

Table E2-11

INVENTORY OF OFFICE EQUIPMENT (SELECTED), AS OF 1990

| RIO/PIO | (Unit : No.) | | | | | | | | | | | | |
|--------------------------------------|-----------------------|------------------|-----------------|-------------|-----------------|---------------|-------------|-------------------|------------------|------------------------|------------------------|--------------|---------------|
| | Bits Printing Machine | Drafting Machine | Copying Machine | Typewriters | Air Conditioner | Time Recorder | Calculators | Personal Computer | Electric Scanner | Transparency Projector | Radio Base Transceiver | Mobile Radio | Steel Cabinet |
| Regional Irrigation Offices | | | | | | | | | | | | | |
| RIO I | 2 | 9 | 3 | 31 | 33 | 2 | 112 | 3 | | | 2 | | 98 |
| RIO II | 2 | 7 | 6 | 29 | 2 | | 34 | 3 | 1 | 4 | 4 | 10 | 35 |
| RIO III | 4 | 1 | 7 | 25 | 20 | | 48 | 2 | 1 | | | | 68 |
| RIO IV | | 6 | 1 | 20 | 8 | | 19 | 2 | | | 1 | 2 | 68 |
| RIO V | | | | | | | | | | | | | |
| RIO VI | 3 | 1 | 7 | 64 | 22 | | 161 | 2 | | | 5 | | 86 |
| RIO VII/VIII | 2 | 2 | 5 | 15 | 9 | 1 | 21 | 2 | 9 | | 2 | | 20 |
| RIO IX | | | | | | | | | | | | | |
| RIO X | | | | | | | | | | | | | |
| RIO XI | 2 | | 1 | 20 | 12 | | 34 | 5 | | | | 2 | 72 |
| RIO XII | 1 | 4 | 3 | 34 | 26 | | 89 | 3 | 1 | | 13 | 6 | 62 |
| TOTAL FOR RIOs | 16 | 30 | 29 | 235 | 132 | 3 | 519 | 24 | 11 | 5 | 27 | 20 | 510 |
| National Irrigation Systems | | | | | | | | | | | | | |
| REGION I | 1 | 16 | 8 | 42 | 8 | 5 | 147 | | 9 | | 1 | 3 | 126 |
| REGION II | 3 | 4 | 9 | 75 | 6 | | 129 | | 1 | 2 | 19 | 8 | 145 |
| REGION III | 2 | 12 | 5 | 52 | 9 | | 38 | | | | 2 | 11 | 67 |
| REGION IV | | | 6 | 28 | 12 | 14 | 98 | 2 | | | 11 | 2 | 85 |
| REGION V | | | 1 | 18 | | | 34 | | | | | | 31 |
| REGION VI | | | 2 | 65 | 5 | 3 | 153 | | 1 | | 4 | 1 | 102 |
| REGION VII/VIII | | 12 | 6 | 20 | 3 | 4 | 30 | 1 | | | 2 | 3 | 33 |
| REGION IX | | | | | | | | | | | | | |
| REGION X | 3 | 13 | 1 | 40 | 2 | | 74 | 1 | 1 | | 3 | 6 | 123 |
| REGION XI | 2 | 8 | 6 | 41 | 7 | 2 | 97 | 2 | | | 5 | 3 | 58 |
| REGION XII | 3 | 16 | 5 | 50 | 8 | 1 | 161 | 4 | | | 13 | 8 | 99 |
| TOTAL FOR NISs | 14 | 81 | 49 | 431 | 69 | 31 | 961 | 10 | 11 | 3 | 69 | 45 | 909 |
| Provincial Irrigation Offices | | | | | | | | | | | | | |
| I | | | | | | | | | | | | | |
| PIO Bocor Norte | | 1 | | 6 | | | 5 | 1 | | | | | |
| PIO Abra | | | | 3 | | | | | | | 1 | | |
| PIO Bocor Sur | 1 | | | 1 | 2 | | 6 | | | | 1 | | |
| PIO Mountain Province | | 3 | | 9 | | | 14 | | | | 1 | | |
| PIO La Union | | | | 3 | | | | | | | 1 | | |
| PIO Benguet | 1 | 1 | 1 | 8 | | | 29 | | | | 1 | | |
| PIO Pangasinan | | | | 2 | 1 | | 5 | 1 | | | | | |
| Sub-Total | 2 | 5 | 1 | 31 | 3 | 0 | 59 | 2 | 0 | 0 | 5 | 0 | 0 |
| II | | | | | | | | | | | | | |
| PIO Cagayan | 1 | 1 | | 7 | 1 | | 15 | | | | | | |
| PIO Kalinga Apayao | 0 | 0 | 0 | 6 | 1 | | 10 | 0 | | | 0 | | |
| PIO Isabela | | | 1 | 3 | 1 | | | | | | | | |
| PIO Ifugao | | | | 3 | 1 | | | | | | 1 | | |
| PIO Nueva Vizcaya | 1 | | | 4 | | | | | | | 1 | | |
| PIO Quirino | 1 | 1 | | 2 | | | 10 | | | | | | |
| Sub-Total | 3 | 2 | 1 | 25 | 4 | 0 | 35 | 0 | 0 | 0 | 2 | 0 | 0 |
| III | | | | | | | | | | | | | |
| PIO Nueva Ecija | | 2 | | 7 | 2 | | 10 | | | | | | |
| PIO Tarlac | | 1 | 1 | 6 | 3 | | 5 | | | | | | |
| PIO Zambales | | 2 | | 1 | 1 | | 3 | | | | 1 | | |
| PIO Pampanga | | 1 | 1 | 3 | 2 | | 4 | | | | 1 | | |
| PIO Balabac | | | | 1 | | | | | | | | | |
| PIO Batang | | 1 | 1 | 5 | | | 2 | | | | | | |
| Sub-Total | 0 | 7 | 3 | 23 | 8 | 0 | 24 | 0 | 0 | 0 | 2 | 0 | 0 |
| IV | | | | | | | | | | | | | |
| PIO Aurora | 1 | 1 | 1 | 4 | 1 | | 2 | | | | 1 | | |
| PIO Quezon | | | | 3 | 3 | | 15 | | | | | | |
| PIO Rizal | | 1 | | 1 | 4 | | | | | | | | |
| PIO Cavite | | | | 2 | 1 | | 7 | | | | | | |
| PIO Laguna | | 1 | | 3 | | | 2 | 1 | | | | | |
| PIO Batangas | | | | 3 | 3 | | 10 | | | | | | |
| PIO Marikina | | 1 | | 2 | | | 4 | 1 | | | 1 | | |
| PIO Mindoro Oriental | | 1 | 1 | 4 | | | 2 | | | | | | |
| PIO Mindoro Occidental | 1 | 1 | 1 | 11 | 4 | | 20 | | | | 1 | | |
| PIO Romblon | | | | 5 | | | 15 | | | | 2 | | |
| PIO Palawan | | | | | | | | | | | | | |
| Sub-Total | 2 | 6 | 3 | 38 | 16 | 0 | 77 | 2 | 0 | 0 | 3 | 0 | 0 |
| V | | | | | | | | | | | | | |
| PIO Camarines Norte | | | | 4 | 2 | 1 | 10 | | | | 1 | | |
| PIO Camarines Sur | | 1 | | 5 | | | 21 | | | | | | |
| PIO Canadara | | 1 | | 5 | | | 11 | | | | | | |
| PIO Albay | 1 | | | 7 | 1 | | 7 | | | | | | |
| PIO Sorsogon | 1 | | | 6 | | | 10 | | | | 1 | | |
| PIO Masbate | | | 2 | 7 | | | | | | | | | |
| Sub-Total | 2 | 2 | 2 | 34 | 3 | 1 | 59 | 0 | 0 | 0 | 3 | 0 | 0 |
| VI | | | | | | | | | | | | | |
| PIO Aklan | 1 | | | 4 | 1 | | 10 | | | | 1 | | |
| PIO Capiz | | | | | | | | | | | | | |
| PIO Antique | | | | 4 | | 1 | 3 | | | | 1 | | |
| PIO Iloilo | | | | 3 | | | | | | | | | |
| PIO Negros Occidental | | 1 | | 9 | 1 | | 2 | | | | 1 | | |
| Sub-Total | 1 | 1 | 0 | 29 | 2 | 1 | 15 | 0 | 0 | 0 | 3 | 0 | 0 |
| VII | | | | | | | | | | | | | |
| PIO Cebu | 1 | 1 | 1 | 5 | | 1 | 15 | 1 | | | 1 | | |
| PIO Negros Oriental | 1 | 3 | | 9 | 1 | | 20 | | | | 1 | | |
| PIO Bohol | 1 | 2 | | 6 | 3 | 1 | | | | | 1 | | |
| Sub-Total | 3 | 6 | 1 | 29 | 4 | 2 | 35 | 1 | 0 | 0 | 3 | 0 | 0 |
| VIII | | | | | | | | | | | | | |
| PIO Northern Samar | | 1 | | 4 | | | 16 | | | | 1 | | |
| PIO Samar | | | | | | | | | | | | | |
| PIO Eastern Samar | | 1 | 1 | 5 | 4 | | 8 | | | | 1 | | |
| PIO Northern Leyte | | | | | | | 31 | | | | | | |
| PIO Southern Leyte | 1 | 1 | 1 | 4 | 3 | | | | | | | | |
| Sub-Total | 1 | 3 | 2 | 13 | 7 | 0 | 55 | 0 | 0 | 0 | 2 | 0 | 0 |
| IX | | | | | | | | | | | | | |
| PIO Zamboanga del Norte | | | | 1 | | | 7 | | | | 1 | | |
| PIO Zamboanga del Sur | | | | | | | | | | | | | |
| Sub-Total | 0 | 0 | 0 | 1 | 0 | 0 | 7 | 1 | 0 | 0 | 1 | 0 | 0 |
| X | | | | | | | | | | | | | |
| PIO Surigao del Norte | | | | 2 | | | 10 | | | | | | |
| PIO Agusan del Norte | 1 | 3 | | 5 | | | | | | | 1 | | |
| PIO Misamis Oriental | | | | 1 | | | 5 | | | | | | |
| PIO Misamis Occidental | | | | | | | 3 | | | | | | |
| PIO Bukidnon | 1 | | | 3 | 1 | | 20 | | | | | | |
| PIO Agusan del Sur | 1 | | 1 | 7 | | | 8 | | | | 1 | | |
| Sub-Total | 3 | 3 | 1 | 20 | 1 | 0 | 51 | 0 | 0 | 0 | 2 | 0 | 0 |
| XI | | | | | | | | | | | | | |
| PIO Surigao del Sur | | | | 4 | | | 8 | | | | | | |
| PIO Davao Oriental | | | | 2 | | | 10 | | | | 4 | | |
| PIO Davao del Norte | 1 | | 1 | 6 | 2 | 1 | 10 | 1 | | | 8 | | |
| PIO Davao del Sur | 1 | | 1 | 7 | 2 | | 15 | 1 | | | 2 | | |
| PIO South Cotabato | 1 | 1 | 1 | 10 | 3 | 1 | 65 | 1 | | | 8 | | |
| Sub-Total | 3 | 1 | 3 | 29 | 7 | 2 | 108 | 3 | 0 | 0 | 22 | 0 | 0 |
| XII | | | | | | | | | | | | | |
| PIO Lanao del Norte | | | | 6 | 7 | 1 | 5 | | | | | | |
| PIO Lanao del Sur | | | | 4 | | | 7 | | | | 16 | | |
| PIO North Cotabato | | | 1 | 8 | 5 | | 20 | 2 | | | 2 | | |
| PIO Magadanang | | 2 | | 7 | 2 | 1 | | 4 | | | 1 | | |
| PIO Sultan Kudarat | 1 | 2 | | 4 | 1 | | 3 | 3 | | | 2 | | |
| Sub-Total | 1 | 4 | 1 | 29 | 15 | 2 | 35 | 9 | 0 | 0 | 21 | 0 | 0 |
| TOTAL FOR PIOs | 21 | 40 | 18 | 291 | 78 | 8 | 560 | 18 | 6 | 6 | 71 | 8 | 6 |
| TOTAL FOR RIOs | | | | | | | | | | | | | |
| NISs AND PIOs | 51 | 151 | 96 | 960 | 262 | 42 | 2040 | 52 | 22 | 8 | 158 | 65 | 1419 |

Sources : SSIIP Inclusion Survey for RIOs & PIOs
Annual Equipment, Supplies and Materials Inventory for Calendar Year 1990, NIA

Table E2-13 (2/2)

LIST OF EQUIPMENT PURCHASED / TO BE PURCHASED UNDER CIDP I, CIDP II AND VCIPP

(Unit : No.)

| RIO/PIO | CONSTRUCTION EQUIPMENT | | | | | | | | | | | | | VEHICLES | |
|-------------------------------|-----------------------------|--------------------------|---------------------------|------------------------|----------------|---------------------------|------------------------|-------------------|--------------------|-----------------|-------------|------------|---------------|------------|--|
| | Front-end Loader w/ Backhoe | Truck-tractor w/ Trailer | Vibratory plate compactor | Telescopic crane shaft | Concrete Mixer | Jack Hammer w/ compressor | Excavator crawler type | Concrete Vibrator | Electric Generator | Electric Welder | Stake truck | Dump truck | Pick-Up truck | Motorcycle | |
| Regional Irrigation Offices | | | | | | | | | | | | | | | |
| RIO I | | 1 | | 1 | | | | | | | | 1 | 1 | 3 | |
| RIO II | | 1 | | 1 | | | | | | | | 1 | 1 | 3 | |
| RIO III | | 1 | | 1 | | | | | | | | 1 | 1 | 2 | |
| RIO IV | | 1 | | 1 | | | | | | | | 1 | 1 | 3 | |
| RIO V | | 1 | | 1 | | | | | | | | 1 | 1 | 3 | |
| RIO VI | | 1 | | 1 | | | | | | | | 1 | 1 | 3 | |
| RIO VII/VIII | | 2 | | 2 | | | | | | | | 2 | 2 | 4 | |
| RIO IX | | 1 | | 1 | | | | | | | | 1 | 1 | 3 | |
| RIO X | | 1 | | 1 | | | | | | | | 1 | 1 | 2 | |
| RIO XI | | 1 | | 1 | | | | | | | | 1 | 1 | 3 | |
| RIO XII | | 1 | | 1 | | | | | | | | 1 | 1 | 3 | |
| TOTAL FOR RIOs | 0 | 12 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 12 | 32 | |
| Provincial Irrigation Offices | | | | | | | | | | | | | | | |
| I | | | | | | | | | | | | | | | |
| PIO Ilocos Norte | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Abra | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Ilocos Sur | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Mountain Province | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO La Union | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Benguet | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Pangasinan | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| Sub-total | 7 | 0 | 7 | 0 | 7 | 7 | 0 | 0 | 0 | 0 | 7 | 7 | 7 | 28 | |
| II | | | | | | | | | | | | | | | |
| PIO Cagayan | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Kalinga Apayao | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Isabela | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Ifugao | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Nueva Vizcaya | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Quirino | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| Sub-Total | 6 | 0 | 6 | 0 | 6 | 6 | 0 | 0 | 0 | 0 | 6 | 6 | 6 | 24 | |
| III | | | | | | | | | | | | | | | |
| PIO Nueva Ecija | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Tarlac | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Zambales | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Pampanga | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Bulacan | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Batangas | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| Sub-Total | 6 | 0 | 6 | 0 | 6 | 6 | 0 | 0 | 0 | 0 | 6 | 6 | 6 | 24 | |
| IV | | | | | | | | | | | | | | | |
| PIO Aurora | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Quezon | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Rizal | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Cavite | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Laguna | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Batangas | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Marikina | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Mindoro Oriental | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Mindoro Occidental | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Romblon | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Palawan | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| Sub-total | 11 | 0 | 11 | 0 | 11 | 11 | 0 | 0 | 0 | 0 | 11 | 11 | 11 | 44 | |
| V | | | | | | | | | | | | | | | |
| PIO Camarines Norte | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Camarines Sur | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Catanduanes | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Albay | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Sorsogon | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Masbate | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| Sub-Total | 6 | 0 | 6 | 0 | 6 | 6 | 0 | 0 | 0 | 0 | 6 | 6 | 6 | 24 | |
| VI | | | | | | | | | | | | | | | |
| PIO Aklan | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 2 | 4 | |
| PIO Capiz | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 2 | 4 | |
| PIO Antique | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 2 | 4 | |
| PIO Iloilo | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 2 | 4 | |
| PIO Negros Occidental | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 2 | 4 | |
| Sub-Total | 5 | 0 | 5 | 0 | 5 | 5 | 0 | 0 | 0 | 0 | 5 | 5 | 10 | 20 | |
| VII | | | | | | | | | | | | | | | |
| PIO Cebu | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 2 | 4 | |
| PIO Negros Oriental | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 2 | 4 | |
| PIO Bohol | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 2 | 4 | |
| Sub-Total | 3 | 0 | 3 | 0 | 3 | 3 | 0 | 0 | 0 | 0 | 3 | 3 | 6 | 12 | |
| VIII | | | | | | | | | | | | | | | |
| PIO Northern Samar | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 2 | 4 | |
| PIO Samar | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 2 | 4 | |
| PIO Eastern Samar | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 2 | 4 | |
| PIO Northern Leyte | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 2 | 4 | |
| PIO Southern Leyte | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 2 | 4 | |
| Sub-Total | 5 | 0 | 5 | 0 | 5 | 5 | 0 | 0 | 0 | 0 | 5 | 5 | 10 | 20 | |
| IX | | | | | | | | | | | | | | | |
| PIO Zamboanga del N. | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Zamboanga del Sur | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| Sub-Total | 2 | 0 | 2 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 8 | |
| X | | | | | | | | | | | | | | | |
| PIO Surigao del Norte | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Agusan del Norte | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Misamis Oriental | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Misamis Occidental | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Bukidnon | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Agusan del Sur | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| Sub-Total | 6 | 0 | 6 | 0 | 6 | 6 | 0 | 0 | 0 | 0 | 6 | 6 | 6 | 24 | |
| XI | | | | | | | | | | | | | | | |
| PIO Surigao del Sur | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Davao Oriental | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Davao del Norte | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Davao del Sur | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO South Cotabato | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| Sub-Total | 5 | 0 | 5 | 0 | 5 | 5 | 0 | 0 | 0 | 0 | 5 | 5 | 5 | 20 | |
| XII | | | | | | | | | | | | | | | |
| PIO Lanao del Norte | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Lanao del Sur | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO North Cotabato | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Maguindanao | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| PIO Sultan Kudarat | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | 4 | |
| Sub-Total | 5 | 0 | 5 | 0 | 5 | 5 | 0 | 0 | 0 | 0 | 5 | 5 | 5 | 20 | |
| TOTAL FOR PIOs | 67 | 0 | 67 | 0 | 116* | 67 | 13 | 23 | 0 | 0 | 28 | 67 | 67 | 268 | |
| TOTAL FOR RIOs | | | | | | | | | | | | | | | |
| AND PIOs | 67 | 12 | 67 | 12 | 116 | 67 | 13 | 23** | 0 | 28** | 67 | 79 | 92 | 300 | |

* 49 units to be distributed to unknown PIOs.

** To be distributed to PIOs without the equipment.

Sources : NIA CIDP/CIOIP Group, Feasibility Study on Communal Development Project II and Feasibility Study on Visayas Communal Irrigation Participatory Program

Table E2-14 (2/2)

LIST OF EQUIPMENT PURCHASED / TO BE PURCHASED UNDER CIDP I

(Unit : No.)

| RIO/PIO | CONSTRUCTION EQUIPMENT | | | | | | | | | | | | VEHICLES | |
|-------------------------------|-----------------------------|--------------------------|---------------------------|------------------------|----------------|---------------------------|------------------------|-------------------|--------------------|-----------------|------------|-------------|---------------|------------|
| | Front-end Loader w/ Backhoe | Truck-tractor w/ Trailer | Vibratory plate compactor | Telescopic crane shaft | Concrete Mixer | Jack Hammer w/ compressor | Excavator crawler type | Concrete Vibrator | Electric Generator | Electric Welder | Dump truck | Stake truck | Pick-Up truck | Motorcycle |
| Regional Irrigation Offices | | | | | | | | | | | | | | |
| RIO I | | 1 | | 1 | | | | | | | 1 | | 1 | 3 |
| RIO II | | 1 | | 1 | | | | | | | 1 | | 1 | 3 |
| RIO III | | 1 | | 1 | | | | | | | 1 | | 1 | 2 |
| RIO IV | | 1 | | 1 | | | | | | | 1 | | 1 | 3 |
| RIO V | | 1 | | 1 | | | | | | | 1 | | 1 | 3 |
| RIO VI | | 1 | | 1 | | | | | | | 1 | | 1 | 3 |
| RIO VII/VIII | | 2 | | 2 | | | | | | | 2 | | 2 | 4 |
| RIO IX | | 1 | | 1 | | | | | | | 1 | | 1 | 3 |
| RIO X | | 1 | | 1 | | | | | | | 1 | | 1 | 2 |
| RIO XI | | 1 | | 1 | | | | | | | 1 | | 1 | 3 |
| RIO XII | | 1 | | 1 | | | | | | | 1 | | 1 | 3 |
| TOTAL FOR RIOs | 0 | 12 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 12 | 32 |
| Provincial Irrigation Offices | | | | | | | | | | | | | | |
| I | PIO Ilocos Norte | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Abra | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Ilocos Sur | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Mountain Province | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO La Union | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Benguet | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Pangasinan | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | Sub-Total | 7 | 0 | 7 | 0 | 7 | 7 | 0 | 0 | 0 | 0 | 7 | 7 | 28 |
| II | PIO Cagayan | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Kalinga Apayao | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Isabela | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Ifugao | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Nueva Vizcaya | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Quirino | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | Sub-Total | 6 | 0 | 6 | 0 | 6 | 6 | 0 | 0 | 0 | 0 | 6 | 6 | 24 |
| III | PIO Nueva Ecija | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Tarlac | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Zambales | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Pampanga | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Bulacan | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Batangas | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | Sub-Total | 6 | 0 | 6 | 0 | 6 | 6 | 0 | 0 | 0 | 0 | 6 | 6 | 24 |
| IV | PIO Aurora | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Quezon | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Rizal | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Cavite | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Laguna | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Batangas | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Marikina | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Mindoro Oriental | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Mindoro Occidental | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Romblon | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Palawan | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | Sub-Total | 11 | 0 | 11 | 0 | 11 | 11 | 0 | 0 | 0 | 0 | 11 | 11 | 44 |
| V | PIO Camarines Norte | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Camarines Sur | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Cebu | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Albay | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Sorsogon | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Masbate | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | Sub-Total | 6 | 0 | 6 | 0 | 6 | 6 | 0 | 0 | 0 | 0 | 6 | 6 | 24 |
| VI | PIO Aklan | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Capiz | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Antique | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Bohol | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Negros Occidental | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | Sub-Total | 5 | 0 | 5 | 0 | 5 | 5 | 0 | 0 | 0 | 0 | 5 | 5 | 20 |
| VII | PIO Cebu | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Negros Oriental | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Bohol | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | Sub-Total | 3 | 0 | 3 | 0 | 3 | 3 | 0 | 0 | 0 | 0 | 3 | 3 | 12 |
| VIII | PIO Northern Samar | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Samar | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Eastern Samar | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Northern Leyte | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Southern Leyte | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | Sub-Total | 5 | 0 | 5 | 0 | 5 | 5 | 0 | 0 | 0 | 0 | 5 | 5 | 20 |
| IX | PIO Zamboanga del N. | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Zamboanga del Sur | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | Sub-Total | 2 | 0 | 2 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 2 | 2 | 8 |
| X | PIO Surigao del Norte | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Agusan del Norte | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Misamis Oriental | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Misamis Occidental | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Bukidnon | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Agusan del Sur | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | Sub-Total | 6 | 0 | 6 | 0 | 6 | 6 | 0 | 0 | 0 | 0 | 6 | 6 | 24 |
| XI | PIO Surigao del Sur | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Davao Oriental | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Davao del Norte | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Davao del Sur | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO South Cotabato | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | Sub-Total | 5 | 0 | 5 | 0 | 5 | 5 | 0 | 0 | 0 | 0 | 5 | 5 | 20 |
| XII | PIO Lanao de Norte | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Lanao del Sur | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO North Cotabato | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Maguindanao | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | PIO Sultan Kudarat | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | 4 |
| | Sub-Total | 5 | 0 | 5 | 0 | 5 | 5 | 0 | 0 | 0 | 0 | 5 | 5 | 20 |
| TOTAL FOR PIOs | 67 | 0 | 67 | 0 | 67 | 67 | 0 | 0 | 0 | 0 | 0 | 67 | 67 | 268 |
| TOTAL FOR RIOs AND PIOs | 67 | 12 | 67 | 12 | 67 | 67 | 0 | 0 | 0 | 0 | 12 | 67 | 79 | 300 |

Source : NIA CIDP/CIDP Group

LIST OF EQUIPMENT PURCHASED / TO BE PURCHASED UNDER CIDP II

(Unit : No.)

| RIO/PIO | OFFICE EQUIPMENT | | | CONSTRUCTION EQUIPMENT | | | | VEHICLES |
|-------------------------------|------------------|-------------------|---------|------------------------|-------------------|--------------------|-----------------|------------|
| | Micro-Computer | Manual Typewriter | Others* | Concrete Mixer | Concrete Vibrator | Electric Generator | Electric Welder | Dump truck |
| Regional Irrigation Offices | | | | | | | | |
| RIO I | 1 | | | | | 1 | | |
| RIO II | 1 | | | | | 1 | | |
| RIO III | 1 | | | | | 1 | | |
| RIO IV | 1 | | | | | 1 | | |
| RIO V | 1 | | | | | 1 | | |
| RIO VI | 1 | | | | | 1 | | |
| RIO VII/VIII | 2 | | | | | 2 | | |
| RIO IX | 1 | | | | | 1 | | |
| RIO X | 1 | | | | | 1 | | |
| RIO XI | 1 | | | | | 1 | | |
| RIO XII | 1 | | | | | 1 | | |
| TOTAL FOR RIOs | 12 | 0 | 0 | 0 | 0 | 12 | 0 | 0 |
| Provincial Irrigation Offices | | | | | | | | |
| I | | | | | | | | |
| PIO Ilocos Norte | 1 | 2 | | | | | | 1 |
| PIO Abra | 1 | 2 | | | | | | 1 |
| PIO Ilocos Sur | 1 | 2 | | | | | | 1 |
| PIO Mountain Province | 1 | 2 | | | | | | 1 |
| PIO La Union | 1 | 2 | | | | | | 1 |
| PIO Benguet | 1 | 2 | | | | | | 1 |
| PIO Pangasinan | 1 | 2 | | | | | | 1 |
| Sub-total | 7 | 14 | 0 | 0 | 0 | 0 | 0 | 7 |
| II | | | | | | | | |
| PIO Cagayan | 1 | 2 | | | | | | 1 |
| PIO Kalinga Apayzo | 1 | 2 | | | | | | 1 |
| PIO Isabela | 1 | 2 | | | | | | 1 |
| PIO Ifugao | 1 | 2 | | | | | | 1 |
| PIO Nueva Vizcaya | 1 | 2 | | | | | | 1 |
| PIO Quirino | 1 | 2 | | | | | | 1 |
| Sub-Total | 6 | 12 | 0 | 0 | 0 | 0 | 0 | 6 |
| III | | | | | | | | |
| PIO Nueva Ecija | 1 | 2 | | | | | | 1 |
| PIO Tarlac | 1 | 2 | | | | | | 1 |
| PIO Zambales | 1 | 2 | | | | | | 1 |
| PIO Pampanga | 1 | 2 | | | | | | 1 |
| PIO Bulacan | 1 | 2 | | | | | | 1 |
| PIO Bataan | 1 | 2 | | | | | | 1 |
| Sub-Total | 6 | 12 | 0 | 0 | 0 | 0 | 0 | 6 |
| IV | | | | | | | | |
| PIO Aurora | 1 | 2 | | | | | | 1 |
| PIO Quezon | 1 | 2 | | | | | | 1 |
| PIO Rizal | 1 | 2 | | | | | | 1 |
| PIO Cavite | 1 | 2 | | | | | | 1 |
| PIO Laguna | 1 | 2 | | | | | | 1 |
| PIO Batangas | 1 | 2 | | | | | | 1 |
| PIO Marikinaque | 1 | 2 | | | | | | 1 |
| PIO Mindoro Oriental | 1 | 2 | | | | | | 1 |
| PIO Mindoro Occidental | 1 | 2 | | | | | | 1 |
| PIO Romblon | 1 | 2 | | | | | | 1 |
| PIO Palawan | 1 | 2 | | | | | | 1 |
| Sub-total | 11 | 22 | 0 | 0 | 0 | 0 | 0 | 11 |
| V | | | | | | | | |
| PIO Camarines Norte | 1 | 2 | | | | | | 1 |
| PIO Camarines Sur | 1 | 2 | | | | | | 1 |
| PIO Cebu | 1 | 2 | | | | | | 1 |
| PIO Albay | 1 | 2 | | | | | | 1 |
| PIO Sorsogon | 1 | 2 | | | | | | 1 |
| PIO Masbate | 1 | 2 | | | | | | 1 |
| Sub-Total | 6 | 12 | 0 | 0 | 0 | 0 | 0 | 6 |
| VI | | | | | | | | |
| PIO Aklan | 1 | 2 | | | | | | 1 |
| PIO Capiz | 1 | 2 | | | | | | 1 |
| PIO Antique | 1 | 2 | | | | | | 1 |
| PIO Iloilo | 1 | 2 | | | | | | 1 |
| PIO Negros Occidental | 1 | 2 | | | | | | 1 |
| Sub-Total | 5 | 10 | 0 | 0 | 0 | 0 | 0 | 5 |
| VII | | | | | | | | |
| PIO Cebu | 1 | 2 | | | | | | 1 |
| PIO Negros Oriental | 1 | 2 | | | | | | 1 |
| PIO Bohol | 1 | 2 | | | | | | 1 |
| Sub-total | 3 | 6 | 0 | 0 | 0 | 0 | 0 | 3 |
| VIII | | | | | | | | |
| PIO Northern Samar | 1 | 2 | | | | | | 1 |
| PIO Samar | 1 | 2 | | | | | | 1 |
| PIO Eastern Samar | 1 | 2 | | | | | | 1 |
| PIO Northern Leyte | 1 | 2 | | | | | | 1 |
| PIO Southern Leyte | 1 | 2 | | | | | | 1 |
| Sub-Total | 5 | 10 | 0 | 0 | 0 | 0 | 0 | 5 |
| IX | | | | | | | | |
| PIO Zamboanga del N. | 1 | 2 | | | | | | 1 |
| PIO Zamboanga del Sur | 1 | 2 | | | | | | 1 |
| Sub-Total | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 2 |
| X | | | | | | | | |
| PIO Surigao del Norte | 1 | 2 | | | | | | 1 |
| PIO Agusan del Norte | 1 | 2 | | | | | | 1 |
| PIO Misamis Oriental | 1 | 2 | | | | | | 1 |
| PIO Misamis Occidental | 1 | 2 | | | | | | 1 |
| PIO Davao | 1 | 2 | | | | | | 1 |
| PIO Agusan del Sur | 1 | 2 | | | | | | 1 |
| Sub-Total | 6 | 12 | 0 | 0 | 0 | 0 | 0 | 6 |
| XI | | | | | | | | |
| PIO Surigao del Sur | 1 | 2 | | | | | | 1 |
| PIO Davao Oriental | 1 | 2 | | | | | | 1 |
| PIO Davao del Norte | 1 | 2 | | | | | | 1 |
| PIO Davao del Sur | 1 | 2 | | | | | | 1 |
| PIO South Cotabato | 1 | 2 | | | | | | 1 |
| Sub-Total | 5 | 10 | 0 | 0 | 0 | 0 | 0 | 5 |
| XII | | | | | | | | |
| PIO Lanao del Norte | 1 | 2 | | | | | | 1 |
| PIO Lanao del Sur | 1 | 2 | | | | | | 1 |
| PIO North Cotabato | 1 | 2 | | | | | | 1 |
| PIO Maguindanao | 1 | 2 | | | | | | 1 |
| PIO Sultan Kudarat | 1 | 2 | | | | | | 1 |
| Sub-Total | 5 | 10 | 0 | 0 | 0 | 0 | 0 | 5 |
| TOTAL FOR PIOs | 67 | 134 | 0 | 49 | 23 | 0 | 28 | 67 |
| TOTAL FOR RIOs | | | | | | | | |
| AND PIOs | 79 | 134 | 0 | 49* | 23* | 12 | 28* | 67 |

* To be distributed to RIOs/PIOs without these equipment.

Source : Feasibility Study on Communal Irrigation Development Project II

LIST OF EQUIPMENT PURCHASED / TO BE PURCHASED UNDER VCIPP

(Unit : No.)

| RIO/PIO | OFFICE EQUIPMENT | | | | | CONSTR. EQUIPMENT | VEHICLES |
|-------------------------------|------------------|-------------------|-------------------------|---------------------|----------------------|------------------------|---------------|
| | Micro-Computer | Manual Typewriter | VHF/FM Base Transceiver | VHF/FM Mobile Radio | Desk Top Calculators | Excavator crawler type | Pick-Up truck |
| Regional Irrigation Offices | | | | | | | |
| RIO I | | | | | | | |
| RIO II | | | | | | | |
| RIO III | | | | | | | |
| RIO IV | | | | | | | |
| RIO V | | | | | | | |
| RIO VI | 1 | 3 | 1 | 3 | 4 | | |
| RIO VII/VIII | 2 | 6 | 2 | 6 | 4 | | |
| RIO IX | | | | | | | |
| RIO X | | | | | | | |
| RIO XI | | | | | | | |
| RIO XII | | | | | | | |
| TOTAL FOR RIOs | 3 | 9 | 3 | 9 | 8 | 0 | 0 |
| Provincial Irrigation Offices | | | | | | | |
| I PIO Ilocos Norte | | | | | | | |
| PIO Abra | | | | | | | |
| PIO Ilocos Sur | | | | | | | |
| PIO Mountain Province | | | | | | | |
| PIO La Union | | | | | | | |
| PIO Benguet | | | | | | | |
| PIO Pangasinan | | | | | | | |
| Sub-Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| II PIO Cagayan | | | | | | | |
| PIO Kalinga Apayao | | | | | | | |
| PIO Isabela | | | | | | | |
| PIO Ifugao | | | | | | | |
| PIO Nueva Vizcaya | | | | | | | |
| PIO Quirino | | | | | | | |
| Sub-Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| III PIO Nueva Ecija | | | | | | | |
| PIO Tarlac | | | | | | | |
| PIO Zambales | | | | | | | |
| PIO Pampanga | | | | | | | |
| PIO Bulacan | | | | | | | |
| Sub-Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IV PIO Aurora | | | | | | | |
| PIO Quezon | | | | | | | |
| PIO Rizal | | | | | | | |
| PIO Cavite | | | | | | | |
| PIO Laguna | | | | | | | |
| PIO Batangas | | | | | | | |
| PIO Marinduque | | | | | | | |
| PIO Mindoro Oriental | | | | | | | |
| PIO Mindoro Occidental | | | | | | | |
| PIO Romblon | | | | | | | |
| PIO Palawan | | | | | | | |
| Sub-Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V PIO Camarines Norte | | | | | | | |
| PIO Camarines Sur | | | | | | | |
| PIO Catanduanes | | | | | | | |
| PIO Albay | | | | | | | |
| PIO Sorsogon | | | | | | | |
| PIO Masbate | | | | | | | |
| Sub-Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| VI PIO Aklan | 1 | 2 | | 2 | 4 | 1 | 1 |
| PIO Capiz | 1 | 2 | | 2 | 4 | 1 | 1 |
| PIO Antique | 1 | 2 | | 2 | 4 | 1 | 1 |
| PIO Iloilo | 1 | 2 | | 2 | 4 | 1 | 1 |
| PIO Negros Occidental | 1 | 2 | | 2 | 4 | 1 | 1 |
| Sub-Total | 5 | 10 | 0 | 10 | 20 | 5 | 5 |
| VII PIO Cebu | 1 | 2 | | 2 | 4 | 1 | 1 |
| PIO Negros Oriental | 1 | 2 | | 2 | 4 | 1 | 1 |
| PIO Bohol | 1 | 2 | | 2 | 4 | 1 | 1 |
| Sub-Total | 3 | 6 | 0 | 6 | 12 | 3 | 3 |
| VIII PIO Northern Samar | 1 | 2 | | 2 | 4 | 1 | 1 |
| PIO Samar | 1 | 2 | | 2 | 4 | 1 | 1 |
| PIO Eastern Samar | 1 | 2 | | 2 | 4 | 1 | 1 |
| PIO Northern Leyte | 1 | 2 | | 2 | 4 | 1 | 1 |
| PIO Southern Leyte | 1 | 2 | | 2 | 4 | 1 | 1 |
| Sub-Total | 5 | 10 | 0 | 10 | 20 | 5 | 5 |
| IX PIO Zamboanga del N. | | | | | | | |
| PIO Zamboanga del Sur | | | | | | | |
| Sub-Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| X PIO Surigao del Norte | | | | | | | |
| PIO Agusan del Norte | | | | | | | |
| PIO Misamis Oriental | | | | | | | |
| PIO Misamis Occidental | | | | | | | |
| PIO Bukidnon | | | | | | | |
| PIO Agusan del Sur | | | | | | | |
| Sub-Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| XI PIO Surigao del Sur | | | | | | | |
| PIO Davao Oriental | | | | | | | |
| PIO Davao del Norte | | | | | | | |
| PIO Davao del Sur | | | | | | | |
| PIO South Cotabato | | | | | | | |
| Sub-Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| XII PIO Lanao de Norte | | | | | | | |
| PIO Lanao del Sur | | | | | | | |
| PIO North Cotabato | | | | | | | |
| PIO Maguindanao | | | | | | | |
| PIO Sultan Kudarat | | | | | | | |
| Sub-Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL FOR PIOs | 13 | 26 | 0 | 26 | 52 | 13 | 13 |
| TOTAL FOR RIOs AND PIOs | 16 | 35 | 3 | 35 | 60 | 13 | 13 |

Source : Feasibility Study on Visayas Communal Irrigation Participatory Program

Table E2-17

FAMILIARITY OR KNOWLEDGE OF THE RIO/PIO STAFF AS A WHOLE
ON THE SPECIFIC PROVISIONS OF THE GUIDELINES MANUAL
ON COMMUNAL IRRIGATION DEVELOPMENT PROGRAM

| Provisions | RIOs | | | | PIOs | | | | RIOs and PIOs | | | |
|--|---------------|----------|---------------|--------------|---------------|----------|---------------|--------------|---------------|----------|---------------|--------------|
| | Very Familiar | Familiar | Less Familiar | Not Familiar | Very Familiar | Familiar | Less Familiar | Not Familiar | Very Familiar | Familiar | Less Familiar | Not Familiar |
| Preparation of 5-Year CIDP | 8 | 3 | 0 | 0 | 28 | 38 | 0 | 0 | 36 | 41 | 0 | 0 |
| Preparation of Provincial Annual Program | - | - | - | - | 23 | 43 | 0 | 0 | 23 | 43 | 0 | 0 |
| Preparation of Regional Annual Program | 8 | 3 | 0 | 0 | - | - | - | - | 8 | 3 | 0 | 0 |
| Identification of Communal Irrigation Projects | 8 | 3 | 0 | 0 | 37 | 29 | 1 | 0 | 45 | 32 | 1 | 0 |
| Standard Derivation of Unit Cost for Investigation and Survey | 8 | 3 | 0 | 0 | 24 | 43 | 1 | 0 | 32 | 46 | 1 | 0 |
| Conduct of Preliminary Investigation for Communal Irrigation Projects | 9 | 2 | 0 | 0 | 33 | 34 | 0 | 0 | 42 | 36 | 0 | 0 |
| Gathering of Discharge Measurement for Communal Irrigation Projects | 9 | 2 | 0 | 0 | 34 | 32 | 1 | 0 | 43 | 34 | 1 | 0 |
| Agro-Economic Data Gathering for Feasibility Study Report | 9 | 1 | 1 | 0 | 24 | 40 | 3 | 0 | 33 | 41 | 4 | 0 |
| Simplified Soil Texture Determination and Soil Nutrient Analysis | 3 | 5 | 3 | 0 | 12 | 27 | 23 | 3 | 15 | 32 | 26 | 3 |
| Institutional Profile Writing | 8 | 3 | 0 | 0 | 16 | 38 | 8 | 4 | 24 | 41 | 8 | 4 |
| Recruitment of Profile Writers | 6 | 5 | 0 | 0 | 9 | 31 | 11 | 6 | 15 | 36 | 11 | 6 |
| Suggested Prototype Design on CIS Profile Writers | 4 | 5 | 2 | 0 | 5 | 22 | 23 | 8 | 9 | 27 | 25 | 8 |
| Planning and Monitoring System for Profile Writers | 5 | 5 | 1 | 0 | 7 | 23 | 22 | 8 | 12 | 28 | 23 | 8 |
| Conduct of Profile Writers Performance Evaluation | 4 | 6 | 1 | 0 | 4 | 24 | 18 | 13 | 8 | 30 | 19 | 13 |
| Preparation of Initial Feasibility Study Report | 8 | 3 | 0 | 0 | 25 | 41 | 1 | 0 | 33 | 44 | 1 | 0 |
| Conduct of Topographic Survey for Communal Irrigation Projects | 7 | 4 | 0 | 0 | 38 | 28 | 1 | 0 | 45 | 32 | 1 | 0 |
| Preparation of Final Project Feasibility Report | 7 | 4 | 0 | 0 | 25 | 41 | 1 | 0 | 32 | 45 | 1 | 0 |
| Conduct of Project Selection and Prioritization Workshop | 5 | 5 | 1 | 0 | 22 | 40 | 4 | 0 | 27 | 45 | 5 | 0 |
| IOW Recruitment and Selection Guidelines | 7 | 4 | 0 | 0 | 26 | 33 | 6 | 0 | 33 | 37 | 6 | 0 |
| Conduct of ICO/IOW Performance Evaluation | 7 | 3 | 1 | 0 | 24 | 38 | 5 | 0 | 31 | 41 | 6 | 0 |
| Sample Joint NIA-IA Policies and Systems for Construction | 6 | 5 | 0 | 0 | 27 | 39 | 1 | 0 | 33 | 44 | 1 | 0 |
| Checklist of Requirement Prior to Project Construction | 7 | 4 | 0 | 0 | 30 | 37 | 0 | 0 | 37 | 41 | 0 | 0 |
| IA Viability Evaluation | 5 | 6 | 0 | 0 | 18 | 40 | 5 | 0 | 23 | 46 | 5 | 0 |
| Conduct of Orientation and Planning Workshop on Farm Level Facilities and System Maintenance | 3 | 7 | 1 | 0 | 18 | 42 | 6 | 1 | 21 | 49 | 7 | 1 |
| Conduct of Pre-Operation and Maintenance Conference | 3 | 7 | 0 | 0 | 19 | 44 | 4 | 0 | 22 | 51 | 4 | 0 |
| Conduct of Test-Run for Communal Irrigation Projects | 6 | 4 | 0 | 0 | 16 | 28 | 1 | 0 | 22 | 32 | 1 | 0 |
| Repair of Damages of Communal Irrigation Projects/Systems | 6 | 5 | 0 | 0 | 29 | 35 | 3 | 0 | 35 | 40 | 3 | 0 |
| Turnover of Communal Irrigation Systems | 6 | 5 | 0 | 0 | 38 | 28 | 1 | 0 | 44 | 33 | 1 | 0 |
| Preparation of Project Completion Report | 6 | 4 | 1 | 0 | 20 | 39 | 8 | 0 | 26 | 43 | 9 | 0 |
| Cancellation, Deferment and Suspension of Communal Irrigation Project | 3 | 8 | 0 | 0 | 16 | 37 | 12 | 2 | 19 | 45 | 12 | 2 |
| Reallocation of Funds | 6 | 5 | 0 | 0 | 18 | 35 | 11 | 2 | 24 | 40 | 11 | 2 |
| Standard Cost Basis for Institutional Development | 2 | 8 | 1 | 0 | 9 | 43 | 13 | 0 | 11 | 51 | 14 | 0 |
| Preparation of Provincial Irrigation Profile | 6 | 2 | 1 | 0 | 19 | 41 | 4 | 1 | 25 | 43 | 5 | 1 |
| Communal Irrigation Implementation Network | 6 | 5 | 0 | 0 | 18 | 43 | 2 | 1 | 24 | 48 | 2 | 1 |
| Average | 6 | 4 | 1 | 0 | 22 | 36 | 7 | 2 | 28 | 40 | 7 | 1 |

Source: SSIDP Institutional Survey for RIOs and PIOs

Table E2-18

REVISIONS NEEDED ON THE SPECIFIC PROVISIONS
OF THE GUIDELINES MANUAL ON COMMUNAL
IRRIGATION DEVELOPMENT PROGRAM

| sions | RIOs | | | PIOs | | | RIOs and PIOs | | |
|--|-----------|----------|----------|----------|-----------|-----------|---------------|-----------|-----------|
| | Total | Partial | None | Total | Partial | None | Total | Partial | None |
| Preparation of 5-Year CIDP | 0 | 4 | 3 | 0 | 41 | 9 | 0 | 45 | 12 |
| Preparation of Provincial Annual Program | - | - | - | 0 | 34 | 20 | 0 | 34 | 20 |
| Preparation of Regional Annual Program | 0 | 4 | 3 | - | - | - | 0 | 14 | 3 |
| Identification of Communal Irrigation Projects | 0 | 3 | 4 | 0 | 29 | 4 | 0 | 32 | 18 |
| Standard Derivation of Unit Cost for Investigation and Survey | 1 | 4 | 2 | 1 | 26 | 20 | 2 | 30 | 22 |
| Conduct of Preliminary Investigation for Communal Irrigation Projects | 0 | 0 | 6 | 0 | 21 | 24 | 0 | 21 | 30 |
| Gathering of Discharge Measurement for Communal Irrigation Projects | 0 | 0 | 6 | 0 | 15 | 28 | 0 | 15 | 34 |
| Agro-Economic Data Gathering for Feasibility Study Report | 0 | 1 | 5 | 0 | 23 | 21 | 0 | 24 | 26 |
| Simplified Soil Texture Determination and Soil Nutrient Analysis | 0 | 0 | 6 | 0 | 20 | 22 | 0 | 20 | 28 |
| Institutional Profile Writing | 0 | 4 | 2 | 0 | 22 | 22 | 0 | 26 | 24 |
| Recruitment of Profile Writers | 0 | 3 | 3 | 0 | 17 | 27 | 0 | 20 | 30 |
| Suggested Prototype Design on CIS Profile Writers | 0 | 1 | 4 | 0 | 14 | 24 | 0 | 15 | 28 |
| Planning and Monitoring System for Profile Writers | 1 | 1 | 3 | 0 | 15 | 24 | 1 | 16 | 27 |
| Conduct of Profile Writers Performance Evaluation | 0 | 1 | 5 | 0 | 17 | 21 | 0 | 18 | 26 |
| Preparation of Initial Feasibility Study Report | 0 | 2 | 4 | 0 | 20 | 22 | 0 | 22 | 26 |
| Conduct of Topographic Survey for Communal Irrigation Projects | 0 | 1 | 4 | 0 | 16 | 26 | 17 | 30 | 0 |
| Preparation of Final Project Feasibility Report | 0 | 2 | 3 | 0 | 18 | 27 | 0 | 20 | 30 |
| Conduct of Project Selection and Prioritization Workshop | 0 | 1 | 6 | 2 | 21 | 21 | 2 | 22 | 27 |
| IOW Recruitment and Selection Guidelines | 0 | 3 | 3 | 1 | 14 | 27 | 1 | 17 | 30 |
| Conduct of ICO/IOW Performance Evaluation | 0 | 2 | 3 | 1 | 18 | 26 | 1 | 20 | 29 |
| Sample Joint NIA-IA Policies and Systems for Construction | 0 | 0 | 6 | 0 | 19 | 23 | 0 | 19 | 29 |
| Checklist of Requirement Prior to Project Construction | 0 | 1 | 5 | 0 | 14 | 29 | 0 | 15 | 34 |
| IA Viability Evaluation | 0 | 0 | 6 | 1 | 19 | 23 | 1 | 19 | 29 |
| Conduct of Orientation and Planning Workshop on Farm Level Facilities and System Maintenance | 0 | 1 | 4 | 0 | 19 | 26 | 0 | 20 | 30 |
| Conduct of Pre-Operation and Maintenance Conference | 0 | 0 | 5 | 0 | 13 | 29 | 0 | 13 | 34 |
| Conduct of Test-Run for Communal Irrigation Projects | 0 | 1 | 3 | 2 | 9 | 23 | 2 | 10 | 26 |
| Repair of Damages of Communal Irrigation Projects/Systems | 0 | 1 | 4 | 1 | 18 | 25 | 1 | 19 | 29 |
| Turnover of Communal Irrigation Systems | 0 | 1 | 4 | 1 | 11 | 30 | 1 | 12 | 34 |
| Preparation of Project Completion Report | 0 | 1 | 4 | 1 | 13 | 27 | 1 | 14 | 31 |
| Cancellation, Deferment and Suspension of Communal Irrigation Project | 0 | 2 | 4 | 1 | 13 | 26 | 1 | 15 | 30 |
| Reallocation of Funds | 1 | 0 | 5 | 1 | 15 | 23 | 2 | 15 | 28 |
| Standard Cost Basis for Institutional Development | 0 | 0 | 5 | 3 | 15 | 22 | 3 | 15 | 27 |
| Preparation of Provincial Irrigation Profile | 0 | 1 | 4 | 0 | 18 | 23 | 0 | 19 | 27 |
| Communal Irrigation Implementation Network | 0 | 2 | 4 | 1 | 15 | 27 | 1 | 17 | 31 |
| Average | .* | 2 | 4 | 1 | 18 | 24 | 1 | 20 | 28 |

* Negligible

Source: SSIDP Institutional Survey for RIOs and PIOs

IMPACTS OF THE PARTICIPATORY APPROACH

(Unit : no.)

| Areas and Levels of Impact | RIOs | | PIOs | | RIOs and PIOs | |
|--|------|----------|------|----------|---------------|----------|
| | Nos. | Percent* | Nos. | Percent* | Nos. | Percent* |
| <u>Engineering/Technical Aspects</u> | | | | | | |
| Substantial | 7 | 70.0 | 15 | 24.6 | 22 | 31.0 |
| Minimal | 3 | 30.0 | 44 | 72.1 | 47 | 66.2 |
| None | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| No data | 0 | 0.0 | 2 | 3.3 | 2 | 2.8 |
| Sub-Total | 10 | 100.0 | 61 | 100.0 | 71 | 100.0 |
| <u>Project Costs</u> | | | | | | |
| Substantial Reduction | 2 | 20.0 | 4 | 6.6 | 6 | 8.5 |
| Minimal Reduction | 2 | 20.0 | 19 | 31.1 | 21 | 29.6 |
| No Change | 0 | 0.0 | 5 | 8.2 | 5 | 7.0 |
| Minimal Increase | 5 | 50.0 | 20 | 32.8 | 25 | 35.2 |
| Substantial Increase | 1 | 10.0 | 9 | 14.7 | 10 | 14.1 |
| No data | 0 | 0.0 | 4 | 6.6 | 4 | 5.6 |
| Sub-Total | 10 | 100.0 | 61 | 100.0 | 71 | 100.0 |
| <u>Project Economic Benefits</u> | | | | | | |
| Substantial Increase | 1 | 10.0 | 11 | 18.0 | 12 | 16.9 |
| Minimal Increase | 6 | 60.0 | 33 | 54.1 | 39 | 54.9 |
| No Change | 0 | 0.0 | 2 | 3.3 | 2 | 2.8 |
| Minimal Reduction | 2 | 20.0 | 9 | 14.8 | 11 | 15.5 |
| Substantial Reduction | 0 | 0.0 | 1 | 1.6 | 1 | 1.4 |
| No data | 1 | 10.0 | 5 | 8.2 | 6 | 8.5 |
| Sub-Total | 10 | 100.0 | 61 | 100.0 | 71 | 100.0 |
| <u>IA Awareness and Assertiveness</u> | | | | | | |
| Highly Stimulated | 4 | 40.0 | 34 | 55.7 | 38 | 53.5 |
| Fairly Stimulated | 5 | 50.0 | 27 | 44.3 | 32 | 45.1 |
| Poorly Stimulated | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Not Stimulated | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| No data | 1 | 10.0 | 0 | 0.0 | 1 | 1.4 |
| Sub-Total | 10 | 100.0 | 61 | 100.0 | 71 | 100.0 |
| <u>Relationship Between IAs and NIA</u> | | | | | | |
| IAs Become Highly Dependent on NIA | 1 | 10.0 | 2 | 3.3 | 3 | 4.2 |
| IAs stand on their own feet but still consult NIA | 9 | 90.0 | 59 | 96.7 | 68 | 95.8 |
| IAs Severe their Relationship with NIA | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| No data | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Sub-Total | 10 | 100.0 | 61 | 100.0 | 71 | 100.0 |
| <u>Relationship Between IAs and Other Government Agencies</u> | | | | | | |
| IAs Expected Other Agencies to Adopt Participatory Approach as Well | 7 | 70.0 | 22 | 36.1 | 29 | 40.8 |
| IAs Don't Have This Expectation and Simply Follow Other Agencies Approach | 2 | 20.0 | 14 | 23.0 | 16 | 22.5 |
| IAs Suggested Adoption of Participatory Approach but Still Respect Other Agencies' Decisions | 1 | 10.0 | 22 | 36.1 | 23 | 32.4 |

* In relation to the total number of respondents : 10 RIOs and 61 PIOs

Source : SSIDP Institutional survey for RIOs and PIOs

Table E2-20

**FACTORS CONTRIBUTING TO AN EFFECTIVE
PERFORMANCE OF RIOs AND PIOs**

| Factors and Level of Effectivity | (Unit : no.) | | | | | |
|---|--------------|-----------|------|-----------|---------------|-----------|
| | RIOs | | PIOs | | RIOs and PIOs | |
| | Nos. | Percent * | Nos. | Percent * | Nos. | Percent * |
| Adequate and Qualified Manpower | | | | | | |
| Highly Significant | 6 | 60.0 | 42 | 68.9 | 48 | 67.6 |
| Significant | 4 | 40.0 | 16 | 26.2 | 20 | 28.2 |
| Less Significant | 0 | 0.0 | 0 | - | 0 | 0.0 |
| Not Significant | 0 | 0.0 | 0 | - | 0 | 0.0 |
| No data | 0 | 0.0 | 3 | 4.9 | 3 | 4.2 |
| Sub-Total | 10 | 100.0 | 61 | 100.0 | 71 | 100.0 |
| Adequate and Timely Budgetary | | | | | | |
| Highly Significant | 8 | 80.0 | 45 | 73.8 | 53 | 74.6 |
| Significant | 2 | 20.0 | 13 | 21.3 | 15 | 21.1 |
| Less Significant | 0 | 0.0 | 2 | 3.3 | 2 | 2.8 |
| Not Significant | 0 | 0.0 | 0 | - | 0 | 0.0 |
| No data | 0 | 0.0 | 1 | 1.6 | 1 | 1.4 |
| Sub-Total | 10 | 100.0 | 61 | 100.0 | 71 | 100.0 |
| Sufficient Logistics Support | | | | | | |
| Highly Significant | 7 | 70.0 | 40 | 65.6 | 47 | 66.2 |
| Significant | 3 | 30.0 | 14 | 22.9 | 17 | 23.9 |
| Less Significant | 0 | 0.0 | 2 | 3.3 | 2 | 2.8 |
| Not Significant | 0 | 0.0 | 0 | - | 0 | 0.0 |
| No data | 0 | 0.0 | 5 | 8.2 | 5 | 7.0 |
| Sub-Total | 10 | 100.0 | 61 | 100.0 | 71 | 100.0 |
| Cooperation and Support from NIA Regional and/or Central Offices | | | | | | |
| Highly Significant | 0 | 0.0 | 37 | 60.7 | 37 | 52.1 |
| Significant | 1 | 10.0 | 22 | 36.1 | 23 | 32.4 |
| Less Significant | 0 | 0.0 | 1 | 1.6 | 1 | 1.4 |
| Not Significant | 0 | 0.0 | 0 | - | 0 | 0.0 |
| No data | 9 | 90.0 | 1 | 1.6 | 10 | 14.1 |
| Sub-Total | 10 | 100.0 | 61 | 100.0 | 71 | 100.0 |
| Cooperation and Support from other Agencies | | | | | | |
| Highly Significant | 1 | 10.0 | 6 | 9.8 | 7 | 9.9 |
| Significant | 6 | 60.0 | 28 | 45.9 | 34 | 47.8 |
| Less Significant | 3 | 30.0 | 20 | 32.8 | 23 | 32.4 |
| Not Significant | 0 | 0.0 | 0 | - | 0 | 0.0 |
| No data | 0 | 0.0 | 7 | 11.5 | 7 | 9.9 |
| Sub-Total | 10 | 100.0 | 61 | 100.0 | 71 | 100.0 |
| Viable and Capable IAs | | | | | | |
| Highly Significant | 5 | 50.0 | 34 | 55.7 | 39 | 54.9 |
| Significant | 5 | 50.0 | 22 | 36.1 | 27 | 38.0 |
| Less Significant | 0 | 0.0 | 2 | 3.3 | 2 | 2.8 |
| Not Significant | 0 | 0.0 | 0 | - | 0 | 0.0 |
| No data | 0 | 0.0 | 3 | 4.9 | 3 | 4.2 |
| Sub-Total | 10 | 100.0 | 61 | 100.0 | 71 | 100.0 |
| Staff Commitment and Dedication to Work Mission | | | | | | |
| Highly Significant | 7 | 70.0 | 46 | 75.4 | 53 | 74.7 |
| Significant | 3 | 30.0 | 12 | 19.7 | 15 | 21.1 |
| Less Significant | 0 | 0.0 | 1 | 1.6 | 1 | 1.4 |
| Not Significant | 0 | 0.0 | 0 | - | 0 | 0.0 |
| No data | 0 | 0.0 | 2 | 3.3 | 2 | 2.8 |
| Sub-Total | 10 | 100.0 | 61 | 100.0 | 71 | 100.0 |
| Security of Tenure and Working Environment | | | | | | |
| Highly Significant | 6 | 60.0 | 31 | 50.8 | 37 | 52.1 |
| Significant | 4 | 40.0 | 24 | 39.3 | 28 | 39.4 |
| Less Significant | 0 | 0.0 | 3 | 4.9 | 3 | 4.2 |
| Not Significant | 0 | 0.0 | 0 | - | 0 | 0.0 |
| No data | 0 | 0.0 | 3 | 4.9 | 3 | 4.2 |
| Sub-Total | 10 | 100.0 | 61 | 100.0 | 71 | 100.0 |
| Attractive Financial Compensation | | | | | | |
| Highly Significant | 7 | 70.0 | 35 | 57.4 | 42 | 59.2 |
| Significant | 3 | 30.0 | 15 | 24.6 | 18 | 25.4 |
| Less Significant | 0 | 0.0 | 5 | 8.2 | 5 | 7 |
| Not Significant | 0 | 0.0 | 2 | 3.3 | 2 | 2.8 |
| No data | 0 | 0.0 | 4 | 6.5 | 4 | 5.6 |
| Sub-Total | 10 | 100.0 | 61 | 100.0 | 71 | 100.0 |
| Flexibility in Decision Making | | | | | | |
| Highly Significant | * | * | 33 | 54.1 | 33 | 54.1 |
| Significant | * | * | 21 | 34.4 | 21 | 34.4 |
| Less Significant | * | * | 1 | 1.6 | 1 | 1.6 |
| Not Significant | * | * | 0 | - | 0 | - |
| No data | * | * | 6 | 9.8 | 6 | 9.8 |
| Sub-Total | 0 | 0.0 | 61 | 100.0 | 61 | 100.0 |

* In relation to total number of respondents : 10 RIOs and 61 PIOs

Source : SSIDP Institutional survey for RIOs/PIOs

NET INCOME OF RIOs, NISs and PIOs, 1986 - 1990

Table E2-22 (1/2)

(Unit : Peso)

| RIOs/NISs/PIOs | Y E A R | | | | |
|--------------------------------------|--------------------|-------------------|-------------------|--------------------|--------------------|
| | 1986 | 1987 | 1988 | 1989 | 1990 |
| Regional Irrigation Offices | | | | | |
| RIO I | -7,889,436 | -5,937,611 | -5,218,910 | -6,897,216 | -6,903,311 |
| RIO II | -8,697,721 | -8,669,041 | -4,695,570 | -5,120,143 | -6,579,275 |
| RIO III | -10,768,690 | -8,712,717 | -12,158,691 | -8,025,236 | -8,181,559 |
| RIO IV | -2,416,836 | -4,156,482 | -5,321,526 | -6,742,589 | -8,131,228 |
| RIO V | -5,421,448 | -6,820,226 | -5,507,529 | -3,704,645 | -8,445,204 |
| RIO VI | 3,158,984 | 5,679,662 | -1,211,486 | -4,368,780 | -5,566,230 |
| RIO VII/VIII | -4,578,758 | -1,345,114 | 1,416,039 | -4,625,179 | -4,115,593 |
| RIO IX | 1,581,955 | 586,826 | -2,120,813 | -4,343,368 | -6,129,302 |
| RIO X | 3,230,264 | 5,045,068 | 5,813,496 | -4,353,782 | -7,083,230 |
| RIO XI | 7,485,871 | 13,358,272 | 17,371,148 | -5,167,556 | -8,489,599 |
| RIO XII | 4,713,846 | 5,648,863 | 4,166,181 | -7,875,734 | -8,010,667 |
| TOTAL FOR RIOS | -19,601,969 | -5,322,500 | -7,467,661 | -61,224,228 | -77,635,198 |
| AVERAGE | -1,781,997 | -483,864 | -678,878 | -5,565,839 | -7,057,745 |
| National Irrigation Systems | | | | | |
| REGION I | -4,431,513 | -4,022,780 | -4,632,801 | -2,466,715 | -4,279,952 |
| REGION II | -3,862,018 | -3,427,235 | 328,343 | -1,255,081 | -227,085 |
| REGION III | -3,869,375 | 25,653,264 | -4,367,533 | -7,052,846 | -14,331,247 |
| REGION IV | 223,852 | -110,039 | -3,495,565 | 3,506,749 | -3,862,585 |
| REGION V | -1,425,731 | -2,036,795 | -1,264,647 | -2,414,380 | 1,735,554 |
| REGION VI | 2,191,820 | 2,899,872 | -3,862,675 | 3,128,898 | -1,083,485 |
| REGION VII/VIII | -921,808 | -4,808,407 | -2,026,971 | 1,129,319 | 694,383 |
| REGION IX | 742,158 | 1,087,218 | 444,760 | 2,447,670 | 2,832,936 |
| REGION X | 5,797,442 | 5,116,837 | 5,331,646 | 6,373,178 | 5,978,561 |
| REGION XI | 8,962,043 | 11,291,333 | 11,533,081 | 14,053,580 | 14,549,466 |
| REGION XII | 5,007,993 | 1,634,317 | 2,306,480 | 8,398,309 | 3,867,855 |
| TOTAL FOR NISs | 8,414,863 | 33,277,585 | 294,318 | 25,848,681 | 5,874,401 |
| AVERAGE | 764,988 | 3,025,235 | 26,756 | 2,349,880 | 534,036 |
| Provincial Irrigation Offices | | | | | |
| I | | | | | |
| PIO Ilocos Norte | 50,260 | 706,769 | 106,651 | 2,072,575 | 1,924,639 |
| PIO Abra | 11,258 | 312,280 | 252,689 | 1,584,147 | 1,126,302 |
| PIO Ilocos Sur | 45,401 | 34,166 | 254,986 | 462,742 | 1,094,684 |
| PIO Mountain Province | 534,151 | 738,326 | 1,936,917 | 2,492,898 | 3,622,109 |
| PIO Benguet | 400,570 | 561,280 | 1,103,495 | 2,392,775 | 631,999 |
| PIO Pangasinan | 545,780 | 1,098,383 | 1,692,948 | 1,605,685 | 1,001,845 |
| PIO La Union | 233,529 | 70,385 | 1,670,176 | 558,466 | 118,192 |
| Sub-Total | 1,820,949 | 3,521,589 | 7,017,862 | 11,169,288 | 9,519,770 |
| Average | 260,136 | 503,084 | 1,002,552 | 1,595,613 | 1,359,967 |
| II | | | | | |
| PIO Cagayan | 370,870 | 515,836 | 253,038 | 65,590 | 203,252 |
| PIO Kalinga Apayao | 46,402 | 544,095 | 570,617 | 596,867 | 268,035 |
| PIO Isabela | 89,843 | 7,768 | 1,093,480 | 537,692 | 210,947 |
| PIO Ifugao | 60,777 | 30,575 | 736,057 | 136,405 | 25,818 |
| PIO Nueva Viscaya | 499,273 | 325,558 | 861,186 | 532,885 | 275,091 |
| PIO Quirino | 326,620 | 173,717 | 640,339 | 636,473 | 62,272 |
| Sub-Total | 1,393,785 | 1,597,549 | 4,154,717 | 2,505,912 | 1,045,415 |
| Average | 232,298 | 266,258 | 692,453 | 417,652 | 174,236 |
| III | | | | | |
| PIO Nueva Ecija | 15,862 | 767,377 | -198,198 | -130,056 | 1,045,415 |
| PIO Tarlac | -464,120 | 706,778 | -525,323 | -46,123 | 467,958 |
| PIO Zambales | -126,890 | 528,607 | 136,255 | -723,697 | 798,811 |
| PIO Pampanga | -141,695 | 962,092 | -377,200 | -560,833 | 29,063 |
| PIO Bulacan | -122,032 | 567,064 | -315,187 | -306,617 | 460,436 |
| PIO Bataan | -270,783 | 542,299 | -370,051 | -413,477 | 296,646 |
| Sub-Total | -1,109,658 | 4,074,217 | -1,649,704 | -2,180,803 | 3,098,329 |
| Average | -184,943 | 679,036 | -274,951 | -363,467 | 516,388 |
| IV | | | | | |
| PIO Aurora | -134,270 | 477,379 | 114,061 | 17,223 | 995,346 |
| PIO Quezon | 149,398 | 317,366 | 760,049 | 371,957 | 672,801 |
| PIO Rizal | -247,455 | -222,240 | 152,475 | 264,425 | 241,564 |
| PIO Cavite | -232,330 | 52,981 | -114,338 | -213,538 | 129,788 |
| PIO Laguna | -118,040 | 167,105 | 57,182 | 93,299 | 206,414 |
| PIO Batangas | 60,538 | 198,843 | 36,588 | -28,092 | 681,433 |
| PIO Marinduque | 13,366 | 206,518 | -28,687 | -204,590 | 208,697 |
| PIO Mindoro Oriental | 128,079 | 107,602 | 205,149 | 375,071 | 196,241 |
| PIO Mindoro Occidental | 1,147,572 | 279,489 | 488,165 | 665,890 | 450,848 |
| PIO Romblon | 457,529 | 69,965 | 83,937 | -33,625 | 162,897 |
| PIO Palawan | 418,398 | 1,951,276 | 2,795,336 | 2,631,810 | 2,157,265 |
| Sub-Total | 1,642,785 | 3,193,248 | 4,549,917 | 3,939,830 | 6,103,294 |
| Average | 149,344 | 290,295 | 413,629 | 358,166 | 554,845 |

Table E2-22 (2/2)

NET INCOME OF RIOS, NISs and PIOs, 1986 - 1990

(Unit : Peso)

| RIOS/NISs/PIOs | Y E A R | | | | |
|-----------------------------------|------------|------------|------------|------------|------------|
| | 1986 | 1987 | 1988 | 1989 | 1990 |
| V PIO Camarines Norte | 41,253 | 276,369 | 382,318 | 514,598 | 1,097,875 |
| PIO Camarines Sur | 166,321 | 111,844 | 432,871 | 511,623 | 1,781,567 |
| PIO Catanduanes | -322,525 | 316,530 | 65,473 | 45,138 | 57,193 |
| PIO Albay | -182,878 | 137,054 | 517,048 | 621,285 | 1,232,224 |
| PIO Sorsogon | -401,369 | 457,725 | 17,466 | 505,745 | 1,677,937 |
| PIO Masbate | -204,961 | 40,232 | 194,772 | 110,570 | 13,901,732 |
| Sub-Total | -904,159 | 1,339,754 | 1,609,948 | 2,308,959 | 19,748,528 |
| Average | -150,693 | 223,292 | 268,325 | 384,827 | 3,291,421 |
| VI PIO Aklan | 79,545 | 647,237 | 775,599 | 741,859 | 261,418 |
| PIO Capiz | 48,486 | 260,971 | 336,160 | 1,431,120 | 774,847 |
| PIO Antique | 220,715 | 229,971 | 238,016 | 789,412 | 1,426,821 |
| PIO Iloilo | 151,002 | 256,624 | 281,335 | 190,883 | 823,586 |
| PIO Negros Occidental | 484,887 | 1,295,876 | 634,261 | 660,370 | 1,331,923 |
| Sub-Total | 984,635 | 2,690,679 | 2,265,371 | 3,813,644 | 4,618,595 |
| Average | 196,927 | 538,136 | 453,074 | 762,729 | 923,719 |
| VII PIO Cebu | 789,144 | 607,660 | 1,306,592 | 1,391,940 | 3,317,110 |
| PIO Negros Oriental | 262,432 | 349,293 | 1,258,383 | 548,911 | 2,580,696 |
| PIO Bohol | 114,123 | 415,949 | 319,432 | 531,078 | 2,585,615 |
| Sub-Total | 1,165,699 | 1,372,902 | 2,884,407 | 2,471,929 | 8,483,421 |
| Average | 388,566 | 457,634 | 961,469 | 823,976 | 2,827,807 |
| VIII PIO Northern Samar | -362,308 | 16,851 | 181,229 | 280,911 | 1,962,869 |
| PIO Western Samar | -4,965 | 277,944 | 582,149 | 903,050 | 2,716,042 |
| PIO Eastern Samar | -1,385 | 179,850 | 958,054 | 649,421 | 1,560,925 |
| PIO Northern Leyte | 180,932 | 495,769 | 1,541,252 | 1,288,028 | 2,363,716 |
| PIO Southern Leyte | 247,915 | 1,748,786 | 2,150,677 | 1,724,429 | 9,764,796 |
| Sub-Total | 60,189 | 2,719,200 | 5,413,361 | 4,845,839 | 18,368,348 |
| Average | 12,038 | 543,840 | 1,082,672 | 969,168 | 3,673,670 |
| IX PIO Zamb. del Norte | 121,790 | 775,799 | 1,020,789 | 731,242 | 1,800,611 |
| PIO Zamb. del Sur | 109,032 | 778,196 | 1,399,371 | 1,244,842 | 1,967,748 |
| Sub-Total | 230,822 | 1,553,995 | 2,420,160 | 1,976,084 | 3,768,359 |
| Average | 115,411 | 776,998 | 1,210,080 | 988,042 | 1,884,180 |
| X PIO Surigao del Norte | 365,357 | 407,526 | 64,271 | 169,477 | 343,482 |
| PIO Agusan del Norte | 136,195 | 380,041 | 1,076,126 | 1,193,580 | 480,484 |
| PIO Misamis Oriental | 77,110 | 753,048 | 924,316 | 1,358,095 | 866,731 |
| PIO Misamis Occidental | 174,225 | 881,043 | 880,321 | 1,159,425 | 256,064 |
| PIO Bukidnon | 663,187 | 1,221,939 | 1,380,060 | 2,363,814 | 1,155,584 |
| PIO Agusan del Sur | 39,139 | 504,920 | 627,700 | 672,234 | 415,074 |
| Sub-Total | 1,455,213 | 4,148,517 | 4,952,794 | 6,916,625 | 3,517,419 |
| Average | 242,536 | 691,420 | 825,466 | 1,152,771 | 586,237 |
| XI PIO Surigao del Sur | 219,021 | 532,940 | 888,702 | 400,924 | 1,497,737 |
| PIO Davao Oriental | 134,844 | 755,115 | 936,790 | 601,300 | 14,218 |
| PIO Davao del Norte | 479,004 | 722,431 | 2,302,021 | 3,528,248 | 1,409,718 |
| PIO Davao del Sur | 406,011 | 1,524,998 | 3,357,474 | 4,685,240 | 4,701,414 |
| PIO South Cotabato | 1,254,857 | 2,875,429 | 4,303,298 | 1,879,326 | 5,264,120 |
| Sub-Total | 2,493,737 | 6,410,913 | 11,788,285 | 11,095,038 | 12,887,207 |
| Average | 498,747 | 1,282,183 | 2,357,657 | 2,219,008 | 2,577,441 |
| XII PIO Lanao del Norte | 377,332 | 1,302,613 | 2,830,611 | 3,188,412 | 2,855,822 |
| PIO Lanao del Sur | -182,489 | 108,202 | -108,004 | -190,597 | -904,793 |
| PIO North Cotabato | 643,531 | 2,437,896 | 2,203,912 | 5,517,280 | 1,413,586 |
| PIO Maguindanao | 1,287,285 | 2,505,257 | 1,966,880 | 3,246,513 | 1,064,175 |
| PIO Sultan Kudarat | 501,488 | 1,754,952 | 2,268,740 | 2,437,217 | 1,111,744 |
| Sub-Total | 2,627,147 | 8,108,920 | 9,162,139 | 14,198,825 | 5,540,534 |
| Average | 525,429 | 1,621,784 | 1,832,428 | 2,839,765 | 1,108,107 |
| TOTAL FOR PIOs | 11,861,144 | 40,731,483 | 54,569,257 | 63,061,170 | 96,699,219 |
| AVERAGE | 177,032 | 607,933 | 814,467 | 941,211 | 1,443,272 |
| TOTAL FOR RIOS NISs AND PIOs | 674,038 | 68,686,568 | 47,395,914 | 27,685,623 | 24,938,422 |
| AVERAGE FOR RIOS NISs AND PIOs | 61,276 | 6,244,233 | 4,308,719 | 2,516,875 | 2,267,129 |

Source : Treasury Department, NIA

NUMBER OF OFFICE EQUIPMENT

| Region | PIO | Number of Existing Office Equipment | | | Number of Additional Office Equipment | | | Total Number of Office Equipment | | |
|--------|-----------------------|-------------------------------------|---------|------------|---------------------------------------|---------|------------|----------------------------------|---------|------------|
| | | Blue Print | Copy | Calculator | Blue Print | Copy | Calculator | Blue Print | Copy | Calculator |
| | | Machine | Machine | | Machine | Machine | | Machine | Machine | |
| I | 1 ILOCOS NORTE | 1 | 0 | 5 | 0 | 1 | 0 | 1 | 1 | 5 |
| | 2 ABRA | 0 | 0 | 0 | 1 | 1 | 5 | 1 | 1 | 5 |
| | 3 ILOCOS SUR | 1 | 0 | 6 | 0 | 1 | 0 | 1 | 1 | 6 |
| | 4 MOUNTAIN PROVINCE | 0 | 0 | 14 | 1 | 1 | 0 | 1 | 1 | 14 |
| | 5 LA UNION | 0 | 0 | 0 | 1 | 1 | 5 | 1 | 1 | 5 |
| | 6 BENGUET | 1 | 1 | 33 | 0 | 0 | 0 | 1 | 1 | 33 |
| | 7 PANGASINAN | 1 | 0 | 9 | 0 | 1 | 0 | 1 | 1 | 9 |
| | Sub-total | 4 | 1 | 67 | 3 | 6 | 10 | 7 | 7 | 77 |
| II | 8 BATANES | - | - | - | - | - | - | - | - | - |
| | 9 CAGAYAN | 1 | 0 | 15 | - | 1 | 0 | 1 | 1 | 15 |
| | 10 KALINGA APAYAO | 1 | 0 | 10 | 0 | 1 | 0 | 1 | 1 | 10 |
| | 11 ISABELA | 1 | 1 | 8 | 0 | 0 | 0 | 1 | 1 | 8 |
| | 12 IFUGAO | 0 | 0 | 0 | 1 | 1 | 5 | 1 | 1 | 5 |
| | 13 NUEVA VISCAYA | 1 | 0 | 0 | 0 | 1 | 5 | 1 | 1 | 5 |
| | 14 QUIRINO | 1 | 0 | 10 | 0 | 1 | 0 | 1 | 1 | 10 |
| | sub-total | 5 | 1 | 43 | 1 | 5 | 10 | 6 | 6 | 53 |
| III | 15 NUEVA ECJA | 1 | 0 | 10 | 0 | 1 | 0 | 1 | 1 | 10 |
| | 16 TARLAC | 0 | 1 | 5 | 1 | 0 | 0 | 1 | 1 | 5 |
| | 17 ZAMBALES | 0 | 0 | 3 | 1 | 1 | 2 | 1 | 1 | 5 |
| | 18 PAMPANGA | 1 | 1 | 4 | 0 | 0 | 1 | 1 | 1 | 5 |
| | 19 BULACAN | 0 | 0 | 0 | 1 | 1 | 5 | 1 | 1 | 5 |
| | 20 BATAAN | 0 | 1 | 2 | 1 | 0 | 3 | 1 | 1 | 5 |
| | | sub-total | 2 | 3 | 24 | 4 | 3 | 11 | 6 | 6 |
| IV | 21 AURORA | 1 | 1 | 2 | 0 | 0 | 3 | 1 | 1 | 5 |
| | 22 QUEZON | 1 | 0 | 15 | 0 | 1 | 0 | 1 | 1 | 15 |
| | 23 RIZAL | 1 | 0 | 0 | 0 | 1 | 5 | 1 | 1 | 5 |
| | 24 CAVITE | 0 | 0 | 7 | 1 | 1 | 0 | 1 | 1 | 7 |
| | 25 LAGUNA | 0 | 0 | 2 | 1 | 1 | 3 | 1 | 1 | 5 |
| | 26 BATANGAS | 0 | 0 | 10 | 1 | 1 | 0 | 1 | 1 | 10 |
| | 27 MARINDUQUE | 0 | 0 | 4 | 1 | 1 | 1 | 1 | 1 | 5 |
| | 28 MINDORO ORIENTAL | 1 | 1 | 2 | 0 | 0 | 3 | 1 | 1 | 5 |
| | 29 MINDORO OCCIDENTAL | 1 | 1 | 20 | 0 | 0 | 0 | 1 | 1 | 20 |
| | 30 ROMBLON | 0 | 0 | 15 | 1 | 1 | 0 | 1 | 1 | 15 |
| | 31 PALAWAN | 1 | 0 | 0 | 0 | 1 | 5 | 1 | 1 | 5 |
| | | sub-total | 6 | 3 | 77 | 5 | 8 | 20 | 11 | 11 |
| V | 32 CAMARINES NORTE | 1 | 0 | 10 | 0 | 1 | 0 | 1 | 1 | 10 |
| | 33 CAMARINES SUR | 1 | 0 | 21 | 0 | 1 | 0 | 1 | 1 | 21 |
| | 34 CATANDUANES | 0 | 0 | 11 | 1 | 1 | 0 | 1 | 1 | 11 |
| | 35 ALBAY | 1 | 0 | 7 | 0 | 1 | 0 | 1 | 1 | 7 |
| | 36 SORSOGON | 1 | 0 | 10 | 0 | 1 | 0 | 1 | 1 | 10 |
| | 37 MASBATE | 0 | 2 | 0 | 1 | 0 | 5 | 1 | 2 | 5 |
| | | sub-total | 4 | 2 | 59 | 2 | 5 | 5 | 6 | 7 |
| VI | 38 ARLAN | 1 | 0 | 10 | 0 | 1 | 0 | 1 | 1 | 10 |
| | 39 CAPIZ | 0 | 0 | 0 | 1 | 1 | 5 | 1 | 1 | 5 |
| | 40 ANTIQUE | 0 | 0 | 3 | 1 | 1 | 2 | 1 | 1 | 5 |
| | 41 ILOILO | 1 | 0 | 0 | 0 | 1 | 5 | 1 | 1 | 5 |
| | 42 NEGROS OCCIDENTAL | 1 | 0 | 2 | 0 | 1 | 3 | 1 | 1 | 5 |
| | 43 NEGROS DEL NORTE | - | - | - | - | - | - | - | - | - |
| | | sub-total | 3 | 0 | 15 | 2 | 5 | 15 | 5 | 5 |
| VII | 44 CEBU | 1 | 1 | 15 | 0 | 0 | 0 | 1 | 1 | 15 |
| | 45 NEGROS ORIENTAL | 1 | 0 | 20 | 0 | 1 | 0 | 1 | 1 | 20 |
| | 46 BOHOL | 1 | 0 | 0 | 0 | 1 | 5 | 1 | 1 | 5 |
| | 47 SIQUJOR | - | - | - | - | - | - | - | - | - |
| | | sub-total | 3 | 1 | 35 | 0 | 2 | 5 | 3 | 3 |
| VIII | 48 NORTHERN SAMAR | 1 | 0 | 16 | 0 | 1 | 0 | 1 | 1 | 16 |
| | 49 SAMAR | 0 | 0 | 0 | 1 | 1 | 5 | 1 | 1 | 5 |
| | 50 EASTERN SAMAR | 0 | 1 | 12 | 1 | 0 | 0 | 1 | 1 | 12 |
| | 51 NORTHERN LEYTE | 1 | 0 | 35 | 0 | 1 | 0 | 1 | 1 | 35 |
| | 52 SOUTHERN LEYTE | 1 | 1 | 4 | 0 | 0 | 1 | 1 | 1 | 5 |
| | | sub-total | 3 | 2 | 67 | 2 | 3 | 6 | 5 | 5 |
| IX | 53 ZAMBOANGA DEL NOR | 1 | 0 | 11 | 0 | 1 | 0 | 1 | 1 | 11 |
| | 54 ZAMBOANGA DEL SUR | 1 | 0 | 0 | 0 | 1 | 5 | 1 | 1 | 5 |
| | 55 BASILAN | - | - | - | - | - | - | - | - | - |
| | 56 SULU | - | - | - | - | - | - | - | - | - |
| | 57 TAWI-TAWI | - | - | - | - | - | - | - | - | - |
| | | sub-total | 2 | 0 | 11 | 0 | 2 | 5 | 2 | 2 |
| X | 58 SURIGAO DEL NORTE | 0 | 0 | 10 | 1 | 1 | 0 | 1 | 1 | 10 |
| | 59 CAMIGUIN | - | - | - | - | - | - | - | - | - |
| | 60 AGUSAN DEL NORTE | 1 | 0 | 4 | 0 | 1 | 1 | 1 | 1 | 5 |
| | 61 MISAMIS ORIENTAL | 1 | 0 | 9 | 0 | 1 | 0 | 1 | 1 | 9 |
| | 62 MISAMIS OCCIDENTAL | 1 | 0 | 12 | 0 | 1 | 0 | 1 | 1 | 12 |
| | 63 BUKIDNON | 1 | 0 | 24 | 0 | 1 | 0 | 1 | 1 | 24 |
| | 64 AGUSAN DEL SUR | 1 | 1 | 12 | 0 | 0 | 0 | 1 | 1 | 12 |
| | | sub-total | 5 | 1 | 71 | 1 | 5 | 1 | 6 | 6 |
| XI | 65 SURIGAO DEL SUR | 1 | 0 | 8 | 0 | 1 | 0 | 1 | 1 | 8 |
| | 66 DAVAO ORIENTAL | 1 | 0 | 10 | 0 | 1 | 0 | 1 | 1 | 10 |
| | 67 DAVAO DEL NORTE | 1 | 1 | 10 | 0 | 0 | 0 | 1 | 1 | 10 |
| | 68 DAVAO DEL SUR | 1 | 1 | 15 | 0 | 0 | 0 | 1 | 1 | 15 |
| | 69 SOUTH COTABATO | 1 | 1 | 65 | 0 | 0 | 0 | 1 | 1 | 65 |
| | | sub-total | 5 | 3 | 108 | 0 | 2 | 0 | 5 | 5 |
| XII | 70 LANA O DEL NORTE | 1 | 0 | 5 | 0 | 1 | 0 | 1 | 1 | 5 |
| | 71 LANA O DEL SUR | 1 | 0 | 7 | 0 | 1 | 0 | 1 | 1 | 7 |
| | 72 NORTH COTABATO | 0 | 1 | 20 | 1 | 0 | 0 | 1 | 1 | 20 |
| | 73 MAGUINDANAO | 0 | 0 | 0 | 1 | 1 | 5 | 1 | 1 | 5 |
| | 74 SULTAN KUDARAT | 1 | 0 | 3 | 0 | 1 | 2 | 1 | 1 | 5 |
| | sub-total | 3 | 1 | 35 | 2 | 4 | 7 | 5 | 5 | 42 |
| | Total | 45 | 18 | 612 | 22 | 50 | 95 | 67 | 68 | 707 |

Table E2-26

NUMBER OF MAJOR SURVEY EQUIPMENT

| Region | PIO | Annual Average Nos. of Projects | Survey and Hydraulic Equipment | | | | | | | | | |
|------------------|------------------------|---------------------------------|--------------------------------|--------------|---------------|--------------|--------------|---------------|---------------|--------------|---------------|---|
| | | | Transit | | | Auto-Level | | | Current Meter | | | |
| | | | Required Nos | Existing Nos | Add'l'lal Nos | Required Nos | Existing Nos | Add'l'lal Nos | Required Nos | Existing Nos | Add'l'lal Nos | |
| I | 1 ILOCOS NORTE | 26 | 20 | 2 | 18 | 20 | 2 | 18 | 3 | 2 | 1 | |
| | 2 ABRA | 10 | 8 | 2 | 6 | 8 | 4 | 4 | 1 | 1 | 0 | |
| | 3 ILOCOS SUR | 12 | 9 | 1 | 8 | 9 | 2 | 7 | 2 | 2 | 0 | |
| | 4 MOUNTAIN PROVINCE | 20 | 15 | 3 | 12 | 15 | 2 | 13 | 2 | 1 | 1 | |
| | 5 LA UNION | 6 | 5 | 1 | 4 | 5 | 4 | 1 | 1 | 2 | 0 | |
| | 6 BENGUET | 24 | 18 | 4 | 14 | 18 | 3 | 15 | 3 | 2 | 1 | |
| | 7 PANGASINAN | 34 | 26 | 4 | 22 | 26 | 3 | 23 | 4 | 2 | 2 | |
| | Sub-total | 132 | 101 | 17 | 84 | 101 | 20 | 81 | 16 | 12 | 5 | |
| II | 8 BATANES | - | - | - | - | - | - | - | - | - | - | |
| | 9 CAGAYAN | 14 | 11 | 3 | 8 | 11 | 4 | 7 | 2 | 2 | 0 | |
| | 10 KALINGA APAYAO | 12 | 9 | 4 | 5 | 9 | 6 | 3 | 2 | 2 | 0 | |
| | 11 ISABELA | 13 | 11 | 2 | 9 | 11 | 6 | 5 | 2 | 2 | 0 | |
| | 12 IFUGAO | 20 | 15 | 5 | 10 | 15 | 5 | 10 | 2 | 1 | 1 | |
| | 13 NUEVA VISCAYA | 18 | 14 | 1 | 13 | 14 | 1 | 13 | 2 | 8 | 0 | |
| | 14 QUIRINO | 10 | 8 | 3 | 5 | 8 | 4 | 4 | 1 | 2 | 0 | |
| | sub-total | 87 | 68 | 18 | 50 | 68 | 26 | 42 | 11 | 17 | 1 | |
| III | 15 NUEVA ECHIA | 13 | 11 | 4 | 7 | 11 | 5 | 6 | 2 | 3 | 0 | |
| | 16 TARLAC | 5 | 5 | 3 | 2 | 5 | 3 | 2 | 1 | 2 | 0 | |
| | 17 ZAMBALES | 6 | 5 | 3 | 2 | 5 | 3 | 2 | 1 | 3 | 0 | |
| | 18 PAMPANGA | 12 | 9 | 1 | 8 | 9 | 3 | 6 | 2 | 2 | 0 | |
| | 19 BULACAN | 2 | 2 | 1 | 1 | 2 | 2 | 0 | 1 | 2 | 0 | |
| | 20 BATAAN | 5 | 5 | 3 | 2 | 5 | 6 | 0 | 1 | 3 | 0 | |
| | | sub-total | 43 | 37 | 15 | 22 | 37 | 22 | 16 | 8 | 15 | 0 |
| IV | 21 AURORA | 3 | 3 | 1 | 2 | 3 | 3 | 0 | 1 | 2 | 0 | |
| | 22 QUEZON | 7 | 6 | 4 | 2 | 6 | 5 | 1 | 1 | 2 | 0 | |
| | 23 RIZAL | 2 | 2 | 2 | 0 | 2 | 2 | 0 | 1 | 1 | 0 | |
| | 24 CAVITE | 1 | 2 | 3 | 0 | 2 | 5 | 0 | 1 | 3 | 0 | |
| | 25 LAGUNA | 6 | 5 | 1 | 4 | 5 | 2 | 3 | 1 | 3 | 0 | |
| | 26 BATANGAS | 5 | 5 | 2 | 3 | 5 | 3 | 2 | 1 | 2 | 0 | |
| | 27 MARINDUQUE | 1 | 2 | 4 | 0 | 2 | 4 | 0 | 1 | 3 | 0 | |
| | 28 MINDORO ORIENTAL | 6 | 5 | 3 | 2 | 5 | 3 | 2 | 1 | 2 | 0 | |
| | 29 MINDORO OCCIDENTAL | 12 | 9 | 3 | 6 | 9 | 7 | 2 | 2 | 2 | 0 | |
| | 30 ROMBLON | 3 | 3 | 2 | 1 | 3 | 6 | 0 | 1 | 2 | 0 | |
| | 31 PALAWAN | 15 | 12 | 2 | 10 | 12 | 1 | 11 | 2 | 1 | 1 | |
| | | sub-total | 61 | 54 | 27 | 30 | 54 | 41 | 21 | 13 | 23 | 1 |
| | V | 32 CAMARINES NORTE | 8 | 6 | 2 | 4 | 6 | 2 | 4 | 1 | 1 | 0 |
| 33 CAMARINES SUR | | 18 | 14 | 2 | 12 | 14 | 3 | 11 | 2 | 2 | 0 | |
| 34 CATANDUANES | | 1 | 2 | 2 | 0 | 2 | 5 | 0 | 1 | 2 | 0 | |
| 35 ALBAY | | 14 | 11 | 4 | 7 | 11 | 6 | 5 | 2 | 2 | 0 | |
| 36 SORSOGON | | 7 | 6 | 2 | 4 | 6 | 3 | 3 | 1 | 2 | 0 | |
| 37 MASBATE | | 3 | 3 | 3 | 0 | 3 | 3 | 0 | 1 | 2 | 0 | |
| | | sub-total | 51 | 42 | 15 | 27 | 42 | 22 | 23 | 8 | 11 | 0 |
| VI | 38 AKLAN | 1 | 2 | 2 | 0 | 2 | 3 | 0 | 1 | 2 | 0 | |
| | 39 CAPIZ | 3 | 3 | 1 | 2 | 3 | 1 | 2 | 1 | 1 | 0 | |
| | 40 ANTIQUE | 10 | 8 | 1 | 7 | 8 | 3 | 5 | 1 | 2 | 0 | |
| | 41 ILOILO | 2 | 2 | 2 | 0 | 2 | 2 | 0 | 1 | 1 | 0 | |
| | 42 NEGROS OCCIDENTAL | 9 | 8 | 3 | 5 | 8 | 2 | 6 | 1 | 1 | 0 | |
| | 43 NEGROS DEL NORTE | - | - | - | - | - | - | - | - | - | - | |
| | sub-total | 25 | 23 | 9 | 14 | 23 | 11 | 13 | 5 | 7 | 0 | |
| VII | 44 CEBU | 2 | 2 | 1 | 1 | 2 | 3 | 0 | 1 | 2 | 0 | |
| | 45 NEGROS ORIENTAL | 6 | 5 | 3 | 2 | 5 | 3 | 2 | 1 | 2 | 0 | |
| | 46 BOHOL | 6 | 5 | 3 | 2 | 5 | 4 | 1 | 1 | 2 | 0 | |
| | 47 SIKUHOR | - | - | - | - | - | - | - | - | - | - | |
| | sub-total | 14 | 12 | 7 | 5 | 12 | 10 | 3 | 3 | 6 | 0 | |
| VIII | 48 NORTHERN SAMAR | 7 | 6 | 4 | 2 | 6 | 3 | 3 | 1 | 2 | 0 | |
| | 49 SAMAR | 4 | 3 | 1 | 2 | 3 | 1 | 2 | 1 | 1 | 0 | |
| | 50 EASTERN SAMAR | 6 | 5 | 2 | 3 | 5 | 3 | 2 | 1 | 2 | 0 | |
| | 51 NORTHERN LEYTE | 12 | 9 | 6 | 3 | 9 | 2 | 7 | 2 | 2 | 0 | |
| | 52 SOUTHERN LEYTE | 3 | 3 | 2 | 1 | 3 | 2 | 1 | 1 | 2 | 0 | |
| | | sub-total | 32 | 26 | 15 | 11 | 26 | 11 | 15 | 6 | 9 | 0 |
| IX | 53 ZAMBOANGA DEL NORTE | 2 | 2 | 3 | 0 | 2 | 5 | 0 | 1 | 3 | 0 | |
| | 54 ZAMBOANGA DEL SUR | 13 | 11 | 5 | 6 | 11 | 3 | 8 | 2 | 3 | 0 | |
| | 55 BASILAN | - | - | - | - | - | - | - | - | - | - | |
| | 56 SULU | - | - | - | - | - | - | - | - | - | - | |
| | 57 TAWI-TAWI | - | - | - | - | - | - | - | - | - | - | |
| | | sub-total | 15 | 13 | 8 | 6 | 13 | 8 | 8 | 3 | 6 | 0 |
| X | 58 SURIGAO DEL NORTE | 8 | 6 | 2 | 4 | 6 | 3 | 3 | 1 | 3 | 0 | |
| | 59 CAMIGUIN | - | - | - | - | - | - | - | - | - | - | |
| | 60 AGUSAN DEL NORTE | 6 | 5 | 1 | 4 | 5 | 3 | 2 | 1 | 2 | 0 | |
| | 61 MISAMIS ORIENTAL | 6 | 5 | 2 | 3 | 5 | 2 | 3 | 1 | 2 | 0 | |
| | 62 MISAMIS OCCIDENTAL | 5 | 5 | 3 | 2 | 5 | 3 | 2 | 1 | 3 | 0 | |
| | 63 BUKIDNON | 9 | 8 | 3 | 5 | 8 | 5 | 3 | 1 | 2 | 0 | |
| | 64 AGUSAN DEL SUR | 8 | 6 | 3 | 3 | 6 | 2 | 4 | 1 | 2 | 0 | |
| | | sub-total | 42 | 35 | 14 | 21 | 35 | 18 | 17 | 6 | 14 | 0 |
| XI | 65 SURIGAO DEL SUR | 2 | 2 | 3 | 0 | 2 | 2 | 0 | 1 | 3 | 0 | |
| | 66 DAVAO ORIENTAL | 3 | 3 | 1 | 2 | 3 | 1 | 2 | 1 | 1 | 0 | |
| | 67 DAVAO DEL NORTE | 4 | 3 | 3 | 0 | 3 | 4 | 0 | 1 | 2 | 0 | |
| | 68 DAVAO DEL SUR | 5 | 5 | 3 | 2 | 5 | 1 | 4 | 1 | 3 | 0 | |
| | 69 SOUTH COTABATO | 7 | 6 | 1 | 5 | 6 | 3 | 3 | 1 | 4 | 0 | |
| | sub-total | 21 | 19 | 11 | 9 | 19 | 11 | 9 | 5 | 13 | 0 | |
| XII | 70 LANA DEL NORTE | 8 | 6 | 1 | 5 | 6 | 4 | 2 | 1 | 2 | 0 | |
| | 71 LANA DEL SUR | 6 | 5 | 2 | 3 | 5 | 1 | 4 | 1 | 1 | 0 | |
| | 72 NORTH COTABATO | 15 | 12 | 3 | 9 | 12 | 5 | 7 | 2 | 2 | 0 | |
| | 73 MAGUINDANAO | 12 | 9 | 3 | 6 | 9 | 11 | 0 | 2 | 3 | 0 | |
| | 74 SULTAN KUDARAT | 8 | 6 | 2 | 4 | 6 | 3 | 3 | 1 | 2 | 0 | |
| | sub-total | 49 | 38 | 11 | 27 | 38 | 24 | 16 | 7 | 10 | 0 | |
| | Total | 572 | 468 | 167 | 306 | 468 | 224 | 264 | 91 | 143 | 7 | |

COSTS FOR PIO's FACILITIES AND EQUIPMENT REQUIREMENTS, BY PIO

(Unit : 1,000 Peso)

| Region | PIO | Building | | Office & Survey Equipment | | Construction Equipment | | TOTAL |
|--------|------------------------|-----------------------|----------------|---------------------------|------------------|--|-----------------|-----------|
| | | Administration Office | Equipment Shed | Office Equipment | Survey Equipment | Repair & Spare Parts of Existing Equipment | New Procurement | |
| I | 1 ILOCOS NORTH | 500 | 570 | 126 | 2,384 | 4,560 | 48,582 | 56,722 |
| | 2 ABRA | | 180 | 198 | 728 | 2,693 | 18,192 | 21,991 |
| | 3 ILOCOS SUR | 3,080 | 165 | 126 | 1,012 | 3,697 | 15,185 | 23,265 |
| | 4 MOUNTAIN PROVINCE | 2,580 | 360 | 188 | 1,668 | 4,998 | 28,529 | 38,323 |
| | 5 LA UNION | 415 | 90 | 198 | 428 | 3,246 | 7,199 | 11,576 |
| | 6 BENGUET | | 630 | 14 | 1,964 | 2,901 | 46,420 | 51,929 |
| | 7 PANGASINAN | | 1,005 | 126 | 3,036 | 3,775 | 70,729 | 78,671 |
| | sub-total | 6,575 | 3,000 | 976 | 11,220 | 25,870 | 234,835 | 282,476 |
| II | 8 BATANES | | | | | | | |
| | 9 CAGAYAN | 790 | 323 | 126 | 1,020 | 14,028 | 8,980 | 25,266 |
| | 10 KALINGA APAYAO | 145 | 480 | 126 | 664 | 4,497 | 15,400 | 21,312 |
| | 11 ISABELA | | 240 | 14 | 1,052 | 5,218 | 18,686 | 25,210 |
| | 12 IFUGAO | 795 | 510 | 198 | 1,464 | 3,002 | 36,516 | 42,485 |
| | 13 NUEVA VISCAYA | 1,515 | 720 | 136 | 1,648 | 7,426 | 21,590 | 33,035 |
| | 14 QUIRINO | | 240 | 126 | 652 | 5,203 | 11,755 | 17,976 |
| | sub-total | 3,245 | 2,513 | 726 | 6,500 | 39,373 | 112,927 | 165,284 |
| III | 15 NUEVA ECIIA | | 540 | 126 | 896 | 3,061 | 26,170 | 30,793 |
| | 16 TARLAC | 305 | 285 | 76 | 288 | 2,727 | 9,509 | 13,190 |
| | 17 ZAMBALES | 310 | 146 | 192 | 284 | 2,228 | 10,699 | 13,859 |
| | 18 PAMPANGA | | 225 | 16 | 960 | 3,368 | 16,096 | 20,664 |
| | 19 BULACAN | 1,000 | 45 | 198 | 92 | 1,135 | 6,418 | 8,888 |
| | 20 BATAAN | | 300 | 82 | 212 | 3,725 | 6,970 | 11,289 |
| | | sub-total | 1,615 | 1,541 | 690 | 2,732 | 16,244 | 75,860 |
| IV | 21 AURORA | 780 | 270 | 20 | 216 | 4,876 | 1,210 | 7,372 |
| | 22 QUEZON | 285 | 143 | 126 | 264 | 3,729 | 6,391 | 10,938 |
| | 23 RIZAL | 960 | 180 | 136 | 52 | 1,511 | 6,418 | 9,256 |
| | 24 CAVITE | 215 | 75 | 188 | 40 | 2,330 | 3,562 | 6,409 |
| | 25 LAGUNA | | 270 | 194 | 496 | 2,033 | 11,276 | 14,270 |
| | 26 BATANGAS | | 128 | 188 | 380 | 4,236 | 5,524 | 10,455 |
| | 27 MARINDUQUE | 1,100 | 225 | 190 | 24 | 2,908 | 1,210 | 5,656 |
| | 28 MINDORO ORIENTAL | | 60 | 20 | 316 | 3,101 | 7,157 | 10,654 |
| | 29 MINDORO OCCIDENTAL | 405 | 188 | 14 | 716 | 5,246 | 9,727 | 16,295 |
| | 30 ROMBLON | 420 | 86 | 188 | 116 | 3,265 | 3,703 | 7,778 |
| | 31 PALAWAN | 220 | 765 | 136 | 1,408 | 13,514 | 4,421 | 20,464 |
| | | sub-total | 4,385 | 2,389 | 1,400 | 4,028 | 46,747 | 60,598 |
| V | 32 CAMARINES NORTE | 285 | 315 | 126 | 528 | 3,924 | 5,868 | 11,046 |
| | 33 CAMARINES SUR | 465 | 405 | 126 | 1,508 | 4,425 | 30,168 | 37,097 |
| | 34 CATANDUANES | | 225 | 188 | 36 | 3,765 | 1,150 | 5,364 |
| | 35 ALBAY | 380 | 394 | 126 | 908 | 2,987 | 26,620 | 31,414 |
| | 36 SORSOGON | | 330 | 126 | 504 | 4,054 | 5,299 | 10,313 |
| | 37 MASBATE | | 64 | 86 | 68 | 3,036 | 1,351 | 4,605 |
| | | sub-total | 1,130 | 1,733 | 778 | 3,552 | 22,190 | 70,456 |
| VI | 38 AKLAN | 275 | 375 | 126 | 40 | 6,737 | 1,150 | 8,702 |
| | 39 CAPIZ | 2,060 | 15 | 198 | 276 | 8,460 | 1,236 | 12,245 |
| | 40 ANTIQUE | 400 | 195 | 192 | 832 | 6,782 | 6,976 | 15,376 |
| | 41 ILOILO | 750 | 15 | 136 | 48 | 4,718 | 1,210 | 6,876 |
| | 42 NEGROS OCCIDENTAL | 685 | 60 | 132 | 700 | 9,982 | 2,878 | 14,437 |
| | 43 NEGROS DEL NORTE | | | | | | | |
| | | sub-total | 4,170 | 660 | 784 | 1,896 | 36,678 | 13,448 |
| VII | 44 CEBU | | 15 | 14 | 128 | 5,097 | 1,150 | 6,404 |
| | 45 NEGROS ORIENTAL | | 30 | 126 | 316 | 5,675 | 2,090 | 8,238 |
| | 46 BOHOL | 1,800 | 15 | 136 | 268 | 6,960 | 1,493 | 10,672 |
| | 47 SIKUJOR | | | | | | | |
| | sub-total | 1,800 | 60 | 276 | 712 | 17,732 | 4,733 | 25,313 |
| VIII | 48 NORTHERN SAMAR | 535 | 120 | 126 | 344 | 4,391 | 3,643 | 9,159 |
| | 49 SAMAR | 280 | 285 | 198 | 284 | 4,156 | 1,438 | 6,641 |
| | 50 EASTERN SAMAR | | 375 | 76 | 384 | 5,922 | 3,300 | 10,057 |
| | 51 NORTHERN LEYTE | 700 | 465 | 126 | 632 | 6,800 | 7,457 | 16,180 |
| | 52 SOUTHERN LEYTE | 505 | 109 | 16 | 172 | 5,918 | 1,411 | 8,130 |
| | | sub-total | 2,020 | 1,354 | 542 | 1,816 | 27,187 | 17,249 |
| IX | 53 ZAMBOANGA DEL NORTE | 260 | 90 | 126 | 48 | 10,809 | 168 | 11,501 |
| | 54 ZAMBOANGA DEL SUR | 1,069 | 570 | 136 | 896 | 6,571 | 14,618 | 23,851 |
| | 55 BASILAN | | | | | | | |
| | 56 SULU | | | | | | | |
| | 57 TAWI-TAWI | | | | | | | |
| | sub-total | 1,320 | 660 | 262 | 944 | 17,380 | 14,786 | 35,352 |
| X | 58 SURIGAO DEL NORTE | 1,480 | 360 | 188 | 516 | 4,678 | 5,904 | 13,126 |
| | 59 CAMIGUIN | | | | | | | |
| | 60 AGUSAN DEL NORTE | 780 | 435 | 128 | 464 | 7,044 | 1,949 | 10,800 |
| | 61 MISAMIS ORIENTAL | | 405 | 126 | 416 | 7,859 | 2,090 | 10,897 |
| | 62 MISAMIS OCCIDENTAL | | 60 | 126 | 300 | 4,569 | 4,644 | 9,699 |
| | 63 BUKIDNON | 2,560 | 120 | 126 | 600 | 9,200 | 5,206 | 17,812 |
| | 64 AGUSAN DEL SUR | 370 | 128 | 14 | 464 | 3,578 | 5,904 | 10,457 |
| | sub-total | 5,190 | 1,508 | 708 | 2,760 | 36,928 | 25,697 | 72,790 |
| XI | 65 SURIGAO DEL SUR | 1,760 | 315 | 126 | 48 | 4,324 | 4,006 | 10,579 |
| | 66 DAVAO ORIENTAL | 105 | 113 | 126 | 276 | 5,485 | 3,492 | 9,597 |
| | 67 DAVAO DEL NORTE | | 30 | 14 | 68 | 5,837 | 3,502 | 9,450 |
| | 68 DAVAO DEL SUR | 575 | 30 | 14 | 356 | 14,690 | 1,889 | 17,554 |
| | 69 SOUTH COTABATO | 660 | 225 | 14 | 552 | 11,991 | 4,476 | 17,918 |
| | | sub-total | 3,100 | 713 | 294 | 1,300 | 42,328 | 17,364 |
| XII | 70 LANA O DEL NORTE | | 128 | 126 | 564 | 7,025 | 2,520 | 10,362 |
| | 71 LANA O DEL SUR | | 270 | 126 | 448 | 1,454 | 13,642 | 15,940 |
| | 72 NORTH COTABATO | 2,240 | 210 | 76 | 1,112 | 5,724 | 17,417 | 26,779 |
| | 73 MAGUINDANAO | 4,820 | 420 | 398 | 604 | 5,282 | 8,588 | 19,913 |
| | 74 SULTAN KUDARAT | 1,540 | 139 | 130 | 508 | 7,825 | 3,300 | 13,442 |
| | sub-total | 8,600 | 1,166 | 656 | 3,236 | 27,310 | 45,467 | 86,435 |
| | Total | 43,150 | 17,295 | 8,092 | 40,696 | 355,967 | 693,420 | 1,158,620 |

Table E2-29

DISBURSEMENT SCHEDULE OF PROPOSED FACILITIES AND EQUIPMENT, BY PIO

| | | (Unit : 1,000 Peso) | | | | | | | |
|------|-----------------------|---------------------|---------|---------|--------|--------|--------|-------------|-----------|
| | | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 - 2001 | Total |
| I | 1 ILOCOS NORTE | 8,140 | 22,836 | 25,746 | 0 | 0 | 0 | 0 | 56,722 |
| | 2 ABRA | 7,864 | 0 | 5,921 | 655 | 7,550 | 0 | 0 | 21,991 |
| | 3 ILOCOS SUR | 15,211 | 0 | 0 | 7,399 | 655 | 0 | 0 | 23,265 |
| | 4 MOUNTAIN PROVINCE | 14,412 | 655 | 22,550 | 706 | 0 | 0 | 0 | 38,323 |
| | 5 LA UNION | 4,377 | 4,106 | 3,092 | 0 | 0 | 0 | 0 | 11,576 |
| | 6 BENGUET | 9,213 | 15,115 | 17,393 | 0 | 706 | 9,503 | 0 | 51,929 |
| | 7 PANGASINAN | 8,950 | 31,736 | 37,985 | 0 | 0 | 0 | 0 | 78,671 |
| | sub-total | 68,165 | 74,449 | 112,687 | 8,760 | 8,911 | 9,503 | 0 | 282,476 |
| II | 8 BATANES | | | | | | | | |
| | 9 CAGAYAN | 16,287 | 1,210 | 1,200 | 1,822 | 4,748 | 0 | 0 | 25,266 |
| | 10 KALINGA APAYAO | 6,920 | 14,392 | 0 | 0 | 0 | 0 | 0 | 21,312 |
| | 11 ISABELA | 6,524 | 2,930 | 15,756 | 0 | 0 | 0 | 0 | 25,210 |
| | 12 IFUGAO | 7,178 | 202 | 24,896 | 9,503 | 0 | 706 | 0 | 42,485 |
| | 13 NUEVA VISCAAYA | 11,445 | 2,729 | 10,602 | 655 | 7,604 | 0 | 0 | 33,035 |
| | 14 QUIRINO | 7,229 | 4,920 | 5,827 | 0 | 0 | 0 | 0 | 17,976 |
| | sub-total | 55,582 | 26,382 | 58,282 | 11,980 | 12,353 | 706 | 0 | 165,284 |
| III | 15 NUEVA ECIJA | 5,631 | 6,466 | 18,696 | 0 | 0 | 0 | 0 | 30,793 |
| | 16 TARLAC | 3,681 | 3,360 | 6,149 | 0 | 0 | 0 | 0 | 13,190 |
| | 17 ZAMBALES | 3,160 | 4,207 | 202 | 6,290 | 0 | 0 | 0 | 13,859 |
| | 18 PAMPANGA | 4,569 | 6,038 | 9,402 | 0 | 655 | 0 | 0 | 20,664 |
| | 19 BULACAN | 2,470 | 6,418 | 0 | 0 | 0 | 0 | 0 | 8,888 |
| | 20 BATAAN | 4,319 | 3,562 | 0 | 3,408 | 0 | 0 | 0 | 11,289 |
| | sub-total | 23,831 | 30,050 | 34,448 | 9,698 | 655 | 0 | 0 | 98,683 |
| IV | 21 AURORA | 7,372 | 0 | 0 | 0 | 0 | 0 | 0 | 7,372 |
| | 22 QUEZON | 5,756 | 202 | 0 | 4,325 | 655 | 0 | 0 | 10,938 |
| | 23 RIZAL | 2,839 | 6,418 | 0 | 0 | 0 | 0 | 0 | 9,256 |
| | 24 CAVITE | 6,409 | 0 | 0 | 0 | 0 | 0 | 0 | 6,409 |
| | 25 LAGUNA | 2,993 | 3,790 | 7,487 | 0 | 0 | 0 | 0 | 14,270 |
| | 26 BATANGAS | 4,931 | 1,034 | 4,489 | 0 | 0 | 0 | 0 | 10,455 |
| | 27 MARINDUQUE | 4,447 | 1,210 | 0 | 0 | 0 | 0 | 0 | 5,656 |
| | 28 MINDORO ORIENTAL | 3,497 | 1,008 | 202 | 5,947 | 0 | 0 | 0 | 10,654 |
| | 29 MINDORO OCCIDENTAL | 6,568 | 1,579 | 8,148 | 0 | 0 | 0 | 0 | 16,295 |
| | 30 ROMBLON | 7,576 | 0 | 0 | 202 | 0 | 0 | 0 | 7,778 |
| | 31 PALAWAN | 16,386 | 0 | 343 | 3,079 | 655 | 0 | 0 | 20,464 |
| | sub-total | 68,774 | 15,240 | 20,669 | 13,553 | 1,310 | 0 | 0 | 119,546 |
| V | 32 CAMARINES NORTE | 6,529 | 4,517 | 0 | 0 | 0 | 0 | 0 | 11,046 |
| | 33 CAMARINES SUR | 8,105 | 2,746 | 26,246 | 0 | 0 | 0 | 0 | 37,097 |
| | 34 CATANDUANES | 5,364 | 0 | 0 | 0 | 0 | 0 | 0 | 5,364 |
| | 35 ALBAY | 5,944 | 8,518 | 16,952 | 0 | 0 | 0 | 0 | 31,414 |
| | 36 SORSOGON | 6,224 | 3,434 | 655 | 0 | 0 | 0 | 0 | 10,313 |
| | 37 MASBATE | 4,403 | 202 | 0 | 0 | 0 | 0 | 0 | 4,605 |
| | sub-total | 36,568 | 19,416 | 43,854 | 0 | 0 | 0 | 0 | 99,838 |
| VI | 38 AKLAN | 7,553 | 1,150 | 0 | 0 | 0 | 0 | 0 | 8,702 |
| | 39 CAPIZ | 11,009 | 1,034 | 202 | 0 | 0 | 0 | 0 | 12,245 |
| | 40 ANTIQUE | 10,376 | 5,000 | 0 | 0 | 0 | 0 | 0 | 15,376 |
| | 41 ILOILO | 6,876 | 0 | 0 | 0 | 0 | 0 | 0 | 6,876 |
| | 42 NEGROS OCCIDENTAL | 11,902 | 1,368 | 1,166 | 0 | 0 | 0 | 0 | 14,437 |
| | 43 NEGROS DEL NORTE | | | | | | | | |
| | sub-total | 47,716 | 8,552 | 1,368 | 0 | 0 | 0 | 0 | 57,637 |
| VII | 44 CEBU | 6,404 | 0 | 0 | 0 | 0 | 0 | 0 | 6,404 |
| | 45 NEGROS ORIENTAL | 7,499 | 739 | 0 | 0 | 0 | 0 | 0 | 8,238 |
| | 46 BOHOL | 9,320 | 202 | 1,150 | 0 | 0 | 0 | 0 | 10,672 |
| | 47 SIKUJOR | | | | | | | | |
| | sub-total | 23,223 | 941 | 1,150 | 0 | 0 | 0 | 0 | 25,313 |
| VIII | 48 NORTHERN SAMAR | 6,867 | 202 | 2,090 | 0 | 0 | 0 | 0 | 9,159 |
| | 49 SAMAR | 6,439 | 202 | 0 | 0 | 0 | 0 | 0 | 6,641 |
| | 50 EASTERN SAMAR | 7,967 | 2,090 | 0 | 0 | 0 | 0 | 0 | 10,057 |
| | 51 NORTHERN LEYTE | 11,385 | 202 | 3,888 | 706 | 0 | 0 | 0 | 16,180 |
| | 52 SOUTHERN LEYTE | 7,929 | 202 | 0 | 0 | 0 | 0 | 0 | 8,130 |
| | sub-total | 40,586 | 2,897 | 5,978 | 706 | 0 | 0 | 0 | 50,167 |
| IX | 53 ZAMBOANGA DEL NOI | 11,501 | 0 | 0 | 0 | 0 | 0 | 0 | 11,501 |
| | 54 ZAMBOANGA DEL SUF | 10,382 | 5,579 | 7,890 | 0 | 0 | 0 | 0 | 23,851 |
| | 55 BASILAN | | | | | | | | |
| | 56 SULU | | | | | | | | |
| | 57 TAWI-TAWI | | | | | | | | |
| | sub-total | 21,884 | 5,579 | 7,890 | 0 | 0 | 0 | 0 | 35,352 |
| X | 58 SURIGAO DEL NORTE | 8,371 | 202 | 3,898 | 655 | 0 | 0 | 0 | 13,126 |
| | 59 CAMIGUIN | | | | | | | | |
| | 60 AGUSAN DEL NORTE | 10,061 | 0 | 739 | 0 | 0 | 0 | 0 | 10,800 |
| | 61 MISAMIS ORIENTAL | 9,956 | 202 | 739 | 0 | 0 | 0 | 0 | 10,897 |
| | 62 MISAMIS OCCIDENTAL | 5,055 | 1,008 | 3,636 | 0 | 0 | 0 | 0 | 9,699 |
| | 63 BUKIDNON | 13,957 | 3,854 | 0 | 0 | 0 | 0 | 0 | 17,811 |
| | 64 AGUSAN DEL SUR | 5,703 | 4,754 | 0 | 0 | 0 | 0 | 0 | 10,457 |
| | sub-total | 53,103 | 10,020 | 9,012 | 655 | 0 | 0 | 0 | 72,790 |
| XI | 65 SURIGAO DEL SUR | 10,579 | 0 | 0 | 0 | 0 | 0 | 0 | 10,579 |
| | 66 DAVAO ORIENTAL | 8,942 | 0 | 0 | 0 | 655 | 0 | 0 | 9,597 |
| | 67 DAVAO DEL NORTE | 9,450 | 0 | 0 | 0 | 0 | 0 | 0 | 9,450 |
| | 68 DAVAO DEL SUR | 16,815 | 0 | 739 | 0 | 0 | 0 | 0 | 17,554 |
| | 69 SOUTH COTABATO | 17,717 | 202 | 0 | 0 | 0 | 0 | 0 | 17,919 |
| | sub-total | 63,502 | 202 | 739 | 0 | 655 | 0 | 0 | 65,098 |
| XII | 70 LANA DEL NORTE | 8,876 | 202 | 1,082 | 202 | 0 | 0 | 0 | 10,362 |
| | 71 LANA DEL SUR | 8,884 | 7,056 | 0 | 0 | 0 | 0 | 0 | 15,940 |
| | 72 NORTH COTABATO | 10,512 | 1,116 | 15,151 | 0 | 0 | 0 | 0 | 26,779 |
| | 73 MAGUINDANAO | 12,500 | 773 | 6,640 | 0 | 0 | 0 | 0 | 19,913 |
| | 74 SULTAN KUDARAT | 11,150 | 2,090 | 202 | 0 | 0 | 0 | 0 | 13,442 |
| | sub-total | 51,922 | 11,237 | 23,075 | 202 | 0 | 0 | 0 | 86,435 |
| | Total | 554,856 | 204,965 | 319,152 | 45,553 | 23,885 | 10,208 | 0 | 1,158,620 |

ANNEX F

***PROFILES OF
SAMPLE SUB-PROJECT***

***(RESULTS OF POST-EVALUATION
STUDIES)***

ANNEX F
PROFILES OF SAMPLE SUB-PROJECT
(RESULTS OF POST-EVALUATION STUDIES)

Table of Profiles

| <u>Profile No.</u> | <u>Region</u> | <u>Province</u> | <u>Name of CISs/CIPs</u> |
|--------------------|---------------|-------------------|--------------------------|
| 1 | I | Pangasinan | Alos-Paed CIS |
| 2 | | | Nama-Inuman-Sugcong CIS |
| 3 | | | Calsib CIS |
| 4 | II | Nueva Vizcaya | Allay-Nangcalapan CIS |
| 5 | | | Conception CIS |
| 6 | | | Casat-Wacal CIS |
| 7 | | | Simmaguer CIS |
| 8 | III | Pampanga | Camias CIS |
| 9 | | | San Agustin CIS |
| 10 | | | Gatiawin CIS |
| 11 | IV | Palawan | Tigman CIS |
| 12 | | | Barake CIS |
| 13 | | | Tagbuaya CIP |
| 14 | V | Camarines Sur | init CIS |
| 15 | | | Kaanunangan CIS |
| 16 | | | Gatbo CIS |
| 16 | | | Curry Caromas CIS |
| 18 | VI | Iloilo | Bayunan CIS |
| 19 | | | Bairan CIP |
| 20 | | | Tanduyan CIS |
| 21 | VII | Cebu | Argao CIS |
| 22 | | | Lagan-Ocana CIS |
| 23 | | | Dumanjug CIS |
| 24 | VIII | Northern Leyte | Macanip CIS |
| 25 | | | Maragundong CIP |
| 26 | | | Caray-Caray CIS |
| 27 | IX | Zamboanga del Sur | Guiwan CIS |
| 28 | | | Vitali CIP |
| 29 | | | Binayan CIP |
| 30 | X | Misamis Oriental | Lampasyao CIS |
| 31 | | | Lourdes CIS |
| 32 | | | Farmbugas CIP |
| 33 | | | Mat-i II CIS |
| 34 | XI | Davao del Norte | Linoan CIS |
| 35 | | | Daunan CIS |
| 36 | XII | Lanao del Norte | Balili CIS |
| 37 | | | Waterfalls CIS |
| 38 | | | Limuag CIS |

SSIDP SAMPLE SUB-PROJECT PROFILE

FILE NO. : 1

| | |
|---|----------------------------------|
| Code : E 01 07 050 A | Name : ALOS-PAED CIS |
| Region : I | Province : PANGASINAN |
| Municipality : ALAMINOS | |
| Present Status : 1. No Planning, 2. F/S, 3. D/D, 4. Construction, 5. Rehab/Imprv., 6. O/M | |
| IA : ALOS-PAED IA | Nos. of Members : 205 Households |

Technical Assessment (F/S, D/D, Construction, O/M) :

- General : Concrete diversion weir and canals were constructed in 1972 through a local government assistance (dole-out). However, since these facilities deteriorated, rehabilitation works started in 1989 as CIS and is scheduled to be completed in December 1990. No data on F/S, design and construction in early 1970s are available at present.
- F/S : Planning for the rehabilitation was made in 1988 based on 1/4,000 topo. map. Discharge measurement was done by floatation method. Land capability and soils were assessed using the soil map prepared by the Bureau of Soils. (Duration : 8 months)
- D/D : Design for the rehabilitation was made based on 1/4,000 topo. map and 10 drawings were prepared. (Duration : 6 months)
- Construction : The rehabilitation is being conducted under NIA force account base. The IA participates in the work and renders equity in the form of labor and local materials.
- Outstanding Issues :
 - Three irrigation canals have to be re-located because of unexpected Right-of-Way problem.

Agro-Economic Assessment :

- Target cropping intensity is 176%, while present intensity is 160%.
- Soils and land slope are suitable for paddy cultivation.
- Average farm size is 1.4 ha.
- After the completion of rehabilitation, average paddy yield is expected to increase from 2.5 tons/ha to 3.5 tons/ha for both wet and dry seasons with an application of improved farming practices.

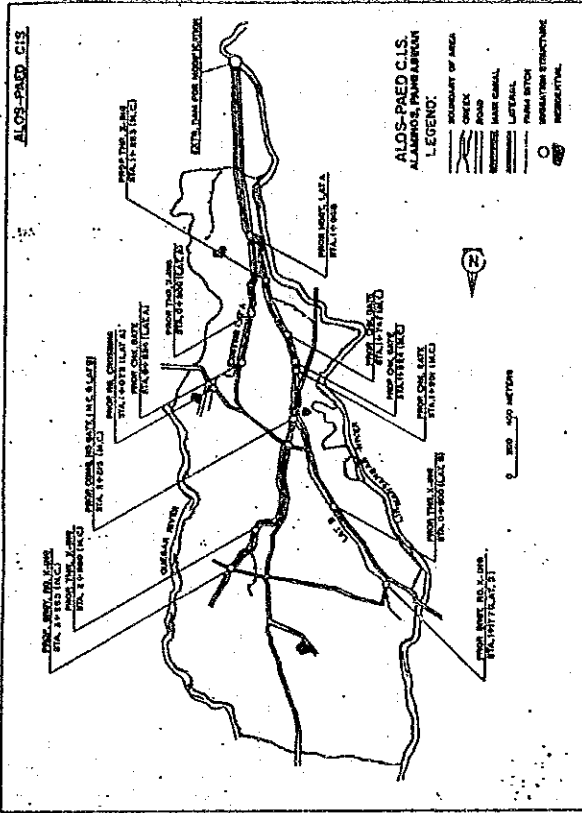
Institutional Assessment :

- Farmers really want the rehabilitation of the existing irrigation facilities but they were quite hesitant on the repayment program since the existing facilities were a dole-out. However, since the PIO explained the system and nature of the program to them, the farmers come to understand the necessity of repayment and they are willing to accept the loan.
- The IA was organized even before NIA came in, but the registration of IA was in 1989. They have undergone NIA's training on system management and financial management in order to facilitate O & M after the turn-over.

Environmental Assessment :

- No negative environmental impact is anticipated.

General Layout :



Sub-Project Background :

- F/S :
 - D/D :
 - Construction : 1972
 - Past Rehab/Imprv. : On-going
- Costs Spent for Sub-Project (1,000 Pesos) :

- Initial Const. :
- Past Rehab/Imprv. :

Fund Required for Sub-Project (1,000 Pesos) :

- New Const. : (As of 19)
- Rehab/Imprv. : 3,500 (As of 1988)
- Expansion : (As of 19)

EIRR of Sub-Project

as of 1988 : 20 %

Remarks :

Principal Feature of Sub-Project :

- | Plan | Actual |
|---------------------------------|------------|
| 1. Net Irrigable Area | |
| - Wet season (ha) | : 280 |
| - Dry season (ha) | : 212 |
| 2. Diversion Weir | |
| - Material | : Concrete |
| - Length (m) | : 29.50 |
| - Height (m) | : 1.50 |
| 3. Intake | |
| - Design Discharge (l/s) | : 913 |
| 4. Main Canals (km) | : 4.00 |
| 5. Laterals/Sub-Laterals (km) | : 6.00 |
| 6. Field Ditches (km) | : |
| 7. Main (Project) Drains (km) | : |
| 8. Secondary (Farm) Drains (km) | : |
| 9. Drainage Ditches (km) | : |
| 10. Access Road (km) | : 0.50 |

SSIDP SAMPLE SUB-PROJECT PROFILE

FILE NO. : 2

Code : E 01 07 312 N Name : NAMA-INUMAN-SUGCONG CIS

Region : I Province : PANGASINAN Municipality : SISON

Present Status : 1. No Planning, 2. FIS, 3. D/D, 4. Construction, 5. Rehab/Imprv, 6. O/M

IA : NAMA-INUMAN-SUGCONG IA Nos. of Members : 400 Households

Technical Assessment (F/S, D/D, Construction, O/M) :

- General : A diversion weir and major irrigation facilities were constructed in 1950s under local government's assistance, but the weir was totally washed away by flood in 1987. Because of this situation and deterioration of canals and canal structures, FIS and design for the rehabilitation were conducted in 1988 by NIA and the rehabilitation is expected by farmers.
- F/S : Planning for the rehabilitation was done in 1988 based on 1/4,000 topo. map. Discharge measurement was conducted by floatation method. Soil survey and agro-economic survey were also done. (Duration : 6 months)
- D/D : Design for the rehabilitation was done in 1988 based on 1/4,000 topo. map. (Duration : 6 months)
- Outstanding issues :
 - Irrigation facilities are not functioning at present since the diversion weir was washed away.

Agro-Economic Assessment :

- Present cropping intensity is about 100% and target intensity is 149%.
- Soils and land slope are suitable for paddy cultivation.
- Average farm size is 0.9 ha.
- Present paddy field is 3 tons/ha and target yield is 4 tons/ha.

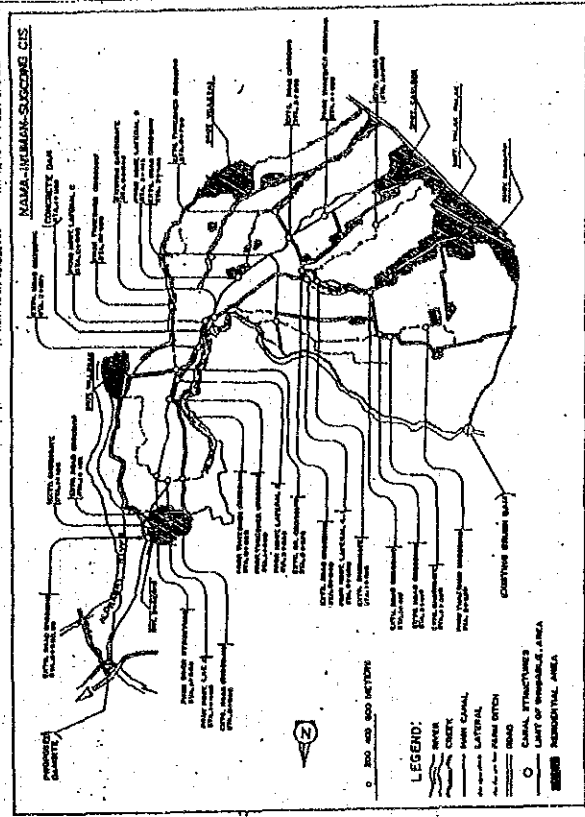
Institutional Assessment :

- Beneficiaries have an officially registered IA.
- The IA agreed that cash equity will only be accepted if the value of the rendered labor and raw materials will not be enough to cover the agreed 50% share of the IA.
- The IA members were willingly involved in the design and are willing to be involved in the construction.

Environmental Assessment :

- This sub-project area is near a cement factory and pollution caused by the factory is anticipated.

General Layout :



Sub-Project Background :

- F/S : 1950s
 - D/D : 1950s
 - Construction : 1950s
 - Past Rehab/Imprv. : 1950s
- Costs Spent for Sub-Project (1,000 Pesos) :
- Initial Const. : 1,599
 - Past Rehab/Imprv. : 5,000
- Fund Required for Sub-Project (1,000 Pesos) :
- New Const. : (As of 19) 5,264
 - Rehab/Imprv. : (As of 1988) 5,264
 - Expansion : (As of 19) 5,264
- EIRR of Sub-Project as of 1988 : 37 %

Principal Feature of Sub-Project :

- | Principal Feature of Sub-Project | Plan | Actual |
|----------------------------------|----------|---------------------|
| 1. Net Irrigable Area | | |
| - Wet season (ha) | 369 | |
| - Dry season (ha) | 180 | |
| 2. Diversion Weir | | |
| - Material | Concrete | |
| - Length (m) | 39.50 | Washed away in 1987 |
| - Height (m) | 1.00 | |
| 3. Intake | | |
| - Design Discharge (l/s) | 1,599 | |
| 4. Main Canals (km) | 5.00 | |
| 5. Laterals/Sub-Laterals (km) | 10.50 | |
| 6. Field Ditches (km) | 5.00 | |
| 7. Main (Project) Drains (km) | | |
| 8. Secondary (Farm) Drains (km) | | |
| 9. Drainage Ditches (km) | | |
| 10. Access Road (km) | | |

Remarks :

SSIDP SAMPLE SUB-PROJECT PROFILE

FILE NO. : 3

Code : E 01 07 010 A Name : CALSIB CIS
 Region : I Province : PANGASINAN Municipality : AGUILAR
 Present Status : 1. No Planning, 2. F/S, 3. D/D, 4. Construction, 5. Rehab/Imprv., 6. O/M
 IA : CALSIB-BUER IA, INC. Nos. of Members : 417 Households

Technical Assessment (F/S, D/D, Construction, O/M) :

1. General : Diversion weir and major irrigation facilities were constructed through an assistance of PACD (Presidential Assistance on Community Development) in 1964. Because of deterioration of these facilities, canals and canal structures were rehabilitated in 1987 as CIS. Data on F/S, design and construction in 1964 are not available at present.

2. F/S : Planning for the rehabilitation was made in 1986 based on 1/4,000 topo. map. Discharge measurement was done using floatation method. Soil survey and agro-economic survey were also carried out. (Duration : 1 year)

3. D/D : Design for the rehabilitation was made in 1986 based on 1/4,000 topo. map. (Duration : 5 months)

4. Construction : The rehabilitation was carried out under NIA force account base in 1987. The IA participated in the work under Pacquiao contract. Supervision was done with an emphasis on quality control of concrete. (Duration : 8 months)

5. O/M : Farmers participation in the maintenance of the irrigation facilities is satisfactorily conducted although some farmers do not obey the IA plans. All the facilities are functioning but the weir only needs a rehabilitation.

6. Outstanding Issues :

- Irrigation area in dry season has increased from 149 ha in F/S to 180 ha owing to available water in the river and eagerness of farmers to irrigatedd farming.

Agro-Economic Assessment :

1. Although target cropping intensity was 183 %, the present intensity is 200 % after the rehabilitation.
2. Soils and land slope are suitable for paddy cultivation.
3. Average farm size is 0.4 ha.
4. Present paddy yield is 3.75 tons/ha and 4.25 tons/ha for wet and dry seasons, respectively, although target yield in F/S was 3.5 tons/ha.

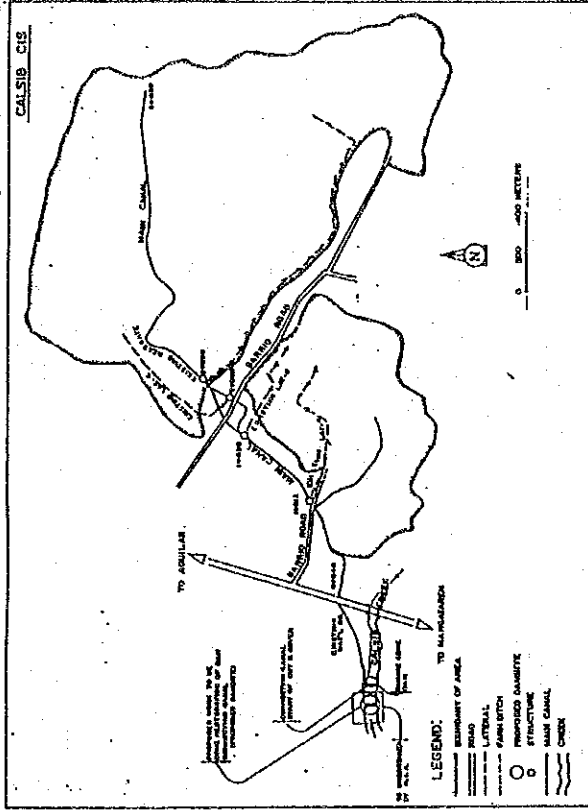
Institutional Assessment :

1. The farmers were involved in the rehabilitation in 1987 and generated the required equity in the form of labor and materials.
2. They have undergone NIA's training on CID (Communal Irrigation Development) program.
3. O&M is satisfactorily carried out by IA.
4. Recently, some IA members have come not to pay. As a result, repaid amount in 1989 was only 10%. Those farmers are aware that strict sanction will not be imposed to them because of their indebtedness.

Environmental Assessment :

Farm income has increased due to increase in rice production and cropping intensity.

General Layout :



Sub-Project Background :

1. F/S
 2. D/D
 3. Construction
 4. Past Rehab./Imprv.
- Costs Spent for Sub-Project (1,000 Pesos) :

1. Initial Const.
 2. Past Rehab./Imprv.
- Fund Required for Sub-Project (1,000 Pesos) :

1. New Const. (As of 19)
2. Rehab./Imprv. (As of 1986)
3. Expansion (As of 19)

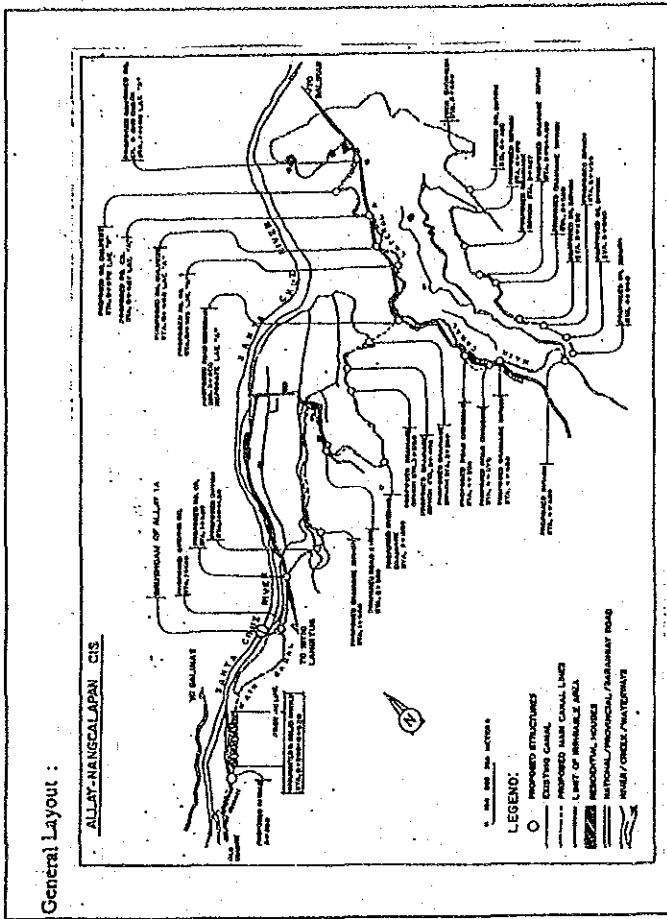
EIRR of Sub-Project as of 1986 : 17 %

Remarks :

Principal Feature of Sub-Project :

| | Plan | Actual |
|---------------------------------|--------------------------|----------|
| 1. Net Irrigable Area | | |
| - Wet season (ha) | 180 | 180 |
| - Dry season (ha) | 149 | 180 |
| 2. Diversion Weir | | |
| - Material | (Not included in rehab.) | Concrete |
| - Length (m) | | 60.00 |
| - Height (m) | | 1.00 |
| 3. Intake | | |
| - Design Discharge (l/s) | 1,458 | 1,583 |
| 4. Main Canals (km) | 2.40 | 2.40 |
| 5. Laterals/Sub-Laterals (km) | 2.00 | 2.00 |
| 6. Field Ditches (km) | | |
| 7. Main (Project) Drains (km) | | |
| 8. Secondary (Farm) Drains (km) | | |
| 9. Drainage Ditches (km) | | |
| 10. Access Road (km) | | |

| | | |
|---|------------------------------|------------------------|
| SSIDP SAMPLE SUB-PROJECT PROFILE | | FILE NO. : 4 |
| Code : E 02 13 138 U | Name : ALLAY-NANGCALAPAN CIS | |
| Region : II | Province : NUEVA VISCAYA | Municipality : BAMBANG |
| Present Status : 1. No Planning, 2. F/S, 3. D/D, 4. Construction, 5. Rehab/Imprv., 6. O/M | | |
| IA : | Nos. of Members : | Households |
| <p>Technical Assessment (F/S, D/D, Construction, O/M) :</p> <p>1. General : The irrigation facilities were constructed by farmers based on their experience. No data on the construction are available at present. Because of deterioration of the originally poor facilities, an entire rehabilitation of the existing facilities and construction of a concrete weir are badly needed by the IA.</p> <p>2. F/S : Planning for the rehabilitation was conducted in 1988. Discharge measurement had been carried out from 1988 to 1990 by using current meter.</p> <p>3. D/D : Design for the rehabilitation was made based on 1/4,000 topo. map. A core-wall type diversion weir was designed.</p> <p>4. O/M : O&M of the existing facilities are being carried out at a satisfactory level.</p> <p>5. Outstanding Issues :</p> <ul style="list-style-type: none"> - Development cost per ha of P 79,120 is excessively high. - There are two problems for the construction, i.e. access to the area and non-availability of sand and gravels in the area. | | |
| <p>Agro-Economic Assessment :</p> <ol style="list-style-type: none"> 1. Target cropping intensity is 200%. 2. Soils and land slope is suitable for paddy cultivation. 3. Average farm size seems 2 ha. | | |
| <p>Institutional Assessment :</p> <ol style="list-style-type: none"> 1. There are two farmers associations, i.e. Allay and Nangcalapan. The farmers in Allay area has already an IA of 32 members but those in Nangcalapan area does not have IA. At present two associations are forming one IA. 2. There is difficulty in holding a meeting of farmers because of far distance among their houses. 3. The farmers express their eagerness to form a IA. | | |
| <p>Environmental Assessment :</p> <ol style="list-style-type: none"> 1. No negative environmental impact is anticipated. 2. Increase in employment opportunities and farm income is expected. | | |



| Sub-Project Background : | Plan | Actual |
|---|-----------|--------|
| 1. F/S : | 117 | 117 |
| 2. D/D : | 117 | 117 |
| 3. Construction : | Unknown | |
| 4. Past Rehab./Imprv. : | Concrete/ | Brush |
| Costs Spent for Sub-Project (1,000 Pesos) : | Core-wall | Weir |
| 1. Initial Const. : | 80.00 | |
| 2. Past Rehab./Imprv. : | | |
| Fund Required for Sub-Project (1,000 Pesos) : | | |
| 1. New Const. (As of 1990) : | 188.00 | |
| 2. Rehab./Imprv. (As of 1988) : | 6.22 | |
| 3. Expansion (As of 19) : | 2.00 | |
| EIRR of Sub-Project as of 1990 : | 4.00 | |
| | 4.00 | |
| | 4.00 | |
| | 4.00 | |
| | 2.70 | |
| | | |
| Remarks : | | |

SSDP SAMPLE SUB-PROJECT PROFILE

FILE NO. : 5

Code : E 02 13 139 U Name : CONCEPCION CIS
 Region : II Province : NUEVA VISCAYA Municipality : SOLANO
 Present Status : 1. No Planning, 2. F/S, 3. D/D, 4. Construction, 5. Rehab/Imprv., 6. O/M
 IA : --- Nos. of Members : --- Households

Technical Assessment (F/S, D/D, Construction, O/M) :

- General : The existing irrigation facilities were constructed by farmers based on their experience. No data on the construction of existing facilities are available. Because of the deterioration of the originally poor facilities, an entire rehabilitation of the existing facilities and construction of concrete weir are badly needed by farmers.
- F/S : The Planning for the rehabilitation was conducted in 1989. Discharge measurement had been carried out once a month for 2 years, using a current meter.
- D/D : Design for the rehabilitation was finished based on 1/4,000 topo. map. A core-wall type diversion weir was designed.
- O/M : The existing facilities hardly function and O & M of the facilities are at a poor level.
- Outstanding Issues :
 - Siltation in canals is very serious.

Agro-Economic Assessment :

- Target cropping intensity is 200%.
- Soils and land slope are suitable for paddy cultivation.
- Average farm size seems 1.5 ha.
- Target paddy yield is 2.75 tons/ha and present yield is 2.25 tons/ha.
- EIRR of this sub-project is unknown.

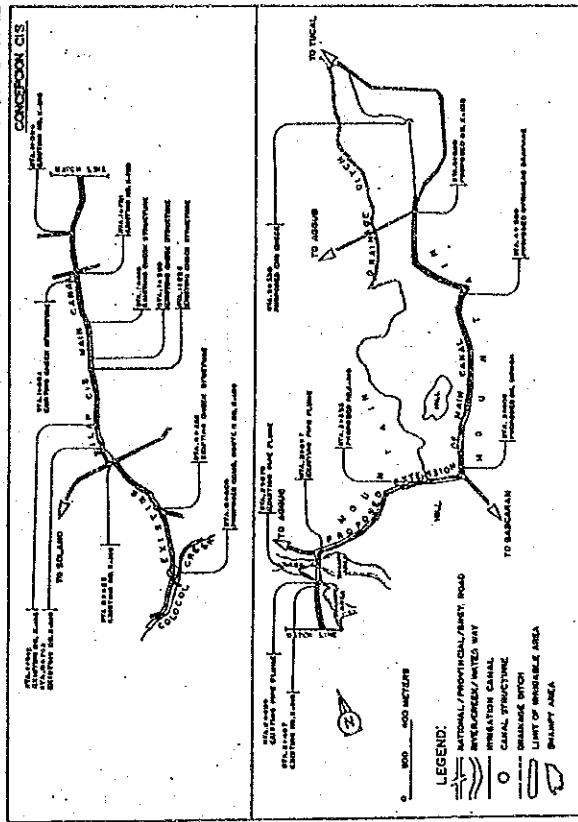
Institutional Assessment :

- An establishment of IA has not been made. According to the investigation, it is clarified that there are potential IA members and officials in the area.
- The farmers are willing to have their own IA and rehabilitated facilities.

Environmental Assessment :

No negative environmental impact is anticipated.

General Layout :



Sub-Project Background :

- F/S : -
 - D/D : -
 - Construction : Unknown
 - Past Rehab./Imprv. : -
- Costs Spent for Sub-Project (1,000 Pesos) :
- Initial Const. : -
 - Past Rehab./Imprv. : -
- Fund Required for Sub-Project (1,000 Pesos) :
- New Const. : 2,700 (As of 1990)
 - Rehab./Imprv. : (As of 19)
 - Expansion : (As of 19)
- EIRR of Sub-Project as of 19 : %

Principal Feature of Sub-Project :

| | Plan | Actual |
|---------------------------------|-----------|--------|
| 1. Net Irrigable Area | | |
| - Wet season (ha) | 165 | 60 |
| - Dry season (ha) | 165 | 60 |
| 2. Diversion Weir | | |
| - Material | Concrete/ | Brush |
| - Length (m) | Core-wall | Weir |
| - Height (m) | 10.00 | |
| 3. Intake | 1.30 | |
| - Design Discharge (l/s) | 264 | |
| 4. Main Canals (km) | 5.53 | |
| 5. Laterals/Sub-Laterals (km) | | |
| 6. Field Ditches (km) | 3.00 | |
| 7. Main (Project) Drains (km) | | |
| 8. Secondary (Farm) Drains (km) | | |
| 9. Drainage Ditches (km) | 1.28 | |
| 10. Access Road (km) | 6.00 | |

Remarks :

SSIDP SAMPLE SUB-PROJECT PROFILE

FILE NO. : 6

| | |
|--|----------------------------------|
| Code : E.02.13.063 P | Name : CASAT-WACAL CIS |
| Region : II | Province : NUEVA VISCAYA |
| Municipality : BAYOMBONG-SOLANO | |
| Present Status : 1. No Planning, 2. F/S, 3. D/D, 4. Construction, 5. Rehab/Imprv., 6. OM | |
| IA : CASAT-WACAL TANGAL BATU FARMERS IA | Nos. of Members : --- Households |

Technical Assessment (F/S, D/D, Construction, O/M) :

- General : The existing facilities were constructed by farmers based on their experience. No data on the construction of existing facilities are available. Because of the deterioration of the existing facilities, an entire rehabilitation of the facilities, construction of a concrete weir and drainage improvement are required by the IA.
- F/S : Planning for the rehabilitation was made in 1990. Discharge measurement was done once a month for 1 year by using current meter. Soil survey and agro-economic survey were also done.
- D/D : Design for the rehabilitation was conducted based on 1/4,000 topo. map.
- OM : O&M of the existing facilities are relatively good. The existing facilities are poorly functioning.
- Outstanding Issues :
 - Almost half of the area is flooded at the peak time of wet season. Drainage improvement is very necessary.

Agro-Economic Assessment :

- Target cropping intensity is 200%.
- Soils and land slope are suitable for paddy cultivation.
- Average farm size seems 1.7 ha.
- Shortage of manpower is a major constraint in farming. To solve this problem, some relatively well-off farmers have introduced farm machinery.
- EIRR of this sub-project is unknown.

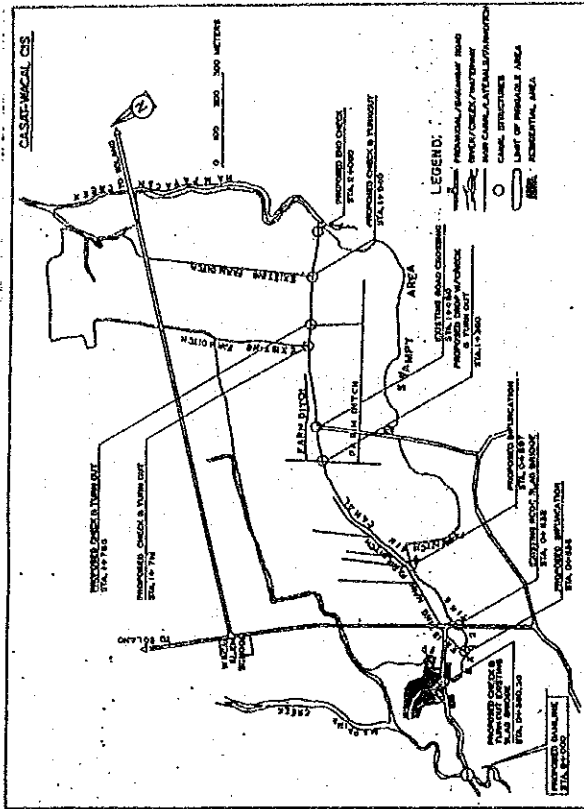
Institutional Assessment :

- The IA seems very viable.
- The IA is ready to participate in the rehabilitation work in the form of labor and material supply.
- The IA needs not only rehabilitation of facilities but also improved farming practice.

Environmental Assessment :

Increase in employment opportunity and farm income is expected. No negative impact is anticipated.

General Layout :



Sub-Project Background :

| | | |
|---|---|--------------------|
| 1. F/S | : | : |
| 2. D/D | : | : |
| 3. Construction | : | Unknown |
| 4. Past Rehab./Imprv. | : | : |
| Costs Spent for Sub-Project (1,000 Pesos) : | | |
| 1. Initial Const. | : | : |
| 2. Past Rehab./Imprv. | : | : |
| Fund Required for Sub-Project (1,000 Pesos) : | | |
| 1. New Const. | : | (As of 19) |
| 2. Rehab./Imprv. | : | 3,600 (As of 1990) |
| 3. Expansion | : | (As of 19) |
| EIRR of Sub-Project as of 19 | : | % |

Principal Feature of Sub-Project :

| | Plan | Actual |
|---------------------------------|-----------|--------|
| 1. Net Irrigable Area | | |
| - Wet season (ha) | 80 | 80 |
| - Dry season (ha) | 80 | 80 |
| 2. Diversion Weir | | |
| - Material | Concrete/ | Brush |
| - Length (m) | Core-wall | Weir |
| - Height (m) | 30.00 | - |
| 3. Intake | 1.30 | - |
| - Design Discharge (l/s) | 120 | |
| 4. Main Canals (km) | 2.08 | |
| 5. Laterals/Sub-Laterals (km) | | |
| 6. Field Ditches (km) | 1.44 | |
| 7. Main (Project) Drains (km) | | |
| 8. Secondary (Farm) Drains (km) | | |
| 9. Drainage Ditches (km) | 4.57 | |
| 10. Access Road (km) | | |
| 11. Flood Protection Dike (km) | 0.60 | |

Remarks :

SSIDP SAMPLE SUB-PROJECT PROFILE

FILE NO. : 7

Code : E 02 13 010 A Name : SIMMAGUER CIS
 Region : II Province : NUEVA VISAYA Municipality : ARITAO
 Present Status : 1. No Planning, 2. F/S, 3. D/D, 4. Construction, 5. Rehab/Imprv., 6. O/M
 IA : SIMMAGUER FARMERS IA Nos. of Members : 92 Households

Technical Assessment (F/S, D/D, Construction, O/M) :

1. F/S : Planning for irrigation development of this sub-project was undertaken in 1978. Discharge measurement, soil survey and agro-economic survey were conducted. However, only the discharge measurement was done from 1981 to 1983 and in 1988.
2. D/D : Design for irrigation facilities was made in 1978 based on 1/4,000 topo. map. A type of weir was brush weir.
3. Construction : The construction was carried out from 1979 to 1983.
4. O/M : O&M of the existing facilities are relatively good, but the brush weir was washed away by flood in 1989. The rehabilitation of existing facilities and construction of a core-wall type weir are required by the IA.

Agro-Economic Assessment :

1. Target cropping intensity is 136%, while present intensity is 148% although irrigation area in the plan and at the present is 400 ha and 123 ha, respectively.
2. Soils and land slope are suitable for paddy cultivation.
3. Average farm size is 4.2 ha.
4. Present paddy yield is 3.25 tons/ha for wet season and 4 tons/ha for dry season.
5. EIRR of this sub-project is unknown.

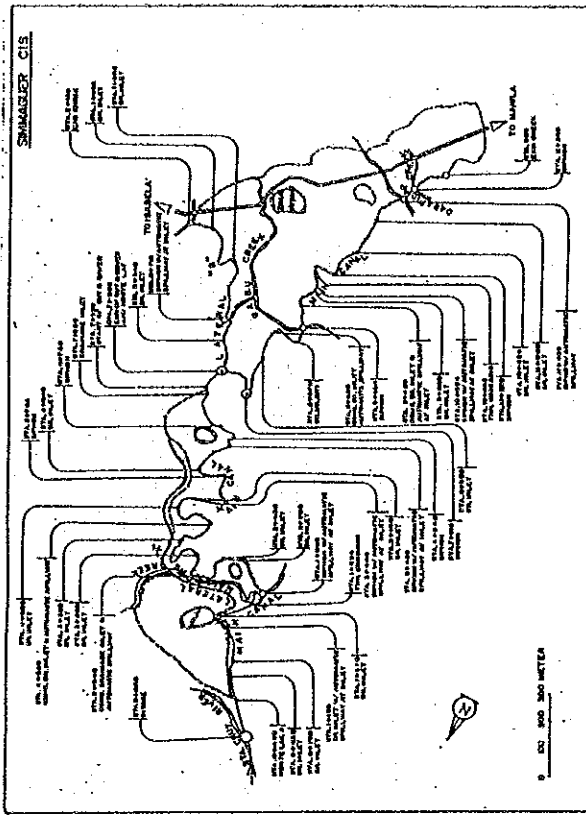
Institutional Assessment :

1. The IA is viable.
2. The IA is very eager to have their facilities rehabilitated.
3. Voluntary cooperation among IA members has been smoothly practiced.

Environmental Assessment :

No negative environmental impact was and is anticipated.

General Layout :



Sub-Project Background :

1. F/S : 1978
 2. D/D : 1978
 3. Construction : 1979-83
 4. Past Rehab./Imprv. :
- Costs Spent for Sub-Project (1,000 Pesos) :
1. Initial Const. : 2,446
 2. Past Rehab./Imprv. :
- Fund Required for Sub-Project (1,000 Pesos) :
1. New Const. : (As of 19)
 2. Rehab./Imprv. : (As of 19)
 3. Expansion : (As of 19)
- EIRR of Sub-Project as of 19 : %

Principal Feature of Sub-Project :

| | Plan | Actual |
|---------------------------------|----------------|--------|
| 1. Net Irrigable Area | | |
| - Wet season (ha) | 400 | 123 |
| - Dry season (ha) | 150 | 60 |
| 2. Diversion Weir | | |
| - Material | Concrete | |
| - Length (m) | Core-wall type | |
| - Height (m) | 60.00 | |
| 3. Intake | | |
| - Design Discharge (l/s) | 307.50 | 290.00 |
| 4. Main Canals (km) | 15.00 | 11.00 |
| 5. Laterals/Sub-Laterals (km) | 15.00 | 11.00 |
| 6. Field Ditches (km) | 3.00 | 1.50 |
| 7. Main (Project) Drains (km) | 2.50 | 2.00 |
| 8. Secondary (Farm) Drains (km) | 2.50 | 2.00 |
| 9. Drainage Ditches (km) | 2.00 | 1.20 |
| 10. Access Road (km) | 3.00 | 3.00 |

Remarks :

SSIDP SAMPLE SUB-PROJECT PROFILE

FILE NO. : 8

| | |
|---|---------------------------------|
| Code : E 03 18 086 A | Name : CAMIAS CIS |
| Region : III | Province : PAMPANGA |
| Municipality : MAGALANG | |
| Present Status : 1. No Planning, 2. F/S, 3. D/D, 4. Construction, 5. Rehab/Imprv., 6. O/M | |
| IA : CAMIAS IA | Nos. of Members : 58 Households |

Technical Assessment (F/S, D/D, Construction, O/M) :

1. F/S: Discharge measurement was done once a month for one year by using current meter. Soil survey was conducted at a density of one per 30 ha. Planning was made on the basis of 1-50,000 map. (Duration : 6 months, cost : P 2,500)
2. D/D : Twelve drawings were prepared based on a 1:4,000 map. (Duration : 2 months, cost P 7,470)
3. Construction : Construction was done under NIA force account base. IA participated in the form of labor equity and material equity. (Duration : 7 months, cost : P 431,000,000)
4. O/M : In spite of short O/M activities (about 12 months), IA has most of necessary plans specified in the manual and carries out O/M at a relatively satisfactory level. The facilities are functioning. (O/M fee : Rice 25 kg/ha/year)
5. Outstanding Issues :
 - After completion of facilities, some farmers changed land use from paddy to sugar cane, and rejected irrigation. Therefore, the sub-project area decreased from 58 ha to 48 ha.
 - Flood dike at downstream of intake was destroyed by the first flood after completion. Planning, design and quality control should be improved for rehabilitation of the flood dike.
 - Owing to shortage of water in dry season, irrigation is partly made in dry season.

Agro-Economic Assessment :

1. Target cropping intensity was 186% and actual intensity was 152%.
2. Soils and land slope are suitable for paddy cultivation.
3. Average farm size is 1 ha.
4. Yield per ha is improved to 3 to 4-4.3 tons.

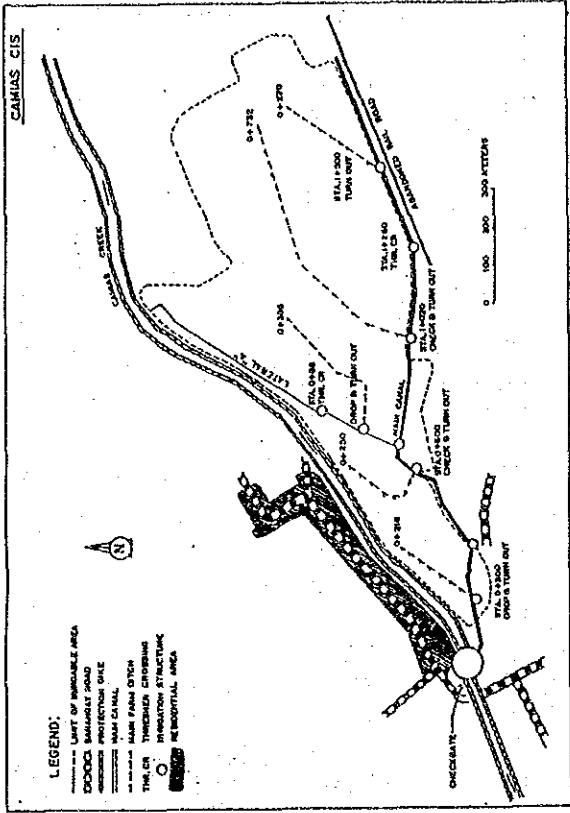
Institutional Assessment :

1. There is no problem encountered in the formation of IA. So far, 77% of the IA members have already undergone leadership and financial management training. The training on system management is scheduled in 1991.
2. There is a minor problem in irrigation fee collection. Some IA members reside outside the sub-project area and hence, are difficult to be reached by the fee collectors. In addition, some elected officials of IA are no longer active and hence, may need further leadership and other relevant trainings.

Environmental Assessment :

Farm income has increased owing to the provision of irrigation facilities. There is no negative environmental impact caused by the sub-project.

General Layout :



Sub-Project Background :

1. F/S : 1988
2. D/D : 1988-89
3. Construction : 1989
4. Past Rehab/Imprv. :

Costs Spent for Sub-Project

(1,000 Pesos) :

1. Initial Const. : 431
2. Past Rehab/Imprv. :

Fund Required for Sub-Project

(1,000 Pesos) :

1. New Const. : (As of 19)
2. Rehab/Imprv. : (As of 19)
3. Expansion : (As of 19)

IRR of Sub-Project

as of 1988 : 31 %

Remarks :

Principal Feature of Sub-Project :

| | Plan | Actual |
|---------------------------------|-----------|-----------|
| 1. Net Irrigable Area | | |
| - Wet season (ha) | 58 | 48 |
| - Dry season (ha) | 50 | 25 |
| 2. Diversion Weir | | |
| - Material | Concrete/ | Concrete/ |
| | Checkgate | Checkgate |
| - Length (m) | 17.70 | 17.70 |
| - Height (m) | 1.00 | 1.00 |
| 3. Intake | | |
| - Design Discharge (l/s) | 120 | 106 |
| 4. Main Canals (km) | 1.84 | 1.84 |
| 5. Laterals/Sub-Laterals (km) | 0.71 | 0.71 |
| 6. Field Ditches (km) | 4.10 | 4.10 |
| 7. Main (Project) Drains (km) | | |
| 8. Secondary (Farm) Drains (km) | | |
| 9. Drainage Ditches (km) | | |
| 10. Access Road (km) | | |
| 11. Flood Protection Dike (km) | 0.20 | 0.20 |

SSIDP SAMPLE SUB-PROJECT PROFILE

FILE NO. : 9

| | |
|--|---------------------------------|
| Code : E 03 18 090 A | Name : SAN AGUSTIN CIS |
| Region : III | Province : PAMPANGA |
| Municipality : STA. ANA | |
| Present Status : 1. No Planning, 2. F/S, 3. D/D, 4. Construction, 5. Rehab/Imprv., 6. OM | |
| IA : UPPER SAN AGUSTIN IA | Nos. of Members : 55 Households |

Technical Assessment (F/S, D/D, Construction, O/M) :

- F/S:** Discharge measurement was done once a month for one year by using current meter. Soil survey was conducted at a density of one per 30 ha. Planning was done on the basis of 1:4,000 map with a contour interval of 5 m. (Duration : 1 year, Cost (F/S + D/D) : P 908,200)
- D/D:** Topographic and canal route surveys were done, and five drawings were prepared based on a 1:4,000 map. (Duration : 2 months)
- Construction:** Construction was done under NIA force account base. IA participated in the construction in the form of labour equity and material equity. Supervision was done mainly for quantity control.
- OM:** IA carries out O/M activities at a relatively satisfactory level. But IA should have cropping calendar as a basic plan of O/M. The facilities are functioning.
- Outstanding issues:**
 - Irrigable area of 187 ha in wet season in F/S decreased to 78 ha after the construction of facilities mainly due to change of land use.
 - Irrigable area of 70 ha in dry season in F/S can not be attained due to water shortage.
 - Concrete lining is required for a part of main canal to prevent erosion.

Agro-Economic Assessment :

- Target cropping intensity was about 137% but actual cropping intensity is 100% due to water shortage in dry season.
- Soils and land slope are suitable for paddy cultivation.
- Average farm size is about 3.4 ha.

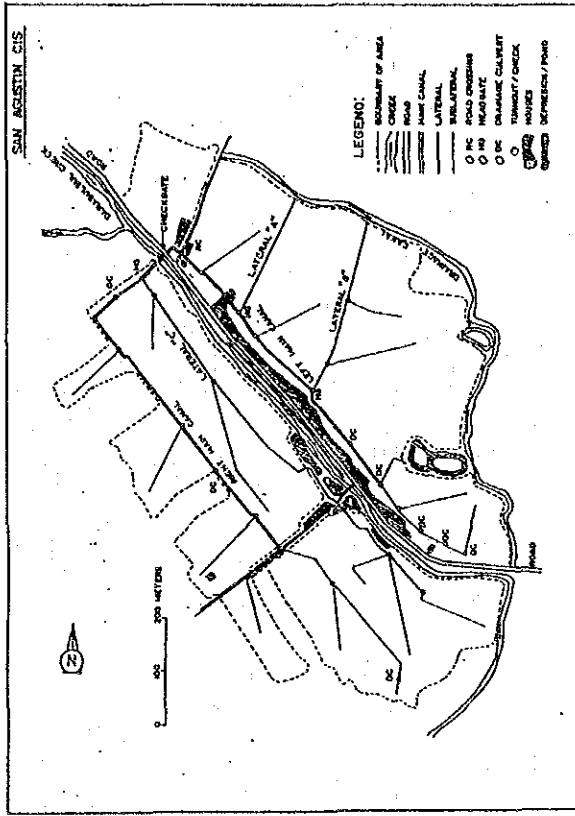
Institutional Assessment :

- A total of 25 IA members underwent training on basic leadership course and group dynamics while 15 members participated in cost reconciliation training/workshops.
- The IA is a relatively viable organization. No major organization problem has arisen so far.

Environmental Assessment :

There is no negative environmental impact caused by the sub-project.

General Layout :



Sub-Project Background :

- F/S : 1988
 - D/D : 1988
 - Construction : 1989
 - Past Rehab./Imprv. :
- Costs Spent for Sub-Project (1,000 Pesos) :

- Initial Const. : 645
 - Past Rehab./Imprv. :
- Fund Required for Sub-Project (1,000 Pesos) :

- New Const. : (As of 19)
 - Rehab./Imprv. : (As of 19)
 - Expansion : (As of 19)
- EIRR of Sub-Project as of 1988 : 22 %

Principal Feature of Sub-Project :

| | Plan | Actual |
|---------------------------------|-----------|-----------|
| 1. Net Irrigable Area | | |
| - Wet season (ha) | 187 | 78 |
| - Dry season (ha) | 70 | 0 |
| 2. Diversion Weir | | |
| - Material | Concrete/ | Checkgate |
| - Length (m) | 12.00 | |
| - Height (m) | 2.10 | |
| 3. Intake | | |
| - Design Discharge (Us) | 216 | 216 |
| 4. Main Canals (km) | 4.00 | 4.00 |
| 5. Laterals/Sub-Laterals (km) | 3.41 | 3.41 |
| 6. Field Ditches (km) | 3.72 | 3.72 |
| 7. Main (Project) Drains (km) | | |
| 8. Secondary (Farm) Drains (km) | | |
| 9. Drainage Ditches (km) | | |
| 10. Access Road (km) | 400 | 400 |
| 11. Flood Protection Dike (km) | | |

Remarks :

SSIDP SAMPLE SUB-PROJECT PROFILE

FILE NO. : 10

| | |
|---|---------------------------------|
| Code : E 03 18 084 A | Name : GATAWIN CIS |
| Region : III | Province : PAMPANGA |
| Municipality : ARAYAT | |
| Present Status : 1. No Planning, 2. F/S, 3. D/D, 4. Construction, 5. Rehab/Imprv., 6. O/M | |
| IA : GATAWIN IA | Nos. of Members : 40 Households |

Technical Assessment (F/S, D/D, Construction, O/M) :

- General: Irrigation facilities were constructed in 1975 by NIA. In 1989, diversion weir (checkgate) and flood protection dike only were rehabilitated. No detailed data on the first construction is available.
- F/S: Neither discharge measurement nor soil survey was done for the rehabilitation. River survey was done. Planning was conducted based on 1:4,000 map. (Duration : 1 year, Cost (F/S+D/D) : P 49,450)
- D/D: D/D was conducted in parallel with F/S. Four drawings were prepared. (Duration : 1 year)
- Construction: Rehabilitation was conducted under NIA force account, but supervision was only quantity control and no quality control was made. (Duration : 1 month, Cost : P 78,000)
- O/M: IA has 15 years experience of O/M and no serious problem happened. The facilities are functioning.
- Outstanding Issues:
 - Irrigable area of 83 ha in wet season in F/S decreased to 62 ha mainly due to change of land use.
 - Irrigable area of 40 ha in dry season in F/S is not attained due to water shortage.

Agro-Economic Assessment :

- Target cropping intensity was about 143% but actual intensity is 102% due to water shortage in dry season.
- Soils and land slope are suitable for paddy cultivation.
- Average farm size is about 2.1 ha. The largest is 5.5 ha and the smallest is 1 ha.

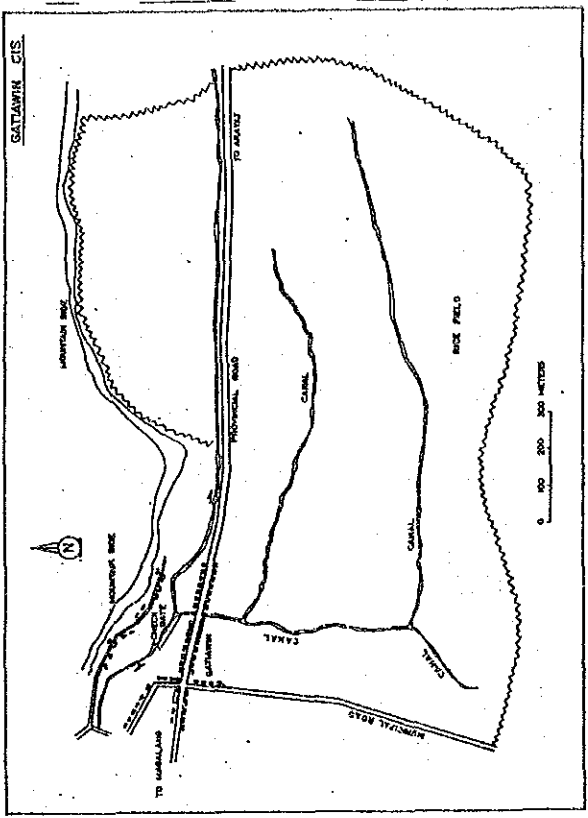
Institutional Assessment :

- Present IA's activities are confined to basic ones such as water distribution and system maintenance.
- The IA is a viable organization. There is no problem on leadership among members. IA members are willing to provide labor equity in case of major repair of irrigation facilities by NIA.

Environmental Assessment :

Farm income increased due to employment opportunity. There is no negative environmental impact.

General Layout :



| Sub-Project Background : | | Plan | Actual |
|--|---------------|------|--------|
| 1. F/S | : 1988 | | |
| 2. D/D | : 1988 | | |
| 3. Construction | : 1989 | | |
| 4. Past Rehab./Imprv. | : | | |
| Costs Spent for Sub-Project (1,000 Pesos) : | | | |
| 1. Initial Const. | : | | |
| 2. Past Rehab./Imprv. | : 78 | | |
| Fund Required for Sub-Project (1,000 Pesos) : | | | |
| 1. New Const. | : (As of 19) | | |
| 2. Rehab./Imprv. | : (As of 19) | | |
| 3. Expansion | : (As of 19) | | |
| EIRR of Sub-Project as of 1988 : 34 % | | | |
| Remarks : EIRR should be recalculated since the cost increased from P 49,300 in F/S to P 78,000. | | | |

SSIDP SAMPLE SUB-PROJECT PROFILE

FILE NO. : 11

Code : E 04 31 017 A Name : TIGMAN CIS
 Region : IV Province : PALAWAN Municipality : ABORLAN
 Present Status : 1. No Planning, 2. F/S, 3. D/D, 4. Construction, 5. Rehab/Imprv., 6. O/M
 IA : TIGMAN PLARIDEL IA Nos. of Members : 38 Households

Technical Assessment (F/S, D/D, Construction, O/M) :

- General : Diversion weir and major irrigation facilities were constructed under NIA-FSDC tie-up in 1978. Main canal and related structures were damaged by flood in 1988. The rehabilitation is planned. Data on F/S, design and construction in 1978 are not available at present.
- F/S : Planning for the rehabilitation was made in 1989 based on 1/12,000 topo. map. Discharge measurement was done once a month for 1 year by using current meter. Soil survey was also carried out for assessment of land capability. (Duration : 2 months)
- D/D : Design for the rehabilitation was done based on 1/4,000 topo. map in 1989. Topographic, canal route and parcellary surveys were conducted. (Duration : 4 months)
- Outstanding Issues :
 - Existing irrigation facilities are not fully functioning and the early commencement of rehabilitation is expected by farmers.
 - Relocation of proposed syphon is considered.
 - Development cost of P 50,000/ha at a 1990 price level is very high.

Agro-Economic Assessment :

- Target cropping intensity is about 167%.
- Soils and land slope are suitable for paddy cultivation.
- Average farm size is 2 ha.
- Present paddy yield is 3 tons/ha and target paddy yield is 3.75 tons/ha and 4 tons/ha for wet and dry seasons, respectively.

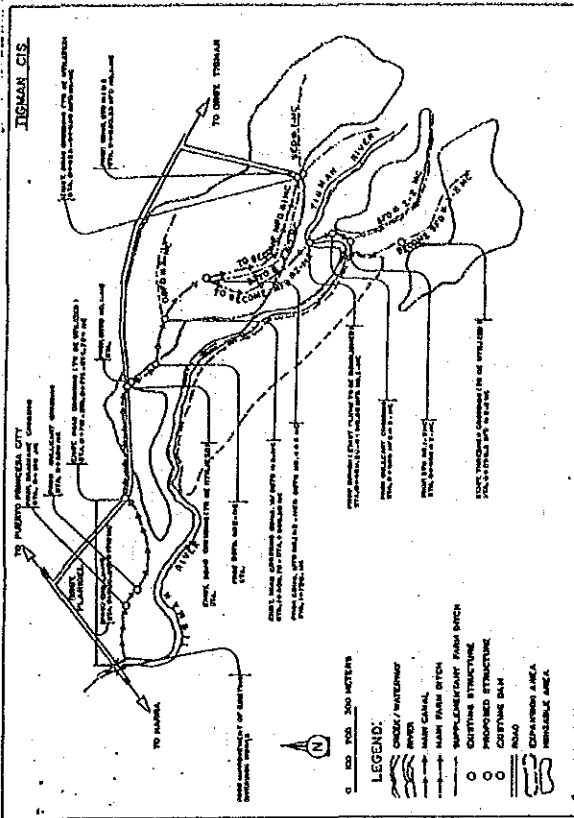
Institutional Assessment :

- Farmers' participatory approach in irrigation development is relatively new to the IA which was registered as early as 1978. However, the IA has understood it and agreed to provide equity in terms labor and materials.
- The IA's ability of O&M is rated satisfactory. Leadership of IA officials is good and the IA seems viable.

Environmental Assessment :

No negative environmental impact is anticipated.

General Layout :



Sub-Project Background :

- F/S : 1977
- D/D : 1978
- Construction
- Past Rehab./Imprv.

Costs Spent for Sub-Project (1,000 Pesos) :

- Initial Const.
 - Past Rehab./Imprv.
- Fund Required for Sub-Project (1,000 Pesos) :

- New Const. : (As of 19)
- Rehab./Imprv. : 3,500 (As of 1989)
- Expansion : (As of 19)

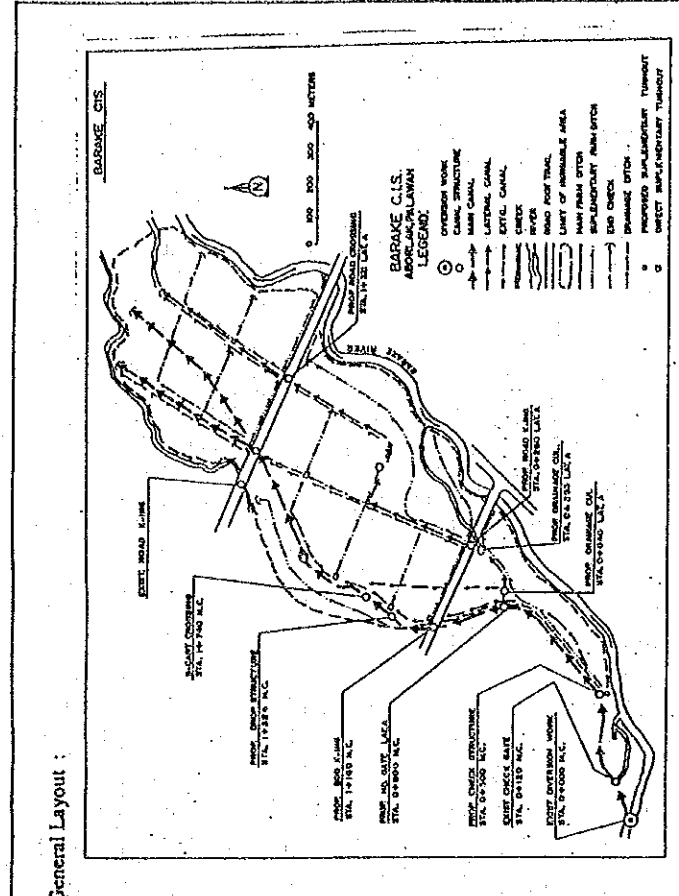
EIRR of Sub-Project as of 1989 : 13 %

Remarks :

Principal Feature of Sub-Project :

| | Plan | Actual |
|---------------------------------|-----------|-----------|
| 1. Net Irrigable Area | | |
| - Wet season (ha) | 75 | |
| - Dry season (ha) | 50 | |
| 2. Diversion Weir | | |
| - Material | Concrete/ | Concrete/ |
| - Length (m) | 13.20 | 13.30 |
| - Height (m) | 1.30 | 1.30 |
| 3. Intake | | |
| - Design Discharge (l/s) | 159 | |
| - Main Canals (km) | 1.72 | |
| 4. Laterals/Sub-Laterals (km) | | |
| 5. Field Ditches (km) | | |
| 6. Main (Project) Drains (km) | | |
| 7. Secondary (Farm) Drains (km) | | |
| 8. Drainage Ditches (km) | | |
| 9. Access Road (km) | | |
| 10. Access Road (km) | | |

| SSIDP SAMPLE SUB-PROJECT PROFILE | | FILE NO. : 12 |
|---|----------------------|------------------------|
| Code : E 04 31 015 A | Name : BARAKE CIS | |
| Region : IV | Province : PALAWAN | Municipality : ABORLAN |
| Present Status : 1. No Planning, 2. F/S, 3. D/D, 4. Construction, 5. Rehab/Imprv., 6. O&M | | |
| IA : BARAKE IA | Nos. of Members : 19 | Households |
| <p>Technical Assessment (F/S, D/D, Construction, O&M) :</p> <p>1. General : Irrigation facilities under NIA-FSDC tie-up in 1978. The rehabilitation started in 1987 and completed in 1990. The turn-over was made in July 1990. Data on F/S, design and construction in 1978 are not available at present.</p> <p>2. F/S : Planning for the rehabilitation was done in 1987. Preliminary investigation was conducted but detailed F/S was not conducted.</p> <p>3. D/D : Design for the rehabilitation was carried out in 1987. Topographic, canal route and river surveys were conducted.</p> <p>4. Construction : The rehabilitation was carried out under NIA force account base. The IA participated in the rehabilitation under Paquioa contract and rendered the required equity in terms of labor and materials. The rehabilitation took 3 years mainly because of untimely release of funds from central office and nation-wide shortage of cement.</p> <p>5. O&M : The IA will undergo NIA's training on system management in order to facilitate O&M activities of the IA. All the facilities are functioning well.</p> | | |
| <p>Agro-Economic Assessment :</p> <p>1. Target cropping intensity is 176%.</p> <p>2. Soils and land slope are suitable for paddy cultivation.</p> <p>3. Average farm size is 4.8 ha.</p> <p>4. Target paddy yield is 3.5 tons/ha with an introduction of improved farming practice, while the past yield was 2.5 tons/ha before the completion of rehabilitation.</p> <p>5. EIRR of this sub-project is unknown.</p> | | |
| <p>Institutional Assessment :</p> <p>1. The IA was organized and registered in 1978. Since then, the IA has satisfactorily carried out O&M of irrigation facilities and fully participated in the rehabilitation work. The IA rendered the required equity and acknowledged all the chargeable cost after the rehabilitation.</p> <p>2. The IA is confident of O&M activities and does not anticipate any problem.</p> | | |
| <p>Environmental Assessment :</p> <p>(Illegal logging is observed in the watershed of the water source for this sub-project.)</p> | | |



| Sub-Project Background : | Plan | Actual |
|---|------|--------|
| 1. F/S : 1978 | 135 | 135 |
| 2. D/D : 1978 | 102 | 102 |
| 3. Construction : 1978 | | |
| 4. Past Rehab./Imprv. : 1987 | | |
| Costs Spent for Sub-Project (1,000 Pesos) : | | |
| 1. Initial Const. : 1,100 | | |
| 2. Past Rehab./Imprv. : 1,100 | | |
| Fund Required for Sub-Project (1,000 Pesos) : | | |
| 1. New Const. : (As of 19) | | |
| 2. Rehab./Imprv. : (As of 19) | | |
| 3. Expansion : (As of 19) | | |
| EIRR of Sub-Project as of 19 : % | | |
| Remarks : | | |

| Principal Feature of Sub-Project : | Plan | Actual |
|------------------------------------|----------------|--------|
| 1. Net Irrigable Area | | |
| - Wet season (ha) | 135 | 135 |
| - Dry season (ha) | 102 | 102 |
| 2. Diversion Weir | | |
| - Material | Concrete/ | |
| - Length (m) | Core-wall type | |
| - Height (m) | 16.00 | 16.00 |
| 3. Intake | 0.50 | 0.50 |
| - Design Discharge (l/s) | 360 | 264 |
| 4. Main Canals (km) | 2.70 | 2.70 |
| 5. Laterals/Sub-Laterals (km) | 1.64 | 1.64 |
| 6. Field Ditches (km) | 1.50 | 1.50 |
| 7. Main (Project) Drains (km) | | |
| 8. Secondary (Farm) Drains (km) | | |
| 9. Drainage Ditches (km) | | |
| 10. Access Road (km) | | |

SSIDP SAMPLE SUB-PROJECT PROFILE

FILE NO. : 13

| | |
|---|---------------------------------|
| Code : N 04 31 010 U | Name : TAGBUAYA CIP |
| Region : IV | Province : PALAWAN |
| Municipality : QUEZON | |
| Present Status : 1. No Planning, 2. F/S, 3. D/D, 4. Construction, 5. Rehab/Imprv., 6. O/M | |
| IA : MALIGAYA IA | Nos. of Members : 25 Households |

Technical Assessment (F/S, D/D, Construction, O/M) :

- General : F/S and design for this sub-project were already completed in 1987 but the area was submerged by an extra ordinary flood in 1988. Re-design was required, considering the lessons of the flood. Under the re-design, re-alignment of canals and structures was done and re-survey was conducted. Design is being carried out.
- F/S : Planning for his sub-project completed in 1987 was reviewed in 1989. Discharge measurement was done once a month for 1 year by using current meter. Soil survey and agro-economic survey were also carried out.
- D/D : Re-design is being conducted. Weir site mapping, canal route survey, parcellary survey and soil profile survey were already finished.
- Outstanding Issues :
 - Development cost is estimated at P 37,600/ha at a 1990 price level.

Agro-Economic Assessment :

- At present there is no irrigated field. Target cropping intensity is 200%.
- Soils and land slope are suitable for paddy cultivation.
- Average farm size is 3.5 ha.
- Target paddy yield is 4 tons/ha and 4.25 tons/ha for wet and dry seasons, respectively, while present yield is 2.25 tons/ha.

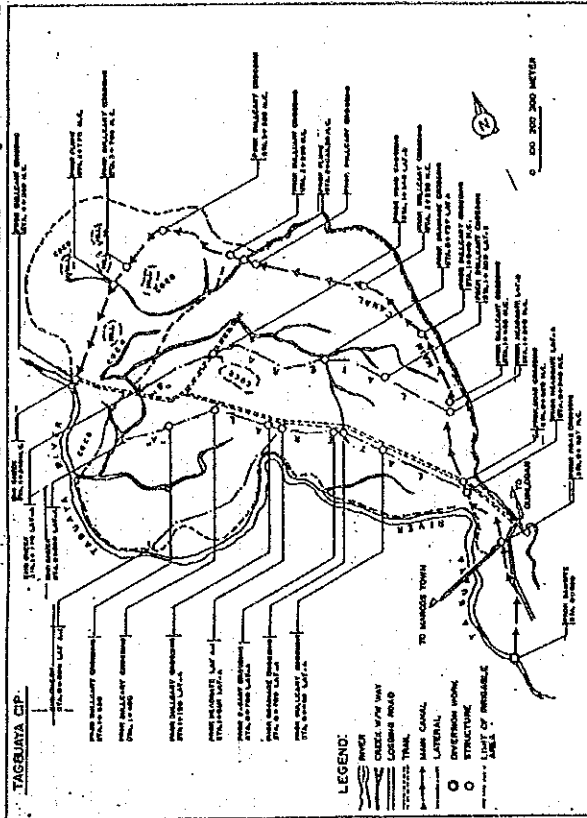
Institutional Assessment :

- The IA was organized in 1987 but no official registration has been made.
- All the IA members are interested in this sub-project and right-of-way already granted by land owners. They are involved in the preparation of pre-engineering activities and expresses their desire for NIA's training and regarding O&M of irrigation facilities.
- The only institutional problem that may affect the implementation of this sub-project is the recurrence of insurgency problem.

Environmental Assessment :

Illegal logging in the water shed area of the Tagbuaya river may have an adverse effect to the sub-project area.

General Layout :



| Sub-Project Background : | Plan | Actual |
|---|-----------------------------------|---------------------|
| 1. F/S : 1987/1989 | 1. Net Irrigable Area | |
| 2. D/D | - Wet season (ha) : 250 | |
| 3. Construction : On-going | - Dry season (ha) : 250 | |
| 4. Past Rehab/Imprv. | 2. Diversion Weir | |
| Costs Spent for Sub-Project (1,000 Pesos) : | - Material : Concrete/Ogee type | |
| 1. Initial Const. : | - Length (m) : 35.00 | |
| 2. Past Rehab/Imprv. : | - Height (m) : 2.00 | |
| Fund Required for Sub-Project (1,000 Pesos) : | 3. Intake | |
| 1. New Const. : 8,750 (As of 1989) | - Design Discharge (l/s) : 1,730 | |
| 2. Rehab/Imprv. : (As of 19) | 4. Main Canals (km) : | |
| 3. Expansion : (As of 19) | 5. Laterals/Sub-Laterals (km) : | |
| EIRR of Sub-Project : 24 % | 6. Field Ditches (km) : | (To be determined) |
| as of 1989 | 7. Main (Project) Drains (km) : | by completed design |
| Remarks : | 8. Secondary (Farm) Drains (km) : | |
| | 9. Drainage Ditches (km) : | |
| | 10. Access Road (km) : | |
| | 11. Flood Protection Dike (km) : | |

SSDDP SAMPLE SUB-PROJECT PROFILE

FILE NO. : 14

Code : E 05 33 026 A Name : PINIT CIS
 Region : V Province : CAMARINES SUR Municipality : OCAMPO
 Present Status : 1. No Planning, 2. F/S, 3. D/D, 4. Construction, 5. Rehab/Imprv., 6. O&M
 IA : PINIT IA Nos. of Members : 112 Households

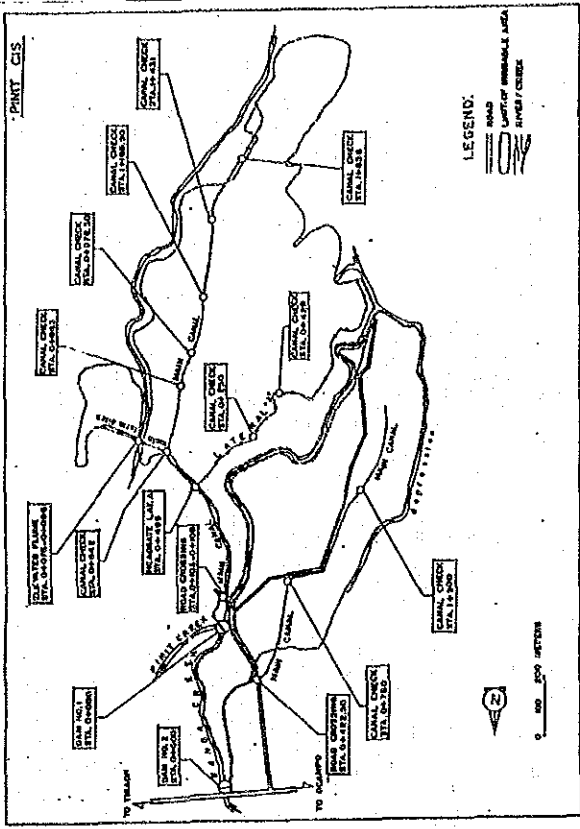
Technical Assessment (F/S, D/D, Construction, O&M) :
 1. F/S : Planning for this sub-project was made in 1985. Discharge measurement, soil survey and agro-economic survey were conducted.
 2. D/D : Design was finished in 1986 based on 1/4,000 topo. map but design product are not available at the PIO.
 3. Construction : The construction was started in 1987 and 1988 under NIA force account base.
 4. O&M : The constructed facilities are functioning but minor rehabilitation of canals and related structures is required. O&M are being conducted by the IA.

Agro-Economic Assessment :
 1. Both target and present cropping intensities are 187%.
 2. Soils and land slope are suitable for paddy cultivation.
 3. Average farm size is 1 ha.
 4. Present paddy yield is 4.1 tons/ha for wet season and 4.9 tons/ha for dry season.
 5. Supplemental farm income in the area comes from coconut farming, fishing and livestock raising namely swine, poultry and duck.

Institutional Assessment :
 1. The IA is very viable and its leadership is very strong.
 2. The IA has already tapped various funding sources for technical and financial assistance. This was attributed to the reinforcement of the IA.
 3. The IA is now engaged in paddy trading using its own warehouse.
 4. The IA needs additional training and seminars.

Environmental Assessment :
 Increase in employment opportunities and farm income is expected.

General Layout :



| Sub-Project Background : | Plan | Actual |
|---|---------|----------------|
| 1. F/S : 1985 | 107 | 107 |
| 2. D/D : 1986 | 93 | 93 |
| 3. Construction : 1987-88 | | |
| 4. Past Rehab./Imprv. : 1989 | | |
| Costs Spent for Sub-Project (1,000 Pesos) : | | |
| 1. Initial Const. : 1,564 | | |
| 2. Past Rehab./Imprv. : - | | |
| Fund Required for Sub-Project (1,000 Pesos) : | | |
| 1. New Const. : (As of 19) | | |
| 2. Rehab./Imprv. : (As of 19) | | |
| 3. Expansion : (As of 19) | | |
| EIRR of Sub-Project as of 1985 : 17% | | |
| Remarks : | | |
| Principal Feature of Sub-Project : | Plan | Actual |
| 1. Net Irrigable Area | | |
| - Wet season (ha) | 107 | 107 |
| - Dry season (ha) | 93 | 93 |
| 2. Diversion Weir | | |
| - Material | | Rubble Masonry |
| - Length (m) | 18.00 | 8.63 |
| - Height (m) | 2.00 | 1.00 |
| 3. Intake | | |
| - Design Discharge (l/s) | 165 | |
| 4. Main Canals (km) | No data | |
| 5. Laterals/Sub-Laterals (km) | | |
| 6. Field Ditches (km) | | |
| 7. Main (Project) Drains (km) | | |
| 8. Secondary (Farm) Drains (km) | | |
| 9. Drainage Ditches (km) | | |
| 10. Access Road (km) | 1.00 | |
| 11. Service/Barangay Road (km) | 3.00 | |

SSDP SAMPLE SUB-PROJECT PROFILE

FILE NO. : 15

Code : E 05 33 117 A Name : KAAUNUNGAN CIS
 Region : V Province : CAMARINES SUR Municipality : PILI
 Present Status : 1. No Planning, 2. F/S, 3. D/D, 4. Construction, 5. Rehab/Imprv., 6. O/M
 IA : KAAUNUNGAN IA Nos. of Members : 49 Households

Technical Assessment (F/S, D/D, Construction, O/M) :

- General : Irrigation facilities were constructed by farmers in 1970s. No data on design and construction are available at present.
- F/S : Planning for the rehabilitation was made in 1989 aiming to development of 150 ha. Discharge measurement was done and the discharge in dry season was determined at 295 lit/sec. Soil survey and agro-economic survey were also conducted.
- D/D : Design for the rehabilitation has not started yet.
- Outstanding Issues :
 - The existing facilities are operational but are not functioning well due to deterioration. Therefore, the entire rehabilitation is needed by the IA.
 - Raising of the existing weir by 1 m should be considered in the design to fully irrigate an entire area.
 - Development cost per ha at a 1990 price level is P 28,400 which is relatively high.

Agro-Economic Assessment :

- Both target and present cropping intensities are 200%.
- Soils and land slope are suitable for paddy cultivation.
- Average farm size is 3 ha.
- Target paddy yield is 3.5 tons/ha while present yield is 2.75 tons/ha.
- EIRR of this sub-project of 66% has to be examined.

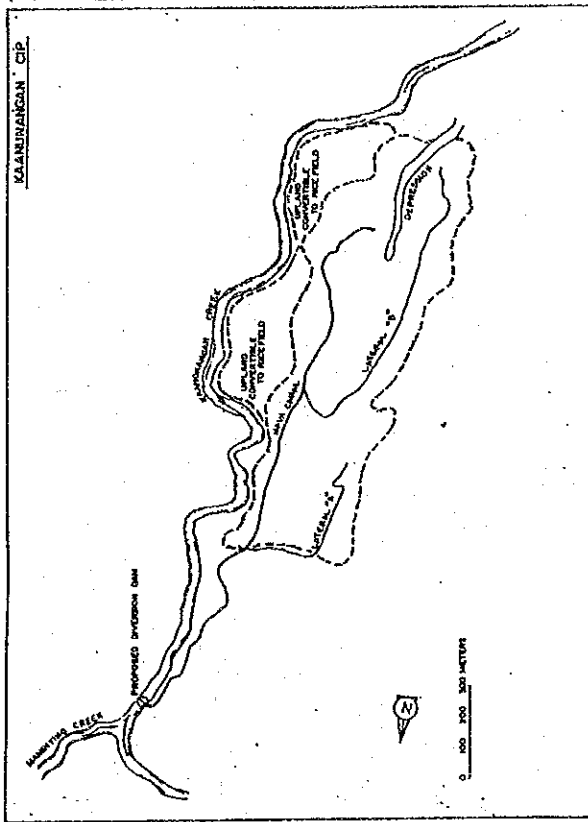
Institutional Assessment :

- Pre-construction meeting is carried out by PIO to activate the IA for the rehabilitation.
- The IA agreed to comply with NIA's requirements for the implementation.

Environmental Assessment :

Increase in employment opportunities and farm income is expected.

General Layout :



| Sub-Project Background : | | Plan | Actual |
|---|---|------|--------|
| 1. F/S | : | 150 | 100 |
| 2. D/D | : | 150 | 100 |
| 3. Construction | : | | |
| 4. Past Rehab./Imprv. | : | | |
| Costs Spent for Sub-Project (1,000 Pesos) | : | | |
| 1. Initial Const. | : | | |
| 2. Past Rehab./Imprv. | : | | |
| Fund Required for Sub-Project (1,000 Pesos) | : | | |
| 1. New Const. | : | | |
| 2. Rehab./Imprv. | : | | |
| 3. Expansion | : | | |
| EIRR of Sub-Project as of 1989 | : | 66% | |
| Remarks : | | | |

| Principal Feature of Sub-Project : | | Plan | Actual |
|------------------------------------|---|----------------|--------|
| 1. Net Irrigable Area | : | | |
| - Wet season (ha) | : | 150 | 100 |
| - Dry season (ha) | : | 150 | 100 |
| 2. Diversion Weir | : | | |
| - Material | : | Rubble Masonry | |
| - Length (m) | : | 30.00 | |
| - Height (m) | : | 1.00 | |
| 3. Intake | : | | |
| - Design Discharge (l/s) | : | Unknown | |
| 4. Main Canals (km) | : | 5.00 | |
| 5. Laterals/Sub-Laterals (km) | : | 3.40 | |
| 6. Field Ditches (km) | : | 4.00 | |
| 7. Main (Project) Drains (km) | : | | |
| 8. Secondary (Farm) Drains (km) | : | | |
| 9. Drainage Ditches (km) | : | | |
| 10. Access Road (km) | : | | |

SSIDP SAMPLE SUB-PROJECT PROFILE

FILE NO. : 16

Code : E 05 33 034 A Name : GATBO CIS
 Region : V Province : CAMARINES SUR Municipality : OCAMPO
 Present Status : 1. No Planning. 2. F/S. 3. D/D. 4. Construction. 5. Rehab/imprv. 6. O/M
 IA : MAY ACASIA IA Nos. of Members : 93 Households

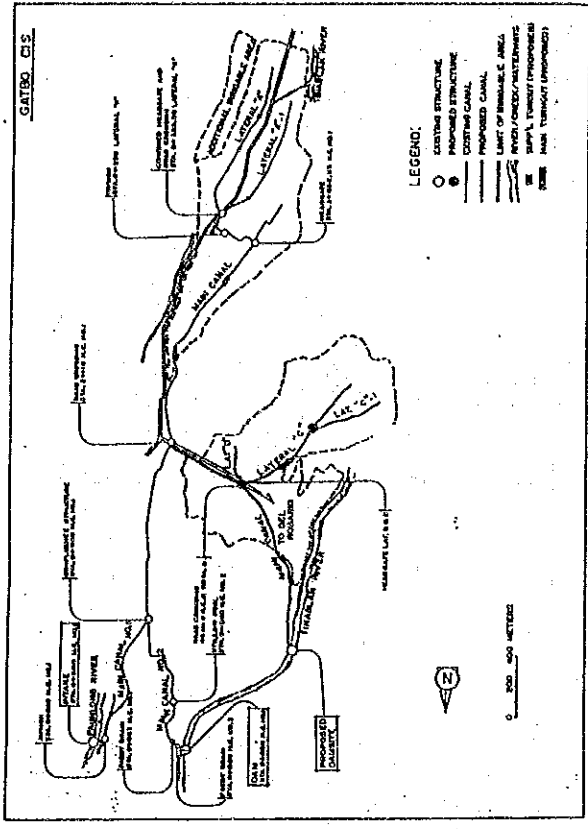
Technical Assessment (F/S, D/D, Construction, O/M) :
 1. General : Two diversion weirs and irrigation canals were constructed in 1982. In 1989, rehabilitation of canals was done. However, the IA still needs immediate rehabilitation of canals and canal structures and construction of additional diversion weir because of deterioration of facilities and serious seepage from canals.
 2. F/S : Planning was conducted in 1982. Discharge measurement was done by using current meter, and discharge in dry season was determined at 57 lit/sec/ha. Soil survey and agro-economic survey were also conducted.
 3. D/D : Design was made in 1982 but design drawings are not available at present.
 4. Construction : The construction was finished in 1982 under NIA force account base.
 5. O/M : The facilities are operational but are not functioning well. O&M are carried out by the IA.
 6. Outstanding Issues :
 - Although there are two diversion weirs, the third weir is required at the downstream in order to supplement water in dry season.
 - Seepage from the lined and riprap canals is serious and the rehabilitation is needed by the IA although the rehabilitation was done in 1989.

Agro-Economic Assessment :
 1. Both target and present cropping intensities are 167%.
 2. Soils and land slope are suitable for paddy cultivation.
 3. Average farm size is 1.6 ha.
 4. Present paddy yield is 4.5 tons/ha.
 5. EIRR of this sub-project is unknown.

Institutional Assessment :
 1. Though still a young association, the IA is very viable.
 2. The IA has complied with the 30% equity requirements for the loan. Therefore, it received the benefit of exemption from payment of loan amortization under NIA Memorandum Circular No. 4, Series of 1986.

Environmental Assessment :
 Golden snail infestation is observed.

General Layout :



| Sub-Project Background : | Principal Feature of Sub-Project : | Plan | Actual |
|---|------------------------------------|-------|--------------------------------|
| 1. F/S : 1982 | 1. Net Irrigable Area | 150 | 150 |
| 2. D/D : 1982 | - Wet season (ha) | 150 | 150 |
| 3. Construction : 1982 | - Dry season (ha) | 100 | 100 |
| 4. Past Rehab./Imprv. : 1989 | 2. Diversion Weir | | |
| Costs Spent for Sub-Project (1,000 Pesos) : | - Material | | Rubble Masonry (No. 1) (No. 2) |
| 1. Initial Const. : 918 | - Length (m) | 15.00 | 10.00 |
| 2. Past Rehab./Imprv. : -- | - Height (m) | 0.50 | 1.50 |
| Fund Required for Sub-Project (1,000 Pesos) : | 3. Intake | | |
| | - Design Discharge (l/s) | 150 | 150 |
| | 4. Main Canals (km) | 6.40 | 6.40 |
| | 5. Laterals/Sub-Laterals (km) | 0.63 | 0.63 |
| | 6. Field Ditches (km) | | |
| | 7. Main (Project) Drains (km) | | |
| | 8. Secondary (Farm) Drains (km) | | |
| | 9. Drainage Ditches (km) | | |
| EIRR of Sub-Project as of 19 : % | 10. Access Road (km) | | |
| Remarks : | | | |

| | | |
|---|--------------------------|--|
| SSIDP SAMPLE SUB-PROJECT PROFILE | | FILE NO. : 17 |
| Code : E 05 33 085 P | Name : CURRY CAROMAS CIS | |
| Region : Y | Province : CAMARINES SUR | Municipality : PILI |
| Present Status : 1. No Planning, 2. F/S, 3. D/D, 4. Construction, 5. Rehab/Imprv., 6. O/M | | |
| IA : CAROMAS IA | Mos. of Members : -- | Households |
| <p>Technical Assessment (F/S, D/D, Construction, O/M) :</p> <p>1. General : This sub-project is a dole-out one constructed in 1970s. No data on F/S design and construction are available at present. The deteriorated facilities are not functioning.</p> <p>2. F/S : Discharge measurement was conducted by using current meter in 1990, but detailed F/S has not yet started.</p> <p>3. Outstanding Issues :</p> <ul style="list-style-type: none"> - A diversion weir site will have to be shifted to the upstream of the existing damaged dam by about 20 - 30 m to raise an intake water level. | | |
| <p>Agro-Economic Assessment :</p> <p>1. Target cropping intensity is 170%.</p> <p>2. Soils and land slope are suitable for paddy cultivation.</p> <p>3. Average farm size seems 1.7 ha.</p> <p>4. In the past, average paddy yield was 4 tons/ha for wet season and 3 tons/ha for dry season. Average yield is expected to increase to 4.5 tons/ha after the rehabilitation of irrigation facilities.</p> | | |
| <p>Institutional Assessment :</p> <p>1. The IA was already established but it is not so strong organization since the irrigation facilities are not functioning. Definite number of the IA is unknown.</p> <p>2. The IA has not undergone the basic training on system and financial management.</p> <p>3. IDO (Irrigation Development Officer) was assigned by PIO to activate the IA.</p> | | |
| <p>Environmental Assessment :</p> <p>Increase in farm income is expected. No negative impact is anticipated.</p> | | |
| <p>General Layout : No general layout has been prepared.</p> | | |
| <p>Sub-Project Background :</p> <p>1. F/S : :</p> <p>2. D/D : :</p> <p>3. Construction : 1970s</p> <p>4. Past Rehab./Imprv. :</p> <p>Costs Spent for Sub-Project (1,000 Pesos) :</p> <p>1. Initial Const. : :</p> <p>2. Past Rehab./Imprv. : :</p> <p>Fund Required for Sub-Project (1,000 Pesos) :</p> <p>1. New Const. : (As of 19)</p> <p>2. Rehab./Imprv. : 2,000 (As of 1990)</p> <p>3. Expansion : (As of 19)</p> <p>EJRR of Sub-Project as of 19 : %</p> | | <p>Principal Features of Sub-Project :</p> <p>1. Net Irrigable Area</p> <ul style="list-style-type: none"> - Wet season (ha) : 500 - Dry season (ha) : 350 <p>2. Diversion Weir</p> <ul style="list-style-type: none"> - Material : Rubble Masonry - Length (m) : 10.00 - Height (m) : 0.50 <p>3. Intake</p> <ul style="list-style-type: none"> - Design Discharge (l/s) : Unknown - Main Canals (km) : 7.00 <p>4. Lateral/Sub-Laterals (km) : 3.00</p> <p>5. Field Ditches (km) : 5.00</p> <p>6. Main (Project) Drains (km) : :</p> <p>7. Secondary (Farm) Drains (km) : :</p> <p>8. Drainage Ditches (km) : :</p> <p>9. Access Road (km) : :</p> |
| <p>Remarks :</p> | | |

SSDP SAMPLE SUB-PROJECT PROFILE

FILE NO. : 18

Code : E 06 41 006 A Name : BAYUNAN CIS

Region : VI Province : ILOILO Municipality : SAN JOAQUIN

Present Status : 1. No Planning. 2. F/S, ③/D/D, 4. Construction. 5. Rehab/Imprv., ⑥/OM

IA : BAYUNAN VALLEY CIS Nos. of Members : 76 Households

Technical Assessment (F/S, D/D, Construction, OM) :

1. General : This sub-project was constructed in 1976. Data on F/S, design and construction are not available at present. There are three intakes in the system i.e., No. 1 intake without weir and No. 2 and No. 3 intakes with 1.2 m - high weirs. However, all the intakes are not functioning well because of institutional problem, deterioration of weirs and heavy sedimentation. Therefore, an improvement of these facilities is required.

2. F/S : Planning was made based on 1/4,000 map. Discharge measurement was done monthly for 2 years and the discharge in dry season was about 93 lit/sec. Soil survey was also conducted.

3. D/D : Canal route and topo. survey for intake site were finished in February 1990. Design is being conducted and is scheduled to be completed in October 1990.

Agro-Economic Assessment :

1. Target cropping intensity is 150%.
2. Soils and land slope are suitable for paddy cultivation.
3. Average farm size seems 1.5 to 2 ha.
4. Target yield is 3.9 tons/ha for wet season paddy and 3.7 tons/ha for dry season paddy. Present rainfed paddy yield is 2.5 tons/ha.

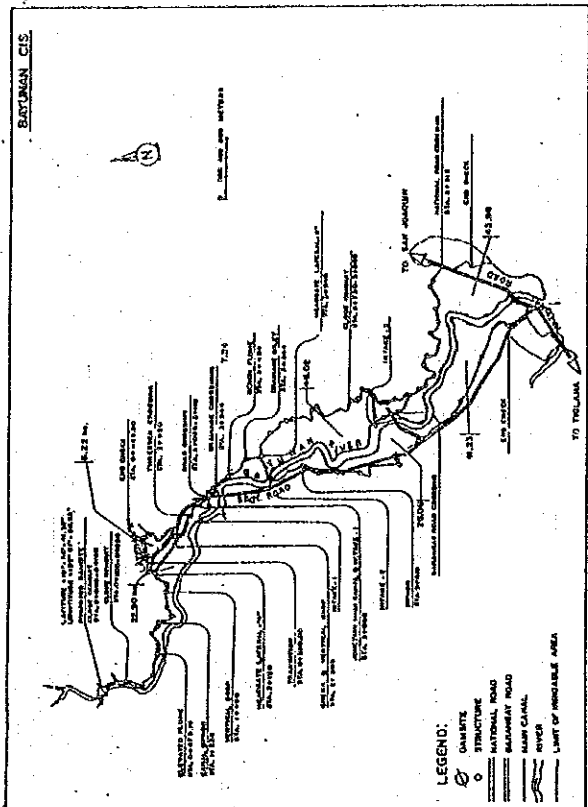
Institutional Assessment :

1. Irrigation fee collection efficiency for present irrigated land in dry season is 100%.
2. The IA has become inactive as three intakes have deteriorated.
3. Activation of the IA is an important problem to be solved.

Environmental Assessment :

No negative environmental impact induced by the sub-project is anticipated.

General Layout :



| Sub-Project Background : | | Principal Feature of Sub-Project : | |
|---|----------------------|------------------------------------|--------------------|
| 1. F/S | : 1975 | 1. Net Irrigable Area | Plan Actual |
| 2. D/D | : 1975 | - Wet season (ha) | : 310 28 |
| 3. Construction | : 1976 | - Dry season (ha) | : 155 19 |
| 4. Past Rehab./Imprv. | : | 2. Diversion Weir | : Concrete/ |
| Costs Spent for Sub-Project (1,000 Pesos) : | | - Material | Ogee type |
| 1. Initial Const. | : | - Length (m) | : 15.50 15.50 |
| 2. Past Rehab./Imprv. | : | - Height (m) | : 1.20 1.20 |
| Fund Required for Sub-Project (1,000 Pesos) : | | 3. Intake | |
| 1. New Const. | : (As of 19) | - Design Discharge (l/s) | : Unknown |
| 2. Rehab./Imprv. | : 3,740 (As of 1989) | - Main Canals (km) | : 5.00 |
| 3. Expansion | : (As of 19) | 4. Laterals/Sub-Laterals (km) | : --- |
| EIRR of Sub-Project as of 1989 | : 21% | 5. Field Ditches (km) | : --- |
| Remarks : | | 6. Main (Project) Drains (km) | : --- |
| | | 7. Secondary (Farm) Drains (km) | : --- |
| | | 8. Drainage Ditches (km) | : --- |
| | | 9. Access Road (km) | : 0.30 |
| | | 10. Access Road (km) | : 0.30 |

SSIDP SAMPLE SUB-PROJECT PROFILE

FILE NO. : 19

| | | | |
|---|-------------------|---------------------|------------|
| Code : N 06 41 005 U | | Name : BAJRAN CIP | |
| Region : VI | Province : ILOILO | Municipality : AJUY | |
| Present Status : 1. No Planning, 2. F/S, 3. D/D, 4. Construction, 5. Rehab/Imprv., 6. O/M | | | |
| IA : | | Nos. of Members : | Households |

Technical Assessment (F/S, D/D, Construction, O/M) :

1. F/S : Planning was made based on 1/50,000 map in 1989. Discharge measurement was monthly conducted for 2 years by using current meter. Soil survey was also conducted.
2. D/D : Topographic survey was carried out in 1990 and 1/4,000 topo. map with 25 cm contour interval was prepared. Design is scheduled to be conducted in 1991.
3. Outstanding issues :
 - Development cost is P 39,380/ha at a 1990 price level.

Agro-Economic Assessment :

1. Target cropping intensity is 200%.
2. Soils and land slope are suitable for paddy cultivation.
3. Average farm size is 2 ha.
4. Target yield is 3.3 tons/ha for wet season paddy and 3.5 tons/ha for dry season paddy.

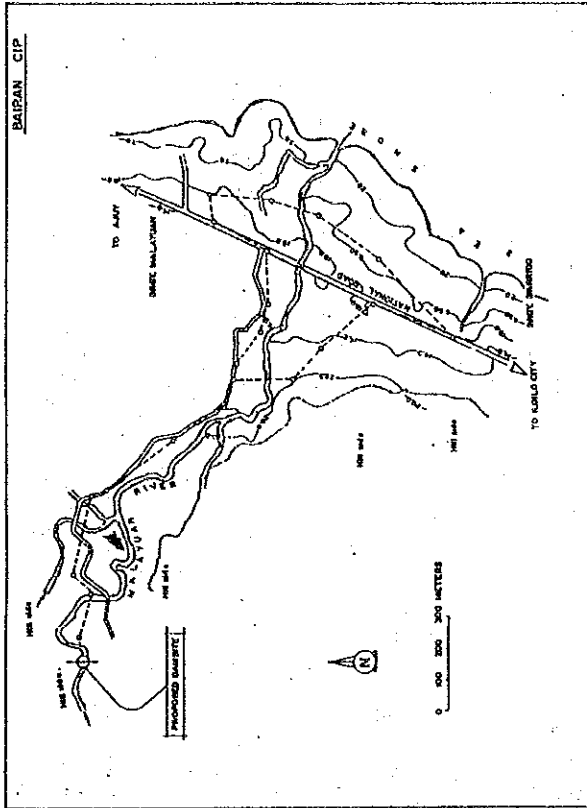
Institutional Assessment :

1. Beneficiaries have not yet established their IA. However, they are willing to establish the IA and to participate in the construction in a form of labor equity.

Environmental Assessment :

Increase in employment opportunities and farmers' income are expected, and no negative environmental impact induced by this sub-project is anticipated.

General Layout :



Sub-Project Background :

1. F/S : 1989
2. D/D :
3. Construction :
4. Fast Rehab./Imprv. :

Costs Spent for Sub-Project

(1,000 Pesos) :

1. Initial Const. :
2. Fast Rehab./Imprv. :

Fund Required for Sub-Project

(1,000 Pesos) :

1. New Const. : 2,200 (As of 1989)
2. Rehab./Imprv. : (As of 19)
3. Expansion : (As of 19)

EIRR of Sub-Project

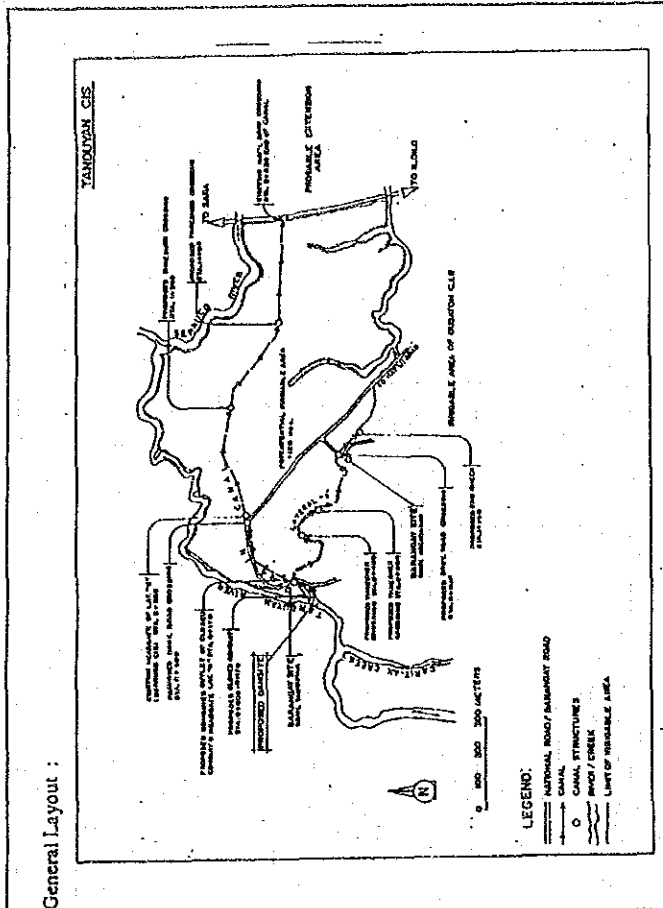
as of 1989 : 17%

Remarks :

Principal Feature of Sub-Project :

| | Plan | Actual |
|---------------------------------|-------------|--------|
| 1. Net Irrigable Area | | |
| - Wet season (ha) | : 64 | |
| - Dry season (ha) | : 64 | |
| 2. Diversion Weir | | |
| - Material | : Concrete/ | |
| | Ogee type | |
| - Length (m) | : 20.00 | |
| - Height (m) | : 1.20 | |
| 3. Intake | | |
| - Design Discharge (l/s) | : 94 | |
| 4. Main Canals (km) | : 3.50 | |
| 5. Laterals/Sub-Laterals (km) | : 1.50 | |
| 6. Field Ditches (km) | : -- | |
| 7. Main (Project) Drains (km) | : 0.80 | |
| 8. Secondary (Farm) Drains (km) | : -- | |
| 9. Drainage Ditches (km) | : -- | |
| 10. Access Road (km) | : 1.00 | |

| | | |
|--|----------------------|---------------------|
| SSIDP SAMPLE SUB-PROJECT PROFILE | | FILE NO. : 20 |
| Code : E 06 41 045 A | Name : TANDUYAN CIS | |
| Region : VI | Province : ILOILO | Municipality : AJUY |
| Present Status : 1. No Planning, 2. F/S, 3. D/D, 4. Construction, 5. Rehab/Imprv., 6. O/M | | |
| IA : TANDUYAN IA | Nos. of Members : 30 | Households |
| <p>Technical Assessment (F/S, D/D, Construction, O/M) :</p> <p>1. F/S : Planning was made based on 1/50,000 map in 1988. Discharge measurement was done once a month for 1 year by using current meter and the discharge in dry season was about 130 lit/sec. Soil survey over the area and auger boring at weir site were also conducted. (Duration : 1 year)</p> <p>2. D/D : Design was made based on 1/4,000 topo. map and 14 drawings were prepared in 1989. (Duration : 5 months)</p> <p>3. Construction : The construction is being carried out under NIA force account base. The IA participated in the construction work under Paquioa contract, and quality control is carried out in accordance with NIA's specifications.</p> | | |
| <p>Agro-Economic Assessment :</p> <p>1. Target cropping intensity is 186%.</p> <p>2. Soils and land slope are suitable for paddy cultivation.</p> <p>3. Average farm size is 2 ha.</p> <p>4. Target yield is 3.3 tons/ha for wet season paddy and 3.4 tons/ha for dry season paddy.</p> | | |
| <p>Institutional Assessment :</p> <p>1. The IA was established in 1989 and is participating in the construction work to render equity.</p> <p>2. Regular cost reconciliation is smoothly conducted between NIA and IA.</p> <p>3. Water permit is being acquired by IA.</p> <p>4. Leaders of the IA are very active.</p> | | |
| <p>Environmental Assessment :</p> <p>There have been an increase in employment opportunities and farmers' income has increased owing to such opportunities.</p> | | |



| Sub-Project Background : | Plan | Actual |
|---|------|--------|
| 1. F/S : 1988 | | |
| 2. D/D : 1989 | | |
| 3. Construction : On-going | | |
| 4. Past Rehab./Imprv. : | | |
| Costs Spent for Sub-Project (1,000 Pesos) : | | |
| 1. Initial Const. : | | |
| 2. Past Rehab./Imprv. : | | |
| Fund Required for Sub-Project (1,000 Pesos) : | | |
| 1. New Const. : 1,500 (As of 1989) | | |
| 2. Rehab./Imprv. : (As of 19) | | |
| 3. Expansion : (As of 19) | | |
| FEIRR of Sub-Project as of 1988 : 16% | | |
| Remarks : | | |

| Principal Feature of Sub-Project : | Plan | Actual |
|------------------------------------|-----------|--------|
| 1. Net Irrigable Area | | |
| - Wet season (ha) : | 80 | |
| - Dry season (ha) : | 69 | |
| 2. Diversion Weir | | |
| - Material : | Concrete/ | |
| - Ogee type : | | |
| - Length (m) : | 11.70 | |
| - Height (m) : | 2.10 | |
| 3. Intake | | |
| - Design Discharge (Us) : | 120 | |
| 4. Main Canals (km) : | 1.20 | |
| 5. Laterals/Sub-Laterals (km) : | 1.00 | |
| 6. Field Ditches (km) : | --- | |
| 7. Main (Project) Drains (km) : | --- | |
| 8. Secondary (Farm) Drains (km) : | --- | |
| 9. Drainage Ditches (km) : | --- | |
| 10. Access Road (km) : | 2.00 | |

SSIDP SAMPLE SUB-PROJECT PROFILE

FILE NO. : 21

| | |
|---|---------------------------------|
| Code : E 07 44 007 A | Name : ARGAO CIS |
| Region : VII | Province : CEBU |
| Municipality : ARGAO | |
| Present Status : 1. No Planning, 2. F/S, 3. D/D, 4. Construction, 5. Rehab/Imprv., 6. O/M | |
| IA : ARGAO IA | Nos. of Members : 85 Households |

Technical Assessment (F/S, D/D, Construction, O/M) :

1. F/S : Discharge measurement was made by using current meter and land capability was assessed on the basis of soil test. (Duration : 1 year)
2. D/D : Design was made on a 1:1,000 topo. map and 17 drawings were prepared by RIO. (Duration : 2 months)
3. Construction : Construction was carried out under NIA force account base in 1981. All the canals were unlined. (Duration : 1 year)
4. Rehab./Imprv. : The diversion dam was damaged at the downstream apron and side walls. The canals had high seepage rate and damaged by slaking due to soil characteristics. The weir and canals are being improved under CARP fund. The progress rate is 90% as of October 1990 and the completion is scheduled within 1990. (Duration : 1 year)

5. Outstanding Issues :

- The soils in the area are characterized by high seepage rate and slaking. Therefore, canals have to be lined.
- In order to overcome slight water shortage in the dry season, rotational irrigation is conducted by IA.

Agro-Economic Assessment :

1. Proposed cropping intensity was 200% and actual intensity is also 200%.
2. Soils and land slope are suitable for paddy cultivation.
3. Average farm size is about 1.3 ha.
4. Target paddy yield per ha was 4.3 tons/ha for wet season and 4.0 tons/ha for dry season, while actual yield is 3.5 tons/ha.

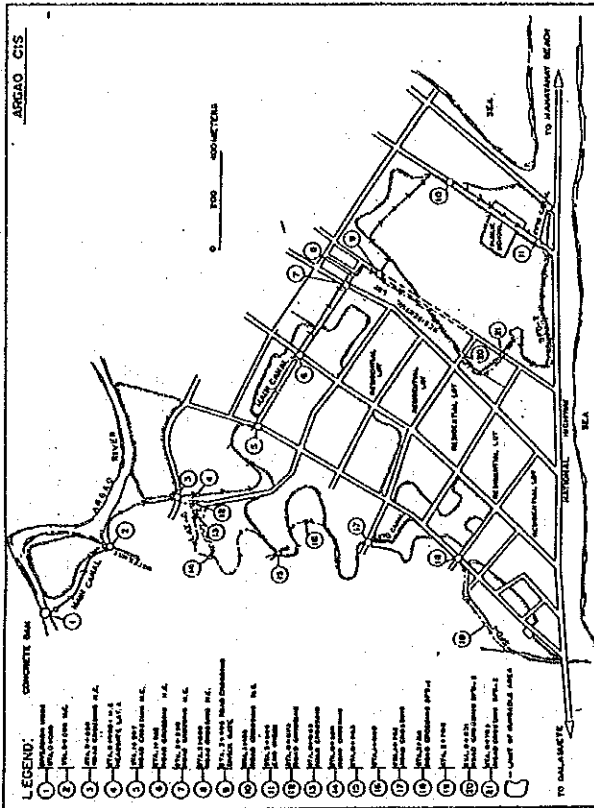
Institutional Assessment :

1. Irrigation fee collection efficiency is 75% at present.
2. The IA seems very viable and there is no serious problem on IA.

Environmental Assessment :

Gravels and sands are taken by a private agency in the upstream and downstream of the diversion weir despite of several official warnings.

General Layout :



Sub-Project Background :

1. F/S : 1979
2. D/D : 1980
3. Construction : 1981
4. Past Rehab./Imprv. : 1990

Costs Spent for Sub-Project
(1,000 Pesos) :

1. Initial Const. : 2,100
2. Past Rehab./Imprv. : 470

Fund Required for Sub-Project
(1,000 Pesos) :

1. New Const. : (As of 19)
2. Rehab./Imprv. : (As of 19)
3. Expansion : (As of 19)

EFFR of Sub-Project

as of 1979 : 22%

Remarks : This sub-project is being improved under CARP Fund.

Principal Feature of Sub-Project :

| | Plan | Actual |
|---------------------------------|-----------|-----------|
| 1. Net Irrigable Area | | |
| - Wet season (ha) | 110 | 100 |
| - Dry season (ha) | 110 | 100 |
| 2. Diversion Weir | | |
| - Material | Concrete/ | Concrete/ |
| - Length (m) | Ogee type | Ogee type |
| - Height (m) | 1.30 | 1.30 |
| 3. Intake | | |
| - Design Discharge (l/s) | 251 | 201 |
| 4. Main Canals (km) | 3.04 | 3.04 |
| 5. Laterals/Sub-Laterals (km) | 1.77 | 1.77 |
| 6. Field Ditches (km) | 2.15 | 2.76 |
| 7. Main (Project) Drains (km) | 0.03 | --- |
| 8. Secondary (Farm) Drains (km) | | |
| 9. Drainage Ditches (km) | | |
| 10. Access Road (km) | | |

SSIDP SAMPLE SUB-PROJECT PROFILE

FILE NO. : 22

Code : E 07 44 002 A Name : LAGANG-OCANA CIS

Region : VII Province : CEBU Municipality : CARCAR

Present Status : 1. No Planning, 2. F/S, 3. D/D, 4. Construction, 5. Rehab/Imprv., 6. O/M

IA : CARCAR IA Nos. of Members : 237 Households

Technical Assessment (F/S, D/D, Construction, O/M) :

1. F/S : Discharge measurement was done by using current meter and land capability was assessed on the basis of soil test. (Duration : 1 year)
2. D/D : Design was made on a 1:1,000 topo. map and 28 drawings were prepared by RIO. (Duration : 1 year)
3. Construction : Construction was carried out under NIA force account base in 1983/84. The diversion weir is little damaged and functions well. (Duration : 1 year)
4. Improvement : Main canal was unlined and the seepage rate was found very high. A part of the canal was relocated and some sections of the canal were concrete-lined under CIDP I. (Duration : 1 year)
5. O/M : O/M is being carried out at a satisfactory level by IA. O/M staff of IA consists of one gate keeper and three water tenders.
6. Outstanding Issues : The soils in the area are characterized by high seepage rate and slaking. Therefore, lined canal is very necessary.

Agro-Economic Assessment :

1. Target cropping intensity was 143% but actual intensity is 200% although an irrigation area decreases from 145 ha to 65 ha.
2. Soils and land slope are moderately suitable for paddy cultivation.
3. Average farm size is 0.6 ha.
4. Present irrigated paddy yield is 1.8 tons/ha.

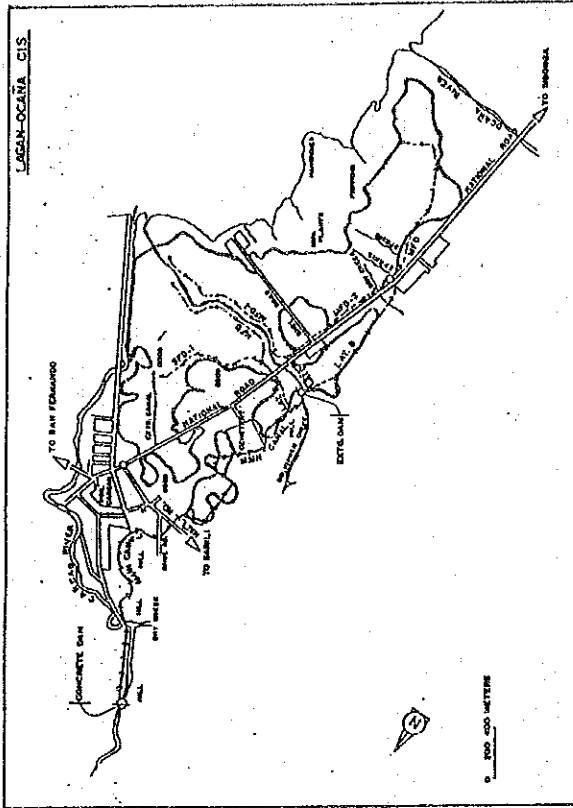
Institutional Assessment :

1. Irrigation fee collection efficiency is 95%.
2. The IA is viable.
3. Farmers have not sufficient fund to convert corn fields to paddy field, and the number of draft animal and tractors is very short for the conversion.

Environmental Assessment :

No negative environmental impact caused by this sub-project is anticipated.

General Layout :



Sub-Project Background :

1. F/S : 1982
2. D/D : 1982
3. Construction : 1983/84
4. Past Rehab./Imprv. : 1989

Costs Spent for Sub-Project (1,000 Pesos) :

1. Initial Const. : 1,568
2. Past Rehab./Imprv. : 1,969

Fund Required for Sub-Project (1,000 Pesos) :

1. New Const. : (As of 19)
2. Rehab./Imprv. : (As of 19)
3. Expansion : (As of 19)

EIRR of Sub-Project as of 1988 : 26%

Principal Feature of Sub-Project :

| Principal Feature of Sub-Project : | Plan | Actual |
|------------------------------------|-----------|-----------|
| 1. Net Irrigable Area | | |
| - Wet season (ha) | 145 | 65 |
| - Dry season (ha) | 63 | 65 |
| 2. Diversion Weir | | |
| - Material | Concrete/ | Concrete/ |
| - Length (m) | Ogee type | Ogee type |
| - Height (m) | 26.60 | 26.60 |
| 3. Intake | 2.70 | 2.70 |
| - Design Discharge (l/s) | 280 | 217 |
| 4. Main Canals (km) | 4.19 | 4.19 |
| 5. Laterals/Sub-Laterals (km) | 2.39 | 2.39 |
| 6. Field Ditches (km) | 2.26 | 2.26 |
| 7. Main (Project) Drains (km) | 1.72 | 1.72 |
| 8. Secondary (Farm) Drains (km) | | |
| 9. Drainage Ditches (km) | | |
| 10. Access Road (km) | | |

Remarks : This sub-project was improved under CIDP I in 1989.

SSIDP SAMPLE SUB-PROJECT PROFILE

FILE NO. : 23

| | |
|---|---------------------------------|
| Code : E 07 44 013 A | Name : DUMANJUG CIS |
| Region : VII | Province : CEBU |
| Municipality : DUMANJUG | |
| Present Status : 1. No Planning, 2. F/S, 3. D/D, 4. Construction, 5. Rehab/Imprv., 6. O/M | |
| IA : DUMANJUG IA | Nos. of Members : 90 Households |

Technical Assessment (F/S, D/D, Construction, O/M) :

- General : This sub-project includes conversion of 232 ha coconut field to paddy field, and reclamation of 68 ha virgin land.
- F/S : The initial F/S was undertaken as SWIM project and later, F/S was re-made as CIS by gravity. (Duration : 1.5 years)
- D/D : Design was made on a 1:1,000 topo. map for diversion and 1:4,000 topo. map for irrigation canals and structures. 30 drawings were prepared. (Duration : 6 months)
- Construction : Construction is carried out under NIA force account base. The construction is very hard due to topography of the main canal route and a 12.5 km length of the main canal. The progress is about 95% as of October, 1990. The completion is scheduled in the end of 1990. (Duration : About 3 years)
- Outstanding Issues :
 - Main canal will be 12.50 km in its full length and 6.7 km of the canal needs concrete-lining because it almost runs on steep slope of hills and mountains.
 - Major crops in the area are corns and coconut. When the area is used as paddy field, land levelling will be required.
 - Development cost is about P 60,000/ha.

Agro-Economic Assessment :

- Target cropping intensity is about 160%.
- Soils and land slope are moderately suitable for paddy cultivation.
- Average farm size is 1.6 ha.
- Target paddy yield is 4.5 tons/ha for wet season and 4.0 tons/ha for dry season.

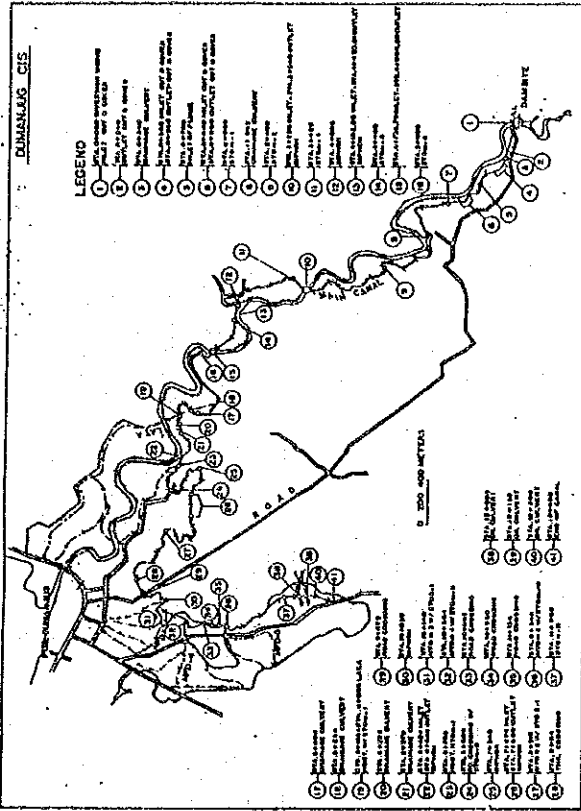
Institutional Assessment :

- The IA is actively participating in the construction.
- Since paddy cultivation seems very new to some farmers, technical guidance on rice cultivation by agricultural extension workers will be very necessary.

Environmental Assessment :

No negative environmental impact induced by the sub-project is anticipated.

General Layout :



Sub-Project Background :

- F/S : 1983
- D/D : 1984
- Construction : 1987-90
- Past Rehab./Imprv. :

Costs Spent for Sub-Project (1,000 Pesos) :

- Initial Const. : 17,950
- Past Rehab./Imprv. :

Fund Required for Sub-Project (1,000 Pesos) :

- New Const. : (As of 19)
- Rehab./Imprv. : (As of 19)
- Expansion : (As of 19)

EIRR of Sub-Project

as of 1983 : 27%

Principal Feature of Sub-Project :

| | Plan | Actual |
|---------------------------------|-----------|-----------|
| 1. Net Irrigable Area | | |
| - Wet season (ha) | 300 | |
| - Dry season (ha) | 190 | |
| 2. Diversion Weir | | |
| - Material | Concrete/ | Concrete/ |
| - Length (m) | Ogee type | Ogee type |
| - Height (m) | 33.75 | 33.75 |
| 3. Intake | | |
| - Design Discharge (Ds) | 2.50 | 2.50 |
| 4. Main Canals (km) | 506 | 506 |
| 5. Laterals/Sub-Laterals (km) | 4.90 | 12.50 |
| 6. Field Ditches (km) | 11.00 | 1.70 |
| 7. Main (Project) Drains (km) | 5.00 | 5.60 |
| 8. Secondary (Farm) Drains (km) | 2.00 | 4.10 |
| 9. Drainage Ditches (km) | | |
| 10. Access Road (km) | 5.75 | 9.00 |

Remarks : This sub-project is being constructed under CIDP I.

SSIDP SAMPLE SUB-PROJECT PROFILE

FILE NO. : 24

Code : E 08 51 110 A Name : MACANIP CIS
 Region : VIII Province : NORTHERN LEYTE Municipality : JARO
 Present Status : 1. No Planning, 2. F/S, 3. D/D, 4. Construction, 5. Rehab/Imprv., 6. O/M
 IA : MACANIP IA Nos. of Members : 65 Households

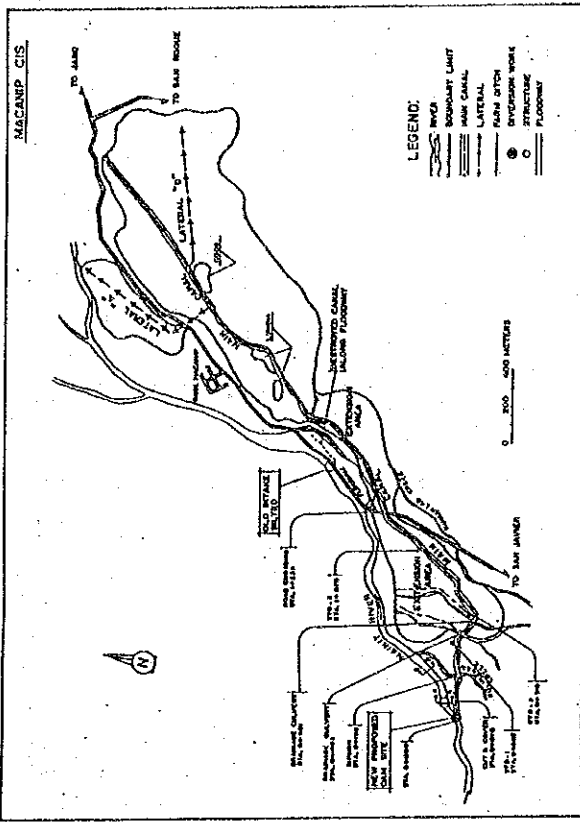
Technical Assessment (F/S, D/D, Construction, O/M) :
 1. General: This sub-project was constructed in 1974 under NIA-FSDC (Farm System Development Corporation) tie-up. The existing intake was totally damaged by 1986 flood. At present an improvement of intake with terruvian weir, main canal and other facilities are being carried out under NIA force account base.
 2. F/S: Planning for the improvement was made based on 1/50,000 map with 20 m concrete interval. Discharge measurement was done using current meter and the discharge in dry season was estimated at 0.3 m³/sec. (Duration : 1 month)
 3. D/D : Design for the improvement was made based on 1/4,000 maps with 1 m contour interval. (Duration : 1 year)
 4. Construction : A terruvian weir and main canal are being improved and is scheduled to be completed within 1990.
 5. Outstanding Issues :
 - Since a terruvian weir diverts water with river bed materials, sedimentation will be a problem.
 - New intake was shifted about 800 m upstream from the existing intake.
 - Lined canal or pipes are necessary for the sub-project in order to prevent serious seepages.
 - Access to the area is hard.

Agro-Economic Assessment :
 1. Both present and target cropping intensities are 200%.
 2. Soils and land slope are suitable for paddy cultivation.
 3. Average farm size is 1.2 ha.
 4. Target paddy yield is 3 tons/ha although present yield is 1.8 tons/ha for irrigated paddy and 1.5 tons/ha for rainfed paddy.

Institutional Assessment :
 1. In 1974 the IA was formed, but since the intake was destroyed by flood and the irrigation system did not function, the IA dissolved.

Environmental Assessment :
 Schistosomiasis is prevalent.

General Layout :



| Sub-Project Background : | | Principal Feature of Sub-Project : | | |
|---|---------------|------------------------------------|------------------|----|
| | | Plan | Actual | |
| 1. F/S | : early 1970s | 1. Net Irrigable Area | : 160 | 60 |
| 2. D/D | : early 1970s | - Wet season (ha) | : 160 | 60 |
| 3. Construction | : 1974 | - Dry season (ha) | : 160 | 60 |
| 4. Past Rehab/Imprv. | : On-going | 2. Diversion Weir | : Concrete/ | |
| Costs Spent for Sub-Project (1,000 Pesos) : | | - Material | : Terruvian type | |
| 1. Initial Const. | : | - Length (m) | : 10 | |
| 2. Past Rehab/Imprv. | : | - Height (m) | : | |
| Fund Required for Sub-Project (1,000 Pesos) : | | 3. Intake | : | |
| 1. New Const. | : (As of 19) | - Design Discharge (l/s) | : 240 | |
| 2. Rehab/Imprv. | : (As of 19) | 4. Main Canals (km) | : 1.50 | |
| 3. Expansion | : (As of 19) | 5. Laterals/Sub-Laterals (km) | : 1.00 | |
| EIRR of Sub-Project | : | 6. Field Ditches (km) | : 1.00 | |
| as of 1989 | : 35% | 7. Main (Project) Drains (km) | : 1.00 | |
| Remarks : | | 8. Secondary (Farm) Drains (km) | : 1.00 | |
| | | 9. Drainage Ditches (km) | : | |
| | | 10. Access Road (km) | : 1.00 | |

SSIDP SAMPLE SUB-PROJECT PROFILE

FILE NO. : 25

| | |
|---|---------------------------------|
| Code : N 08 51 009 U | Name : MARAGUNDONG CIP |
| Region : VIII | Province : NORTHERN LEYTE |
| Municipality : DAGAMI | |
| Present Status : 1. No Planning, 2. F/S, 3. D/D, 4. Construction, 5. Rehab/Imprv., 6. O/M | |
| IA : MARAGUNDONG IA | Nos. of Members : 50 Households |

Technical Assessment (F/S, D/D, Construction, O/M) :

- General: F/S for a net irrigable area of 80 ha was finished in 1990. After the planning, an expansion of irrigable area from 80 ha to 400 ha has been proposed. However, F/S for 400 ha has not been conducted yet.
- F/S : Planning was made on 1/50,000 map with 20 m contour interval. Discharge measurement was made using current meter and the river discharge in dry season was estimated at 1.9 m³/sec. soil survey was done and 15 soil samples were analyzed.
- D/D : Design for this sub-project is being conducted and only the diversion weir has been finished. The intake has been designed so as to take water necessary for irrigation of 400 ha. In addition, the weir site has been shifted about 2 km upstream from the site proposed in F/S.

Agro-Economic Assessment :

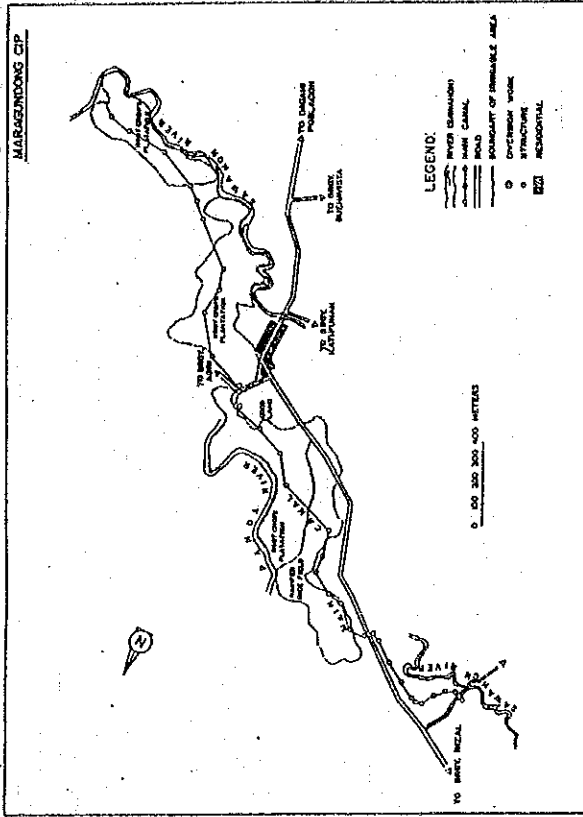
- Target cropping intensity is 200%.
- Soils and land slope are suitable for paddy cultivation.
- Average farm size is 1.6 ha.
- Present main crops in the area are paddy, corn, sweet potatoes and peanuts. Under the project, a double cropping of paddy is planned. Target paddy yield is 3.2 tons/ha.

Institutional Assessment :

- The IA was organized in 1984, but has not functioned well because the implementation of this sub-project has been deferred.

Environmental Assessment :
Schistosomiasis is prevalent.

General Layout :



Sub-Project Background :

| | |
|---|----------------------|
| 1. F/S | : 1990 |
| 2. D/D | : On-going |
| 3. Construction | : |
| 4. Past Rehab./Imprv. | : |
| Costs Spent for Sub-Project (1,000 Pesos) : | |
| 1. Initial Const. | : |
| 2. Past Rehab./Imprv. | : |
| Fund Required for Sub-Project (1,000 Pesos) : | |
| 1. New Const. | : 3,457 (As of 1990) |
| 2. Rehab./Imprv. | : (As of 19) |
| 3. Expansion | : (As of 19) |
| EIRR of Sub-Project as of 1990 | : 24 % |

Principal Feature of Sub-Project :

| | Plan (F/S) | Actual (D/D) |
|---------------------------------|----------------------|--------------|
| 1. Net Irrigable Area | : 80 | : 400 |
| - Wet season (ha) | : 80 | : 400 |
| - Dry season (ha) | : 80 | : 400 |
| 2. Diversion Weir | | |
| - Material | : Concrete/Ogee type | |
| - Length (m) | : 12 m | |
| - Height (m) | : 1.50 m | |
| 3. Intake | | |
| - Design Discharge (Us) | : 698.67 | |
| 4. Main Canals (km) | : 4.00 | |
| 5. Laterals/Sub-Laterals (km) | : 4.00 | |
| 6. Field Ditches (km) | : 3.00 | |
| 7. Main (Project) Drains (km) | : | |
| 8. Secondary (Farm) Drains (km) | : | |
| 9. Drainage Ditches (km) | : | |
| 10. Access Road (km) | : 1.50 | |
| 11. Flood Protection Dike (km) | : | |

Remarks :