

Table I2-71

PROVINCIAL IMPLEMENTATION SCHEDULE AND ANNUAL FUND REQUIREMENTS

 REGION: XII(CENTRAL MINDANAO), PROVINCE: MAGUINDANAO(73)
 SSIIDP Target Area (1993-2002) : 5,971 ha for CISs & 10,319 ha for CIPs

(Unit : Million Pesos)

Sub-Projects	No. of Sub-Projects	Designed Irrigable Area (ha)	First 5 Years					Second 5 Years					Total
			1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
CISs													
I "A" Group													
F/S	2	630	0.95										0.95
Design	2	630		0.14									0.14
Inst.Activities	2	630		0.06	0.06	0.06	0.06	0.06					0.30
Construction	2	630			3.63	3.63							7.26
Sub-Total (1)	2	630	0.95	0.20	3.69	3.69	0.06	0.06					8.65
II "B" Group													
Re-Study	19	2,845	1.07	1.07	1.07	1.06							4.27
Design	19	2,845		0.33	0.33	0.33	0.34						1.33
Inst.Activities	19	2,845		0.14	0.29	0.43	0.57	0.57	0.43	0.29	0.13		2.85
Construction	19	2,845			3.86	7.71	7.71	7.71	3.85				30.84
Sub-Total (2)	19	2,845	1.07	1.54	5.55	9.53	8.62	8.28	4.28	0.29	0.13		39.29
III "C" Group													
F/S	1	410					0.62						0.62
Design	1	410						0.07					0.07
Inst.Activities	1	410						0.03	0.03	0.03	0.03	0.03	0.15
Construction	1	410							2.23	2.22			4.45
Sub-Total (3)	1	410					0.62	0.10	2.26	2.25	0.03	0.03	5.29
IV "D" Group													
F/S	10	2,086					1.03	1.03	1.07				3.13
Design	10	2,086						0.23	0.23	0.24			0.70
Inst.Activities	10	2,086						1.58	2.94	4.53	4.53	9.05	22.63
Construction	10	2,086							0.26	0.50	0.50	0.24	1.50
Sub-Total (4)	10	2,086					1.03	2.84	4.50	5.27	5.03	9.29	27.96
Total (1)	32	5,971	2.02	1.74	9.24	13.22	10.33	11.28	11.04	7.81	5.19	9.32	81.19
CIPs													
V "A" Group													
Design													
Inst.Activities	2	607	0.24	0.12	0.12	0.12							0.60
Construction	2	607	16.26	16.25									32.51
Sub-Total (5)	2	607	16.50	16.37	0.12	0.12							33.11
VI "B" Group													
Re-Study	1	80	0.12										0.12
Design	1	80		0.07									0.07
Inst.Activities	1	80		0.06	0.06	0.06	0.06	0.06					0.30
Construction	1	80			1.76	1.76							3.52
Sub-Total (6)	1	80	0.12	0.13	1.82	1.82	0.06	0.06					4.01
VII "C" Group													
F/S	54	9,632	2.02	2.02	2.02	2.02	2.02	2.17	2.18				14.45
Design	54	9,632		0.53	0.53	0.53	0.53	0.53	0.57	0.56			3.78
Inst.Activities	54	9,632		0.49	0.97	1.46	1.78	2.27	2.27	2.27	1.78	2.91	16.20
Construction	54	9,632			33.90	59.33	59.33	59.33	59.33	59.33	59.33	33.87	423.75
Sub-Total (7)	54	9,632	2.02	3.04	37.42	63.34	63.66	64.30	64.35	62.16	61.11	36.78	458.18
VIII "D" Group													
F/S													
Design													
Inst.Activities													
Construction													
Sub-Total (8)													
Total (2)	57	10,319	18.64	19.54	39.36	65.28	63.72	64.36	64.35	62.16	61.11	36.78	495.30
Grand Total	89	16,290	20.66	21.28	48.60	78.50	74.05	75.64	75.39	69.97	66.30	46.10	576.49

Since a total area of the inventoried sub-projects ("A", "B" & "C") of CIPs exceeds the target area, "C" sub-projects for implementation are less than the inventoried "C" sub-projects in their total areas.
 Since a total area of the inventoried sub-projects ("A", "B" & "C") of CISs is less than the target area, a shortage of the area is shown as an area of "D" sub-projects.

PROVINCIAL IMPLEMENTATION SCHEDULE AND ANNUAL FUND REQUIREMENTS

REGION: XII(CENTRAL MINDANAO), PROVINCE: SULTAN KUDARAT(74)
 SSIDP Target Area (1993-2002): 8,071 ha for CIsS & 3,369 ha for CIPs

(Unit: Million Pesos)

Sub-Projects	No. of Sub-Projects	Designed Irrigable Area (ha)	First 5 Years					Second 5 Years					Total
			1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
CIsS													
I "A" Group													
F/S	6	1,265	1.90										1.90
Design	6	1,265		0.42									0.42
Inst.Activities	6	1,265		0.18	0.18	0.18	0.18	0.18	0.18				0.90
Construction	6	1,265			10.01	10.00							20.01
Sub-Total (1)	6	1,265	1.90	0.60	10.19	10.18	0.18	0.18					23.23
II "B" Group													
Re-Study	8	1,670		1.26	1.25								2.51
Design	8	1,670			0.28	0.28							0.56
Inst.Activities	8	1,670			0.12	0.24	0.24	0.24	0.24	0.12			1.20
Construction	8	1,670				4.53	9.06	4.53					18.12
Sub-Total (2)	8	1,670		1.26	1.65	5.05	9.30	4.77	0.24	0.12			22.39
III "C" Group													
F/S	2	622			0.93								0.93
Design	2	622				0.14							0.14
Inst.Activities	2	622				0.06	0.06	0.06	0.06	0.06			0.30
Construction	2	622					3.38	3.37					6.75
Sub-Total (3)	2	622			0.93	0.20	3.44	3.43	0.06	0.06			8.12
IV "D" Group													
F/S	21	4,514				1.69	1.69	1.69	1.70				6.77
Design	21	4,514					0.37	0.37	0.37	0.36			1.47
Inst.Activities	21	4,514					0.16	0.32	0.47	0.63	0.63	0.94	3.15
Construction	21	4,514				1.69		6.12	12.24	12.24	12.24	6.11	48.95
Sub-Total (4)	21	4,514				1.69	2.22	8.50	14.78	13.23	12.87	7.05	60.34
Total (1)	37	8,071	1.90	1.86	12.77	17.12	15.14	16.88	15.06	13.41	12.87	7.05	114.08
CIPs													
V "A" Group													
Design	8	1,130	0.21	0.21	0.14								0.56
Inst.Activities	9	1,430	0.30	0.42	0.54	0.54	0.48	0.30	0.12				2.70
Construction	9	1,430	3.06	12.24	18.36	15.30	6.12						55.08
Sub-Total (5)	9	1,430	3.57	12.87	19.04	15.84	6.60	0.30	0.12				58.34
VI "B" Group													
Re-Study													
Design													
Inst.Activities													
Construction													
Sub-Total (6)													
VII "C" Group													
F/S	14	1,939		0.47	0.47	0.49	0.49	0.49	0.50				2.91
Design	14	1,939			0.16	0.16	0.17	0.17	0.17	0.15			0.98
Inst.Activities	14	1,939			0.13	0.29	0.42	0.55	0.71	0.71	0.55	0.84	4.20
Construction	14	1,939				6.82	14.50	14.50	14.50	14.50	14.50	5.99	85.31
Sub-Total (7)	14	1,939		0.47	0.76	7.76	15.58	15.71	15.88	15.36	15.05	6.83	93.40
VIII "D" Group													
F/S													
Design													
Inst.Activities													
Construction													
Sub-Total (8)													
Total (2)	23	3,369	3.57	13.34	19.80	23.60	22.18	16.01	16.00	15.36	15.05	6.83	151.74
Grand Total	60	11,440	5.47	15.20	32.57	40.72	37.32	32.89	31.08	28.77	27.92	13.88	265.82

Since a total area of the inventoried sub-projects ("A", "B" & "C") of CIPs exceeds the target area, "C" sub-projects for implementation are less than the inventoried "C" sub-projects in their total areas.
 Since a total area of the inventoried sub-projects ("A", "B" & "C") of CIsS is less than the target area, a shortage of the area is shown as an area of "D" sub-projects.

ANNEX J

DATABASE SYSTEM FOR ADMINISTRATION AND MANAGEMENT

ANNEX J
DATABASE SYSTEM FOR ADMINISTRATION AND MANAGEMENT

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DATABASE SYSTEM FOR ADMINISTRATION AND MANAGEMENT

General

- J.01 NIA intends to utilize the computerized database system prepared by the JICA Study Team for administration and management purposes, and requests the JICA Study Team to transfer the computerized database system to NIA.
- J.02 However, the existing database system is prepared only for formulation of the SSIDP Master Plan. It has not been designed for storing the data required for future administration and management of communal irrigation development. Therefore, the JICA Study Team will modify the database system so that NIA will be able to maintain the database system in future by adding and updating the information. The JICA Study Team will hand over the database system, which consists of all data obtained through the inventory survey and the computer programs for data analysis.

Database system

- J.03 Generally, computerized database system for project management will have following five functions:
- (1) Data input/output for each project,
 - (2) Data analysis,
 - (3) Preparation of yearly/long-term development program,
 - (4) Monitoring & Evaluation (under construction), and
 - (5) Monitoring & Evaluation (after construction).

The computer program for each function is outlined hereinafter (schematic flow chart of each computer program is shown in Fig J-01):

- J.04 Data input/output
When the particular project is planned and its reports is submitted to the Central Office, the data and information of the project are to be stored and compiled in proper manner according to the specified format. And stored data and information are to be retrieved quickly and correctly whenever they are required. This program consists of data encoding and data storage, and printing out.
- J.05 Data analysis
Based on the data and information compiled in program (1), the following analysis can be made by this program;
- Calculation of total and average,
 - Distribution,
 - Sorting, and
 - Extraction.

Total sums the numeric values of the database file on a key item. Average computes the average of a numeric value. The result of the calculation will be stored to another file and tabulated by use of this program. Table J-01 presents the summary of designed irrigable area of CIS in wet season per Provinces and Region, calculating its total and average.

Distribution calculates frequency distribution of the values in a range. A frequency distribution counts how many of the values in a range fall within specified numeric intervals. The range is fixed by the program. Data to specify the range are designed irrigable area, length of irrigation canals, crop yield, construction cost, EIRR and so on. For example, in Table J-02, computer output is obtained to determine how many of the designed irrigable area in wet season for CIS are more than or equal to 50 ha and less than or equal to 150 ha, greater than 150 ha and less than or equal to 300 ha, or greater than 300 ha and less than or equal to 500 ha.

Sort program arranges records in a database file in the order specified. The key data to sort can be specified in a menu of the program, and the order in descent or in ascent also will be selected. In Table J-03, data of the designed irrigable area in wet season of CIS in Ifugao Province is sorted in descent order and printed out.

Extraction program can select records in a database specifying a condition or range. The computer will search the records in a database file to meet the specified condition, copy them to another database file and print out the file. Table J-04 shows the result of extraction of CIS in Northern Leyte Province under the condition that the designed irrigable area in wet season is more than 200 ha and less than 300 ha. The selection of extraction condition can be also made by menu of the computer program.

J.06 Preparation of implementation program

This program will assist NIA to prepare such implementation programs as the long-term development program, annual development program, annual budget to each PIO, and so on. The following information will be necessary to proceed the program in addition to those compiled in program (1);

- Total potential irrigable area,
- Actually irrigated area,
- Total budget,
- Budget allocation formula, and
- Existing criteria and guidelines for selection and prioritization.

J.07 (4) Monitoring & Evaluation (during construction stage)

Once the construction works is commenced, its work progress is to be carefully monitored in both physical and financial aspects. Following computer output can be obtained by use of the program (4);

- Progress of each construction works for each project,
- Expenditure statement for each project,
- Progress of construction works in each PIO, and
- Budget-expenditure statement of each project and each PIO.

To prepare them, the additional data and information will be required, in addition to those encoded in programs (1) and (3), such as information of contract agreement, and record of physical work progress and payment.

J.08 Monitoring & Evaluation (after construction)

The monitoring and evaluation will be continuously carried out even after completion of works to proceed proper operation and maintenance and verify the necessity of the rehabilitation. Following data will be collected and encoded for each project every year;

- Actual irrigated area,
- Crop yield,

- Amortization amount, and
- Numbers of IA members.

The program (5) will analyze these data and give useful information for evaluation of the present development programs.

Proposed database system

- J.09 The computerized database system can comprise various kinds of function as mentioned in preceding section. But considering data availability at present, the Team proposes that the system will deal with only item (1) : input/output program and item (2) :data analysis program. The proposed system will not include the programs for (3) Preparation of implementation programs, and (4) and (5) monitoring & evaluation except data encoding.
- J.10 Answering the importance of data collection after completion of the works, the computer program for data encoding in item (5) will be provided in the proposed system.

Purpose of the system

- J.11 The proposed database system will be prepared mainly for NIA officials working for CDD of NIA Central Office. The proposed system will provide them with basic data and information so quickly at any time when they are required so that they can prepare the development programs easily and make monitoring and evaluation in correct and efficient manner.

Data to be collected

- J.12 In connection with the data to be stored into the proposed database system, there are two kinds of data items : (1) fixed data item and (2) variable data item.
- J.13 The proposed database system will be based upon the important data and information which will be extracted from the original database files for master plan study, and will be updated regularly in the future from the data to be gathered through the following phases;
- Identification, Investigation Phase
 - Pre-construction Phase
 - Construction Phase, and
 - O/M stage.
- J.14 The fixed data items are those which are almost fixed or will not change so often, and include the items of location, name of sub-project, name of IA, service area, existing facilities and likes. The items will be determined considering the format of NIA's Final Feasibility Study Report and the agreed minimum selection criteria.
- J.15 The variable data items are defined as those which will change almost every year, and include the items such as amortization fee collection, irrigation area, O/M fee collected, crop yield, minor repair and rehabilitation. Those data and information are to be collected annually or in every crop season and updated/added into the system since they are essential to monitor and evaluate the project effect and formulate the rehabilitation programs.

- J.16 The data to be collected for the proposed system are summarized in Table J-05 and the details are shown in Table J-06.

Structure of system

- J.17 Structure of the proposed system is presented in Fig. J-02. In the system, all the instructions required for database operation will be given on the computer display so that users can operate the system easily even without the knowledge of the computer language.

SAMPLE OF COMPUTER PRINTOUT (TOTAL & AVERAGE)

Table J-01

FORM NO. : AEO2

EXISTING PROJECTS, TOTAL NET IRRIGABLE AREA IN THE WET SEASON

UNIT : HA

PAGE : 1

REGION NO.	PROVINCE NO.	PROVINCE NAME	TOTAL NO.	AVERAGE	TOTAL
I	01	ILOCOS NORTE	119	114.54	13,630.00
I	02	ABRA	37	142.32	5,266.00
I	03	ILOCOS SUR	70	116.90	8,183.00
I	04	MOUNTAIN PROVINCE	8	114.25	914.00
I	05	LA UNION	39	130.03	5,071.00
I	06	BENGUET	9	68.56	617.00
I	07	PANGASINAN	178	153.98	27,409.00
SUB-TOTAL			460	132.80	61,090.00
II	08	BATAHES	0	0.00	0.00
II	09	CAGAYAN	105	138.20	14,511.00
II	10	KALINGA APAYAO	64	87.53	5,602.00
II	11	ISABELA	47	207.98	9,775.00
II	12	IFUGAO	35	93.69	3,279.00
II	13	NUUEVA VISSCAYA	131	138.31	18,118.00
II	14	QUIRINO	29	119.31	3,460.00
SUB-TOTAL			411	133.20	54,745.00
III	15	NUUEVA ECIIJA	43	180.14	7,746.00
III	16	TARLAC	36	221.53	7,975.00
III	17	ZANBALES	10	156.30	1,563.00
III	18	PANPANGA	73	157.82	11,521.00
III	19	BULACAN	18	142.67	2,568.00
III	20	BATAAN	30	131.07	3,932.00
SUB-TOTAL			210	168.12	35,305.00
IV	21	AURORA	39	158.72	6,190.00
IV	22	QUEZON	38	101.97	3,875.00
IV	23	RIZAL	19	93.11	1,769.00
IV	24	CAVITE	5	119.20	596.00
IV	25	LAGUNA	25	98.96	2,474.00
IV	26	BATANGAS	22	92.36	2,032.00
IV	27	MARINDUQUE	5	109.00	545.00
IV	28	MINDORO ORIENTAL	48	172.71	8,290.00
IV	29	MINDORO OCCIDENTAL	54	191.26	10,328.00
IV	30	ROMBLON	2	72.50	145.00
IV	31	PALWAN	41	176.15	7,222.00
SUB-TOTAL			298	145.86	43,466.00
V	32	CAMARINES NORTE	18	81.61	1,469.00
V	33	CAMARINES SUR	96	135.54	13,012.00
V	34	CATANQUANES	9	116.56	1,049.00
V	35	ALBAY	78	151.73	11,835.00
V	36	SORSOGON	34	129.53	4,404.00
V	37	MASBATE	19	97.58	1,854.00
SUB-TOTAL			254	132.37	33,623.00

SAMPLE OF COMPUTER PRINTOUT (DISTRIBUTION)

Table J-02

FORM NO. : DE36

EXISTING PROJECTS, DESIGNED NET IRRIGABLE AREA IN THE WET SEASON (HA)

PAGE : 1

REGION NO.	PROVINCE NO.	PROVINCE NAME	NO. OF CIS	50 150	150 300	300 500	UNKNOWN	AVERAGE
I	01	ILOCOS NORTE	119	93	22	4	0	114.54
I	02	ABRA	37	25	6	6	0	142.32
I	03	ILOCOS SUR	70	56	10	4	0	116.90
I	04	MOUNTAIN PROVINCE	8	7	0	1	0	114.25
I	05	LA UNION	39	30	4	5	0	130.03
I	06	BENGUET	9	9	0	0	0	68.56
I	07	PANGASINAN	178	115	47	16	0	153.98
SUB-TOTAL			460	335	89	36	0	132.80
II	08	BATANES	0	0	0	0	0	
II	09	CAGAYAN	105	77	23	5	0	138.20
II	10	KALINGA APAYAO	64	60	4	0	0	87.53
II	11	ISABELA	47	21	16	10	0	207.98
II	12	IFUGAO	35	33	1	1	0	93.69
II	13	NUEVA VISAYA	131	90	28	13	0	138.31
II	14	QUIRINO	29	22	6	1	0	119.31
SUB-TOTAL			411	303	78	30	0	133.20
III	15	NUEVA ECIIJA	43	26	11	6	0	180.14
III	16	TARLAC	36	11	16	9	0	221.53
III	17	ZARBALES	10	5	4	1	0	156.30
III	18	PAMPANGA	73	38	30	5	0	157.82
III	19	BULACAN	18	13	4	1	0	142.67
III	20	BATAAN	30	21	6	3	0	131.07
SUB-TOTAL			210	114	71	25	0	168.12
IV	21	AURORA	39	27	10	2	0	158.72
IV	22	QUEZON	38	34	3	1	0	101.97
IV	23	RIZAL	19	17	2	0	0	93.11
IV	24	CAYITE	5	4	1	0	0	119.20
IV	25	LAGUNA	25	23	2	0	0	98.96
IV	26	BATANGAS	22	21	1	0	0	92.36
IV	27	MARINOUQUE	5	4	1	0	0	109.00
IV	28	MINDORO ORIENTAL	48	25	19	4	0	172.71
IV	29	MINDORO OCCIDENTAL	54	31	12	11	0	191.26
IV	30	ROMBLON	2	2	0	0	0	72.50
IV	31	PALAWAN	41	19	18	4	0	176.15
SUB-TOTAL			298	207	69	22	0	145.86
V	32	CANARINES NORTE	18	18	0	0	0	81.61
V	33	CANARINES SUR	96	77	12	7	0	135.54
V	34	CATAOUANES	9	7	1	1	0	116.56
V	35	ALBAY	78	50	21	7	0	151.73
V	36	SORSOGON	34	23	10	1	0	129.53
V	37	MASBATE	19	17	1	1	0	97.58
SUB-TOTAL			254	192	45	17	0	132.37

SAMPLE OF COMPUTER PRINTOUT (SORTING)

Printed on August 12, 1991

NATIONAL IRRIGATION ADMINISTRATION

Small Scale Irrigation Development Project (SSIDP)

Project List of CIS per Province

Sorted by : DESIGNED IRRIGABLE AREA IN WET SEASON

REGION NO. : II.

PROVINCE : IFUGAO

PAGE 1

NO.	ID. NO.	NAME OF CIS	NAME OF MUNICIPALITY	DESIGNED IRRIGABLE AREA IN WET SEASON (ha)
1	E0212038A	LANUT CIS	LANUT	500
2	E0212018A	NOMBONGOG CIS	KIANGAN	280
3	E0212010A	LAWIG CIS	LANUT	150
4	E0212002A	PAH OPDOPAN CIS	LANUT	140
5	E0212001A	BAYNINAH CIS	BANAUE	125
6	E0212004A	CABA CIS	LAGAVE	110
7	E0212042A	KIBUHUNGAN CIS	HUNGDUAN	110
8	E0212005A	CUDOG CIS	LAGAVE	107
9	E0212006A	LUOTAN BAYUNGH CIS	BANAUE	105
10	E0212031A	INDOTKOG CIS	KIANGAN	100
11	E0212015A	NOMBONGOG-MAGGOK CIS	HUNGDUAN	85
12	E0212025A	BALANGBANG CIS	HAYOYAO	80
13	E0212019A	UBUAG CIS	HINGYON	70
14	E0212026A	BANGAR CIS	HAYOYAO	70
15	E0212013A	INLINGOG-WANGWANG CIS	HUNGDUAN	70
16	E0212027A	GOHACHAN-BANHAL CIS	HAYOYAO	67
17	E0212009A	MAH LONG-LUGA CIS	BANAUE	65
18	E0212012A	BOXIAWAN CALADING CIS	KIANGAN	65
19	E0212021A	BONGBONGHA CIS	HUNGDUAN	65
20	E0212028A	DAMPAY-ANOEG CIS	KIANGAN	65
21	E0212024A	BOCOS CIS	BANAUE	60
22	E0212014A	HUNGDUAN PROPER CIS	HUNGDUAN	60
23	E0212016A	DILAN CIS	LAGAVE	60
24	E0212008A	ANTIPOLO CIS	KIANGAN	60
25	E0212022A	KONTABONG CIS	LAGAVE	60
26	E0212030A	ANDAULO-NUTURON CIS	KIANGAN	60
27	E0212007A	LOWER ANDUNTONG CIS	KIANGAN	60
28	E0212032A	GUIEGGEN-CANANDAG CIS	KIANGAN	60
29	E0212020A	MUKPOY-OC-LUGAB CIS	HUNGDUAN	60
30	E0212041A	INWALUY-GUINIHON CIS	HAYOYAO	60
31	E0212037A	GUITTE CIS	BANAUE	50
32	E0212035A	UNGOL-PULA CIS	KIANGAN	50
33	E0212039A	CARAGASAN CIS	ALFONSO LISTA	50
34	E0212040A	TOBTOBOB CIS	ALFONSO LISTA	50
35	E0212011A	PULITANG-TANG-IL CIS	KIANGAN	50
** PROVINCE TOTAL **				3,279
** PROVINCE AVERAGE **				94

SAMPLE OF COMPUTER PRINTOUT (EXTRACTION)

Printed on August 12, 1991

NATIONAL IRRIGATION ADMINISTRATION

Small Scale Irrigation Development Project (SSIDP)

Project List of CIS per Province

Search by : DESIGNED IRRIGABLE AREA IN WET SEASON

Condition : Greater than : 100 (ha) AND Less than : 200 (ha)

REGION NO. : VIII

PROVINCE : NORTHERN LEYTE

PAGE 1

NO.	ID. NO.	NAME OF CIS	NAME OF MUNICIPALITY	DESIGNED IRRIGABLE AREA IN WET SEASON (ha)
1	E0851023A	AGBANGA CIS	PALOMPON	105
2	E0851077H	AGAY-AYAN CIS	KANANGA	105
3	E0851022A	BALAGTAS CIS	KATAG-OB	106
4	E0851030N	HIRAHAN CIS	CARIGARA	120
5	E0851037N	MALJO CIS	INOPACAN	120
6	E0851040A	LUBI-LUBI CIS	LAPAZ	120
7	E0851051N	MAPUYO CIS	KANAYAN	120
8	E0851057N	IYOSAN CIS	ALMERIA	120
9	E0851074H	INANGATAN CIS	TABANGO	120
10	E0851075H	MASLOG CIS	STA. FE	120
11	E0851089P	PAGSULHOGON CIS	BABATHOGON	120
12	E0851121U	CANNOLE CIS	HERIDA	120
13	E0851126P	SANPRO CIS	NAVAL	120
14	E0851129A	ESPERANZA CIS	KATALON	120
15	E0851128A	CARAYCARAY CIS	SAN NIGUEL	124
16	E0851049N	CAGHALO CIS	CARIGARA	125
17	E0851099P	GABAS CIS	BAYBAY	125
18	E0851010A	CATHON CIS	NAVAL	127
19	E0851106P	PANGASUGAN CIS	BAYBAY	127
20	E0851012A	CASTAWAN CIS	CABUCGAYAN	130
21	E0851018A	CARAY-CARAY CIS	NAVAL	130
22	E0851043N	HITUMHOG CIS	DAGANI	132
23	E0851006A	KATAG-OB CIS	KATAG-OB	150
24	E0851013A	HAMBABALUD CIS	JARO	150
25	E0851059N	SAN VICENTE CIS	ALANGALANG	150
26	E0851112U	SAPA-COTAY-GUIN-WALOHAN CIS	JARO	150
27	E0851130A	LIMAO CIS	INOPACAN	150
28	E0851045N	BUNGA CIS	ABUYOG	160
29	E0851110A	KACANIP CIS	JARO	160
30	E0851016A	HIBULANGAN CIS	KATAG-OB	162
31	E0851021A	STA. FE CIS	STA. FE	162
32	E0851017A	JAMORANON CIS	ALMERIA	180
33	E0851042N	ITUN CIS	KATALON	194
** PROVINCE TOTAL **				4,424
** PROVINCE AVERAGE **				134

IMPLEMENTATION PROCEDURE OF DATABASE MANAGEMENT SYSTEM IN SSIDP

Project Phase	NIA's Activity	Items to be Compiled into Database System
Identification, Investigation and Selection Phase	Feasibility Study	Information from F/S Report - General information - Engineering - Agriculture - Agro-economy - Project Cost - Project Economy.etc
	Evaluation by Selection Criteria	Result of Evaluation
Pre-Construction Phase	Detailed Design	Completion Date of D/D
	Organization of IA	Information of IA - Name - Date of Organization - Number of IA Members etc.
	Agreement For Construction	Information of Agreement - Contractor's Name - Agreement Amount - Construction Period etc.
Construction Phase	Construction	
	Turnover of Facilities	Information of Turnover Agreement - Date of Turnover - Amount of IA Loan - Annual amortization etc.
O/M Phase	Monitoring & Evaluation	Annual Data Collection - Cultivated Area - Crop Yield - Amortization - Nos. of IA Member etc.

LIST OF DATA TO BE COLLECTED

Table J-06 (1/6)

I. NEW DEVELOPMENT PROJECT

I.1. INFORMATION FROM FIS REPORT

ID. No

Name of Sub-Project

GENERAL

Location

Region

Province

Municipality

Barangay

Project History

Date when Final Project Feasibility study Report was submitted

Designed irrigable area in the wet season

Designed irrigable area in the dry season

ENGINEERING

Physiography , Soils & Land Use

Topography

Alluvial plain

Flat area in valley

Terrace

Hilly

Soil Condition

Heavy clay

Silty Clay/Light Clay/Sandy Clay

Silty Clay Loam/Clay Loam/Sandy Clay Loam

Silty Loam/Loam/Sandy Loam/Loamy Sand

Sand

Water Source

Name of River

Main source

Supplementary source

River Discharge in Dry Season

Average low flow

Main source

Supplementary source

Catchment Area at Intake Site

Average Annual Rainfall

Irrigation & Drainage Plan

Proposed Diversion Water Requirement at Intake

Proposed Farm Water Requirement

Drainage Water Requirement

Proposed Irrigation Facilities

Proposed Intake Structure

Will intake be accompanied with diversion weir? (Yes/No)

Material of weir

Height of weir

Length of weir

Proposed Irrigation Canals & Structures

Length of proposed earth canals

Main canals

Lateral canals

Sub-lateral canals

Farm ditches

Length of proposed lined canals

Main canals

Lateral canals

Sub-lateral canals

Nos. of Irrigation canal structures

Canal structures

LIST OF DATA TO BE COLLECTED

Table J-06 (2/6)

- Proposed Service/Access Roads
 - Service roads
 - Length
 - Access roads
 - Length
- Land Reclamation Area
- Proposed O/M Fee per ha per Crop
 - Wet season paddy
 - Dry season paddy

AGRICULTURE AND AGRO-ECONOMY

- Socio-Economic Background
 - Population in the Proposed Project Area
 - Nos. of Households in the Project Area
 - Farming household
 - Non-farming household
 - Nos. of Potential Farmer Beneficiaries
 - Inside the project area
 - Outside the project area
 - Average Farm Size of Beneficiaries
 - Progress of agrarian Reform in the Area
 - Area Eligible for Distribution under CARP
 - Status of Issuance of Emancipation Patents
- Cultivation Area
 - Present Cultivated Area
 - Wet season paddy
 - Dry season paddy
 - Proposed Cultivated Area
 - Wet season paddy
 - Dry season paddy
- Crop Production
 - Present Average Crop Yield
 - Wet season paddy
 - Dry season paddy
 - Anticipated Average Crop Yield
 - Wet season paddy
 - Dry season paddy
 - Present Total Crop Production
 - Wet season paddy
 - Dry season paddy
 - Anticipated Total Crop Production
 - Wet season paddy
 - Dry season paddy
- Farm Budget
 - Average Farm Gate Price
 - Wet season paddy
 - Dry season paddy
 - Present Average Production Cost
 - Wet season paddy
 - Dry season paddy
 - Proposed Crop Production Cost
 - Wet season paddy
 - Dry season paddy

PROJECT ECONOMY AT THE TIME OF F/S

- Project Cost
 - Direct cost
 - Diversion weir including afflux dike
 - Intake
 - Main canals/laterals/sub-laterals with structures
 - Farm ditches with structures
 - Project drains/farm drains with structures
 - Drainage ditches with structures
 - Service roads
 - Land reclamations
 - Project facilities
 - Indirect Cost
 - Access road
 - Flood protection dike
 - Overheads

LIST OF DATA TO BE COLLECTED

Table J-06 (3/6)

Benefit Build-up Period
Project Life Span
Internal Rate of Return

I-2. Data to be collected when D/D is completed

Date when D/D Report was submitted

I-3. INFORMATION OF IA

Name of IA
Date Organized
Date Registered to SEC
Number of IA members

I-4. INFORMATION OF CONTRACT AGREEMENT

Agreement Code No.
Contractor's Name and Address
Agreement Amount
Construction Period

I-5. INFORMATION OF TURNOVER AGREEMENT

Date of turnover
Chargeable cost
Date of Loan Agreement
Repayment Period
Amount of IA Loan
Annual Repayment
Fully paid of 30 % of equity ? (Yes/No)

I-6. INFORMATION OF PROJECT COMPLETION REPORT

Date when Project Completion Report is submitted

II. REHABILITATION PROJECT**II-1. INFORMATION FROM F/S REPORT**

Project History

Date when Final Project Feasibility study Report was submitted

Present Irrigated Area

Wet season

Dry season

Irrigation Area Restored/Generated

Wet season

Dry season

Present Crop Yield

Wet season paddy

Dry season paddy

Proposed Crop Yield

Wet season paddy

Dry season paddy

Rehabilitation/Improvement of Irrigation & Drainage Facilities

Intake Facilities

Estimated Rehabilitation cost

Irrigation Facilities

Length of earth canal to be rehabilitated

Main canals

Lateral canals

Sub-lateral canals

Field ditches

Length of lined canal to be rehabilitated

Main canals

Lateral canals

Sub-lateral canals

Nos. of irrigation structures to be rehabilitated

Estimated rehabilitation cost for irrigation facilities

Drainage Structures

Length of drainage canal to be rehabilitated

Project drain

Farm drains

Drainage ditches

Nos. of drainage facilities to be rehabilitated

Estimated rehabilitation cost for drainage facilities

Roads

Length of Service Road to be Rehabilitated

Length of Access Road to be Rehabilitated

Estimated Rehabilitation Cost for Service Roads

Estimated Rehabilitation Cost for Access Roads

PROJECT ECONOMY AT THE TIME OF F/S

Project Cost

Direct cost

Diversion weir including afflux dike

Intake

Main canals/laterals/sub-laterals with structures

Farm ditches with structures

Project drains/farm drains with structures

Drainage ditches with structures

Service roads

Land reclamations

Project facilities

Indirect Cost

Access road

Flood protection dike

Overheads

Internal Rate of Return

II-2. Data to be collected when D/D is completed

Date when D/D Report was submitted

II-3. INFORMATION OF IA

Name of IA
Date Organized
Date Registered to SEC
Number of IA members

II-4. INFORMATION OF CONTRACT AGREEMENT

Agreement Code No.
Contractor's Name and Address
Agreement Amount
Construction Period

II-5. INFORMATION OF TURNOVER AGREEMENT

Date of turnover
Chargeable cost
Date of Loan Agreement
Repayment Period
Amount of IA Loan
Annual Repayment
Fully paid of 30 % of equity ? (Yes/No)

II-6. INFORMATION OF PROJECT COMPLETION REPORT

Date when Project Completion Report is submitted

LIST OF DATA TO BE COLLECTED

Table J-06 (6/6)

III. ANNUAL DATA COLLECTION AFTER COMPLETION

Cultivated Area

Wet season paddy

Dry season paddy

Production

Wet season paddy

Dry season paddy

Annual O/M Cost

Annual Amortization amount

Numbers of IA Members

FLOW CHART OF PROPOSED SYSTEM

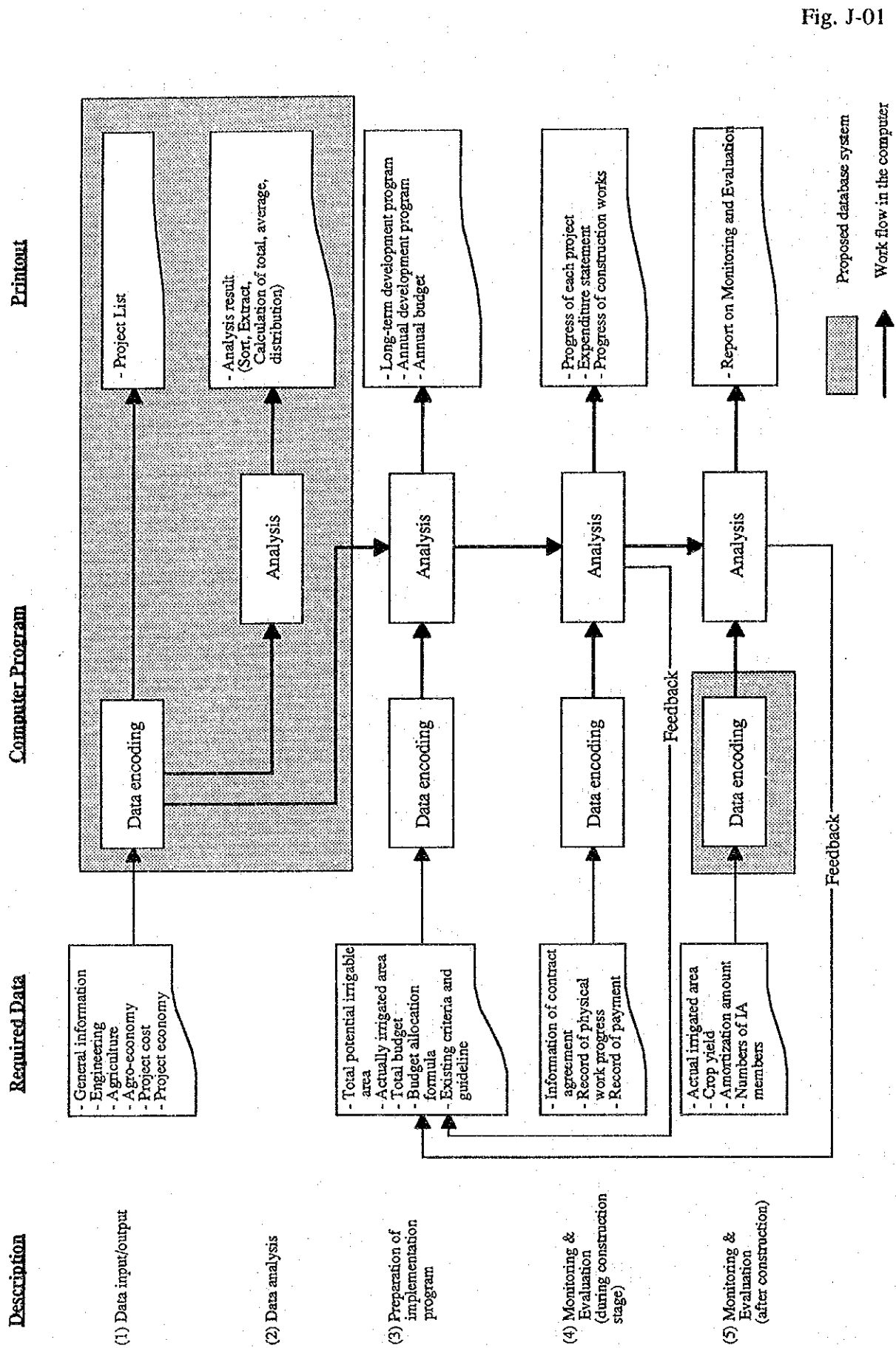
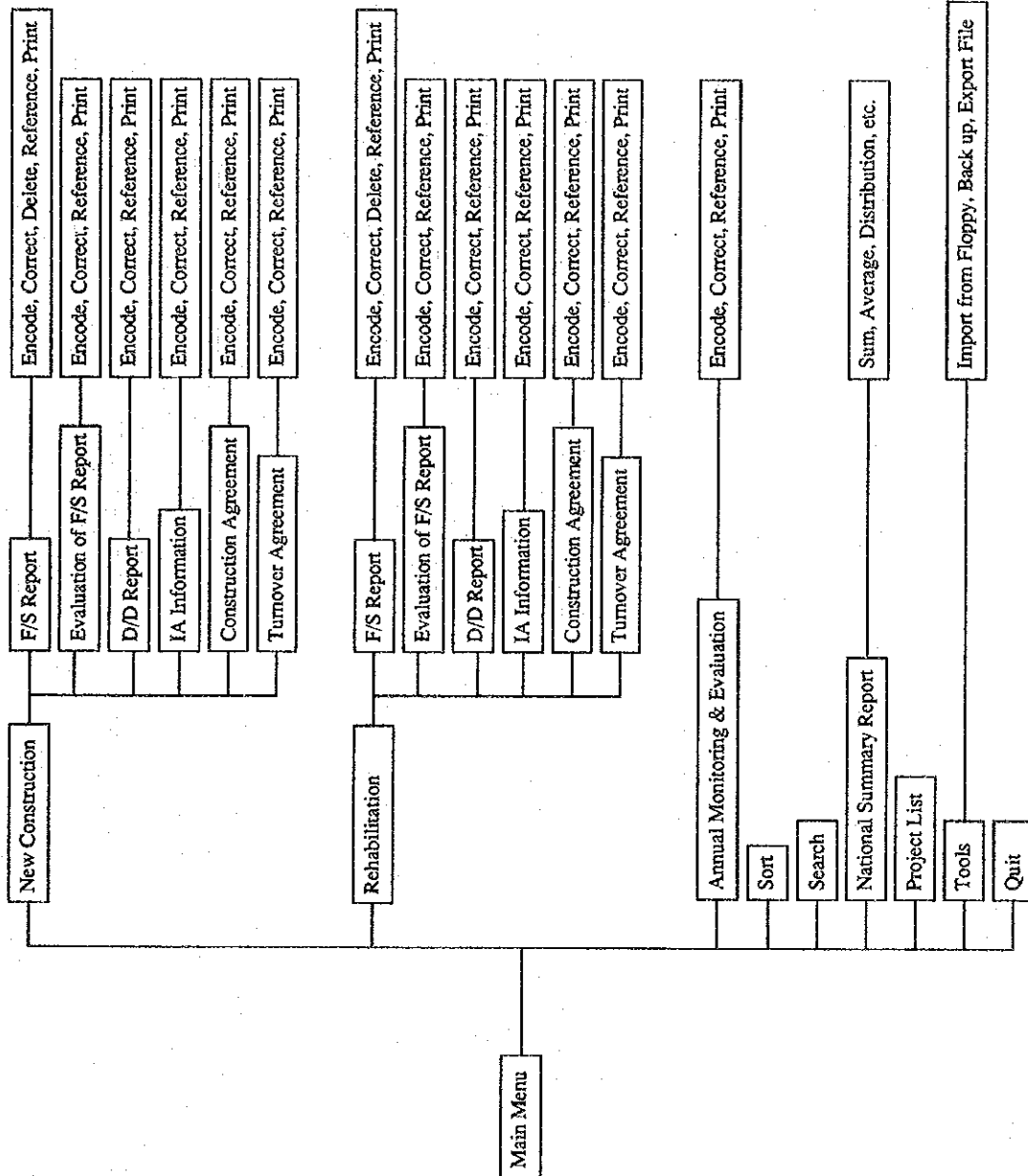


Fig. J-01

DATABASE MANAGEMENT SYSTEM IN SSIDP



JICA