, F(\$) 894,	936	0 0 0	287,030 146,670 3,342	1,628,498 978,637 15,473	3,246,002 1,250,069 47,522	6,718,501 3,005,907 88,395	6,339,081 2,833,586 83,464	4,860,621 2,208,567 63,144	5,792,218 2,304,160 83,049	5,968,650 2,322,910 86,803	6,021,450 2,403,730 86,136	40,862,051 17,454,236 557,329	28,982,020 12,072,953 402,597
(PART 1) (Pipeline Projects)						New 95, Rehab 398, Reforest 31, Canals (km) Drainage	984	0 0 0	0 0 0	2,800 3,525 0	1,790 4,500 0	6,300 41,978 0	12,990 44,740 840	14,540 47,730 840	14,220 44,075 840	7,030 45,829 5,840	6,680 47,420 5,840	66,350 279,797 14,200 0 0	55,460 229,794 14,200 0 0
Sub-Total B						Roads (km) Improvement T(P) 83,684, L(P) 28,827,	572	0 0	0 0	301,052 110,105	1,684,358 601,708	2,591,950 693,990	3,029,260 1,047,650	4,369,715 1,635,615	6,391,030 2,213,270	6,944,450 2,467,330	8,205,660 3,447,310	0 0 33,517,475 12,216,978	28,940,111 10,811,175
(PART 2) (Pipeline Projects)						F(\$) 1,538, New 307, Rehab 370, Reforest	616	0 0 0	0 0 0	4,546 0 0	25,777 1,855 7,000	45,190 1,600 21,695	47,181 3,200 43,065	65,098 7,100 42,474	99,470 9,213 44,750	106,598 16,100 44,000	113,294 14,760 45,000	507,155 53,828 247,984	431,64 50,37 219,28

		PROVINCE/		SCH	EDULE	ESTIMATED PROJECT		CUMULATIVE				FUNDING REQU	UIREMENT (P'00	0)/ PHYSICAL 2	TARGETS (HA)				idp0110d	idp0110d
NAME OF PROJECTS	DESCRIPTION	Cagayan Alcala, Amulung	FUNDING			COST (P'000) AND	ACCOMPLISHMENT											TOTAL 2001 - 2010	TOTAL 2000 - 2010
		COVERED	SOURCE	Start	End	PHYSICAL TA	RGETS(HA)		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010		
Sub-Total B (Pipeline						T(P) L(P) F(\$)	144,162,518 51,725,508 2,433,501		0 0 0	287,030 146,670 3,342	1,929,550 1,088,742 20,019	4,930,360 1,851,777 73,300	9,310,451 3,699,897 133,585	9,368,341 3,881,236 130,645	9,230,336 3,844,182 128,242	12,183,248 4,517,430 182,519	12,913,100 4,790,240 193,401	14,227,110 5,851,040 199,430	74,379,526 29,671,214 1,064,484	57,922,135 22,884,128 834,238
Projects)						New Rehab Reforest Canals (km) Drainage Roads (km)	403,209 768,993 31,760 0 0 0		0 0 0 0 0	0 0 0 0 0	2,800 3,525 0 0 0	3,645 11,500 0 0 0	7,900 63,673 0 0 0 0	16,190 87,805 840 0 0	21,640 90,204 840 0 0	23,433 88,825 840 0 0	23,130 89,829 5,840 0 0 0	21,440 92,420 5,840 0 0 0	120,178 527,781 14,200 0 0 0	105,833 449,083 14,200 0 0 0
C. OTHER PROC	GRAMS					Improvement	0		0	0	0	0	0	0	0	0	0	0	0	0
1. Operation and Maintenance Subsidy for		Nationwide, covering all NISs	GAA			T(P) L(P) F(\$)	100,000 100,000 0	284,673 284,673 -	100,000 100,000 -	-	-	-	-	-	-	-	-	-	100,000 100,000 0	0 0 0
NIS						Sust. O&M	669,767	-	669,767	-	-	-	-	-	-	-	-	-	669,767	0
2. San Roque Multipurpose Project (SRMP-MOA)	Allocation for the non-power costs component of SRMP.		GAA			T(P) L(P) F(\$)	5,818,575 5,818,575 0	-	318,000 318,000 -	611,175 611,175 -	611,175 611,175 -	611,175 611,175 -	611,175 611,175 -	611,175 611,175 -	611,175 611,175 -	611,175 611,175 -	611,175 611,175 -	611,175 611,175 -	5,818,575 5,818,575 0	3,055,875 3,055,875 0
3. Casecnan Multipurpose Irrigation & Power Project-BOT (Water Delivery)	Allocation to pay obligations to BOT proponents.		GAA			T(P) L(P) F(\$)	42,505,000 42,505,000 0		-	3,440,000 3,440,000 -	3,708,000 3,708,000	3,995,000 3,995,000 -	4,305,000 4,305,000 -	4,640,000 4,640,000 -	4,997,000 4,997,000 -	5,382,000 5,382,000 -	5,796,000 5,796,000 -	6,242,000 6,242,000 -	42,505,000 42,505,000 0	27,057,000 27,057,000 0
4.Irrigation Resea Research and Development	rch	Nationwide	GAA			T(P) L(P) F(\$)	120,000 120,000 0		-	- -	- -	-	20,000 20,000	20,000 20,000	20,000 20,000	20,000 20,000 -	20,000 20,000	20,000 20,000	120,000 120,000 0	100,000 100,000 0
Sub-Total C (Other						T(P) L(P) F(\$)	48,543,575 48,543,575 0		418,000 418,000 0	4,051,175 4,051,175 0	4,319,175 4,319,175 0	4,606,175 4,606,175 0	4,936,175 4,936,175 0	5,271,175 5,271,175 0	5,628,175 5,628,175 0	6,013,175 6,013,175 0	6,427,175 6,427,175 0	6,873,175 6,873,175 0	48,543,575 48,543,575 0 0	30,212,875 30,212,875 0 0
Programs)						New Rehab	0		0	0	0	0	0	0	0	0	0	0	0	0

NAME OF PROJECTS	DESCRIPTION	PROVINCE/ Cagayan Alcala, Amulung COVERED	FUNDIN	SCH	EDULE	ESTIMATED PROJECT COST (P'000) AND		CUMULATIVE ACCOMPLISHMENT	FUNDING REQUIREMENT (P'000)/ PHYSICAL TARGETS (HA)										idp0110d TOTAL	TOTAL 2006
			SOURCE	E Start	End	d PHYSICAL TARGETS(HA)	2001		2002	2003	2004	2005	2006	2007	2008	2009	2010	2001 - 2010	- 2010	
D. AGRARIAN RE	FORM	COTLINED	boence	buit	Lind	initiolenii i			2001	2002	2005	2001	2005	2000	2007	2000	2009	2010		1
1. CARP - Irrigation Component		Nationwide, Covering Agrarian	ARF	1999	2004	T(P) L(P) F(\$)	8,500,000 8,500,000		213,000 213,000	1,810,000 1,810,000 -	3,622,000 3,622,000	1,810,000 1,810,000 -	- -	-	-	-	-	-	7,455,000 7,455,000	
П		Reform Communities (ARCs)				New Rehab	67,713 38,526		8,285 4,352	23,982 14,113	12,211 6,123	8,768 3,594	-	-	-	-	-	-	53,246 28,182	
2. Agrarian Reform Infrastruc-		Nationwide, Covering Agrarian Reform	JBIC	2000	2004	T(P) L(P) F(\$)	2,865,000 2,865,000		593,000 593,000	961,000 961,000 -	824,000 824,000	241,000 241,000	-	- -	-	- -	- -	-	2,619,000 2,619,000	
ture Support Project II		Communities (ARCs)				New Rehab	29,994 13,439		7,500 3,000	10,060 4,520	8,632 3,868	6,214 2,771	-	-	-	-	-	-	32,400 14,159	
3. Agrarian Reform Communities		Nationwide, Covering Agrarian Reform	IBRD	1997	2002	T(P) L(P) F(\$)	1,189,000 1,189,000 -		377,000 377,000	287,000 287,000	- -	-	- -	-	-	-	- -	-	664,000 664,000	
Development Project-IC		Communities (ARCs)				New Rehab	9,817 3,320		4,488 855	3,303 515	-	-	-	-	-	-	-	-	7,791 1,370	
4. Mindanao Settlement Area Dev't Project						T(P) L(P) F(\$)	949,000 949,000 -		57,000 57,000	192,000 192,000	353,000 353,000	347,000 347,000	-	-	-	-	-	-	949,000 949,000 0	
riojeet						New Rehab	6,000)	-	1,000	2,500	2,500	-	-	-	-	-	-	6,000	0 0
Sub-Total D (Agrarian						T(P) L(P) F(\$)	13,503,000 13,503,000 0		1,240,000 1,240,000 0	3,250,000 3,250,000 0	4,799,000 4,799,000 0	2,398,000 2,398,000 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0		0 11,687,000 0 11,687,000 0 0	
Reform)						New Rehab	113,524 55,285		20,273 8,207	38,345 19,148	23,343 9,991	17,482 6,365	0		0				0 99,443 0 43,711	

	and mingation	-			0														idp0110d	idp0110d
NAME OF PROJECTS	DESCRIPTION	PROVINCE/ Cagayan Alcala, Amulung COVERED	FUNDING	SCH	EDULE		ED PROJECT 000) AND	CUMULATIVE ACCOMPLISHMENT	FUNDING REQUIREMENT (P'000)/ PHYSICAL TARGETS (HA)											TOTAL 2006 - 2010
TROJECTS			SOURCE	Start	End	PHYSICAL	TARGETS(HA)		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2001 - 2010	- 2010
						T(P) L(P) F(\$)	278,049,424 168,423,827 2,850,035	,	4,217,670 3,692,000 12,516	14,801,358 11,542,348 77,595	18,905,052 15,509,900 80,837	17,776,026 12,495,753 125,721	23,037,780 16,165,745 163,620	22,334,202 16,539,463 137,970	21,686,866 16,300,712 128,242	24,317,692 16,651,874 182,519	21,301,430 13,178,570 193,401	21,710,285 13,334,215 199,430	190,088,361 135,410,580 1,301,852	76,004,834
GRAND TOTAL						New Rehab Preventive Ma	805,528 1,117,284 aintenance		51,719 30,185 0	57,241 103,846	68,340 52,414	43,647 37,905	39,232 83,072	49,077 105,932	50,960 108,856 0	58,904 109,425	36,226 89,829	21,440 92,420	476,786 813,884	
						Irrig Fac. Sust. O&M	0 669,767 3,830		35,760 669,767 999	20,000 0 952	60,000 0 166	60,000 0	535,760 669,767 2,272	0						
						Canals (km) Drainage Roads (km)	16,428 1,619		641 474	932 377 141	398 33	109 475 10	336 11	303 5	300 0	300 0	300 0	300 0	3,729 674	1,503
						Reforest Improvement Exchange Rat			0 0	0 0	0 0	0 0	0 0	840 0	840 0	840 0	5,840 0	5,840 0	14,200 0 26-Jun-01	0 14,200 0 0 26-Jun-01

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REFERENCE DATA VII.2

Financial Projection Data

VII.2.1A Projected ISF Billing (1/5) (Scenario 1 - AO 17 ISF Rates)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
A. Physical Target										
1.0 Ser. Area, Beg. of Year	708,549	738,549	768,549	798,549	828,549	858,549	888,549	918,549	948,549	978,549
1.1 New Area Generation	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
1.2 Total Service Area	738,549	768,549	798,549	828,549	858,549	888,549	918,549	948,549	978,549	1,008,549
a. Wet	77%	77%	77%	77%	77%	77%	77%	77%	77%	77%
b. Dry	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%
1.2 Irrigable Area (Program)										
a. Wet	545,583	568,683	591,783	614,883	637,983	661,083	684,183	707,283	730,383	753,483
b. Dry	460,557	480,057	499,557	519,057	538,557	558,057	577,557	597,057	616,557	636,057
2.0 Cropping Intensity										
2.1 % Cropping Intensity										
a. Wet	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%
b. Dry	61%	61%	61%	61%	61%	61%	61%	61%	61%	61%
2.2 Planted & Benefitted Area (Has.)										
a. Wet	460,557	480,057	499,557	519,057	538,557	558,057	577,557	597,057	616,557	636,057
b. Dry	432,215	450,515	468,815	487,115	505,415	523,715	542,015	560,315	578,615	596,915
Total	892,772	930,572	968,372	1,006,172	1,043,972	1,081,772	1,119,572	1,157,372	1,195,172	1,232,972
3. Distribution of Benefited Area As to Sys										
	stem Type									
1. % to Total Service Area		70%	70%	70%	70%	70%	70%	70%	70%	70%
 % to Total Service Area Diversion 	70%	70%	70%	70%	70%	70% 30%	70% 30%	70% 30%	70%	70%
1. % to Total Service Area		70% 30%								
 % to Total Service Area Diversion Reservoir Total Benefited Area 	70%		30%		30%		30%	30%		30%
 % to Total Service Area a. Diversion b. Reservoir Total Benefited Area a. Diversion 	70% 30%	30%		30%		30%			30%	
 % to Total Service Area a. Diversion b. Reservoir Total Benefited Area a. Diversion a.1 Wet 	70% 30% 322,390	30% 336,040	30% 349,690 328,170	30% 363,340	30% 376,990	30% 390,640	30% 404,290	30% 417,940	30% 431,590 405,030	30% 445,240 417,840
 % to Total Service Area a. Diversion b. Reservoir Total Benefited Area a. Diversion a.1 Wet b.2 Dry 	70% 30% 322,390 302,550	30% 336,040 315,360	30% 349,690	30% 363,340 340,980	30% 376,990 353,790	30% 390,640 366,600	30% 404,290 379,410	30% 417,940 392,220	30% 431,590	30% 445,240
 % to Total Service Area a. Diversion b. Reservoir Total Benefited Area a. Diversion a.1 Wet b.2 Dry Total 	70% 30% 322,390 302,550	30% 336,040 315,360	30% 349,690 328,170	30% 363,340 340,980	30% 376,990 353,790	30% 390,640 366,600	30% 404,290 379,410	30% 417,940 392,220	30% 431,590 405,030	30% 445,240 417,840

VII.2.1A Projected ISF Billing (2/5)

(Scenario 1 - AO 17 ISF Rates)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Total	267,832	279,172	290,512	301,852	313,192	324,532	335,872	347,212	358,552	369,892
C. Distribution As to Landholdings										
Not more than 2 Has.	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%
Over 2 has but not >5	24%	24%	24%	24%	24%	24%	24%	24%	24%	24%
Over 5 has.	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%
D. Revenue Base										
1. Diversion System										
a. Wet										
Not more than 2 Has.	225,673	235,228	244,783	254,338	263,893	273,448	283,003	292,558	302,113	311,668
Over 2 has but not >5	77,374	80,650	83,926	87,202	90,478	93,754	97,030	100,306	103,582	106,858
Over 5 has.	19,343	20,162	20,981	21,800	22,619	23,438	24,257	25,076	25,895	26,714
Total	322,390	336,040	349,690	363,340	376,990	390,640	404,290	417,940	431,590	445,240
b. Dry										
Not more than 2 Has.	211,785	220,752	229,719	238,686	247,653	256,620	265,587	274,554	283,521	292,488
Over 2 has but not >5	72,612	75,687	78,761	81,835	84,910	87,984	91,059	94,133	97,207	100,282
Over 5 has.	18,153	18,922	19,690	20,459	21,227	21,996	22,765	23,533	24,302	25,070
Total	302,550	315,360	328,170	340,980	353,790	366,600	379,410	392,220	405,030	417,840
c. Grand Total	624,940	651,400	677,860	704,320	730,780	757,240	783,700	810,160	836,620	863,080
2. Reservoir System										
a. Wet										
Not more than 2 Has.	96,717	100,812	104,907	109,002	113,097	117,192	121,287	125,382	129,477	133,572
Over 2 has but not >5	33,160	34,564	35,968	37,372	38,776	40,180	41,584	42,988	44,392	45,796
Over 5 has.	8,290	8,641	8,992	9,343	9,694	10,045	10,396	10,747	11,098	11,449
Total	138,167	144,017	149,867	155,717	161,567	167,417	173,267	179,117	184,967	190,817
b. Dry										
Not more than 2 Has.	90,765	94,608	98,451	102,294	106,137	109,980	113,823	117,666	121,509	125,352
Over 2 has but not >5	31,119	32,437	33,755	35,072	36,390	37,707	39,025	40,343	41,660	42,978
Over 5 has.	7,780	8,109	8,439	8,768	9,097	9,427	9,756	10,086	10,415	10,744
Total	129,664	135,154	140,644	146,134	151,624	157,114	162,604	168,094	173,584	179,074

VII.2.1A Projected ISF Billing (3/5)

(Scenario 1 - AO 17 ISF Rates)

	2001	2002	2002	2004	2005	2006	2007	2008	2000	2010
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
c. Grand Total	267,832	279,172	290,512	301,852	313,192	324,532	335,872	347,212	358,552	369,892
E. Irrigation Service Fee (Cavans Per Hect	are)									
1. Diversion System										
a. Wet										
Not more than 2 Has.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Over 2 has but not >5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Over 5 has.	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
b. Dry										
Not more than 2 Has.	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Over 2 has but not >5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Over 5 has.	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
2. Reservoir System										
a. Wet										
Not more than 2 Has.	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Over 2 has but not >5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Over 5 has.	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
b. Dry										
Not more than 2 Has.	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Over 2 has but not >5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Over 5 has.	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
F. Gov't Support Price (Php)										
Price Per Cavan										
a. Wet	450	450	450	450	450	450	450	450	450	450
b. Dry	500	500	500	500	500	500	500	500	500	500
G. Projected Revenue										
1. Diversion System										
a. Wet (Cavans)										
Not more than 2 Has.	225,673	235,228	244,783	254,338	263,893	273,448	283,003	292,558	302,113	311,668
Over 2 has but not >5	154,747	161,299	167,851	174,403	180,955	187,507	194,059	200,611	207,163	213,715
Over 5 has.	58,030	60,487	62,944	65,401	67,858	70,315	72,772	75,229	77,686	80,143
Total	438,450	457,014	475,578	494,142	512,706	531,270	549,834	568,398	586,962	605,526

VII.2.1A Projected ISF Billing (4/5) (Scenario 1 - AO 17 ISF Rates)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
b. Dry (Cavans)										
Not more than 2 Has.	317,678	331,128	344,579	358,029	371,480	384,930	398,381	411,831	425,282	438,732
Over 2 has but not >5	217,836	227,060	236,283	245,506	254,729	263,952	273,176	282,399	291,622	300,845
Over 5 has.	81,689	85,147	88,606	92,065	95,523	98,982	102,441	105,900	109,358	112,817
Total	617,203	643,335	669,468	695,600	721,732	747,865	773,997	800,130	826,262	852,394
In Million Php										
a. Wet										
Not more than 2 Has.	102	106	110	114	119	123	127	132	136	140
Over 2 has but not >5	70	73	76	78	81	84	87	90	93	96
Over 5 has.	26	27	28	29	31	32	33	34	35	36
Total	197	206	214	222	231	239	247	256	264	272
b. Dry										
Not more than 2 Has.	159	166	172	179	186	192	199	206	213	219
Over 2 has but not >5	109	114	118	123	127	132	137	141	146	150
Over 5 has.	41	43	44	46	48	49	51	53	55	56
Total	309	322	335	348	361	374	387	400	413	426
Total ISF - Diversion System	506	527	549	570	592	613	634	656	677	699
2. Reservoir System										
a. Wet (Cavans)										
Not more than 2 Has.	145,075	151,218	157,360	163,503	169,645	175,788	181,930	188,073	194,215	200,358
Over 2 has but not >5	82,900	86,410	89,920	93,430	96,940	100,450	103,960	107,470	110,980	114,490
Over 5 has.	33,160	34,564	35,968	37,372	38,776	40,180	41,584	42,988	44,392	45,796
Total	261,136	272,192	283,249	294,305	305,362	316,418	327,475	338,531	349,588	360,644
b. Dry (Cavans)										
Not more than 2 Has.	181,530	189,216	196,902	204,588	212,274	219,960	227,646	235,332	243,018	250,704
Over 2 has but not >5	108,918	113,530	118,141	122,753	127,365	131,976	136,588	141,199	145,811	150,423
Over 5 has.	38,899	40,546	42,193	43,840	45,487	47,134	48,781	50,428	52,075	53,722
Total	329,348	343,292	357,237	371,182	385,126	399,071	413,015	426,960	440,905	454,849
In Million Php										
a. Wet										
Not more than 2 Has.	65	68	71	74	76	79	82	85	87	90
Over 2 has but not >5	37	39	40	42	44	45	47	48	50	52

VII.2.1A Projected ISF Billing (5/5) (Scenario 1 - AO 17 ISF Rates)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Over 5 has.	15	16	16	17	17	18	19	19	20	21
Total	118	122	127	132	137	142	147	152	157	162
b. Dry										
Not more than 2 Has.	91	95	98	102	106	110	114	118	122	125
Over 2 has but not >5	54	57	59	61	64	66	68	71	73	75
Over 5 has.	19	20	21	22	23	24	24	25	26	27
Total	165	172	179	186	193	200	207	213	220	227
Total ISF - Reservoir	282	294	306	318	330	342	354	366	378	390
H. Total Projected Billable ISF	788	821	855	888	922	955	988	1,022	1,055	1,088
I. Billing Efficiency	95%	95%	95%	95%	100%	100%	100%	100%	100%	100%
J. Gross Billings	749	780	812	844	922	955	988	1,022	1,055	1,088

VII.2.1B Projected ISF Billing (2001 - 2010) (Scenario 2, 3 and 4 - 1975 ISF Rates)

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
A. Physical Target											
1.0 Service Area, Beg. of Year	678,549	708,549	738,549	768,549	798,549	828,549	858,549	888,549	918,549	948,549	978,549
1.1 New Area Generation	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
1.2 Total Service Area	708,549	738,549	768,549	798,549	828,549	858,549	888,549	918,549	948,549	978,549	1,008,549
a. Wet	77%	77%	77%	77%	77%	77%	77%	77%	77%	77%	77%
b. Dry	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%
1.2 Irrigable Area (Program)											
a. Wet	522,483	545,583	568,683	591,783	614,883	637,983	661,083	684,183	707,283	730,383	753,483
b. Dry	441,057	460,557	480,057	499,557	519,057	538,557	558,057	577,557	597,057	616,557	636,057
2.0 Cropping Intensity 2.1 % Cropping Intensity											
a. Wet	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%
b. Dry	61%	61%	61%	61%	61%	61%	61%	61%	61%	61%	61%
2.2 Planted & Benefitted Area (Has.)	0170	0170	0170	0170	0170	0170	0170	0170	0170	0170	0170
a. Wet	441,057	460,557	480,057	499,557	519,057	538,557	558,057	577,557	597,057	616,557	636,057
b. Dry	413,915	432,215	450,515	468,815	487,115	505,415	523,715	542,015	560,315	578,615	596,915
Total	854,972	892,772	930,572	968,372	1,006,172	1,043,972	1,081,772	1,119,572	1,157,372	1,195,172	1,232,972
B. Distribution of Benefited Area As to System T	уре										
1. % to Total Service Area											
a. Diversion	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%
b. Reservoir	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%
2. Total Benefited Area											
a. Diversion											
a.1 Wet	308,740	322,390	336,040	349,690	363,340	376,990	390,640	404,290	417,940	431,590	445,240
b.2 Dry	289,740	302,550	315,360	328,170	340,980	353,790	366,600	379,410	392,220	405,030	417,840
Total	598,480	624,940	651,400	677,860	704,320	730,780	757,240	783,700	810,160	836,620	863,080
b. Reservoir	,	,			,	,		,	,	,	· · · · ·
a.1 Wet	132,317	138,167	144,017	149,867	155,717	161,567	167,417	173,267	179,117	184,967	190,817
b.2 Dry	124,174	129,664	135,154	140,644	146,134	151,624	157,114	162,604	168,094	173,584	179,074
Total	256,492	267,832	279,172	290,512	301,852	313,192	324,532	335,872	347,212	358,552	369,892

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
C. Irrigation Service Fee (Cavans Per Hectare)											
1. Diversion System											
a. Wet	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
b. Dry	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
2. Reservoir System											
a. Wet	2.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
b. Dry	3.5	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
D. Gov't Support Price (Php)											
Price Per Cavan											
a. Wet	450	450	450	450	450	450	450	450	450	450	450
b. Dry	500	500	500	500	500	500	500	500	500	500	500
E. Projected Revenue											
1. Diversion System											
In Cavans											
a. Wet	617,480	644,780	672,080	699,380	726,680	753,980	781,280	808,580	835,880	863,180	890,480
b. Dry	869,221	907,651	946,081	984,511	1,022,941	1,061,371	1,099,801	1,138,231	1,176,661	1,215,091	1,253,521
Total	1,486,701	1,552,431	1,618,161	1,683,891	1,749,621	1,815,351	1,881,081	1,946,811	2,012,541	2,078,271	2,144,001
In Million Php											
a. Wet	278	290	302	315	327	339	352	364	376	388	401
b. Dry	435	454	473	492	511	531	550	569	588	608	627
Total ISF - Diversion	712	744	775	807	838	870	901	933	964	996	1,027
2. Reservoir System											
In Cavans											
a. Wet	330,793	483,585	504,060	524,535	545,010	565,485	585,960	606,435	626,910	647,385	667,860
b. Dry	434,611	518,658	540,618	562,578	584,538	606,498	628,458	650,418	672,378	694,338	716,298
Total	765,403	1,002,243	1,044,678	1,087,113	1,129,548	1,171,983	1,214,418	1,256,853	1,299,288	1,341,723	1,384,158
In Million Php											
a. Wet	149	218	227	236	245	254	264	273	282	291	301
b. Dry	217	259	270	281	292	303	314	325	336	347	358
Total ISF - Reservoir	366	477	497	517	538	558	578	598	618	638	659
F. Total Billable ISF	1,079	1,221	1,273	1,324	1,376	1,428	1,479	1,531	1,583	1,634	1,686
G. Billing Efficiency	95%	95%	95%	95%	100%	100%	100%	100%	100%	100%	100%
H. Gross Billings	1,025	1,160	1,209	1,258	1,376	1,428	1,479	1,531	1,583	1,634	1,686

VII.2.1B Projected ISF Billing (2001 - 2010) (Scenario 2, 3 and 4 - 1975 ISF Rates)

VII.2.2A Projected ISF Collection (2001 - 2010) (Scenario 1 - AO17 ISF Rates; Compulsory Retirement Only))

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
A. Back Accounts (BA)										
AR-ISF, Begof year	5,008	5,270	5,541	5,821	6,111	6,434	6,766	7,107	7,456	7,812
Coll. Efficiency	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
Collection BA	150	158	166	175	183	193	203	213	224	234
A/R - BA, Year-End	4,858	5,111	5,374	5,646	5,927	6,241	6,563	6,894	7,232	7,578
B. Current Account										
ISF Billings	749	780	812	844	922	955	988	1,022	1,055	1,088
Collection Efficiency	45.0%	45.0%	45.0%	45.0%	45.0%	45.0%	45.0%	45.0%	45.0%	45.0%
ISF Collection	337	351	365	380	415	430	445	460	475	490
A/R - CA, Year-end	412	429	447	464	507	525	544	562	580	599
C. Total ISF Due for Collection	5,757	6,050	6,353	6,665	7,032	7,389	7,755	8,129	8,511	8,901
D. Total ISF Collections	487	509	532	554	598	623	648	673	698	724
E. A/R (CA+BA), Year-end	5,270	5,541	5,821	6,111	6,434	6,766	7,107	7,456	7,812	8,176

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
A. Back Accounts (BA)										
AR-ISF, Begof year	5,008	5,496	5,996	6,508	7,069	7,643	8,227	8,822	9,428	10,044
Coll. Efficiency	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
Collection BA	150	165	180	195	212	229	247	265	283	301
A/R - BA, Year-End	4,858	5,496	5,816	6,313	6,857	7,413	7,980	8,558	9,145	9,743
B. Current Account										
ISF Billings	1,160	1,209	1,258	1,376	1,428	1,479	1,531	1,583	1,634	1,686
Collection Efficiency	45.0%	45.0%	45.0%	45.0%	45.0%	45.0%	45.0%	45.0%	45.0%	45.0%
ISF Collection	522	544	566	619	642	666	689	712	736	759
A/R - CA, Year-end	638	665	692	757	785	814	842	871	899	927
C. Total ISF Due for Collection	6,168	6,705	7,254	7,884	8,497	9,122	9,758	10,405	11,063	11,730
D. Total ISF Collections	672	709	746	814	855	895	936	977	1,018	1,060
E. A/R (CA+BA), Year-end	5,496	5,996	6,508	7,069	7,643	8,227	8,822	9,428	10,044	10,670

VII.2.2B Projected ISF Collection (Scenario 2 - 1975 ISF Rates, Compulsory Retirement Only)

VII.2.2C Projected ISF Collection (Scenario 3 and 4 - 1975 ISF Rates)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
A. Back Accounts (BA)										
AR-ISF, Begof year	5,008	5,496	5,911	6,244	6,523	6,703	6,783	6,766	6,656	6,462
Coll. Efficiency	3%	4%	5%	6%	7%	8%	9%	10%	11%	12%
Collection BA	150	220	296	375	457	536	610	677	732	775
A/R - BA, Year-End	4,858	5,496	5,615	5,869	6,066	6,167	6,173	6,089	5,924	5,686
B. Current Account										
ISF Billings	1,160	1,209	1,258	1,376	1,428	1,479	1,531	1,583	1,634	1,686
Collection Efficiency	45.0%	47.5%	50.0%	52.5%	55.4%	58.3%	61.3%	64.2%	67.1%	70.0%
ISF Collection	522	574	629	722	791	863	938	1,016	1,097	1,181
A/R - CA, Year-end	638	635	629	654	636	616	593	567	538	506
C. Total ISF Due for Collection	6,168	6,705	7,169	7,620	7,951	8,182	8,314	8,348	8,291	8,148
D. Total ISF Collections	672	794	925	1,097	1,248	1,399	1,548	1,692	1,829	1,956
E. A/R (CA+BA), Year-end	5,496	5,911	6,244	6,523	6,703	6,783	6,766	6,656	6,462	6,192

VII.2.3A Projected Personnel Cost

(Scenario 1 and 2 - Compulsary Retirement Only)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
A. No. of Permanent Staff, Beg. Of Year	5,223	5,156	5,106	5,050	4,993	4,861	4,734	4,558	4,415	4,275
Less : Compulsary Retirement	67	50	56	57	132	127	176	143	140	152
Less: Hiring of Replacement	0	0	0	0	0	0	0	0	0	0
Net Retirement During the Year	67	50	56	57	132	127	176	143	140	152
No. of Permanent Staff, End of Year	5,156	5,106	5,050	4,993	4,861	4,734	4,558	4,415	4,275	4,123
Ave. Annual Compensation ('000)	178	178	178	178	178	178	178	178	178	178
Total (In Millions)	918	909	899	889	865	843	811	786	761	734
B. No. of Daily Paid Staff, Beg. Of Year ^{1/}	834	834	834	834	834	834	834	834	834	834
Less : Retrenchment	0	0	0	0	0	0	0	0	0	0
No. of Daily Paid Staff, Year-end	834	834	834	834	834	834	834	834	834	834
Ave. Annual Compensation ('000)	88	88	88	88	88	88	88	88	88	88
Total (In Millions)	73	73	73	73	73	73	73	73	73	73
C. Total P. Cost @ constant 2000 prices	991	982	972	962	939	916	885	859	834	807
Yearly Salary Increase (%)	1.00	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
Price Index	1.05	1.10	1.16	1.22	1.28	1.34	1.41	1.48	1.55	1.63
D. Total P. Costs @ current prices	1,041	1,083	1,126	1,170	1,198	1,228	1,245	1,270	1,294	1,315

VII.2.3B Projected Personnel Cost (Scenario 3 - 1975 ISF Rates; without ERP)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
A. No. of Permanent Staff, Beg. Of Year	5,223	5,223	5,223	5,223	5,223	5,223	5,223	5,223	5,223	5,223
Less : Compulsary Retirement	0	0	0	0	0	0	0	0	0	0
Less:New Hire (Replacement)	0	0	0	0	0	0	0	0	0	0
Net Retirement During the Year	0	0	0	0	0	0	0	0	0	0
No. of Permanent Staff, End of Year	5,223	5,223	5,223	5,223	5,223	5,223	5,223	5,223	5,223	5,223
Ave. Annual Compensation ('000)	178	178	178	178	178	178	178	178	178	178
Total (In Millions)	930	930	930	930	930	930	930	930	930	930
B. No. of Daily Paid Staff, Beg. Of Year $\frac{1}{2}$	834	834	834	834	834	834	834	834	834	834
Less : Retrenchment	0	0	0	0	0	0	0	0	0	0
No. of Daily Paid Staff, Year-end	834	834	834	834	834	834	834	834	834	834
Ave. Annual Compensation ('000)	88	88	88	88	88	88	88	88	88	88
Total (In Millions)	73	73	73	73	73	73	73	73	73	73
C. Total P. Cost @ constant 2000 prices	1003	1003	1003	1003	1003	1003	1003	1003	1003	1003
Yearly Salary Increase (%)	1.00	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
Price Index	1.05	1.10	1.16	1.22	1.28	1.34	1.41	1.48	1.55	1.63
D. Total P. Costs @ current prices	1,053	1,106	1,161	1,219	1,280	1,344	1,411	1,482	1,556	1,634

VII.2.3C Projected Personnel Cost (Scenario 4 - 1975 ISF rates)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
A. No. of Permanent Staff, Beg. Of Year	5,223	5,223	5,223	5,223	5,223	4,731	4,240	4,240	4,240	4,240
Less : Compulsary Retirement		0	0	0	492	491	0	0	0	0
Less: New Hires (Replacement)										
Net Retirement During the Year	0	0	0	0	492	491	0	0	0	0
No. of Permanent Staff, End of Year	5,223	5,223	5,223	5,223	4,731	4,240	4,240	4,240	4,240	4,240
Ave. Annual Compensation ('000)	178	178	178	178	178	178	178	178	178	178
Total (In Millions)	930	930	930	930	842	755	755	755	755	755
B. No. of Daily Paid Staff, Beg. Of Year $\frac{1}{2}$	834	834	834	834	0	0	0	0	0	0
Less : Retrenchment	0	0	0	834	0	0	0	0	0	0
No. of Daily Paid Staff, Year-end	834	834	834	0	0	0	0	0	0	0
Ave. Annual Compensation ('000)	88	88	88	88	88	88	88	88	88	88
Total (In Millions)	73	73	73	0	0	0	0	0	0	0
C. Total P. Cost @ constant 2000 prices	1003	1003	1003	930	842	755	755	755	755	755
Yearly Salary Increase (%)	1.00	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
Price Index	1.05	1.10	1.16	1.22	1.28	1.34	1.41	1.48	1.55	1.63
D. Total P. Costs @ current prices	1,053	1,106	1,161	1,130	1,075	1,011	1,062	1,115	1,171	1,229

VII.2.3D Projected Personnel Cost (Scenario 5 - 1975 ISF rates)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
A. No. of Permanent Staff, Beg. Of Year	5,223	5,223	5,223	5,223	5,223	4,979	4,734	4,734	4,734	4,734
Less : Compulsary Retirement		0	0	0	244	245	0	0	0	0
Less: New Hires (Replacement)										
Net Retirement During the Year	0	0	0	0	244	245	0	0	0	0
No. of Permanent Staff, End of Year	5,223	5,223	5,223	5,223	4,979	4,734	4,734	4,734	4,734	4,734
Ave. Annual Compensation ('000)	178	178	178	178	178	178	178	178	178	178
Total (In Millions)	930	930	930	930	886	843	843	843	843	843
B. No. of Daily Paid Staff, Beg. Of Year $\frac{1}{2}$	834	834	834	834	0	0	0	0	0	0
Less : Retrenchment	0	0	0	834	0	0	0	0	0	0
No. of Daily Paid Staff, Year-end	834	834	834	0	0	0	0	0	0	0
Ave. Annual Compensation ('000)	88	88	88	88	88	88	88	88	88	88
Total (In Millions)	73	73	73	0	0	0	0	0	0	0
C. Total P. Cost @ constant 2000 prices	1003	1003	1003	930	886	843	843	843	843	843
Yearly Salary Increase (%)	1.00	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
Price Index	1.05	1.10	1.16	1.22	1.28	1.34	1.41	1.48	1.55	1.63
D. Total P. Costs @ current prices	1,053	1,106	1,161	1,130	1,131	1,129	1,186	1,245	1,307	1,373

VII.2.4A Projected Personnel Reduction (Scenario 1 and 2 - Compulsory Retirement Only)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
1. Compulsary Retirement										
No. of Staff	67	50	56	57	132	127	176	143	140	152
Ave. Annual Pay Per Staff ('000)	177	177	177	177	177	177	177	177	177	177
Total Annually (In Millions)	12	9	10	10	23	22	31	25	25	27
2. Less: New Hire (Replacement)										
No. of Staff										
Ave. Annual Pay Per Staff ('000)	177	177	177	177	177	177	177	177	177	177
Total Annually (In Millions)	0	0	0	0	0	0	0	0	0	0
3. Daily Paid Staff										
No. of Staff										
Ave. Annual Pay Per Staff ('000)	88	0	0	0	0					
Total Annually (In Millions)	0	0	0	0	0	0	0	0	0	0
Summary:										
Reduction in the No. of Staff	67	50	56	57	132	127	176	143	140	152
Total Cost Reduced (In Millions)	12	9	10	10	23	22	31	25	25	27
Cumulatrive Reduction (In Millions)	12	21	31	41	64	87	118	143	168	195

Assumptions on Personnel Services		Social	Total
	Base	Costs	Pay
Ave. Annual Compensation - P Staff (In Thousands)	127	1.40	178
Ave. Annual Compensation - Daily-Paid (In Thousands)	88	1.00	88

VII.2.4B Projected Personnel Reduction (Scenario 3 - 1975 ISF Rates; without ERP)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
1. Compulsary Retirement										
No. of Staff										
Ave. Annual Pay Per Staff ('000)	177	177	177	177	177	177	177	177	177	177
Total Annually (In Millions)	0	0	0	0	0	0	0	0	0	0
2. Less: New Hiring (Replacement)										
No. of Staff										
Ave. Annual Pay Per Staff ('000)	178	178	178	178	178	178	178	178	178	178
Total Annually (In Millions)	0	0	0	0	0	0	0	0	0	0
3. Daily Paid Staff										
No. of Staff										
Ave. Annual Pay Per Staff ('000)	88	88	88	88	88	88	88	88	88	88
Total Annually (In Millions)	0	0	0	0	0	0	0	0	0	0
Summary:										
Reduction in the No. of Staff	0	0	0	0	0	0	0	0	0	0
Total Cost Reduced (In Millions)	0	0	0	0	0	0	0	0	0	0
Cumulatrive Reduction (In Millions)	0	0	0	0	0	0	0	0	0	0

Assumptions on Personnel Services		Social	Total
	Base	Costs	Pay
Ave. Annual Compensation - P Staff (In Thousands)	127	1.40	178
Ave. Annual Compensation - Daily-Paid (In Thousands)	88	1.00	88

VII.2.4C Projected Personnel Reduction (Scenario 4 - 1975 ISF Rates, with ERP)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
1. Compulsary Retirement										
No. of Staff			0	0	492	491				
Ave. Annual Pay Per Staff ('000)	177	177	177	177	177	177	177	177	177	177
Total Annually (In Millions)	0	0	0	0	87	87	0	0	0	0
2. Less: New Hiring (Replacement)										
No. of Staff										
Ave. Annual Pay Per Staff ('000)	178	178	178	178	178	178	178	178	178	178
Total Annually (In Millions)	0	0	0	0	0	0	0	0	0	0
3. Daily Paid Staff										
No. of Staff	0	0	0	834	0					
Ave. Annual Pay Per Staff ('000)	88	88	88	88	88					
Total Annually (In Millions)	0	0	0	73	0	0	0	0	0	0
Summary:										
Reduction in the No. of Staff	0	0	0	834	492	491	0	0	0	0
Total Cost Reduced (In Millions)	0	0	0	73	87	87	0	0	0	0
Cumulatrive Reduction (In Millions)	0	0	0	73	161	247	247	247	247	247
Assumptions on Personnel Services			Social	Total						

Assumptions on Personnel Services		Social	Total
	Base	Costs	Pay
Ave. Annual Compensation - P Staff (In Thousands)	127	1.40	178
Ave. Annual Compensation - Daily-Paid (In Thousands)	88	1.00	88

VII.2.4D Projected Personnel Reduction (Scenario 5 - 1975 ISF Rates, with ERP)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
1. Compulsary Retirement										
No. of Staff			0	0	244	245				
Ave. Annual Pay Per Staff ('000)	177	177	177	177	177	177	177	177	177	177
Total Annually (In Millions)	0	0	0	0	43	43	0	0	0	0
2. Less: New Hiring (Replacement)										
No. of Staff										
Ave. Annual Pay Per Staff ('000)	178	178	178	178	178	178	178	178	178	178
Total Annually (In Millions)	0	0	0	0	0	0	0	0	0	0
3. Daily Paid Staff										
No. of Staff	0	0	0	834	0					
Ave. Annual Pay Per Staff ('000)	88	88	88	88	88					
Total Annually (In Millions)	0	0	0	73	0	0	0	0	0	0
Summary:										
Reduction in the No. of Staff	0	0	0	834	244	245	0	0	0	0
Total Cost Reduced (In Millions)	0	0	0	73	43	43	0	0	0	0
Cumulatrive Reduction (In Millions)	0	0	0	73	117	160	160	160	160	160
Assumptions on Personnel Services			Social	Total						

	Base	Costs	Pay
Ave. Annual Compensation - P Staff (In Thousands)	127	1.40	178
Ave. Annual Compensation - Daily-Paid (In Thousands)	88	1.00	88

			VII.2.5A Projec	ted Manage	ment Fee					
		(Scena	rio 1 and 2 - Co	mpulsary Re	tirement On	ly)				
I. On-going Projects (Peso Component)										
				Proje	cted Disburs	ement Sched	ule			
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
1 Malitubog-Maridagao IP	58,610	529,657								
2 Kabulnan Irr. & Dev. Proj.	25,000									
3 Pampanga Delta	157,925									
4 Lower Agusan	75,488	369,789								
5 ISIP II	55,204	403,579								
6 Casecnan	155,048	200,000	42,244	83,003						
7 Tarlac Groundwater	40,000	123,700								
8 WRDP	50,993	35,930								
9 Southern Phils. ISP	75,732	272,408	395,485	529,699	200,000	191,908				
10 Bohol Irr. Project	50,000	100,000	213,000	100,000	245,000					
11 San Roque MIP		25,000	300,000	300,000	744,360	780,000	700,000	504,940		
12 Balog Balog ISIP	100,000	600,000	600,000	600,000	2,500,000	2,500,000	2,350,000	1,600,000		
13 Apayao Abulog	200,000	103,222								
14 Adalam Irr. Project	175,000	315,000	264,008							
15 Itbayat Int. Irr. Project	17,000	24,907								
16 Catubig Irr.Project	45,000	45,000	44,096							
17 Dolores Irr Project	80,000	100,000	100,000	101,949						
18 Basey Irr. Project		120,000	120,000	130,000	130,000	118,314				
19 Bulunawan Irr Project	100,000	100,000	55,752							
20 Aulo Irr. Project	30,000	100,000	103,961							
21 Grain Sector		178,786	185,150	185,150	178,148					
22 Small Reservoir Irr Project	78,000	300,000	300,000	300,000	1,000,000	1,371,912	1,402,589	1,300,000	700,000	
23 Repair/Rehab-Groundwater	50,000	200,000	200,000	200,000	657,347	655,422	665,766	439,940	440,455	
24 . Maint. Of NIS & CIS	100,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000
25 Repair/Rehab - Access Rd.	95,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000
26 Repair/Rehab - Drainage.	90,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000
27 FS - Proposed Projects	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
28 Agri-Institutional	30,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
Total	2,034,000	4,856,978	3,533,696	3,139,801	6,264,855	6,227,556	5,728,355	4,454,880	1,750,455	610,000

II. Agrarian Reform Program										
		k		Proje	cted Disburs	ement Sched	ule			
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
1. CARP - Cost Component	213,000	1,810,000	3,622,000	1,810,000					İ	
2. Agri Infra Support	593,000	961,000	824,000	241,000						
3. Agri Reform Comm. DP	377,000	287,000								
Mindanao Sett. Area Dev.	57,000	192,000	353,000	347,000						
Total	1,240,000	3,250,000	4,799,000	2,398,000	0	0	0	0	0	(
III. Summary										
				Proje	cted Disburs	ement Sched	ule			
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
On-Going Projects	2,034,000	4,856,978	3,533,696	3,139,801	6,264,855	6,227,556	5,728,355	4,454,880	1,750,455	610,000
Agrarian Reform Projects	1,240,000	3,250,000	4,799,000	2,398,000	0	0	0	0	0	(
Pipeline projects		433,000	738,637	1,210,069	3,051,627	3,530,136	3,835,602	4,317,210	4,537,630	6,275,050
Total	3,274,000	8,539,978	9,071,333	6,747,870	9,316,482	9,757,692	9,563,957	8,772,090	6,288,085	6,885,050
% Actual Disbursement to Schedule	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%
Projected Actual Releases	2,291,800	5,977,985	6,349,933	4,723,509	6,521,537	6,830,384	6,694,770	6,140,463	4,401,660	4,819,535
Mgt. Cost @ 5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%
Projected Mgt. Fee (In Million Php)	164	299	317	236	326	342	335	307	220	241

VII.2.5B Projected Management Fees (Scenario 3 and 4 - 1975 ISF Rates)

I. On-going Projects (Peso Component)

	Projected Disbursement Schedule									
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
I. On-Going Projects										
1 Malitubog-Maridagao IP	58,610	529,657								
2 Kabulnan Irr. & Dev. Proj.	25,000									
3 Pampanga Delta	157,925									
4 Lower Agusan	75,488	369,789								
5 ISIP II	55,204	403,579								
6 Casecnan	155,048	200,000	42,244	83,003						
7 Tarlac Groundwater	40,000	123,700								
8 WRDP	50,993	35,930								
9 Southern Phils. ISP	75,732	272,408	395,485	529,699	200,000	191,908				
10 Bohol Irr. Project	50,000	100,000	213,000	100,000	245,000					
11 San Roque MIP		25,000	300,000	300,000	744,360	780,000	700,000	504,940		
12 Balog Balog ISIP	100,000	600,000	600,000	600,000	2,500,000	2,500,000	2,350,000	1,600,000		
13 Apayao Abulog	200,000	103,222								
14 Adalam Irr. Project	175,000	315,000	264,008							
15 Itbayat Int. Irr. Project	17,000	24,907								
16 Catubig Irr.Project	45,000	45,000	44,096							
17 Dolores Irr Project	80,000	100,000	100,000	101,949						
18 Basey Irr. Project		120,000	120,000	130,000	130,000	118,314				
19 Bulunawan Irr Project	100,000	100,000	55,752							
20 Aulo Irr. Project	30,000	100,000	103,961							
21 Grain Sector		178,786	185,150	185,150	178,148					
22 Small Reservoir Irr Project	78,000	300,000	300,000	300,000	1,000,000	1,371,912	1,402,589	1,300,000	700,000	
23 Repair/Rehab-Groundwater	50,000	200,000	200,000	200,000	657,347	655,422	665,766	439,940	440,455	
24 . Maint. Of NIS & CIS	100,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000
25 Repair/Rehab - Access Rd.	95,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000
26 Repair/Rehab - Drainage.	90,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000
27 FS - Proposed Projects	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
28 Agri-Institutional	30,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
Total	2,034,000	4,856,978	3,533,696	3,139,801	6,264,855	6,227,556	5,728,355	4,454,880	1,750,455	610,000

II. Agrarian Reform Program

5 5	Projected Disbursement Schedule									
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
1. CARP - Cost Component	213,000	1,810,000	3,622,000	1,810,000						
2. Agri Infra Support	593,000	961,000	824,000	241,000						
3. Agri Reform Comm. DP	377,000	287,000								
Mindanao Sett. Area Dev.	57,000	192,000	353,000	347,000						
Total	1,240,000	3,250,000	4,799,000	2,398,000	0	0	0	0	0	0

III. Summary

			Project	a d Dialessa					
			FIUJECI	ed Dispurse	ement Sche	dule			
2,034,000	4,856,978	3,533,696	3,139,801	6,264,855	6,227,556	5,728,355	4,454,880	1,750,455	610,000
1,240,000	3,250,000	4,799,000	2,398,000	0	0	0	0	0	0
	433,000	738,637	1,210,069	3,051,627	3,530,136	3,835,602	4,317,210	4,537,630	6,275,050
3,274,000	8,539,978	9,071,333	6,747,870	9,316,482	9,757,692	9,563,957	8,772,090	6,288,085	6,885,050
70%	70%	70%	70%	70%	70%	70%	70%	70%	70%
2,291,800	5,977,985	6,349,933	4,723,509	6,521,537	6,830,384	6,694,770	6,140,463	4,401,660	4,819,535
5%	5%	7%	7%	7%	7%	7%	7%	7%	7%
115	299	444	331	457	478	469	430	308	337
	3,274,000 70% 2,291,800 5%	$\begin{array}{c ccccc} 1,240,000 & 3,250,000 \\ & & 433,000 \\\hline 3,274,000 & 8,539,978 \\\hline 70\% & 70\% \\ 2,291,800 & 5,977,985 \\ 5\% & 5\% \\\hline \end{array}$	$\begin{array}{c cccccc} 1,240,000 & 3,250,000 & 4,799,000 \\ & & 433,000 & 738,637 \\ \hline 3,274,000 & 8,539,978 & 9,071,333 \\ \hline 70\% & 70\% & 70\% \\ 2,291,800 & 5,977,985 & 6,349,933 \\ 5\% & 5\% & 7\% \\ \hline \end{array}$	1,240,000 3,250,000 4,799,000 2,398,000 433,000 738,637 1,210,069 3,274,000 8,539,978 9,071,333 6,747,870 70% 70% 70% 70% 2,291,800 5,977,985 6,349,933 4,723,509 5% 5% 7% 7%	1,240,000 3,250,000 4,799,000 2,398,000 0 433,000 738,637 1,210,069 3,051,627 3,274,000 8,539,978 9,071,333 6,747,870 9,316,482 70% 70% 70% 70% 70% 2,291,800 5,977,985 6,349,933 4,723,509 6,521,537 5% 5% 7% 7% 7%	1,240,000 3,250,000 4,799,000 2,398,000 0 0 0 433,000 738,637 1,210,069 3,051,627 3,530,136 3,274,000 8,539,978 9,071,333 6,747,870 9,316,482 9,757,692 70% 70% 70% 70% 70% 70% 70% 2,291,800 5,977,985 6,349,933 4,723,509 6,521,537 6,830,384 5% 5% 7% 7% 7% 7%	1,240,000 3,250,000 4,799,000 2,398,000 0	1,240,000 3,250,000 4,799,000 2,398,000 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

VII.2.6 National Irrigation Administration

Projected CIS Amortization Collection

		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	
A/R-CIS, Beg. Balance		340	242	184	149	128	115	108	103	101	99	
Add: Billing		64	64	64	64	64	64	64	64	64	64	
Total Due For Collection		404	307	248	213	192	180	172	168	165	163	
Less: Collection												
Back Account (old)	40%	136	97	74	60	51	46	43	41	40	40	
Current Account	40%	26	26	26	26	26	26	26	26	26	26	
Total Collection	-	162	123	99	85	77	72	69	67	66	65	
A/R-CIS, End Balance	-	242	184	149	128	115	108	103	101	99	98	

Source: JICA Study Team

REFERENCE DATA VII.3

Personnel Data (Functions of NIA's Offices)

VII.3.1	Main	Functions	of NIA's	Central	Office (1/6)
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		M · F · ·
	Organizational Unit	Main Functions
<u>A.</u>		
1.	Board of Directors	- Formulate and adopt policies for the management and operation of the NIA
		- Recommend to the President of the Philippines the appointment of a Deputy Administrator and number of Assistant Administrators
		- Approve, subject to final action of the President, the annual and/or supplemental budget of the NIA
2.	Office of the Administrator	- Execute and implement the policies, orders and resolutions approved by the NIA Board, in
		accordance with the provisions of RA 3601 as amended by PD No.552.
		- As the Chief Executive of the NIA, oversee, direct, and supervise its various operations
		Provide legal assistance to the Administrator and the Board of Directors
		· Responsible for the overall security of the Agency
3.	Office of the Deputy Administrator	- Assist the Administrator in planning, organizing and directing the activities of the Agency
		- Act in place of the Administrator in the latter's absence
4.	Corporate Planning Group	 Provide advice and recommendations in the determination of long-term corporate objectives based on national development policies
	(1) Corporate Planning Staff	- Undertake policy studies and formulation based on corporate objectives and functions
	(2) Programming Division	' Formulate/develop criteria and guidelines in the preparation of the NIA Infrastructure
	(2) 110gramming 21115101	Program in relation to overall objectives
	1) Programming and Coordinating Section	 Prepare and periodically update the consolidated annual, short, medium and long range
	2) Programs Evaluat. and Reporting Section	irrigation development program of the NIA based on national goals and objectives
		Prepare periodic and annual program reports for management guidance and as may be
		required by higher authorities and other government agencies
		 Prepare inventory of all existing systems and possible projects, including its periodic
	(3) Management Information System Division	Prepare inventory of all existing systems and possible projects, including its periodic Overlop and maintain an integrated management information system for the NIA
	(3) Management Information System Division	
	1) Electronic Data Processing (EDP) Section	Consolidate and monitor plans, programs and activities of the NIA
	2) Information Management Section	· Analyze data gathered on accomplishment versus plans and programs
		Compile, collate, update, and disseminate statistical data relevant to the NIA plans and
		- Provide guidelines in the preparation of NIA's irrigation development plans and programs i
		coordination with other government agencies and NIA line officials - Consolidate and integrate departmental and regional office plans in accordance with the
		total corporate objectives
		- Evaluate information on corporate performance against targets
5		
5.	Public Affairs and Information Staff (PAIS)	- Develop and administer a comprehensive communications program and implement strategies for the dissemination of information concerning NIA through various media
5.	Public Affairs and Information Staff (PAIS)	strategies for the dissemination of information concerning NIA through various media
5.	Public Affairs and Information Staff (PAIS)	strategies for the dissemination of information concerning NIA through various media Plan, prepare and produce various multi-media materials such as publications, audio-
5.	Public Affairs and Information Staff (PAIS)	strategies for the dissemination of information concerning NIA through various media Plan, prepare and produce various multi-media materials such as publications, audio- visuals, print and broadcast materials to support the communications program of the
		 strategies for the dissemination of information concerning NIA through various media Plan, prepare and produce various multi-media materials such as publications, audio- visuals, print and broadcast materials to support the communications program of the Conceptualize and develop a comprehensive communications plan for the Agency
	Project Development and Implementation	 strategies for the dissemination of information concerning NIA through various media Plan, prepare and produce various multi-media materials such as publications, audio- visuals, print and broadcast materials to support the communications program of the Conceptualize and develop a comprehensive communications plan for the Agency n (PDI) Sector
B.	Project Development and Implementation	 strategies for the dissemination of information concerning NIA through various media Plan, prepare and produce various multi-media materials such as publications, audio- visuals, print and broadcast materials to support the communications program of the Conceptualize and develop a comprehensive communications plan for the Agency n (PDI) Sector Assist the Administrator in planning, organizing, directing and controlling the project development, design and specifications and construction management activities of the NIA
B.	Project Development and Implementation	strategies for the dissemination of information concerning NIA through various media Plan, prepare and produce various multi-media materials such as publications, audio- visuals, print and broadcast materials to support the communications program of the Conceptualize and develop a comprehensive communications plan for the Agency n (PDI) Sector - Assist the Administrator in planning, organizing, directing and controlling the project
<u>B.</u> 1.	Project Development and Implementation	 strategies for the dissemination of information concerning NIA through various media Plan, prepare and produce various multi-media materials such as publications, audio- visuals, print and broadcast materials to support the communications program of the Conceptualize and develop a comprehensive communications plan for the Agency n (PDI) Sector Assist the Administrator in planning, organizing, directing and controlling the project development, design and specifications and construction management activities of the NIA Review plans, programs and proposals of departments supervised for adherence to policies
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<u>B.</u> 1.	Project Development and Implementation Office of the Assistant Administrator Office of the Assistant Administrator Project Development Department (PDD) (1) Project Investigation Division 1) Project Identification Section 2) Surveys and Mapping Section 3) Geology Section 4) Drainage Section (2) Water Resources Utilization Division	 strategies for the dissemination of information concerning NIA through various media Plan, prepare and produce various multi-media materials such as publications, audio- visuals, print and broadcast materials to support the communications program of the Conceptualize and develop a comprehensive communications plan for the Agency n (PDI) Sector Assist the Administrator in planning, organizing, directing and controlling the project development, design and specifications and construction management activities of the NIA Review plans, programs and proposals of departments supervised for adherence to policies and standards; evaluate their performance against targets Formulate and develop short and long-range plans, programs and proposals for developmer of feasible irrigation and related water resources projects Identify and submit to appropriate authorities aggregate program and funding requirements of projects for investigation, feasibility studies and implementation Undertake engineering, agricultural and economic investigations and studies for multi-purpose water resources development projects and other irrigation projects proposed for foreign financing to determine their technical, economic, financial, social and environmental feasibility Prepare loan proposals, terms of reference and other documents necessary for obtaining financial and technical assistance in connection with project preparation and Formulate guidelines and standards in the conduct of reconnaissance grade survey, investigation of proposed irrigation and water resources projects. Undertake the investigation, collection, integration and evaluation of planning data to determine the technical feasibility of projects identified for foreign financing Prepare aggregate program proposals for general investigation covering national, communal, pump and other water resources projects. Undertake the investigation, collection, inte
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Organizational Unit	Main Functions
	 Prepare guidelines, procedures and programs for the design, construction and operation of groundwater wells
(3) Land Resource Utilization Division	· Assess land resources and analyze agricultural and economic parameters
1) Land Classification Section	· Consolidate and evaluate results of land classification survey conducted by the regional
2) Agricultural Land Use Section 3) Economic Section	· Undertake economic and financial feasibility studies
(4) Plan Formulation Division	 Prepare project plans for both single-purpose and multi-purpose irrigation and water resources development projects to be proposed for foreign financing
1) Dams and Reservoirs Section	Prepare loan proposals for project financing and technical assistance by foreign lending
2) Irrigation Works Section	institutions and attend to all activities pertinent thereto
3) Feasibility Records Section	
4) Environmental Studies Section 5) Drafting Section	
3. Design & Specifications Department (DSD)	 Develop design criteria; prepare detailed specifications for civil works, construction materials and supplies, water control gates and other metal works used in irrigation projects
	 Prepare preliminary and/or detailed final designs and estimates of facilities and structures of proposed irrigation projects for foreign financing; review plans, drawings and specifications
	- Attend to all activities pertaining to the pre-qualification of bidders and analysis of bids for recommendation/ submittal to domestic and international bidding committees
	- Undertake the drafting of detailed working drawings of irrigation/ drainage, architectural and mechanical/ electrical structures designed at the Central Office
(1) Civil Works Design Division	 Formulate and develop design criteria, guidelines and procedures for dissemination to field offices
1) Design Research Section 2) Civil Works Design Section	 Undertake complete design of dams and reservoirs, major hydraulic structures and others, and prepare their quantity estimates
3) Mechanical-Electrical Design Section	• Review final irrigation/ drainage networks or layout submitted by field offices
	Coordinate with field offices in developing their requisite irrigation and drainage design capabilities
(2) Architecture and Drafting Division	Develop drafting standards for agency-wide use
1) Architectural Section 2) Civil Works Drafting Section	Coordinate and undertake the preparation of working drawings of civil works/mechanical and electrical works designed in the Central Office
3) Mechanical-Electrical Drafting Section 4) Civil Works Drafting Section	 Coordinate and undertake the design and preparation of plans for building projects or project facilities
5) Mechanical-Electrical Drafting Section	Review and/or modify working drawings/ architectural plans submitted by field offices
(3) Specifications Division	 Prepare and develop technical specifications for irrigation/ drainage works for dissemination to field offices
 Specifications Section Prequalification and Evaluation section 	 Prepare detailed technical specifications for civil works, construction materials, supplies and services for irrigation projects proposed for foreign financing
3) Equipment Management Department	 Attend to all activities pertaining to the pre-qualification of bidders and analysis of bids for recommendation/ submittal to domestic or international bidding committees
4. Construction Management Department (CMD)	 Undertake all pre-implementation and other complimentary activities including planning and scheduling of foreign-assisted projects approved and programmed for construction
	 Review proposed construction schedules and programs of work, job order systems, cost estimates and procurement schedules of projects ready for implementation or which are presently under construction
	- Formulate working policies, standards, materials testing and construction control techniques for implementation in the field offices
	 Monitor and evaluate all monthly progress reports and status of construction activities undertaken by field offices; prepare periodic and consolidated reports on the progress of construction of all irrigation projects
(1) Construction Planning and Scheduling Division	Prepare master plan for implementation of national irrigation and related water resources projects
1) Implementation Planning Section	· Formulate plans for the implementation of foreign-assisted projects
2) Programs and Funds Management Section 3) Estimates Section	 Review proposed programs of work and construction schedules for force accounts work in national irrigation projects submitted by field offices
	 Review/ update the overall project cost estimates submitted by field offices for national projects
(2) Contract Administration Division	Review/ evaluate construction schedules, contractors' claims, statistical and progress reports submitted by contractors/ field offices
1) Contract Management Section 2) Contract Adjustment and Claims Section	 Formulate guidelines in the processing of contractor's claims to facilitate payment and monitor same to field offices
	· Coordinate the delivery of NIA furnished construction logistics contracts
(3) Project Monitoring and Evaluation Division 1) Project Evaluation Section	Continuously improve project monitoring system
2) Monitoring and Reports Section	Prepare periodic progress reports for all national projects
3) Materials Testing and Control Group	

VII.3.1 Main Functions of NIA's Central Office (2/6)

VII.3.1 Main	Functions	of NIA's	Central	Office	(3/6)
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Organizational Unit	Main Functions
5. Special Project Staff	- Maintain a pool of project managers from which to draw future project managers who shall, for the meantime that they are without special projects, develop schemes and various approaches to improve the management and implementation of special projects
	 Undertake the final phases of construction of a project to expedite completion and turnover of the system to operation sector and shorten transition period
	- Supervise the transition completed of major projects from construction to operation
	- Lead a task force to expedite prosecution of project or bring the project within schedule
	- Responsible for organizing resources needed to set the machinery moving for a major
	project identified for prosecution
C. Systems Operation and Equipment Managemen	
1. Office of the Assistant Administrator	 Assist the Administrator in planning, organizing, directing and controlling all activities pertinent to the management of irrigation systems to ensure proper operation maintenance, repair and improvement
	 Review plans, programs and proposals regarding the implementation of the agricultural phase of a project; review strategies, plan and programs for the formation and development of irrigators' associations in national and communal systems/ projects
	 Review plans and programs for assistance to farmers to enable irrigators' associations to take over management of systems/parts of systems
	 Monitor performance of dams and major structures of an irrigation system to ensure efficiency of said structures
	- Supervise the final phases or completion of major national projects to expedite turnover and shorten transition period from project to system
2. Systems Management Department (SMD)	- Provide assistance and advice on the operation, maintenance, repair and improvement of irrigation systems
	 Review annual plans and programs submitted by field offices on the management of irrigation systems
	 Prepare consolidated annual program including financial requirements for operation, maintenance, repair and rehabilitation of systems
	- Review plans and programs on training of irrigation system personnel
	 Develop plans for the conduct of irrigation research to maintain irrigation structures and facilities, improve management of systems and increase irrigation area
(1) Operation and Maintenance Division	Prescribe guidelines, standards and procedures for the proper operation and maintenance of irrigation systems; review and evaluate their implementation
1) O&M Section A	 Review annual plans and programs of target area for irrigation, drainage, and level production
2) O&M Section B 3) Training Section	 Prepare comprehensive annual report per system on the status of water management as well as the efficiency of the physical structures in water utilization
	 Evaluate crop production reports and review recommendation for exemption from payment of irrigation fees
(2) Rehabilitation Division	Develop policies and guidelines for the intensive training of &M personnel Formulate standards, guidelines and procedures for the repair and improvement of damaged avieting structures and facilities in all national irrigation systems
1) Rehabilitation Section A	existing structures and facilities in all national irrigation systems · Review and evaluate plans, programs and financial requirements submitted by field offices
2) Rehabilitation Section B	for the repair and improvement of structures and facilities
	 Review and consolidate statistics on repair and improvement work for the preparation of periodic reports and overall plans and programs
(3) Research and Development Division	Develop plans for the conduct of irrigation research for the improvement of service, proper
1) Research Planning & Evaluation Section	operation and maintenance of irrigation structures and facilities
2) Research Outputs Application Section	 Exercise functional supervision over research stations/ laboratories in the field offices Evaluate, package and disseminate approved research findings/ results and related developments for utilization in irrigation systems
3. Institutional Development Department (IDD)	 Formulate policies, strategies to prepare irrigator's for their eventual takeover and management of irrigation systems
	 Develop plans and programs for rendering assistance to irrigators Supervise and coordinate activities of all regional water management training centers/ units
(1) Irrigators' Organization and Training Division	 Monitor and evaluate the implementation and effectiveness of NIA's assistance program Formulate strategies and develop guidelines in the organization of irrigators' association and their consequent takeover of irrigation systems
	 Review plans submitted by field offices for the organization of irrigators and revitalization of organized associations Provide technical assistance in the conduct of training programs for irrigators and operation
	and maintenance personnel and evaluate the effectiveness of such training program
(2) Irrigators' Assistance Division	 Develop plans and programs to assist irrigators attain high production level Review plans and programs prepared by field offices and monitor and evaluate the propriety, adequacy and effectiveness of their assistance to farmer irrigators
	 Collect information on proven and accepted methods of increased farm productivity for dissemination to field offices

VII.3.1 Mair	Functions	of NIA's	Central	Office (4/6)
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Organizational Unit	Main Functions
4. Equipment Management Department (EMD)	 Plan and administer a comprehensive Agency program for the acquisition, deployment, maintenance and repair of construction equipment, irrigation pumps, drilling rigs, mechanical-electrical plants, transport and communications equipment
	 Formulate, update and disseminate policies, guidelines and procedures on equipment management; monitor and evaluate all field activities
	- Prepare technical specifications and cost estimates of construction and shop equipment to be acquired by the Agency
	 Undertake field inspection to evaluate equipment and pumps recommended for disposal, field shop facilities, operations and maintenance activities, newly acquired equipment, spare parts and tools; undertake repair of equipment brought to Central Office
	 Prepare the plans and designs and undertake the installation, repair, operation and maintenance of well drilling equipment, mechanical plants and structure, electrical plants and communication equipment
(1) Equipment Planning & Specifications Division	 Plan and program the acquisition and distribution of equipment to projects and systems; prepare the annual financial requirement to support the equipment management program
1) Planning and Programming Section 2) Specifications Section	 Formulate rules and regulations governing the lease of equipment and review periodically the existing rental rate structure of all equipment and update same when necessary
3) Utilization Evaluation and Statistics Section	Prepare technical specifications and estimates for the acquisition of all equipment Maintain and consolidate technical documents, manuals, references and materials
(2) Equipment Insp. and Repair Logistics Division	 Conduct field inspection to check on operation and maintenance activities, review equipment recommended for disposal, determine adequacy of field shop facilities and so on
1) Equipment Inspection Section 2) Field Shop Inspection Section	 Undertake technical inspection of all equipment, machineries, spare parts and tools delivered to Central Office
3) Equipment Tool & Repair Section 4) Repair Programming & Evaluation Section	 Prepare guidelines and standards, informational and instruction materials on proper operation and maintenance of equipment and vehicles
	 Review, evaluate and program quarterly repair work by Region Maintain adequate supply of fast-moving spare parts, control releases thereof and maintain running inventory of parts available in stock
(3) Special Equipment Operation Division	 ¹ Undertake the operation of the Central Office Equipment Pool and repair shop ¹ Prepare guidelines and standards in The o/M of well-drilling equipment, mechanical plants and structures, electrical plants and communication equipment
 Mechanical Plants and Structures Section Electrical and Communication Section 	 Prepare the plans and specifications for bid requirement for mechanical plant and structures running plants, communication system and equipment, etc.
3) Groundwater Equipment Planning and Logistics Section	 Supervise the operation and maintenance of drilling equipment and provide mechanical support for drilling operation as well as in the repair of drilling rigs and allied equipment
4) Field Drilling Operation Section	 Supervise the installation of mechanical plant and structure, pumping plants, electrical plants and communication system; monitor and evaluate operation and provide its technical
5. Special Project Staff	 Maintain a pool of project managers from which to draw future project managers who shall, for the meantime that they are without special projects, develop schemes and various approaches to improve the management and implementation of special projects
	 Undertake the final phases of construction of a project to expedite completion and turnover of the system to operation sector and shorten transition period
	- Supervise the transition completed of major projects from construction to operation
	 Lead a task force to expedite prosecution of project or bring the project within schedule Responsible for organizing resources needed to set the machinery moving for a major project identified for prosecution
D. Administrative Services Sector 1. Office of the Assistant Administrator	- Advise and assist the Administrator in planning, organizing, directing and controlling the
	administrative services of the corporation - Review plans, programs and proposals of department supervised for adherence to policies and standards; evaluate their performance against targets
2. Personnel & Records Management Dept.	- Plan, develop and implement short and long-range personnel management and development
	 Develop and administer plans and programs on personnel recruitment, motivation, utilization, and performance appraisal; implement the duly approved NIA position classification and pay plans; and administer employee benefits
	 Plan, develop and integrate a comprehensive training and development program for NIA personnel
	- Administer the central records system of the Agency
(1) Personnel Division 1) Recruitment and Appointment Section	 Plan and develop personnel management programs and policies Implement approved programs on recruitment, selection and placement of personnel
2) Employee Welfare Section 3) Salary Administration and Standards Section	 Implement approved programs on recruitment, selection and placement of personnel Implement employee benefits and welfare service program; process applications and claims covered by the program
(2) Records Management Division	 Maintain liaison with the Civil Service Commission, DBM, GSIS on personnel matters Formulate, recommend and implement policies and guidelines for a system-wide records
1) Receiving and Mailing Section	 Maintain liaison with the Civil Service Commission, DBM, GSIS on personnel matters Formulate, recommend and implement policies and guidelines for a system-wide records Receive and release correspondence, documents, air cargoes, checks, etc.
1) Receiving and Mailing Section 2) Mailing and Courier Section 3) Maintenance and Disposal Section	 Maintain liaison with the Civil Service Commission, DBM, GSIS on personnel matters Formulate, recommend and implement policies and guidelines for a system-wide records
 Receiving and Mailing Section Mailing and Courier Section 	 Maintain liaison with the Civil Service Commission, DBM, GSIS on personnel matters Formulate, recommend and implement policies and guidelines for a system-wide records Receive and release correspondence, documents, air cargoes, checks, etc. Develop and maintain a uniform filing system for the Agency

VII.3.1	Main	Functions	of NIA's	Central	Office (5/6	5)
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Organizational Unit	Main Functions
3. Legal Department (LD)	 Assist management in the development/ formulation of policies and regulations pertaining to matters affecting the NIA; provide legal services for the protection of corporate rights, interest and property
	 Prepare/ review contracts and legal instruments Conduct administrative investigations; assist the Solicitor General in prosecuting cases
(1) Litigation Division	 where the NIA is a party Conduct administrative investigations or review administrative charges against employees of the NIA
1) Judicial Cases Section 2) Administrative Cases Section	 Assist in promulgating rules governing activities of the NIA Assist the Solicitor-General in court litigation where the NIA is involved
(2) Contracts Division	' Interpret laws and rules affecting the operations of the NIA
1) Documentation Section 2) Research Section	 Prepare contracts and instruments beyond the authority of the field offices; interpret provisions of contracts covering works performed for the NIA by private entities
	 Prepare comments and proposed legislations concerning NIA
4. Procurement & Physical Resources Dept. (PPRD)	 Assist management in the development/ formulation of policies and regulations pertaining to procurement, property and management of physical resources of the Agency
	 Undertake the procurement of office equipment, supplies and materials; and the procurement of construction materials, supplies, equipment, spare parts and contract services when the same are not available in the field
	- Attend to all matters pertaining to importation requirements including customs clearance
	for the procurement of imported supplies, materials and equipment - Develop plans and programs for the proper control, utilization and safekeeping of all NIA
	property, excluding construction equipment
	 Plan and implement a program of building and facilities maintenance, repair and improvement
(1) Procurement Division	 Prepare consolidated annual procurement program; simplify procedures on the procurement of goods and services
1) Purchasing Section 2) Importation and Trade Section	 In collaboration with the Committee on bids and Awards, undertake the procurement of common construction materials, supplies, equipment, spare parts and contract services
3) Monitoring and Service Section	 Attend to all matters pertaining to importation requirements including opening of LCs; coordinate with Controllership Department in the preparation of withdrawal applications for supplies contracts for submission to lending institutions
	 Prepare and issue motions and/or invitations to bids; schedule bids for the procurement of construction materials, equipment and supplies
(2) Property Division	 Implement approved policies, rules and regulations and procedures on property and inventory management
 Inventory and Disposal Section Warehousing and Shipping Section 	 Direct and/or coordinate receipt, movement, storage, issuance, disposition and control of supplies, materials, equipment and spare parts in the Central Office
3) Customs and Forwarding Section	' Maintain prescribed records of all NIA properties and employees having accountabilities
4) Motorpool Section 5) Security Section	 Review periodic status reports on inventory of office equipment, materials and supplies of field offices, make spot check, if necessary, and recommend transfer, reallocation or disposal of non-moving items
	 Determine adequacy and arrange for the insurance of NIA properties, bonding of accountable officers and means of minimizing risks
(3) Building and Facilities Maintenance Division	 Plan and implement program of building and facilities maintenance, repair and improvement
1) Civil Works Section	· Prepare manuals for operation and maintenance of buildings and facilities
2) Electrical and Communication Section 3) Mechanical Works Section	 Undertake the installation, maintenance, repair, renovation and beautification of compound/facilities of the NIA Central Office
	 Formulate, recommend and enforce rules and regulations regarding the use of building facilities; make periodic reports to management on fees and rentals collected from use of such facilities
(4) Civil Security Affairs Division	Responsible for the overall security of the Agency
E. Finance and Management Sector 1. Office of the Assistant Administrator	Assist the Administrator in planning association disasting or departmenting the first in the first in the first in the first in the first interval of the
1. Office of the Assistant Administrator	 Assist the Administrator in planning, organizing, directing and controlling the financial and management activities of the Agency to achieve optimum utilization of its resources and increase corporate income
	- Review plans, programs and proposals of departments supervised for adherence to policies and standards; evaluate their performance against targets
	- Exercise functional supervision over field offices in matters pertaining to his areas of concern
2. Controllership Department (CD)	- Direct and/or oversee monthly assessment of financial operations of the NIA to effect better financial management
	 Direct the processing and recording of all financial transactions and the preparation and analysis of individual and consolidated financial statements
	 Institute improvements in the accounting system and in financial controls consistent with the needs of management and administrative, accounting and auditing laws, rules and regulations
	- Establish and maintain a cost accounting system

Organizational Unit	Main Functions
(1) Conservation - Dissiplinar	
(1) General Accounting Division	 Maintain Central Office Books of Accounts including basic and subsidiary accounting records to reflect accurate and current financial information required by NIA management
	and by existing auditing rules and regulations
1) Bookkeeping Section	Process vouchers and payrolls and prepare bills for CO receivables
2) Disbursement Processing Section	Prepare and submit financial statements and other accounting reports to management and
3) Billing and Miscellaneous Section	other agencies authorized to receive such reports
4) analysis and Reports Section	
(2) Budget Division	' Prepare the overall budget in support of the operations, plans and programs of the Agency
	' Issue and control sub-allotment advices and cash disbursement ceilings by responsibility
	· Prepare physical report of operations of current operating expenditures and other budgetary
	reports for management information
	Develop and improve budgetary methods and procedures
(3) Foreign Loan Accounting Division	' Maintain and accurate and current record of financial transactions in each foreign-assisted
	project
	' Prepare application for withdrawal of loan availments from the different lending
	institutions
1) Cost Accounting Section	' Maintain an updated record of loan availments for each foreign-assisted project, control
2) Foreign Loan Accounting Section	loan utilization by category as prescribed by the loan agreement and prepare revision of
	loan reallocation if necessary; prepare financial reports relative to loan utilization of each
	foreign-assisted project
3. Management Services Department (MSD)	- Provide top management with advice on the maximum utilization of resources
	- Prepare the Agency's physical and financial program for irrigation development based on
	approved plans
	- Develop plans and programs relative to improvement of the administrative organization;
	undertake regular management surveys; review existing methods, procedures and systems
	and make recommendations for improvement
	- Develop an integrated management information system to meet the information
	requirement of the NIA
	- Undertake management audits to evaluate adequacy of internal controls and to institute
	safeguards for the Agency's assets
(1) Organization and Methods Division	Develop staffing standards and manpower requirements
1) Methods & Procedures Section	Conduct periodic systems and procedures audit of field offices to identify deviation from
2) Organization and Standards Section	
2) Organization and Standards Section	standard operating procedure
	Review/ edit memorandum circulars & office orders prepared by the different
	organizational units to ensure consistency of content with existing policies, rules &
	Undertake the preparation and updating of organization and systems and procedures
	manuals
	Develop, recommend for implementation and monitor the Agency cost reduction program
	on a continuing basis
(2) Management Audit Division	' Review internal control systems for safeguarding money and property to ascertain
(2) Management Audit Division	 Review internal control systems for safeguarding money and property to ascertain weaknesses and deficiencies requiring correction
(2) Management Audit Division CO Audit and Special Audit Section 	
	weaknesses and deficiencies requiring correction
1) CO Audit and Special Audit Section 2) Field Audit Section	weaknesses and deficiencies requiring correction Conduct fiscal and/or property audits as necessary Check and monitor compliance with memorandum circulars
1) CO Audit and Special Audit Section	 weaknesses and deficiencies requiring correction Conduct fiscal and/or property audits as necessary Check and monitor compliance with memorandum circulars Develop plans and programs for a more effective and efficient management of NIA funds;
1) CO Audit and Special Audit Section 2) Field Audit Section	 weaknesses and deficiencies requiring correction Conduct fiscal and/or property audits as necessary Check and monitor compliance with memorandum circulars Develop plans and programs for a more effective and efficient management of NIA funds; formulate schemes or proposals to generate more income
1) CO Audit and Special Audit Section 2) Field Audit Section	 weaknesses and deficiencies requiring correction Conduct fiscal and/or property audits as necessary Check and monitor compliance with memorandum circulars Develop plans and programs for a more effective and efficient management of NIA funds; formulate schemes or proposals to generate more income Undertake the payment of obligations and the receipt of collections in the Central Office
1) CO Audit and Special Audit Section 2) Field Audit Section	weaknesses and deficiencies requiring correction Conduct fiscal and/or property audits as necessary Check and monitor compliance with memorandum circulars Develop plans and programs for a more effective and efficient management of NIA funds; formulate schemes or proposals to generate more income Undertake the payment of obligations and the receipt of collections in the Central Office Undertake studies to improve the strategies of revenue collections including simplification
1) CO Audit and Special Audit Section 2) Field Audit Section	 weaknesses and deficiencies requiring correction Conduct fiscal and/or property audits as necessary Check and monitor compliance with memorandum circulars Develop plans and programs for a more effective and efficient management of NIA funds; formulate schemes or proposals to generate more income Undertake the payment of obligations and the receipt of collections in the Central Office Undertake studies to improve the strategies of revenue collections including simplification of existing procedures on billing and collections
1) CO Audit and Special Audit Section 2) Field Audit Section	 weaknesses and deficiencies requiring correction Conduct fiscal and/or property audits as necessary Check and monitor compliance with memorandum circulars Develop plans and programs for a more effective and efficient management of NIA funds; formulate schemes or proposals to generate more income Undertake the payment of obligations and the receipt of collections in the Central Office Undertake studies to improve the strategies of revenue collections including simplification of existing procedures on billing and collections Analyze collection efficiency of each system and develop a system of incentive bonus for
1) CO Audit and Special Audit Section 2) Field Audit Section 4. Treasury Department (TD)	 weaknesses and deficiencies requiring correction Conduct fiscal and/or property audits as necessary Check and monitor compliance with memorandum circulars Develop plans and programs for a more effective and efficient management of NIA funds; formulate schemes or proposals to generate more income Undertake the payment of obligations and the receipt of collections in the Central Office Undertake studies to improve the strategies of revenue collections including simplification of existing procedures on billing and collections Analyze collection efficiency of each system and develop a system of incentive bonus for outstanding collection performance
1) CO Audit and Special Audit Section 2) Field Audit Section	 weaknesses and deficiencies requiring correction Conduct fiscal and/or property audits as necessary Check and monitor compliance with memorandum circulars Develop plans and programs for a more effective and efficient management of NIA funds; formulate schemes or proposals to generate more income Undertake the payment of obligations and the receipt of collections in the Central Office Undertake studies to improve the strategies of revenue collections including simplification of existing procedures on billing and collections Analyze collection efficiency of each system and develop a system of incentive bonus for outstanding collection performance Study and recommend ways and means to improve and develop procedures and strategies
 CO Audit and Special Audit Section Field Audit Section Treasury Department (TD) (1) Revenue Generation Services Division 	 weaknesses and deficiencies requiring correction Conduct fiscal and/or property audits as necessary Check and monitor compliance with memorandum circulars Develop plans and programs for a more effective and efficient management of NIA funds; formulate schemes or proposals to generate more income Undertake the payment of obligations and the receipt of collections in the Central Office Undertake studies to improve the strategies of revenue collections including simplification of existing procedures on billing and collections Analyze collection efficiency of each system and develop a system of incentive bonus for outstanding collection performance Study and recommend ways and means to improve and develop procedures and strategies for income generation and efficiency of collection from all sources
 CO Audit and Special Audit Section Field Audit Section Treasury Department (TD) (1) Revenue Generation Services Division Collection Services Section 	 weaknesses and deficiencies requiring correction Conduct fiscal and/or property audits as necessary Check and monitor compliance with memorandum circulars Develop plans and programs for a more effective and efficient management of NIA funds; formulate schemes or proposals to generate more income Undertake the payment of obligations and the receipt of collections in the Central Office Undertake studies to improve the strategies of revenue collections including simplification of existing procedures on billing and collections Analyze collection efficiency of each system and develop a system of incentive bonus for outstanding collection performance Study and recommend ways and means to improve and develop procedures and strategies
 CO Audit and Special Audit Section Field Audit Section Treasury Department (TD) Revenue Generation Services Division 	 weaknesses and deficiencies requiring correction Conduct fiscal and/or property audits as necessary Check and monitor compliance with memorandum circulars Develop plans and programs for a more effective and efficient management of NIA funds; formulate schemes or proposals to generate more income Undertake the payment of obligations and the receipt of collections in the Central Office Undertake studies to improve the strategies of revenue collections including simplification of existing procedures on billing and collections Analyze collection efficiency of each system and develop a system of incentive bonus for outstanding collection performance Study and recommend ways and means to improve and develop procedures and strategies for income generation and efficiency of collection from all sources
 CO Audit and Special Audit Section Field Audit Section Treasury Department (TD) (1) Revenue Generation Services Division Collection Services Section 	 weaknesses and deficiencies requiring correction Conduct fiscal and/or property audits as necessary Check and monitor compliance with memorandum circulars Develop plans and programs for a more effective and efficient management of NIA funds; formulate schemes or proposals to generate more income Undertake the payment of obligations and the receipt of collections in the Central Office Undertake studies to improve the strategies of revenue collections including simplification of existing procedures on billing and collections Analyze collection efficiency of each system and develop a system of incentive bonus for outstanding collection performance Study and recommend ways and means to improve and develop procedures and strategies for income generation and efficiency of collection from all sources Undertake investment of NIA funds and maintain and safeguard investment records
 CO Audit and Special Audit Section Field Audit Section Treasury Department (TD) (1) Revenue Generation Services Division Collection Services Section 	 weaknesses and deficiencies requiring correction Conduct fiscal and/or property audits as necessary Check and monitor compliance with memorandum circulars Develop plans and programs for a more effective and efficient management of NIA funds; formulate schemes or proposals to generate more income Undertake the payment of obligations and the receipt of collections in the Central Office Undertake studies to improve the strategies of revenue collections including simplification of existing procedures on billing and collections Analyze collection efficiency of each system and develop a system of incentive bonus for outstanding collection performance Study and recommend ways and means to improve and develop procedures and strategies for income generation and efficiency of collection from all sources Undertake investment of NIA funds and maintain and safeguard investment records Monitor billing and collection activities; prepare periodic reports on the collection of
 CO Audit and Special Audit Section Field Audit Section Treasury Department (TD) (1) Revenue Generation Services Division Collection Services Section 	 weaknesses and deficiencies requiring correction Conduct fiscal and/or property audits as necessary Check and monitor compliance with memorandum circulars Develop plans and programs for a more effective and efficient management of NIA funds; formulate schemes or proposals to generate more income Undertake the payment of obligations and the receipt of collections in the Central Office Undertake studies to improve the strategies of revenue collections including simplification of existing procedures on billing and collections Analyze collection efficiency of each system and develop a system of incentive bonus for outstanding collection performance Study and recommend ways and means to improve and develop procedures and strategies for income generation and efficiency of collection from all sources Undertake investment of NIA funds and maintain and safeguard investment records Monitor billing and collection efficiency reports from field offices and develop a
 CO Audit and Special Audit Section Field Audit Section Treasury Department (TD) Treasury Department (TD) (1) Revenue Generation Services Division Collection Services Section Investment and Real Properties Serv. Section 	 weaknesses and deficiencies requiring correction Conduct fiscal and/or property audits as necessary Check and monitor compliance with memorandum circulars Develop plans and programs for a more effective and efficient management of NIA funds; formulate schemes or proposals to generate more income Undertake the payment of obligations and the receipt of collections in the Central Office Undertake studies to improve the strategies of revenue collections including simplification of existing procedures on billing and collections Analyze collection efficiency of each system and develop a system of incentive bonus for outstanding collection performance Study and recommend ways and means to improve and develop procedures and strategies for income generation and efficiency of collection from all sources Undertake investment of NIA funds and maintain and safeguard investment records Monitor billing and collection efficiency reports from field offices and develop a system of incentive bonus for outstanding collection efficiency and means to improve a field offices and develop a system of incentive bonus for outstanding collection activities; prepare periodic reports on the collection of irrigation fees and other income Consolidate and evaluate collection efficiency reports from field offices and develop a system of incentive bonus for outstanding collection performance Handle the payment of all accounts payable and the collection and deposit of funds at the Central Office
 CO Audit and Special Audit Section Field Audit Section Treasury Department (TD) (1) Revenue Generation Services Division 	 weaknesses and deficiencies requiring correction Conduct fiscal and/or property audits as necessary Check and monitor compliance with memorandum circulars Develop plans and programs for a more effective and efficient management of NIA funds; formulate schemes or proposals to generate more income Undertake the payment of obligations and the receipt of collections in the Central Office Undertake studies to improve the strategies of revenue collections including simplification of existing procedures on billing and collections Analyze collection efficiency of each system and develop a system of incentive bonus for outstanding collection performance Study and recommend ways and means to improve and develop procedures and strategies for income generation and efficiency of collection from all sources Undertake investment of NIA funds and maintain and safeguard investment records Monitor billing and collection efficiency reports from field offices and develop a system of incentive bonus for outstanding collection efficiency activities; prepare periodic reports on the collection of irrigation fees and other income Consolidate and evaluate collection efficiency reports from field offices and develop a system of incentive bonus for outstanding collection performance Handle the payment of all accounts payable and the collection and deposit of funds at the Central Office Prepare disbursement, collection and related reports for submission to Controllership
 CO Audit and Special Audit Section Field Audit Section Treasury Department (TD) (1) Revenue Generation Services Division 	 weaknesses and deficiencies requiring correction Conduct fiscal and/or property audits as necessary Check and monitor compliance with memorandum circulars Develop plans and programs for a more effective and efficient management of NIA funds; formulate schemes or proposals to generate more income Undertake the payment of obligations and the receipt of collections in the Central Office Undertake studies to improve the strategies of revenue collections including simplification of existing procedures on billing and collections Analyze collection efficiency of each system and develop a system of incentive bonus for outstanding collection performance Study and recommend ways and means to improve and develop procedures and strategies for income generation and efficiency of collection from all sources Undertake investment of NIA funds and maintain and safeguard investment records Monitor billing and collection efficiency reports from field offices and develop a system of incentive bonus for outstanding collection efficiency and maintain collection and develop a system of incentive bonus for outstanding collection performance Undertake investment of NIA funds and maintain and safeguard investment records Monitor billing and collection efficiency reports from field offices and develop a system of incentive bonus for outstanding collection performance Handle the payment of all accounts payable and the collection and deposit of funds at the Central Office Prepare disbursement, collection and related reports for submission to Controllership Department and agencies authorized to receive such reports
 1) CO Audit and Special Audit Section 2) Field Audit Section 4. Treasury Department (TD) (1) Revenue Generation Services Division 1) Collection Services Section 2) Investment and Real Properties Serv. Section 	 weaknesses and deficiencies requiring correction Conduct fiscal and/or property audits as necessary Check and monitor compliance with memorandum circulars Develop plans and programs for a more effective and efficient management of NIA funds; formulate schemes or proposals to generate more income Undertake the payment of obligations and the receipt of collections in the Central Office Undertake studies to improve the strategies of revenue collections including simplification of existing procedures on billing and collections Analyze collection efficiency of each system and develop a system of incentive bonus for outstanding collection performance Study and recommend ways and means to improve and develop procedures and strategies for income generation and efficiency of collection from all sources Undertake investment of NIA funds and maintain and safeguard investment records Monitor billing and collection efficiency reports from field offices and develop a system of incentive bonus for outstanding collection efficiency and evaluate collection performance Consolidate and evaluate collection efficiency reports from field offices and develop a system of incentive bonus for outstanding collection performance Handle the payment of all accounts payable and the collection and deposit of funds at the Central Office Prepare disbursement, collection and related reports for submission to Controllership Department and agencies authorized to receive such reports Maintain records of disbursements and collections together with supporting papers
 1) CO Audit and Special Audit Section 2) Field Audit Section 4. Treasury Department (TD) (1) Revenue Generation Services Division 1) Collection Services Section 2) Investment and Real Properties Serv. Section 	 weaknesses and deficiencies requiring correction Conduct fiscal and/or property audits as necessary Check and monitor compliance with memorandum circulars Develop plans and programs for a more effective and efficient management of NIA funds; formulate schemes or proposals to generate more income Undertake the payment of obligations and the receipt of collections in the Central Office Undertake studies to improve the strategies of revenue collections including simplification of existing procedures on billing and collections Analyze collection efficiency of each system and develop a system of incentive bonus for outstanding collection performance Study and recommend ways and means to improve and develop procedures and strategies for income generation and efficiency of collection from all sources Undertake investment of NIA funds and maintain and safeguard investment records Monitor billing and collection efficiency reports from field offices and develop a system of incentive bonus for outstanding collection efficiency and maintain collection and develop a system of incentive bonus for outstanding collection performance Undertake investment of NIA funds and maintain and safeguard investment records Monitor billing and collection efficiency reports from field offices and develop a system of incentive bonus for outstanding collection performance Handle the payment of all accounts payable and the collection and deposit of funds at the Central Office Prepare disbursement, collection and related reports for submission to Controllership Department and agencies authorized to receive such reports

Source: Statement of Functions, SMD-NIA

Organizational Unit	Main Functions	
A. Regional Irrigation Office (RIO)		
0. General	- Implement plans, policies, rules, regulations and programs for the region	
	 Formulate and develop short and long-range plans, programs and proposals for development of feasible irrigation and related water resources projects within the regions; and direct the investigation and collection of technical, economic and other data 	
	 Supervise field operations of the Provincial Irrigation Offices and the construction of foreign-assisted projects and/or rehabilitation and improvement of irrigation systems the coverage of which are confined within the regions 	
	 Evaluate construction works by contract or force account and prepare reports of accomplishment by project 	
	 Direct and coordinate the operation and maintenance activities as well as the installation/ pull out of irrigation pumps; monitor and evaluate operation and maintenance of communal irrigation systems and irrigation pumps 	
	 Review plans and designs of communal irrigation projects; prepare preliminary designs and specifications of locally funded projects approved for construction in the region 	
	 Direct and coordinate research on improvement of irrigation service; the organization and development of irrigation service; the organization and development of irrigators' associations and the training of irrigators in areas served by all the irrigation systems 	
	- Direct and coordinate the utilization, movement, preventive maintenance and repair of all equipment	
	- Direct and coordinate the administrative activities of the region, including the provision of	
	necessary services relative to legal matters, training, information, procurement and property and other related activities	
	 Direct and coordinate all activities pertaining to financial transactions, maintenance and control and payment of obligations in the region 	
	 Coordinate with other national and local government officials engaged in food production and community development and improvement 	
	- Submit periodic reports on activities of the region as required	
1. Engineering Division	- Direct the conduct of intensive reconnaissance and feasibility investigation of possible areas for irrigation within the region to develop a pipeline of irrigation projects	
 Planning & Investigation Section Design and Specifications Section Construction Management Section 	 Conduct hydrologic studies to determine potential surface and groundwater supplies; maintain a continuing inventory of land and water resources and determine the available dependable water supply of each water source in the different river basins and natural bodies of water in the region 	
	- Prepare maps of the different river basins and sub-basins in the region, indicate extent of surface water utilization and withdrawals of the groundwater resources due to existing	
	 Undertake reconnaissance investigation to determine feasibility of all proposed national, communal and pump irrigation projects including groundwater irrigation project and prepare reconnaissance report 	
	 Undertake feasibility investigation to determine the technical, economic and financial feasibility of communal gravity and surface water pump projects and prepare the corresponding feasibility investigation report 	
	- Develop short and long-range plans, programs and proposals for development of feasible irrigation and related water resources projects; direct the investigation and collection of technical, economic and other data as directed by the Central Office	
	 Prepare final plans, designs and specifications for communal irrigation projects and all national projects within the capability of the region Undertake pre-construction planning and scheduling of projects approved for construction 	
	Prescribe requirements for construction, including procurement of supplies & materials	
	- Consolidate and prepare periodic reports on investigation and survey and construction activities in the region	
2. Operations Division	Prepare bid documents relative to contract works Provide assistance and advice on the operation, maintenance, repair and improvement of irrigation systems in the region	
 Systems Management Section Research and Development Section 	 Develop plans and programs to increase crop production, close the gap between irrigated and service area and increase cropping intensity by implementing proper water management in the region 	
	- Review plans, estimates and programs of work for operation, maintenance, repair and improvement of irrigation systems	
	 Monitor reports and conduct ocular inspection of irrigation systems to evaluate actual condition and initiate measures to improve operation and maintenance Prepare annual financial requirements for the operation and maintenance, repair and 	
	improvement of irrigation systems - Undertake research on irrigation and drainage methods, effective rainfall, irrigation	
	systems efficiency, water losses, irrigated land use and other aspects of water management and technology for the improvement of operation and maintenance of systems	
	 Implement at the regional level the NIA's program of assistance to irrigation end users; undertake training of end users, ditchtenders and gatekeepers of national systems 	

VII.3.2 Main Functions of NIA's Field Offices (1/3)

Source: Statement of Functions, Nov. 1984, NIA and Information from MSD, NIA

	Organizational Unit	Main Functions
3.	Institutional Development Division	 Supervise and participate in the organization, strengthening and development of irrigators' associations in the national irrigation systems in the region
	 Agricultural Coordination Section Irrigators Assistance Section 	 In coordination with appropriate regional personnel conduct training of farmers, ditchtenders and gatekeepers on water management and operation and maintenance of systems, participate in the training of water management technicians and watermasters Organize dialogues geared to promote closer relationship between the FIG/FIA leaders/ members and operation and maintenance personnel to attain efficient water distribution Conduct studies on behavioral patterns and cultures of farmers; problems and influencing factors for the attainment of functionality of farmers irrigators group/ association and adapt findings to local FIGs
4.	Equipment Management Division	 Undertake the management of all construction equipment and vehicles assigned to the region, including all those assigned to projects in the region
	 Control & Evaluation Section Maintenance and Repair Section 	 Prepare plans and programs for the maximum utilization, assignment, transfer and movement of construction equipment and motor vehicles; provide equipment support to units and projects in the region
		 Control and evaluate the performance and utilization of construction equipment; arrange for the procurement of all spare parts, fuel, tools, manuals and other materials needed for the operation, repair and overhauling of equipment and motor vehicles: provide and support transportation requirement of the region: prepare reports on equipment management and submit same to higher authorities
		 Direct and supervise the inspection, maintenance and deadlining of equipment being used in the field; ensure that equipment in projects, systems and provincial offices are properly utilized and serviced; perform repair work on equipment in use; take charge of keeping equipment operate and in good condition at all times; repair/ maintain irrigation pumps in field offices with no mechanics
		 Repair all broken down equipment assigned to the region; manufacture spare parts within the capability of the region; provide electrical and welding services; paint motor vehicles, automotive and construction; service all equipment in the region
5.	Administrative Division	 Provide administrative services for the region such as personnel development, procurement, legal, security, custodial, janitorial, medical and central services
	 Personnel Dev. and General Services Section Property and Procurement Section Legal Section 	 Process various personnel transactions such as application for leave, retirement, appointment, bond, claims for employee benefits, and the like; prepare certification on employment and other related activities; prepare appointments, and maintain personnel
	4) Medical and Dental Unit	 Implement Civil Service Rules and Regulations and recommend disciplinary action for violation thereof
		 Assist various units in the region in identifying training needs of their personnel and in designing the appropriate training programs; arrange for and coordinate the holding of seminars, workshops and other relevant aids to manpower development Maintain liaison on administrative and personnel matters with CSC, GSIS, NISA, PBL,
		 Canvass prices and undertake the procurement of equipment, materials and supplies available locally at the regional/ project sites and within the authority of the region; undertake their storage, issuance and control
		 Provide communications, janitorial, security, clerical, records management and other general supportive services
		Provide personnel with medical and dental services Prepare consolidated periodic reports on administrative activities
6.	Finance & Management Division	 Prepare consolidated periodic reports on administrative activities Undertake all the activities pertaining to financial transactions; management and control;
	 Management and Budget Section Accounting Section Cash Section 	and payment of obligations in the region - Undertake studies on the administrative organization of the region, is existing work methods and procedures and recommend improvements in order to achieve optimum utilization of resources and to increase corporate income
		 Process and record all financial transactions; prepare monthly trial balance and other periodic reports for submission to Central Office and other agencies
		 Undertake the payment of all obligations and custody of collection in the region and prepare disbursement, collection and related reports

VII.3.2 Main Functions of NIA's Field Offices (2/3)

Source: Statement of Functions, Nov. 1984, NIA and Information from MSD, NIA

Organizational Unit	Main Functions		
B. Provincial Irrigation Office (PIO)			
	 Prepare inventory of existing and proposed national, communal and pump projects including groundwater pump projects 		
	- Undertake the investigation and survey of feasible water supply; maintain updated record of characteristics and behavior of water resources in the province; conduct field verification of applications for the purchase of irrigation pump sets		
	- Undertake the construction, rehabilitation and improvements, installation and/or repair of communal gravity and pump irrigation projects andor systems		
	 Provide technical assistance in the organization of farmers association management of communal systems as well as assistance to pump recipients for the installation, operation and maintenance of pump irrigation systems 		
	- Direct and supervise the pull-out, transfer and/or repossession of pump when ordered and directed by higher authorities		
	 Develop/ implement strategies, guidelines and instructions to improve the collection of management fees, if any, pump amortization and repayment of construction cost of communal irrigation systems 		
	- Supervise the operation and maintenance of particular small irrigation systems when so designated		
C. Irrigation System Office (ISO)			
	- Undertake the operation and maintenance of an irrigation system or group of systems		
	- Implement guidelines and instruction, improve water management and water distribution		
	- In consultation with farmers and in coordination with appropriate region personnel and other agencies prepare and administer the cropping pattern of the system		
	- Prepare and implement the agricultural development program of the system		
	- Undertake the organization of farmer irrigators' groups (FIGs); responsible for the growth and functionality		
	- Collect irrigation fees; implement tie-up with NFA		
	- Maintain pertinent records and submit required reports		
	- Coordinate with other agencies engaged in food production		
D. Locally-Funded Irrigation Project			
, 8 ,	- Undertake the actual construction of national irrigation projects funded from local sources in accordance with the approved plans, programs and schedules		
	- Undertake pre-construction activities in preparation for the construction of the projects, including acquisition of right-of-way, survey, design, estimating, engagement of contractual services, etc.		
	- Undertake the proper utilization, movement, maintenance and repair of equipment		
	- Provide the project with administrative, financial and other services		
	- Prepare periodic report of accomplishment		
E. Foreign-Assisted Irrigation Project			
	- Undertake the construction of foreign-assisted irrigation projects in accordance with terms of agreement and within the approved plans, programs and schedules		
	Undertake pre-construction activities in preparation for actual construction of the project, including acquisition of right of way, survey, designs, estimating, engagement of contractual services, etc. Undertake the proper utilization, movement, maintenance and repair of equipment		
	- Undertake the effective coordination and prosecution of the agricultural development		
	program of the project - Provide the project with administrative, financial and other related services		
	 Prepare periodic reports of accomplishment as required by Management and lending institutions 		

VII.3.2 Main Functions of NIA's Field Offices (3/3)

Source: Statement of Functions, Nov. 1984, NIA and Information from MSD, NIA

REFERENCE DATA VII.4

Legislations Related to NIA Management

	Major Laws and Issuances relating to NIA	Date of Issuance		
1.	Republic Act No.3601 (NIA Charter)	June 22, 1963		
	An <i>Act creating NIA</i> (from the irrigation division of the Bureau of Public Works) with an <i>initial capitalization of PHP300 million</i> w/ the following powers and objectives:			
	 to investigate, study, improve, construct and administer all national irrigation systems; to investigate all available and possible water resources for the purpose of utilizing the necessary 			
projects;		purpose of utilizing the necessary		
	3) to collect from the users of each irrigation system constructed by to finance the continuous operation of the system; and	y it such fees as may be necessary		
	4) to do all such other things and to transact al such businesses as a to the attainment of the above objectives.	re directly or indirectly necessary		
	<u>Governing Body & Management</u>The powers and functions of the NIA shall be exercised by a Board of Directors.			
	- The Management of the NIA shall be vested in the Irrigation	Administrator.		
2.	Presidential Decree No.552 (Amended RA 3601) September 11, 1974 PD No.552 amended certain Sections of RA 3601 (NIA Charter). The amendments are as followed and the section of the sectio			
	1) Powers and objectives:			
 to supervise the operation, maintenance and repair, or otherwise, <i>administer ten</i> <i>communal and pump irrigation systems</i> constructed, improved and/or repair partially with government funds. 				
	 to charge and collect from the beneficiaries of the water such fees or administration as may be necessary to cover the cost of operation, maintenance and insurance, and the cost of construction within a reasonable period of time. 			
	 to recover funds or portions hereof expended for the con communal irrigation systems. 	struction and/or rehabilitation of		
2) Increased the <i>capitalization of NIA to PHP2 billion</i> .				
	3) Authorized NIA to contract loans with foreign governments or financial institutions			
3. Presidential Decree No.1702 (Amendment of RA 3601) Jul		July 18, 1980		
3.	PD No.1702 amended Section 3 (working capital) of RA 3601 (NIA Charter), as amen No.552. The amendments are as follows:			
3.		NIA Charter), as amended by PD		
3.		NIA Charter), as amended by PD		
3.	No.552. The amendments are as follows:	ering administration charges on		
3.	 No.552. The amendments are as follows: Set the authorized <i>capitalization of NIA to PHP10 billion</i>. All amounts collected by NIA: <i>irrigation service fees, engine</i> projects, equipment rentals, sale of unserviceable equipment, all 	ering administration charges on 1 other incomes are also added to		

M. fc 1) 1) 2) R A po 1) 2) 3) 4) 4) 5. E O 1) 2) 3) 4) 5. E O 1) 1) 2) 3) 4) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1	 Philippines the <i>appointment of a Deputy Administrator</i> and Administrators from a list of names submitted by the Administrator and his Deputy and Assistants; to recommended of the said officials for cause. Section 7. Managing Head: The management of the NIA shal Administrator; provided that the Deputy Administrator shall act fo in the latter's absence. Republic Act No.6978 An Act to promote rural development by providing for an accelerateriod for the construction of irrigation projects. The NIA shall undertake a <i>ten-year program for the construction</i> remaining 1,500,000 ha of irrigated but irrigable lands. The program shall give priority to areas with social and economic priority shall be given to the construction of funds). 	nmend to the President of the l such number of Assistant tor; to fix the compensation of the suspension and/or removal l be vested in and Irrigation r and in place of Administrator January 24, 1991 ded program within a ten-year <i>n of irrigation projects</i> in the problem.
fc 1) 2) R A po 1) 2) 3) 4) 5. E O 1) 2) 3) 4) 5. E O 1) 1) 2) 3) 4) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1	 Section 5. Powers and Duties of the Board of Directors: to recomphilippines the <i>appointment of a Deputy Administrator</i> and Administrators from a list of names submitted by the Administrator and the Administrator and his Deputy and Assistants; to recommended of the said officials for cause. Section 7. Managing Head: The management of the NIA shal Administrator; provided that the Deputy Administrator shall act fo in the latter's absence. Republic Act No.6978 An Act to promote rural development by providing for an accelerateriod for the construction of irrigation projects. The NIA shall undertake a <i>ten-year program for the construction</i> remaining 1,500,000 ha of irrigated but irrigable lands. The program shall give priority to areas with social and economic funds). The <i>beneficiaries</i> of <i>communal irrigation projects</i> shall pay 50 <i>interest for a period of 50 years</i>. 	nmend to the President of the l such number of Assistant for; to fix the compensation of the suspension and/or removal l be vested in and Irrigation r and in place of Administrator January 24, 1991 ed program within a ten-year <i>n of irrigation projects</i> in the problem. n projects (at least 50% of the <i>% of the project cost without</i>
2) • R A p i i i i i i i i	 Philippines the appointment of a Deputy Administrator and Administrators from a list of names submitted by the Administrator and his Deputy and Assistants; to recommended of the said officials for cause. Section 7. Managing Head: The management of the NIA shal Administrator; provided that the Deputy Administrator shall act fo in the latter's absence. Republic Act No.6978 An Act to promote rural development by providing for an accelerateriod for the construction of irrigation projects. The NIA shall undertake a <i>ten-year program for the construction</i> remaining 1,500,000 ha of irrigated but irrigable lands. The program shall give priority to areas with social and economic funds). The beneficiaries of communal irrigation projects shall pay 50 interest for a period of 50 years. 	I such number of Assistant tor; to fix the compensation of the suspension and/or removal 1 be vested in and Irrigation r and in place of Administrator January 24, 1991 ed program within a ten-year <i>n of irrigation projects</i> in the problem. n projects (at least 50% of the % of the project cost without
 R A p⁶ 1) 2) 3) 4) 4) 4) E O A A A C 	 Administrator; provided that the Deputy Administrator shall act fo in the latter's absence. Republic Act No.6978 An Act to promote rural development by providing for an accelerateriod for the construction of irrigation projects. The NIA shall undertake a <i>ten-year program for the construction</i> remaining 1,500,000 ha of irrigated but irrigable lands. The program shall give priority to areas with social and economic priority shall be given to the construction of communal irrigation funds). The beneficiaries of communal irrigation projects shall pay 50 interest for a period of 50 years. 	r and in place of Administrator January 24, 1991 ed program within a ten-year <i>n of irrigation projects</i> in the problem. n projects (at least 50% of the <i>% of the project cost without</i>
A pe 1) 2) 3) 4) 4) 5. E C O C. A A A C C	 An Act to promote rural development by providing for an accelerate eriod for the construction of irrigation projects. The NIA shall undertake a <i>ten-year program for the construction</i> remaining <i>1,500,000 ha of irrigated but irrigable lands</i>. The program shall give priority to areas with social and economic Priority shall be given to the construction of communal irrigation funds). The <i>beneficiaries</i> of <i>communal irrigation projects</i> shall pay <i>50 interest for a period of 50 years</i>. 	ned program within a ten-year n of irrigation projects in the problem. n projects (at least 50% of the % of the project cost without
po 1) 2) 3) 4) 4) 5. E O . A . A . A . A . A . A . A . A . A . A . A . A . A . A . A . A . . A 	 eriod for the construction of irrigation projects. The NIA shall undertake a <i>ten-year program for the construction</i> remaining 1,500,000 ha of irrigated but irrigable lands. The program shall give priority to areas with social and economic Priority shall be given to the construction of communal irrigation funds). The <i>beneficiaries</i> of <i>communal irrigation projects</i> shall pay 50 <i>interest for a period of 50 years</i>. 	n of irrigation projects in the problem. n projects (at least 50% of the % of the project cost without
2) 3) 4) 5. <u>E</u> O . <u>A</u> A . <u>R</u> A co	 remaining 1,500,000 ha of irrigated but irrigable lands. The program shall give priority to areas with social and economic Priority shall be given to the construction of communal irrigation funds). The beneficiaries of communal irrigation projects shall pay 50 interest for a period of 50 years. 	problem. n projects (at least 50% of the % of the project cost without
3) 4) <u>E</u> O . <u>A</u> <u>A</u> <u>R</u>) Priority shall be given to the construction of communal irrigation funds).) The <i>beneficiaries</i> of <i>communal irrigation projects</i> shall pay 50 <i>interest for a period of 50 years</i>. 	n projects (at least 50% of the % of the project cost without
4) E O . <u>A</u> A . <u>R</u> A c	 funds). The <i>beneficiaries</i> of <i>communal irrigation projects</i> shall pay 50 <i>interest for a period of 50 years</i>. 	% of the project cost without
. E E O . A A . R A co	interest for a period of 50 years.	1
E O . <u>A</u> . <u>R</u> . <u>R</u>	Executive Order No.22	September 14 1992
0 . A A . R A co		
A . R A co	EO No.22 transferred the NIA from the Department of Public Works and Highways (DPWE) Office of the President.	
. R A	Administrative Order No.17	October 14, 1992
. R A	O No.17 attached the NIA to the Department of Agriculture (DA).	
A	Republic Act No.8435 (known as "AFMA")	December 22, 1997
An Act prescribing urgent related measures to modernize the agriculture and free country in order to enhance their profitability, and prepare said sectors free globalization through and adequate focused and rational delivery of necess appropriating funds therefor and for other purposes. The following are the affecting operation and maintenance of the national irrigation systems (NISs).		ure and fisheries sectors of the sectors for the challenges of of necessary support services, are the provisions of AFMA (NISs).
	 Preparation of bill to amend NIA Charter <i>expanding the membership of the NIA Board</i> of Directors; Setting an expansion for much bilitation of emisting and the day access. 	
	2) Setting program for rehabilitation of existing systems whose sources can supply the dry season irrigation requirements of a minimum level;	
3)) (conduct of P&D) activities to improve the management affective	vity & efficiency of irrigation
4)	systems;	
5)	systems;) Turnover of secondary canals and on-farm structures of NIS to	
6)	 systems; <i>Turnover of secondary canals and on-farm structures of NIS to</i> Preparation of a capability building program for IAs and/or LGUs 	

	Major Laws and Issuances relating to NIA	Date of Issuance	
9.	Administrative Order No.17	August 17, 1998	
	AO No.17 adopted a " <i>socialized irrigation service fee</i> ", communal irrigation systems (a amortization rates, and other urgent interim measures to cushion the effects of El Nino and the A currency crisis in the agricultural sector, particularly to benefit irrigation farmer-beneficiaries.		
10.	Executive Order No. 162	October 16, 1999	
	EO No.162, entitled "Reorienting the Functions and Operations of the	DA"	
	 The structure and organizations of the DA, its offices, bureaus, attached agencies and corporations (including NIA) shall be re-organized along functional lines and consistent with the principles, goals and objectives of the AFMA. Based on the functional reorientation and operational redirection, the DA shall prepare a "Agricultural Bureaucracy Restructuring Plan (ABRP)" 		
1.	Executive Order N.165	October 10, 1999	
	EO No.165 directs the formulation of an <i>institutional strengthening a</i> for the Executive Branch.	nd streamlining program	
	 A Presidential Committee on effective Governance (PCEG) is created to be composed of Executive Secretary as Chair, the Secretary of BM as Co-Chair, with the Director-General o NIDA, Chairman of the CSC, Secretary of Finance, and Head of the Presidential Manager Staff, as members, to oversee and coordinate the institutional reforms in the bureaucracy. The PCEG shall be assisted by sub-committees, which shall be responsible for the stud certain areas like service delivery, organizational development and staffing, finan management, personnel and change management, and information technology. 		
12.	Executive Order No.197	January 13, 2000	
	EO No.197 directed all government agencies and government-owned of controlled corporations (GOCC) to <i>increase their fees and charges by not less than 20%</i> .		
	 The heads of departments shall be responsible for the implementation of this EO by the boffices, units, and agencies, including GOCC, within their respective jurisdictions. The Department of Finance and the DBM shall jointly promulgate the rules and regular implement this EO and monitor compliance by agencies. 		
 All executive issuances or parts thereof which are inconsistent with any of the provi EO are hereby repealed or modified accordingly. 		h any of the provisions of this	
3.	Executive Order No.218	March 15, 2000	
	EO No.218 provided further guidelines for the adjustment of the rates of fees and charges.		
	 In view of the urgent need to improve the financial positions and at least recover costs, Government intends to reactivate the Task Force on the Revision of Fees and Charges under the No.218. 		
4.	Administrative Order No.20	May 15, 2000	
	Department of Agriculture".	AO No.20, entitled "Establishing the Functional Coordination and Management Structure of the	
	1) In partial implementation of EO No.162 (1999), the Department of according to the attached Chart 1: Functional Coordination and Mar		

	Major Laws and Issuances relating to NIA	Date of Issuance	
15.	Administrative Order No.24	June 26, 2000	
	AO No.24 provided amendments and guidelines to the implementation of DA AO No.20 to properties to the functional coordination of the DA and of its DA Regional Office.		
	 Under AO No.24, the Administrator of NIA shall report to the Undersecretary of Extension, LGU Support and Infrastructure (DA), and the NIA-Regional Offices are required to report the Regional Technical Director in charge of Infrastructure and Provincial Operations. 		
16.	16. Administrative Order No.40 October 4, 2000 AO No.40 made clarifications on the previous AOs No.20 ad 24, Series of 2000 to underscore t clearly coordinative nature of the relationship between the Regional Directors of the DA Proper a the Regional Directors/ Assistant Regional Directors of the various Bureaus, Agencies a Corporations attached to the DA.		
 The DA-Regional Executive Directors (REDs) and DA-Regional The have neither supervisory nor line authority over their counterparts – other DA Bureaus, Attached Agencies and Corporations (AACs) and (FAPs) – in the region. 		s – heads or representatives of	

	Major Issuances relating to NIA's Delegated Authority	Date of Issuance	
1.	Memorandum Circular No.15, s. of 1998	April 21, 1998	
	MO No.15 issued by the Administrator provided the delegation of authority over technical and non-technical matters to be observed by NIA.		
	1) This MC enumerates delegated authorities to sign/ approve official papers, documents and contract designed to improve the operations of the NIA.		
	2) It specifies the required position of a recommending and approving official for specific type of document (technical and non-technical).		
2.	Memorandum Circular No.19, s. of 1999June 28, 1999		
	MO No.19 amended the following provisions of the MC No.15 issued	April 1998.	
	1) Certain provisions pursuant to the NIA Board Resolution No.6886-99 dated June 14, 1999, especially those pertaining to change in delegated authorities on the payment of right of way (ROW) and damages.		
3.	General Memorandum Circular No.1, s. of 2000August 28, 2000		
	 GMO No.1 issued by the Secretary of Agriculture revised the rules on delegation of authority. 1) The rules hall be observed and adopted by the DA including all bureaus, regional offices, attached agencies and corporations. 2) The GMO covers delegation of authority concerning administrative matters (personnel) and financial matters. 3) Administrative matters include : signing authorities of officials on personnel appointment designation, application for leave of absence, approval of travel, order, transfer/reassigned approval for permission to render overtime services, grant of permission to teach/exercise profession/study/engage in business, issuance of orders, memoranda, circulars, letter and related communications. 4) Financial matters include signing authorities of officials on requisitions and issue voucher for supplies/materials/office equipment, purchase and work order contracts, negotiated contracts disbursement vouchers, fund transfer and signing and counter-signing of checks. The Orde specifies positions being given authorities to recommend and approve above mentioned financia documents based on range of amount involved. 		
4.	General Memorandum Circular No.2, s. of 2000	October 4, 2000	
	GMO No.2 issued by the Secretary of Agriculture amended some propertaining to positions with SG-24 below.	visions of GMO No.1 s. of 2000	
	 New provision stated that all appointments with salary below grade 24 shall be approved by the respective heads of bureau, region attached agencies and corporations. 		

	Memorandum Circulars Related to ISF Collection	Date of Issuance	
1.	Memorandum Circular No.101, Series 1980 (NIA)	1980	
	Revised incentive bonus plan for irrigation service fee collection		
2.	Memorandum Circular No. 8, Series 1981 (NIA)	March 19, 1981	
	Amending revised incentive bonus plan for irrigation service fee collec	tion	
3.	Memorandum Circular No.21, Series 1981 (NIA)	June 8, 1981	
	Confirmation of statement of accounts		
4.	Memorandum Circular No. 5, Series 1988 (NIA)	1988	
	Incentive policy for irrigation service fee (ISF) back accounts		
5.	Memorandum Circular No.44, Series 1990	July 9, 1990	
	Delegation of authority on payments of back accounts		
6.	Memorandum Circular No.71, Series 1991	October 14, 1991	
	General guidelines and procedures for utilization of the parcellary map	S	
7.	Memorandum Circular No.11, Series 1992	February 10, 1992	
	Extension for another 3-years of incentive policy for irrigation service	(ISF) back accounts	
8.	Memorandum Circular No.30, Series 1992	April 30, 1992	
	Revised viability incentive grant guidelines and criteria		
9.	Memorandum Circular No.15, Series 1993	March 30, 1993	
Implementation of the confirmation of statement of account (MC No.21,		1, s. 1981)	
10.	Memorandum Circular No.2, Series 1995	January 13, 1995	
	Final three-year extension of incentive policy on irrigation service fee (ISF) back accounts		
11.	Memorandum Circular No.6, Series 1995	February 24, 1995	
	VIG Distribution and treatment of income in evaluating financial viability		
12.	Memorandum Circular No.38, Series 1997	October 15, 1997	
	Collection and utilization of irrigation service fee back accounts		
13.	Administrative Order No.17	October 15, 1997	
Adoption of a socialized irrigation service fee, communal irrigation system rates, and other urgent interim measures to cushion the effects of El Nino an crisis in the agricultural sector, particularly to benefit irrigation farmer benefi		no and the Asian currency	
14.	Memorandum Circular No.49, Series 1998	1998	
	Implementing guidelines pursuant to Administrative Order No.17.		
~	ree: Data from the legal files NIA		

VII.4.2 List of Legal Documents Related to the Irrigation Service Fee (ISF) Collection

Source: Data from the legal files, NIA.

REFERENCE DATA VII.5

Status of Implementation of the AFMA of 1997

VII.5 STATUS OF IMPLEMENTATION OF THE AFMA OF 1997

The present Administration supports the implementation of the Agriculture and Fisheries Modernization Act (AFMA). In CY 2001, PHP20 billion were earmarked for the different components. Some PHP6.96 billion, including carry over funds from previous years, were appropriated for irrigation. Of these, some PHP1.343 billion will be for communal irrigation development. This is bigger than previous years' allocation, although still short to sustain the requirements of the ongoing foreign-assisted projects.

The implementing rules and regulations (IRR) of AFMA was approved in 1998. This was reviewed and updated in the fourth quarter of 2000, to make it relevant to the recent developments in the agricultural sector. However, the revised IRR has not been officially issued.

Since the enactment of the law in December 1997, the following have been accomplished or currently being implemented under the irrigation component:

- (1) Review of the irrigation service rates
 - 1) NIA completed an in-house study on the appropriate/reasonable levels of irrigation service rates (ISF) in August 1998. The study was overtaken by the issuance of Administrative Order No. 17 on 31 August 1998, setting socialized rates. In July 2001, the NIA Board of Directors approved the restoration of the 1975 ISF rates.
 - 2) The Asian Development Bank-assisted Review of Cost Recovery Mechanisms for NIS (2000) also recommended rates to cover full operation and maintenance cost.
 - 3) NIA is implementing a volumetric pricing of ISF on a pilot-basis for ISF collection in three national irrigation systems (NIA).
- (2) Effective immediately, the implementation of all irrigation-related projects undertaken by the Bureau of Soils and Water Management/DA will be transferred to NIA.
- (3) Capability building for local government units (LGU) and transfer of communal irrigation development to LGUs is currently being addressed.
 - 1) The turnover of the implementation of communal irrigation development to LGUs is being pursued by NIA in collaboration with the Department of Interior and Local Government and the different leagues of LGUs.
 - 2) Under the Balikatan Sagip Patubig Program (BSPP), technology transfer is effected as LGUs participate and share in the cost of construction/rehabilitation of communal irrigation projects/systems. LGUs mobilize resources and acquire technical skills in undertaking the projects. The program was launched in 1999 and still included in NIA's 2002 program.

- (4) The turnover of secondary canals and on-farm structures of NIS to Irrigators Associations (IA) is an on-going program and will be vigorously pursued under the Irrigation Management Transfer (IMT) program.
- (5) The capability building program for IAs is a continuing program, complementary to IMT.
- (6) The guidelines on simplified public bidding was approved by the NIA Board of Directors (BOD) on 27 September 1999. However, the bidding process prescribed in the latest amendments of the IRR of PD 1594 (2000) is now followed in irrigation projects. There is an immediate plan to further simplify the process as provided for under PD 1594.
- (7) NIA's priority projects, including rehabilitation programs for irrigation systems, are listed in the Medium Term Irrigation Development Program. Rehabilitation program for communal irrigation systems is undertaken under the BSPP.
- (8) The criteria for the selection and prioritization of irrigation projects are for review and finalization. AFMA focuses on Strategic Agriculture and Fishery Development Zones for infrastructure development.
- (9) NIA's research and development (R&D) activities to improve the management, effectivity and efficiency of irrigation systems are limited, subject to the availability of funds. For CY 2002, R&D activities will need PHP24 million. AFMA provides for the strengthening of NIA's Irrigation Engineering Center.
- (10) Bills proposing additional members in the NIA BOD were deliberated in both the House and Senate during the 11th Congress. Bills on the ISF condonation were likewise deliberated at the House Committee on Agriculture, Food and Fisheries. A revised version of the Bill is currently being prepared and to be filed in the 12th Congress. This will consider other provisions to give flexibility to NIA as a corporation and respond effectively to current challenges.
- (11) The DA Planning Service chairs the Task Force organized by DA to formulate plans/programs to promote the development of minor irrigation schemes.

Note: This paper was prepared by the Corporate Planning Staff – NIA (Data as of 4 September 2001).