THE REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

THE MASTER PLAN STUDY ON THE SMALL WATER IMPOUNDING MANAGEMENT (SWIM) PROJECTS

ANNEX

MARCH 1990

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)



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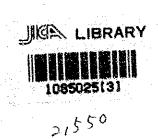
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THE MASTER PLAN STUDY

ON

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ANNEXES

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INVENTORY OF SWIM PROJECTS FOR MASTER PLAN STUDY

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ANNEX A INVENTORY OF SWIM PROJECTS FOR MASTER PLAN STUDY

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ANNEX A INVENTORY OF SWIM PROJECTS FOR MASTER PLAN STUDY

1. INVENTORY OF THE PROPOSED SWIM PROJECTS

The lists of all the SWIM projects which have been identified and/or studied by each agency were collected. The inventory of the SWIM Projects was prepared (see Tables A.1.1 to A.1.2), by grouping into the following two categories:

(1) Candidate projects for the formulation of master plan, and

(2) Candidate projects for the post-evaluation study on the constructed and under-construction projects.

1.1 Candidate Projects for Master Plan

The total number of candidate projects for the formulation of master plan is 501 (see Fig.A.1.1 LOCATION MAP). In terms of implementing agency and present status of the projects; before-feasibility study(Pre-F/S), after-feasibility study(F/S) and detailed design(D/D), the number of the proposed projects is broken down as shown below:

			Pro	sent Stati		t : nos.
Implementing Agency		. .	Pre-F/S	F/S	D/D	Total
DPWH			15	4	14	33
NIA	4		198		15	213
FMB			56		-	56
NEA			14	22	11	47
BSWM					152	152
Total		<u></u>	283	27	191	501

Note: Since FSDC was abolished in January 1988, the projects which has been formerly managed by FSDC are included in the category of DPWH(PMO-SWIM).

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1.2 Candidate Projects for Post-Evaluation Study

The total number of constructed and under-construction projects is 49, of which 32 projects have been constructed (see Fig.A.1.2 LOCATION MAP) and the remaining 17 projects are under construction. These projects are broken down by each implementing agency as shown below:

				Unit : nos.
	Construc	ted	Under	Total
Implementing Agency	Functioning	Damaged	construc- tion	IULAL
DPWH	5	5	2	12
NIA	1	•••	2	3
FMB	3	-	5	8
NEA	2		1	3
BSWM	6	-	4	10
FSDC	10	-	3	1.3
Total	27	5	1.7	49

Note: PMO-SWIM of DA is managing the under-construction projects in place of FSDC.

2. AVAILABLE DATA AND REPORTS

The data and reports relating to the SWIM Projects were collected from each agency. The present status of each project, and the availability of report in each agency are summarized below:

			Uni	t : nos.
		Present Status		
Implementing - Agency	Pre-F/S	F/S	D/D	
DPWH	15 (0)	4 (4)	14 (13)	33 (17)
NIA	198 (1)	-	15 (14)	213 (15)
FMB	56 (15)	~	4 1 7	56 (15)
NEA	14 (10)	22 (22)	11 (11)	47 (43)
BSWM	· •	-	152(145)	152(145)
Total	283 (26)	27 (26)	191(183)	501(235)

Note: Parenthesized figure shows the number of the projects supported with designs and reports.

As seen from the above, the number of "the before F/S projects" is 283, or 56% of all the candidate projects. Of this, only 26 projects are supported with technical reports, and the remaining 257 projects are lacking in sufficient data and information for the master plan study. Considering this fact, the additional survey for 96 "before F/S projects" which are shown below, was made under the JICA Master Plan Study from December 1988 to March 1989.

		Unit: nos.
Implementing Agency	Before F/S Projects without Data nor Reports	Before F/S Projects Surveyed by JICA
DPWH	1.5	10
NIA	197	70
FMB	41	12
NEA	4	4
BSWM	0	0
Total	257	96
		α, ματοφέρει, ματαπολογιατίας της της μητικής ματά αποτοποιού μαρματομογίας της ποτολογιστικός του ματογολοπου Το πολογιστικός το πολογιστικός της της μαρματοίας το πολογιστικός μαρματομογίας το πολογιστικός που ματογολογισ

In addition to the above reports for the projects, the following data relevant to the SWIM Projects were collected:

- (1) Meteo-hydrological data in the Philippines and results of hydrological analysis made in the past nationwide development projects or river basin development projects
- (2) Topographic maps, geological maps, soil maps, of the Philippines
- (3) Statistical data relating to regional/national socio-economy
- (4) Design criteria and other technical guidelines used by each agency

3. CANDIDATE PROJECTS FOR THE STUDY

3.1 Candidate Projects for the Master Plan Study

The number of projects proposed by SWIM-TWG is 501, which include all the SWIM projects proposed by each agency. During the course of the Study, all the projects are dealt with as candidate projects for the Study.

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3.2 Candidate Projects for the Post-evaluation Study

The number of completed and under-construction projects is 49 in total. Of these only completed projects were taken up for post-evaluation study. The number of the constructed projects is 32, and their location is shown in Fig.A.1.2. In order to select the projects for post-evaluation study, the following factors were taken into consideration:

- Implementing agency (a)
- Location (Region) (b)
- Scale of dam (c)
- Purpose of the project (d)
- Present condition (function, damaged or washed out) (e)
- Availability of the existing data (f)
- Security in and around the project site (g)

After thorough the examination of each project, 10 completed projects were selected as tabulated below:

No.	Project Name	Agency	Region Condition	Present
1.	Ilihan SWIP	NIA	VII	functioning
2.	Darapidap SWIP	BSWM	II	functioning
3.	Malinao SWIP	BSWM	VIII	functioning
4.	Pasig Timbu Watershed	FMB	III	functioning
5.	Mantayupan Falls SWIP	NEA	VII	functioning
6.	Bacnotan SWIP	FSDC	I	functioning
7.	Porac Dam	DPWH	III	washed out
8.	Kirong Dam	DPWH	III	damaged
9.	San Ramon Dam	DPWH	III	functioning
10.	Calanggaman SWIP	DPWH	VII	functioning

CLASSIFICATION OF CANDIDATE SWIM PROJECTS 4.

4.1 Method of Data Arrangement

The fundamental basic data of 501 candidate SWIM projects were selected from the existing relevant reports and designs and arranged for the further study, according to the following steps:

- A-4 -

- (1) to prepare a "Project Format" (see Fig.A.4.1),
 - (2) to fill up the "Project Format", by transferring the data and information from the existing reports, and
 - (3) to computerize the said data and information of the "Project Format" and to constitute database.

Some essential data of the projects are shown in Table A.1.1. The candidate SWIM projects were classified into groups by various categories. The results are shown hereunder.

4.2 Classification by Implementing Agency

As mentioned in the previous section, total number of proposed SWIM projects is 501, of which 331 projects including 96 projects which had been additionally surveyed, are supported with data and/or reports. Those projects are classified by each implementing agency and by project status as shown below:

and the second second					
	Prese				
Implementing Agency	Pre-F/S	F/S	D/D	Total	
DPWH	15 (10)	4 (4)	14 (13)	33 (27)	
NIA	198 (71)	**	15 (14)	213 (85)	
FMB	56 (27)	-	-	56 (27)	
NEA	14 (14)	22 (22)	11 (11)	47 (47)	
BSWM		-	152(145)	152(145)	
Total	283(122)	26 (26)	192(183)	501(331)	

Unit ; nos.

Note: Parenthesized figure shows the number of the projects supported with designs and reports.

NIA has the largest number of projects, followed by BSWM, FMB, NEA and DPWH.

4.3 Classification by Region

All the proposed SWIM projects are classified by their located region

- A-5 -

as shown below (see also Fig.A.4.2):

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Implement. Agency	I	II	CAR.	III	IV	V	VI	VII	VIII	IX	X	XI	XII	Total
DFWH	6	5	1	3	5	2	2	1	2	1	-	2	3	33
NIA	19		11	30	8	35	1	59	26	2	13	•	9	213
FMB	8	10	-	7	12	2	1	3	3 1	4	2	2	2	56
NEA	5	1	-	6	8	11	3	б	3		-	2	2	47
BSWM	25	28	6	17	5	5	8	13	10	7	10	9	9	1.52
IOFAL	63	44	18	63	38	55	15	82	44	14	25	15	25	501
<u></u>						,								

Unit : nos.

Although the SWIM projects are distributed to all the regions, their distribution is not always well-balanced. The distribution density of the projects, which is calculated by dividing the number of the projects by the land area of each region, is higher in the regions V, VII, VIII and the regions of the Luzon island, as shown below.

Region	Area (km ²)	Number of Project (Nos.)	Project Density (Nos./1,000km ²		
I	21,568	63 (55)	2.9 (2.6)		
ĪĪ	36,403	62 (43)	1.7 (1.2)		
111	18,231	63 (41)	3.5 (2.2)		
IV	46,924	38 (25)	0.8 (0.5)		
V	17.632	55 (33)	3.1 (1.9)		
VI	20,223	15 (14)	0.7 (0.7)		
VII	14,951	82 (50)	5.5 (3.3)		
VIII	21,432	44 (21)	2.1 (1.0)		
IX	18,685	14 (9)	0.7 (0.5)		
X	28,328	25 (11)	0.9 (0.4)		
XI	31,693	15 (14)	0.5 (0.4)		
XII	23,293	25 (15)	1.1 (0.6)		
TOTAL	299,363	501(331)	1.7 (1.1)		

Note: (1) The figures in parenthesis indicate the projects currently supported by the studies and designs. (2) CAR. Region is included in Region II.

The total number of the projects, presently supported with the existing studies and designs is 331, and those projects are distributed to each region as shown below (see also Fig.A.4.2):

					•							Unit	: : nc	s.
					R e	e g	i	0	n			****		
Implement Agency		IL	CAR.	111	IV	۷	VI	VII	VIII	IX	X	XI	XII	Total
DFWH	6	3	1	3	5	2	1	0	2	0	0	1	3	27
NIA	15	0	0	11	3	<u>1</u> 4	1	34	б	1	0	0	0	85
FMB	5	4	0	4	5	1	1	1	1	1	1	2	1	27
NEA	5	1	0	6	8	11	3	6	3	0	0	2	2	47
BSWM	24	28	6	17	4	5	8	9	9	7	10	9	9	145
TOTAL	55	36	7	41	25	33	14	50	21	9	11	14	15	331

The distribution pattern of these projects is almost the same as that of all projects.

Further classification of the projects will be made only for those 331 projects which have the existing studies and designs.

4.4 Classification by Development Purposes

The projects are classified by their development purposes. Of 331 projects, 48 are single purpose projects, and the rest or 282 projects are multi-purpose oriented as shown below (see also Fig.A.4.2):

Unit : nos.

77		Incidental Purpose									
Implement. Agency	IR	W	MH	WS	TOTAL	R	ĩF	FC	WM	MH	WS
DPWH	24(-)		2()	1(-)	27 (-)	1	15	27	-	7	2
NIA	85(-)		<u> </u>		85 (-)	-	14	85	-	9	1
FMB	1	27(-)	-	-	27 (-)			27	~	-	⊷
NEA	, "		47(47)		47(47)	·			~		
BSWM	144(-)				145 (1)		142	142	144		
TOTAL	253(-)	27(-)	49(47)	2(1)	331(48)	1	171	281	144	16	3

Note: IR: Irrigation; WM: Watershed management; IF: Inland fishery; Mf: Mini-hydro power; WS: Water supply;

Parenthesized figures show the number of single purpose projects.

All the projects proposed by NEA are single purpose (mini-hydropower), while almost all of the other projects are multi-purpose ones.

The projects proposed by NIA and BSWM are primarily geared to irrigation. The projects proposed by DPWH have also irrigation purpose; however, some projects have other main purposes such as mini-hydropower generation and water supply. The projects proposed by FMB are only for watershed management.

Flood control is the largest incidental purpose of the SWIM projects, irrespective of the implementing agencies. Other incidental purposes are; for DPWH, inland fishery, mini-hydropower and water supply; for NIA, inland fishery, mini-hydropower and water supply; for BSWM, inland fishery and watershed development.

4.5 Classification by Catchment Area

The projects are classified by the catchment areas at the proposed damsites as shown below (see also Fig.A.4.2):

Unit : nos.

			. (Cato	c h m (ent	Ar	еа	(km²)			· Total
Agency	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	>100	Unknown*	
DPWH	14	7	2	3	1	0	0	0	0	0	0	0	27
NIA	45	15	13	6	1	. 0	2	1	0	Ó	2	0	85
FMB	-	-	-	-	**	470	-	~	~	-		27	27
NEA	11	9	5	4	5	2	1	0	0	1	₹7	2	47
BSWM	144	0	0	0	0	0	0	0	0	0	0	1	145
TOTAL	214	31	20	13	7	2	3	1	0	1	9	30	331

Note: * no data available or not studied.

Most of the dams have small catchment areas in the range of 0.1km^2 and 50km^2 ; especially, all the BSWM projects have smallest group of the dams with the catchment area of less than 10km^2 .

4.6 Classification by Dam Height

The projects are also classified by structural height of the dams as shown below (see also Fig.A.4.2):

Unit	:	nos	
------	---	-----	--

Agency	0-5 5-10 10-15 15-20 20-25 25-30 30-35 Unknown*										
	0-5	5-10	10-15	15-20	20-25	25-30	30-35	Unknown*			
DPWH	0	1	6	10	7	3	0	0	27		
NIA	2	8	. 8	4	21	38	4	0	85		
FMB	0	0	0	0	0	0	0	27	27		
NEA	39	0	1	0	0	0	0	7	47		
BSWM	3	58	76	7.5	0	0	0	1	145		
TOTAL	44	67	91	21	28	41	4	35	331		

Note: * no data available or not studied.

The SWIM projects are defined as those dams with the structural height of less than 30m. However, in the case of some projects proposed by NIA, dam height exceeds this limit.

Almost all the projects proposed by NEA have low dams with the height of below 5m. The dam height of the BSWM projects are in the range of 5m and 15m, while those of DPWH projects are between 10m and 30m. The NIA dams are distributed in rather wide range of 10m and 35m. FMB projects are not classified with dam height, since their proposed projects facilities are only check dams and other structures.

4.7 Classification by Storage Capacity

The SWIM projects is also defined in terms of storage capacity as "those with storage capacity not exceeding 50 MCM". The following shows the classification of the projects by the storage capacity (see also Fig.A.4.2).

- A-9 -

			St	ora	ge	Ca	pac	ity	(10	⁶ m ³)	ر 		Total	
Agency	0-1	1-2	2-3	3-4	45	5-6	67	7~8	8-9	9-10	>10	Unknown*		
				0	1	0	1	0	0	0	1	0	27	
DPWH	16	1	1	ć	<u>د</u>	2	3	3	0	1	5	0	85	
NIA	28	19	13	6	Э	4	5		v	-		27	27	·
FMB		-	-		**		-		**				1.7	нон 1
NEA		-		-	-	-	-		· -	** .	1 4 5	47	47	
BSWM	140	1	0	0	0	0	0	0	0	0	.0		145	
Total	184	27	14	6	б	2	4	3	0	1	6	78	331	

Unit : nos.

Unit : nos.

Note: * no data available or not studied.

The storage capacity of the candidate projects is generally small, indicating below 4MCM. NEA has proposed the weir type dams which have no storage capacity. The largest storage capacity among the proposed projects is 32.7MCM of the Bayawan Communal Irrigation Project by NIA.

4.8 Classification by Embankment Volume

The embankment volume of the SWIM projects are rather small; almost all dams (97%) have embankment volume of less than $300,000m^3$ as shown below (see also Fig.A.4.2). The largest embankment volume among the proposed projects is about 2.0 x 10^6m^3 of the Aulo River SWIP proposed by DPWH.

_			Ea	ıban	ıkme	nt	V o 1.	u m e	(10 ⁶	
Agency	0-0.1	-0.2	-0.3	-0.4	-0.5	-0.6	-0.7	-0,8	~0.9	-1.0 >1.0 Unknown*
DPWH	12	11	3	0	0	0	0	0	0	0 1 0 27
NIA	43	27	8	4	2	1	0	0	0	0 0 85
FMB	-	~	-	-	-	-	-	~		27 27
NEA	-	**	-1	-		***	-	-	-	47 47
BSWM	138	1	0	0	- 0	0	0	0	0	0 0 6 145
Total	193	39	11	4	2	1	0	0	0	0 1 80 331

Note: * no data available or not studied.

4.9 Classification by Development Scale

The proposed SWIM projects are also classified by irrigation area and installed capacity for mini-hydropower as indicators of their development scale.

(1) Irrigation Area

Irrigation is one of the important major purposes in the SWIM projects proposed by DPWH, NIA and BSWM. However, its development scale varies project by project as well as agency by agency. Proposed irrigation area in each agency is summarized below:

	Irrigation Area (ha)									
Agency	Average	Minimum	Maximum							
DPWH	277	21	1,000							
NIA	411	5	3,000							
BSWM	79	10	530							

The proposed projects are classified by irrigation area as presented below:

Unit : nos.

Irrigation Area (ha)									Potol		
0-100	-200	- 300	-400	~500	-600	-700	-800	-900	-1,000	>1,000	Total
7	8	2	0	4	2	0	1	0	1	0	25
20	20	13	6	8	4	. 1	2	1	2	8	85
124	16	2	1	0	1	0	0	0	0	0	144
151	44	17	7	12	7	1	3	1	3	8	254
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(2) Installed Capacity

DPWH, NIA and NEA have proposed mini-hydropower generation in their

projects as one of development purposes. Proposed installed capacity by each agency is as shown below:

		Installed Capacity	(kW)
Agency	Average	Minimum	Maximum
DPWH	260	90	600
NIA	307	165	520
NEA	1,790	500	8,520

The installed capacity of the proposed projects is distributed as follows:

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Agency	0-200	-500	-1000	-1500	~2000	-2500	-3000	-3500	-4000	-4500	5000	>5000	- Iotal
DPWH	5	3	1	0	0	0	0	0	0	0	0	0	9
NIA	3	5	1	0	0	0	0	0	0	Ô	0	0	9
NEA	0	1	18	7	9	5	2	2	0	0	1	2	47
Total	8	9	20	7	9	5	2	2	. 0	0	1	2	65
										i na se		· · · · · · · · · · · · · · · · · · ·	

5. GENERAL FEATURES OF SWIM PROJECTS PROPOSED BY EACH AGENCY

General Features of the SWIM projects proposed by each agency are outlined hereunder (refer to Table A.1.1).

5.1 SWIM Projects Proposed by DPWH

The DPWH projects aim at uplifting the public welfare in rural areas, centering on the construction of small water impounding reservoirs in their development plans. Reflecting this basic policy, the DPWH projects are generally of multi-purposes nature, and include various activities in their development plans which are suitable to the areas and will accelerate the rural economy.

The proposed dams is of medium scale like those of NIA, with the average dam height of 20m. The development scale of irrigation and minihydropower plans is also medium as compared with those projects proposed by NIA and NEA. Inland fishery is included in most of the proposed projects. The main feature of the DPWH projects are summarized as follows:

Item	Range	Average		
Dam Type Zoned	Earthfill of	reservoir type		
Dam Height(m)	10-29	20		
Storage Capacity(MCM)	0.2-11	2.2		
Irrigation Area(ha)	21-1,000	370		
Install Capacity(kW)	90-900	260		
Inland Fishery(ton/year)	10-1,470	460		

Direct benefits are expected not only from main purposes, but also from incidental purposes except for flood control, because direct benefit from flood control is very nominal in consideration of small-scale reservoir capacity. Indirect benefits such as flood control, cost savings in health services, raising the income level of the farmers, recreational value of the dam, etc. are considered in formulation of the projects.

5.2 SWIM Projects Proposed by NIA

The NIA projects are mainly formulated as irrigation development projects to supply dependable water to the existing communal irrigation systems (CIS) and communal irrigation projects (CIP). Incidental purposes such as mini-hydropower and inland fisheries are included in some projects. The CIS and CIP are generally defined as follows:

- A-13 -

38	Status
محمدة والمتشمسيين	
ha ha	existing system before implementation

NIA has implemented CIS and formulated CIP so far in the whole Philippines by their own funds. Total irrigation service area covered by CIS is 709,000 ha which corresponds to 47 χ of total irrigation service area, 1,524,000 ha, in the Philippines as of December 1987. Due to lack of regulating facilities upstream of service areas, all CIS suffer from shortage of irrigation water especially in the dry season. Under such situation, the SWIM projects are expected to be countermeasures for such problems by creating new water resources for the CIS and CIP.

The NIA projects are characterized as comparatively large-scale projects. The main feature of the projects are summarized as follows:

Item	Range	Average
Dam Type	Zoned earthfill of	reservoir type
Dam Height(m)	2 - 33	24
Storage Capacity(MCM)	0.01 - 33	3.2
Irrigation Area(ha)	5 - 3,000	410
Installed capacity(kW)	165-520	310

5.3 SWIM Projects Proposed by FMB

The purpose of FMB projects is watershed management accompanied by the incidental purpose of flood control.

Forest area in the Philippines is about 15.9 million hectares which corresponds to 53% of whole the country area. The forest area of 6.5 million hectares have been denuded by felling, shifting cultivation and forest fire. The Government of Philippines has promoted the reforestation projects and the conservation works for proper maintenance of the watersheds through the SWIM program on a long-term basis.

The SWIM projects proposed by FMB mainly consist of three (3) measures; (i) engineering measure, (ii) vegetation measure, and (iii) the combination of these two measures (it is called vengineering measures). Engineering measures comprise the construction of infrastructures such as check dams, terraces, ripraps, etc., aiming at conserving soil, water, and forest resources. Vegetative measure means the reforestation works for the denuded areas in the watersheds.

The projects are implemented under the direct management of FMB. During the course of the implementation of projects, FMB employs the local people as labor force, giving them income generating opportunity.

The FMB are expected to generate following benefits.

- (1) Flood mitigation
- (2) Erosion control in the watershed
- (3) Mitigating the fluctuation of river bed (sedimentation and scouring)
- (4) Enforcement of water holding capacity in the watershed.

However, any direct benefit is not counted in the FMB projects, since such benefits are hard to quantify.

5.4 SWIM Projects Proposed by NEA

The NEA projects are formulated with a single purpose of minihydropower generation. The main features of the NEA projects are summarized as follows:

Item	Range	Average
Type of Dam	Concrete weir of r	
 Installed Capacity	(kW) not more than 5,0	00kW 1,800
Gross Head(m)	3-280	103

All the projects are of run-of-river type, not regulating the natural river flow by reservoir. The main component of the project facilities are as follows:

- (1) Concrete weir and intake structure
- (2) Power tunnel and forebay
- (3) Surge-tank and penstock
- (4) Power house and power plant
- (5) Tailrace

Substation and transmission line are not included in the project components.

After the completion of the projects, all facilities are transferred to the Electrical Cooperatives who amortize the investment cost to NEA. The Cooperatives make O&M of the projects and supply electricity to the surrounding rural areas.

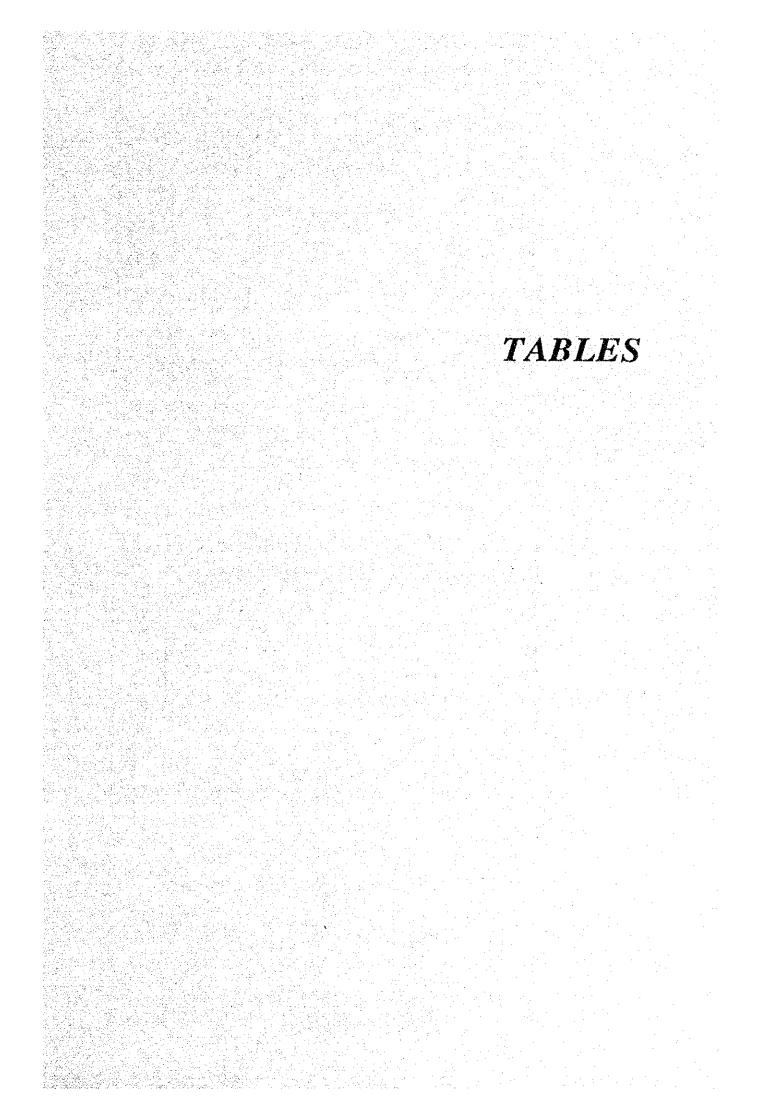
5.5 SWIM Projects Proposed by BSWM

The BSWM projects aim at small scale agricultural development in small river basins. The BSWM projects are conceived directly to serve the farmers who live in the small river basins and have not benefited from irrigation so far and are left behind economically. Various activities which are suitable to the areas and will accelerate the rural economy, are included in their development plans. The BSWM projects are therefore multi-purpose oriented centering on the small scale irrigation development. The main features of the BSWM projects are summarized as follows:

Item		Range		Average
Dam Type	Homogeneous	earthfill of	reservoir	type
Dam Height (m)		0.5-19	1	10°
Storage Capacity	(MCM)	0.01-1.1		0.2
Irrigation Area (ha)	10-530		80
Inland Fisheries	(ton/year)	0.6-32		7
Watershed Develop	ment (ha)	12-690	· .	100

The BSWM projects has incidental purpose of watershed development which will give another income-generating opportunity to the occupants already settled in the watershed areas as well as the re-settlers from the prospective reservoir areas.

- A-17 -



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Table A.1.1 Inventory of Candidate SWIM Projects (1/10) DPWH - DPWH -

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Table A.1.1 Inventory of Candidate SWIM Projects (4/10) - NIA No.3 -

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	FOUTING	PROJECT 2 STATUS P	MAIN INCIDENTAL REPOSE FREPOSE FUEDOSES (mm)	INCLIDENTAL REPORT ADVENTAL INCLIDENTAL REPORT RADVEALL	(mn) (zm)		AREA STC (Im2) CAPA	AREA STORAGE WOTT AREA STORAGE WOTT (m2) CREWITY AREA (m3) (ha)	VOIR HEIGHT MEA (m) (he)	1	1		INSTALLED KEROLES CAPACITY TATTON (KU) AREA (Da)	1 (A A A A A A A A A A A A A A A A A A	SUPPLY FIRE CAPACITY PEODUCTION (m3/day) (tom)	1. A 1. A 1.	140)151 (Sesse)	TOTAL Second	ЩĘ
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166	7 SIQUIUR	Recornis		с		1	ý			-d -				р, д.	j d	1 1 1 1	р ц	n d	บ่ ' ส่
	8 EASTERN SAMAR	Recordis		f.			л.d,				_	ц.с.			ц ц	а. 1	-p-u	d	ช่ ๆ ส่
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16	S ENSTERN SAMAR	Recomplia		G			บ๋					ง ที่		0	d d	ы . п	р с	ម ។ ៨	03 1
UTO NIA 170 GUIDIANCAN CUP	8 EASTERN SAMAR	Recornais		F			ġ.			5. 1. 1.		-p-d		, р-ц	ц ц		р ц	d N	0 1 1
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173 NIA 173 LANCE-CASCROT CUP	EAST PROV	Reconnais		ឆ !	อุ่า ม			•		ц, ц,		มี		ย น	0 1 1	1 1 1	d d	d i d i	
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179 NEA 179 MACAGTAS SHIP	8 NUCLEUR SAVAR	Keccora		н , ,		•	j n d n						•	, r.	1			j T	j e J e
160 NIA 180 CALUTAN SHIP	8 NUCLEUR SWAK	RECORDEDS												i n i n		- - -			i r
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Table A.1.1 Inventory of Candidate SWIM Projects (6/10) 1 99423 1

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12 NEA 12 MARCH RIVER	RUVER	4 CUEZON	FIS	X		n.d.	3,306	2	0	Ś	o	0	1,280	0	0	000"982"61 0	÷.,	ਬਾਰੀ ਡਾਰੇ	τġ.
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14 NEA 14 TICHAN RIVER	RIVER	5 CAMADRES STR	2/2	뜇		n.d.	2, 338	Q	0 0	٢J	Ó	0	2,400	0	o	0 22,166,000			ψ
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Z VEV	RANAGAS RIVER	5 CRARLINES SIAK		Đ			,	"	> < > <	<u>,</u> ,) (, ,	2021-7	> <	.	000 236 76 0			1 -
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32 NEA 32 CALD F	CALD REVER # 3	7 NEGROS CREENIN	F/S	¥			2,582	*	0	4	0	0	1,280	0	ġ		:		đ -
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37 NEA 37 PANAL	3/ PARALILL KLVEN SALF		Succession of the	89				: 5) C	it	, c	<i>.</i>	- COR	• c					-
30 NEA 30 VARTAGONA ELVER SALL 20 NEA 30 VARTAGONA ELVER SALL	AS INVERSION FUT STATE	A CONTRADA L'ENTRE	Romments				1	10) ()) ()	5	. 0	0	810	00	. 0	00 17.130,000		÷.	1
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43 NEA 43 XANAP	CONS STIVE NVANANANX	ALL LANNO DEL SUR	Recorners.	s. H		n.d.		8	• •	n.d.	0	0	3,000	0	o				÷.
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45 NEV 45 BONGAN	BONGABON RIVER SHIP	9 CRIENTAL MUNDOO Pre-7/S	O Pre-P/S	믯				ଞ	0	in i	2,470	©	8.520 	0	0	n.	φ.		\sim
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No. ATENCY PROJECT NAME	REFLOW PROVINCE	PROJECT	NT N		NNELAL ~	ANNAL O		STORAGE V	NOTE RECORD	- 12	BRANCENT IRIL- VOLDE GATION		CAPACITY IN	REFORES-	X1111	NUMA PISE	FROTECT	TATOT	Ĕ
No.		STATUS	PURPOSE		(HII)				AREA (III) (ha)					-	N	(non)	(sosal)	(sosad) LLIANZI	8
1. RSAM 1. SUCSUQUEN SATE	1 TLOODS NORTE	F/S(1983),D/D	Ŕ		530	1.903	11	156.662	4			8	.0	8	•	*	1.346.000	579.000	5.14
64 i	T LICCOS SUR	F/S(1583) D/D	ដ	Ю. Т. M	124	2,335	0.7	166,048	4	34	52,000	5	c	63	0	Ŷ	2,516,000	1,100,000	
S ESSAM 3 GLO-ULO IL SALP		F/S(1983),D/D	ei (442	2,336	0.7	68,549	rl I	.	÷	ន	0	8	ð	e1 -	1.827,000	1.470,000	
A DOWN A DOWNSOON ONLY A DOMN A SAN TRICTIDAAT CUTD		C/C (cocr)els	ž P		2	2,336	4 1	165,025	m ç	8	46,002 ·	8	0	ដ	0 0	ค.	1.224,000	587 000	ុ ដ
9 10	TIANS NEED	FISCIERAL DID	ŧe		104	500 F	6 F C	264°42	3 "	4 6	, 20,000 20,000	З °	> c	d P	а с	1 -	1.530,000	000 909 7.	2775
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8	I PANJASTNAN	did reactists	i pi		e de la	2.775		252 070	م د	4 5		₹§	- c	4 <u>6</u>	5 ¢	d «	000 USE 6	000 200 4	38
0	1 PANCASTNAN	F/S(1983) D/D	1 ₽		1057	246 0		102 205	- 5	1 -		3 ¥	, ,	<u></u>	> c	5 V	2001-001-2	100 VA	
9	1 PANTASINAN	F/S(1983) (D/D	i⊭		123	222		526 19	4 ~	. α		2 <i>Ş</i>	- c	9 ¢	э с	1 X	DOC PAL		9 6 9 6
BSA	TILCOS NORTE	F/S(1983).D/D	i fi		708-1	8.	10	202 032	10	ې د	8.8	3 5	> c] ș	> c	34	1 633 000		
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SSEM 13	I TLOOMS NOT	F/S(1983) D/D	ie		967 .	505.1	4.0	100 La	t (*	2		۶¢	- c	8 8	> c	16	100 Year		
Ä	1 PARASDWN	F/S(1983) D/D	i Pi	50 TF 40	647	2.275	- C	150 683	•	i ș	12,000	3 5		ន្ទ	,	י ר ר	1 378 000	102 840	
	1 PANTASINAN	D/D. (5891)2/3	ផ	FC TF VD	1.748	2.275	2.0	160 978	• •	15	56 BOO	3 5) c	ġ Ş	o c	• 4	1 967,000		
BSWM 16	1 PANCASINAN	F/S(1983) D/D	ß	FC. TF. UD	587	2.275	0.7	120	10	} ~	13.375	3 ¥	С	ទទ	• C	1 11	965,000	2 232 000	13
LT WISE	1 PACASDAS	CISC19820.212	£	FC TF WD	837	2.275	0.6	329.656	1 4	14	77. BOO	8 5	, c	9 C	, c	יע	000 199 1	2 439 000	
19	1 PANCASINAN	D/D, (5821)2/3	É	101 D	828	2.275	2.6	169.869	t va	101	23.500	2 00	• c	127	à		1.396.000	6 497,000	
OT WASE	1 PANCASINAN	F/S(1953).D/D	ផ	R. T. W.	825	2.275	9.0 0	167,670	ন	10	18.600	2	۰c	8			1 155,000	3 347,000	
ล	1 TLOODS NORTE	E/S(1986).D/D	ផ	N.H.N	614	1.903	3.0	446.635	9	ង		2	. 0	296	0	. 11	2.586.000		14.5
N ISS	TILOOS NORTE	U/O. (2821)S/T	e	50. IL 10	396	1.903	9.0	126.887	3	ង	_	ន	ġ	6	0	-1	1.960.000		0 24.0
22 BSIM 22 CHARGEINGALAN #2 SATP	1 PANCASINAN	T/S, D/D	ដ	PC. IF. WD	n.d.	n.d.	ה.ל.	n d.	nd. n	ъ.	n d. n	ą	ъ.d.	d d	л.d.	n.d.	ц ц	Ъ Ц	d d
23 BSAM 23 DAODIONG IT SATE	1 TLOCOS NURTE	F/S(1987) D/D	(연 -	R, FF, MD	403	1,903	0 .5	99,278	2	14	30,800	শ্ব	0	8	0		2,571,000	1,187,000	20.3
24 BSAM ZA SAN ANDRES SAID	I TLOODS NORTE	G/G. (7861) S/3	a	R. E.W	408	1,903	77	105,048	0	316		4	0	109	0		3,187,000	000"165	0 24.3
BSIM 25	T TICCOS NORTE	a/a. (7891)2/3	Ħ	12.11.12	207	1.903	ц ц	212,100	ŝ	ង	• •	8	ø	100	n		2,550,000	1.946.000	8 8 0
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BSIM 27	CAR. AZKA		ei I		465	2,365	0.7	192,277	~	Ť		ຊຸ	0	8 i	0	. 19	3,462,000		នុ នុ
28 BSM 28 HACARCARAY SUL	CAR. ABEA	0/0" (896T)S/2	¥ f		8	2,300	2 V 2 V	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	-1 -	-4 -	201,200	នរ្	• •	ž d		- 	2,487,000	000°039°T	
	2 NUTEVA VISCAVA	T/S(1983)_D(D	s e		1.047	2.033	6.0	107 242	4 6	+ <u>P</u>		3 8	, C	۶ x	9 0	• •		•	3 5
TE HASE	2 ISABELA		ផ	FC IF VD	1.391	2.038	1.8	24. 20	ម	~	•	2	• •	168	Ó	' 71	000, 612, 1	-	0 43
ESHM 32	2 ISARFLA	E/S(1983) D/D	Ĕ	0. H N	1,068	2,033	0.3	66, 526	m	. с ъ		ន		8	Ģ		813,000	<u> </u>	22
Wish	2 CNEAYAN	T/S(1983), D/D	ß	10° 10° 10°	832	1,746	6-1	371,049	හ	ส		8	0	11	Ö	Ť	5 2,651,000	स्ते	20
St BSAM 34 DIADI SWIP	2 NUEVA VIZCAYA	C/C'(CBST)S/A	Ħ	N. H. N	1,000	2,038	5.6	111.14	4	సి		3	0	553	0		7 1.863,000		22
35 BSAM 35 NACANACAN SHIP	Z ISABELA	E/S(1983),D/D	Ħ	см, н. ¹ 2	842	1,745	3.1	167,451	œ.	ជ		8	0	305	÷	គ	0 2,034,000	2.0	200
WHISH	2 NUEVA VIZCAYA	T/S(1981)2/3	۴.	0, H, N	7.014	2,038	3.4	I7,453	N	ø		ង	0	342	O		4 810.000		ii R
BSHY		E/S(1983),D/D	e (608	1,746	9.0	193,684	4	ជៈ		8	ō ·	ጽ	о .	:	6 1,948,000		2 8
36 ISSM 38 KINANC SAID	2 NUEVA VIZCAYA	a/a, (5991)2/3	ម	9. H. H. H. H. H. H. H. H. H. H. H. H. H.	88	2,038	0	46,768	~ ~	۹'	-	ន្តរ	0	3!	0		88°80	ei.	ន ៖ ស៊ី ខ្
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÷.	2 TSANTA	TIS(1983) D/D	f	50. TF. 4D	955	2.038	0.8	373,000	1	ដ	21.000	8	ò	8	. 0	•.	7 1 233 000		8
12	2 CAGAYAN CLAVERIA	D/D, (5961)S/3	e	5. T. 10	1.374	2.215	7 "0	79,576	N	ដ	32.300	ន	0	4	0	•	3 1.691.000		8
	VIEWSI 2	- F/S(1983), D/D	Ħ	11. W. W.	883	2,038	1.4	290,838	ង	~	31,800	%	0	398	0	*1	3_3,501,000	ณ์	200
. L	2 (2012.020)	T/C. (3901)2/3	Ħ	B, H, B	1,056	2,038	0.5	102.550	ei	ដ	00°,21	640	o	5	• •		4 1,334,000	0 1,510,000	8
THE SCORM HIS LY WESE LT	2 quinno	0/0" (985T)S/3	ei	民首品	1,089	2,038	0.8	20,111	ः -इ	ส	30,000	R	Ģ	2			5 2,254,000	9	
41 BON 48 SAN FRANCISCO SUIP	2 QUIRINO	d/d" (LDGT)S/3	fi	6.8.2	2,963	2,038	1.2	331,700	ព	8	28,000	8	0	Â	5		14 1,800,000	5	1.1
	Z ISAREA	F/S(1986),D/D	ផ	12 12 12	1,012	2,038	0.2	58, 0%0	s 1	F	4,333	ม	0	8	0		3 621,000	10	5.05
- WARSH	2 ISABELA	T/S(1586), D/D	Ħ (- 1.01 4	2,038	0°0	8	<u>6</u>	Ħ.	18,000	ន	0	8			2,019,02	년 : 고 :	5
THE SE	ZEWE		¥ 1		ŝ	20.2		713, 200)) :	នា :	000	2	0	8			7. 1,040,000	,	No. 10
A SA	Z ISARZA	r/s(1986), D/D	1 I		R 1	89 59 51 59	2.0	365,773	2	*	46,000	ଛ ।	0	8			2, 3,24,0 1	, î	<u>8</u> 1
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		ala" (oper)ela	4	14.5	1.4	3	2.2	5	2	4	5	q	9	ь			N.:70 D		13

Table A.I.1 Inventory of Candidate SWIM Projects (8/10) - BSWM No.1 -

- A-25 -

No. STATE Col. Col. Mile STATE Col. Mile	Cuentry NES (m) (mu) (mu) (mu) (mu) (mu) (mu) (mu) (mu)		8 (a) (b) (c) (c) (c) (c) (c) (c) (c) (c		05NV0900000000000000000000000	10-10-10-10-10-10-10-10-10-10-10-10-10-1	਼ ਜਦ ਦ	
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 K.K. S. AUGUNG, SUT. <	๛๛๚๛๛฿๚๛๛๚๚๛๛๚ฃ๛๛๛ฃ๛๛๛๚ ๛๛๛๛๛฿๚๛๛๚๚๛๛๛ฃ๛๛๛๚๛๛๚ ๛		៹ ន	N	。岁别发影比密名多名多发发发体为发产的方; a c c c c c c c c c c c c c c c c c c c	ᇰᆮᆱ៷៷៰ឣៜ៰ឨឣ៹៷៹៷៱៵ឨ ៲៓៹៹៹៳៹៹៲៹៹៹៹៹៹៹៹៹៹	लेल ले	of the second
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Sain Projects (9/10)

- BSHM No.2 -

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Inventory of Candidate SWIM Projects (10/10) Table A.1.1

- BSWM No.3 -

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11 10 <td< td=""><td>Mark H1 Mark H1</td><td></td><td>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</td><td>2, 130 , 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,</td><td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>๏ํ๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛</td><td>16,800 17,200 17,200 17,200 17,200 11,400 11,400 11,400 11,400 11,400 11,400 11,400 11,400 11,500</td><td>៵៵៵៵៹៹៹ ៹៹៹៹៹៹៹៹៹៹៹៹៹៹៹៹៹៹៹៹៹៹៹៹៹៹៹៹៹៹</td><td></td><td>00201000000000000000000000000000000000</td><td>000</td><td></td><td></td></td<>	Mark H1		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	2, 130 , 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	๏ํ๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛	16,800 17,200 17,200 17,200 17,200 11,400 11,400 11,400 11,400 11,400 11,400 11,400 11,400 11,500	៵៵៵៵៹៹៹ ៹៹៹៹៹៹៹៹៹៹៹៹៹៹៹៹៹៹៹៹៹៹៹៹៹៹៹៹៹៹		00201000000000000000000000000000000000	000		
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10 10 <td< td=""><td>11 10 <td< td=""><td></td><td>ппппппппппппппппппппппппп нинининининини</td><td>2,503 2,505 2,511 2,505 2,511 2,505 2,515</td><td></td><td>៹៷รํ៹៹៹៰៰៷៷៷៷៰៹៹៸៸៸៰៰៹៷៰៹៴៹៹៹៹ ៹ ៰ฃ๚ํ๚๖๗๚๗ฃ๚๛๛ฃ๛ฃ៸៸៴๏д๏๘๚๛๚๗๖๚๚</td><td>9,650 28,450 11,464 11,464 11,466 20,400 20,400 21,500 21,500 21,500 21,500 21,500 21,500 22,500 22,500 24,5000 24,5000 24,5000 24,5000 24,5000 24,5000 24,5000 24,5000 24,5000 24,5000 24,5000 24,5000 24,5000 24,5000 24,5000 24,5000000000000000000000000000000000000</td><td>2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</td><td></td><td>* 0 . 4 0 0 0 0 0</td><td>o o</td><td></td><td>349,000</td></td<></td></td<>	11 10 <td< td=""><td></td><td>ппппппппппппппппппппппппп нинининининини</td><td>2,503 2,505 2,511 2,505 2,511 2,505 2,515</td><td></td><td>៹៷รํ៹៹៹៰៰៷៷៷៷៰៹៹៸៸៸៰៰៹៷៰៹៴៹៹៹៹ ៹ ៰ฃ๚ํ๚๖๗๚๗ฃ๚๛๛ฃ๛ฃ៸៸៴๏д๏๘๚๛๚๗๖๚๚</td><td>9,650 28,450 11,464 11,464 11,466 20,400 20,400 21,500 21,500 21,500 21,500 21,500 21,500 22,500 22,500 24,5000 24,5000 24,5000 24,5000 24,5000 24,5000 24,5000 24,5000 24,5000 24,5000 24,5000 24,5000 24,5000 24,5000 24,5000 24,5000000000000000000000000000000000000</td><td>2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</td><td></td><td>* 0 . 4 0 0 0 0 0</td><td>o o</td><td></td><td>349,000</td></td<>		ппппппппппппппппппппппппп нинининининини	2,503 2,505 2,511 2,505 2,511 2,505 2,515		៹៷รํ៹៹៹៰៰៷៷៷៷៰៹៹៸៸៸៰៰៹៷៰៹៴៹៹៹៹ ៹ ៰ฃ๚ํ๚๖๗๚๗ฃ๚๛๛ฃ๛ฃ៸៸៴๏д๏๘๚๛๚๗๖๚๚	9,650 28,450 11,464 11,464 11,466 20,400 20,400 21,500 21,500 21,500 21,500 21,500 21,500 22,500 22,500 24,5000 24,5000 24,5000 24,5000 24,5000 24,5000 24,5000 24,5000 24,5000 24,5000 24,5000 24,5000 24,5000 24,5000 24,5000 24,5000000000000000000000000000000000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		* 0 . 4 0 0 0 0 0	o o		349,000
1. Weik: 1000000 Str 1. Weik: 1000000 Str 1. Weik: 1000000 Str 1. Weik: 1000000 Str 1. Weik: 100000 Str 1. Weik: 10000 Str <td></td> <td></td> <td>ĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸ ₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩</td> <td>2,553 , 1,55 , 1,55 , 1,55 , 1,55 , 1,55 , 2,55 , 2,55</td> <td></td> <td>๛ร๋๋ฉ๚๛๛๛๛๛๚๛๚๛๚๛๚๛๚๛๛๛ ฿ ฃ๚ํ๚๚๚๚๚๛๛๚๛๚๛๛๚๛๚๚๛๚๚๚๚๚</td> <td>28,450 117,440 117,</td> <td>8 • • 8 • 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8</td> <td></td> <td>0.0000000</td> <td></td> <td></td> <td>656,000</td>			ĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸ ₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩	2,553 , 1,55 , 1,55 , 1,55 , 1,55 , 1,55 , 2,55 , 2,55		๛ร๋๋ฉ๚๛๛๛๛๛๚๛๚๛๚๛๚๛๚๛๛๛ ฿ ฃ๚ํ๚๚๚๚๚๛๛๚๛๚๛๛๚๛๚๚๛๚๚๚๚๚	28,450 117,440 117,	8 • • 8 • 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		0.0000000			656,000
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11 Series 11 Seconds SFT 1 S	113 National Series 7 seconds, E.S. (87 (2003), D) 8 (2.77 (2.97)) 1.11 (2.11 (2.10)) 0		នក្ខភ្លកក្ខភ្លកក្ខភក្ខភក្ខភក្ខភក្ខភក្ខភក្ខភក្ខភក្ខភក្ខ	2,535 2,511 2,511 2,511 2,511 2,515		ฯฃ๙๙๙๙๛๚๛๛ฃ๛๛๛๚๛๚๛๚๛๚๛๚ ๚๚๚๚๚๚๛๛๚๛๚๛๛๚๛๚๚๛๚๚๚๚๚	13,400 13,400 13,000 14,0000 14,0000000000	8 8 8 8 9 9 9 9 8 8 8 8 8 8 8 8 8 8 8 8	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ត ព ន ន ន រ	9 0	_	.877,000
11 11 <td< td=""><td>10 Set 13 JANET 5 JANET 5 JANET 5 JANET 10 Set 13 JANET 10 JANET</td></td<> <td></td> <td>стата и и и и и и и и и и и и и</td> <td>2,598 2,511 2,511 2,511 2,511 2,513 2,5145</td> <td></td> <td>๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๚๛๚๛๛๛๛ ๚๚๚ฃ๚๚๛๛๚๛๚๛๛๛๛๚๛๚๚๚๚๚๚๚</td> <td>17, 000 28, 200 28, 200 29, 000 26, 00</td> <td>8 8 8 8 9 9 9 9 9 8 9 8 8 8 8 8 8 8 8 8</td> <td></td> <td>ព្ទន្ទ</td> <td>0</td> <td>1,352,000</td> <td>266,000</td>	10 Set 13 JANET 5 JANET 5 JANET 5 JANET 10 Set 13 JANET 10 JANET		стата и и и и и и и и и и и и и	2,598 2,511 2,511 2,511 2,511 2,513 2,5145		๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๚๛๚๛๛๛๛ ๚๚๚ฃ๚๚๛๛๚๛๚๛๛๛๛๚๛๚๚๚๚๚๚๚	17, 000 28, 200 28, 200 29, 000 26, 00	8 8 8 8 9 9 9 9 9 8 9 8 8 8 8 8 8 8 8 8		ព្ទន្ទ	0	1,352,000	266,000
11 11 <td< td=""><td></td><td></td><td>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</td><td>2.511 2.511 2.511 2.511 2.511 2.533 2.533 2.635 2.6355 2.6355 2.6355 2.6355 2.63555 2.63555 2.635555 2.63555555555555555555555555555555555555</td><td></td><td>๙๙๙๙๛๛๚๛๛๛๛๛๛๛๛๚๛๚๛๛๛ ๚๚ฃ๚๛๛ฃ๛ฃ๛๛๛๚๛๚๚๛๚๚๚๚๚</td><td>L5,500 28,200 28,200 26,0000 26,0000 26,0000 26,0000 26,0000 26,0000 26,0000000000</td><td>8 8 9 1 1 2 8 9 3 1 2 8 8 8 9 1 2 8 8 8 9 1 2 8 8 9 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</td><td></td><td>ខនេន</td><td>0</td><td>1,497,020</td><td>00, 01Z</td></td<>			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	2.511 2.511 2.511 2.511 2.511 2.533 2.533 2.635 2.6355 2.6355 2.6355 2.6355 2.63555 2.63555 2.635555 2.63555555555555555555555555555555555555		๙๙๙๙๛๛๚๛๛๛๛๛๛๛๛๚๛๚๛๛๛ ๚๚ฃ๚๛๛ฃ๛ฃ๛๛๛๚๛๚๚๛๚๚๚๚๚	L5,500 28,200 28,200 26,0000 26,0000 26,0000 26,0000 26,0000 26,0000 26,0000000000	8 8 9 1 1 2 8 9 3 1 2 8 8 8 9 1 2 8 8 8 9 1 2 8 8 9 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		ខនេន	0	1,497,020	00, 01Z
12 Rest 12 Rescale TC SR 9 Accords TC SR 7 Rescale TC SR	21 20 <td< td=""><td></td><td><pre>% # # # # # # # # # # # # # # # # # # #</pre></td><td>2,511 2,511 2,511 2,515</td><td></td><td>๙๙๙๛๛๚๛๛๏๛๛๛๛๛๛๚๛๚๛๛๛ ฿฿๚๛๛฿๛฿๛๛๛๚๛฿๚๛๚๚๚๚๚</td><td>25, 200 20, 200 20, 200 5, 000 119, 600 119, 600 2, 700 2, 700 2,</td><td>8 80 81 82 88 97 97 98 98 98 98 98 98 98 98 98 98 98 98 98</td><td>000000000000</td><td>នន</td><td>е С</td><td>1.062,000</td><td>.258,000</td></td<>		<pre>% # # # # # # # # # # # # # # # # # # #</pre>	2,511 2,511 2,511 2,515		๙๙๙๛๛๚๛๛๏๛๛๛๛๛๛๚๛๚๛๛๛ ฿฿๚๛๛฿๛฿๛๛๛๚๛฿๚๛๚๚๚๚๚	25, 200 20, 200 20, 200 5, 000 119, 600 119, 600 2, 700 2,	8 80 81 82 88 97 97 98 98 98 98 98 98 98 98 98 98 98 98 98	000000000000	នន	е С	1.062,000	.258,000
12 Ref 12	12 Start 12 Generations Were set of the set		88888888888888888888888 88888888888888	2,511 2,511 2,511 2,533 2,535 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555		๙๙๙๙๚๛๛๛๛๛๛๛๛๛๚๛๚๛๛๛ ฃ๚๛๛ฃ๛ฃ๛๛๛๚๛ฃ๚๛๚๚๖๚๚	20,200 20,200 5,0000 5,00000000	80 80 80 80 80 80 80 80 80 80 80 80 80 8	0000000000	ន	0	1,400,000	.075,000
13 Series 13 Activity Series 9 Machine Series <td>12 State 1, 100, 000, State 1 10 10, 100, 100 1 10<td></td><td></td><td>2,511 2,515 2,056 2,316 2,316 2,539</td><td></td><td>๛๛๚๛๛๏๛๛๛๛๛๚๛๚๛๚๛๛๚ ๚๛๛๚๛๚๛๛๚๛๚๚๛๚๚๚๚๚</td><td>20,400 6,000 9,000 11,0000 11,0000 11,0000 11,00000000</td><td>81 21 28 34 21 21 28 8 82 50 59 59 59 59 59 59 59 59 59 59 59 59 59</td><td></td><td></td><td>0 1</td><td>1,689,000</td><td>000, 600</td></td>	12 State 1, 100, 000, State 1 10 10, 100, 100 1 10 <td></td> <td></td> <td>2,511 2,515 2,056 2,316 2,316 2,539</td> <td></td> <td>๛๛๚๛๛๏๛๛๛๛๛๚๛๚๛๚๛๛๚ ๚๛๛๚๛๚๛๛๚๛๚๚๛๚๚๚๚๚</td> <td>20,400 6,000 9,000 11,0000 11,0000 11,0000 11,00000000</td> <td>81 21 28 34 21 21 28 8 82 50 59 59 59 59 59 59 59 59 59 59 59 59 59</td> <td></td> <td></td> <td>0 1</td> <td>1,689,000</td> <td>000, 600</td>			2,511 2,515 2,056 2,316 2,316 2,539		๛๛๚๛๛๏๛๛๛๛๛๚๛๚๛๚๛๛๚ ๚๛๛๚๛๚๛๛๚๛๚๚๛๚๚๚๚๚	20,400 6,000 9,000 11,0000 11,0000 11,0000 11,00000000	81 21 28 34 21 21 28 8 82 50 59 59 59 59 59 59 59 59 59 59 59 59 59			0 1	1,689,000	000, 600
21 Start 13, Linter (ST) 0 Start 13, Linter (ST) </td <td>218 Set 12 A. HELLONG SET 10 ACTION INTE (TCLORE) 100 77 (177 C) 100 COL 100 COL</td> <td></td> <td>8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8</td> <td>5,036 2,316 2,316 2,316 2,316 2,53 2,53 2,63 2,63 2,63 2,63 2,63 2,63 2,63 2,6</td> <td></td> <td>๛ฯ๚๛๛๏๛๛๛๛๛๚๛๚๛๚๏๛๛ ๛๛๚๛๚๛๛๛๚๛๚๚๚๚๚๚</td> <td>6,000 5,0000 5,00000000</td> <td>81 51 52 52 52 53 58 58 59 59 59 59 59 59 59 59 59 59 59 59 59</td> <td></td> <td>8</td> <td>0</td> <td>1,186,000</td> <td>824,000</td>	218 Set 12 A. HELLONG SET 10 ACTION INTE (TCLORE) 100 77 (177 C) 100 COL		8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	5,036 2,316 2,316 2,316 2,316 2,53 2,53 2,63 2,63 2,63 2,63 2,63 2,63 2,63 2,6		๛ฯ๚๛๛๏๛๛๛๛๛๚๛๚๛๚๏๛๛ ๛๛๚๛๚๛๛๛๚๛๚๚๚๚๚๚	6,000 5,0000 5,00000000	81 51 52 52 52 53 58 58 59 59 59 59 59 59 59 59 59 59 59 59 59		8	0	1,186,000	824,000
25 25 <td< td=""><td>15 355 355 357 35</td><td></td><td>5555555555555555 55555555555555 5555555</td><td>2, 316 2, 956 2, 956 2, 951 2, 951 2, 633 2, 633 2,</td><td></td><td>๛๚๛๛๛๛๛๛๛๛๛๚๛๚๛๛๛ ๛๚๛๚๛๛๛๚๛๚๚๚๚๚๚</td><td>20,000 41,200 20,000 20,000 41,4,000 21,000 2,40</td><td>28 25 55 55 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9</td><td>0000000</td><td>93</td><td>4</td><td>933,000</td><td>678,000</td></td<>	15 355 355 357 35		5555555555555555 55555555555555 5555555	2, 316 2, 956 2, 956 2, 951 2, 951 2, 633 2,		๛๚๛๛๛๛๛๛๛๛๛๚๛๚๛๛๛ ๛๚๛๚๛๛๛๚๛๚๚๚๚๚๚	20,000 41,200 20,000 20,000 41,4,000 21,000 2,40	28 25 55 55 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0000000	9 3	4	933,000	678,000
15 Set 17 March SFP 100 Set 20 1 100	12 (35 × 12 × 10 × 10 × 10 × 10 × 10 × 10 × 10		88888888888888888888888888888888888888	1,906 2,215 2,215 2,215 2,215 2,25 35 2,63 35 2,63 35 2,63 35 2,63 35 2,63 35 2,63 35 2,63 35 2,63 35 2,63 35 2,63 35 2,63 35 2,63 35 2,55 2,55 5 2,55 5 2,55 5 5 5 5 5 5 5		ฯアア840a40410 1 044 มิดมีアア๏ปิ๏มีนี _้ นี่มีชีมีนี	41,200 5,000 36,000 119,500 119,500 41,500 41,500 41,500 5,110 5,100 5,0000 5,00000000	8 3 3 5 6 8 9 9 9 9 9	000000	63	0	1.277,000	\$62,000
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Table A.1.2 Major Features of Completed/on-going SWIM Projects (1/2) - Completed Projects -

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Note: 7 : no data available.
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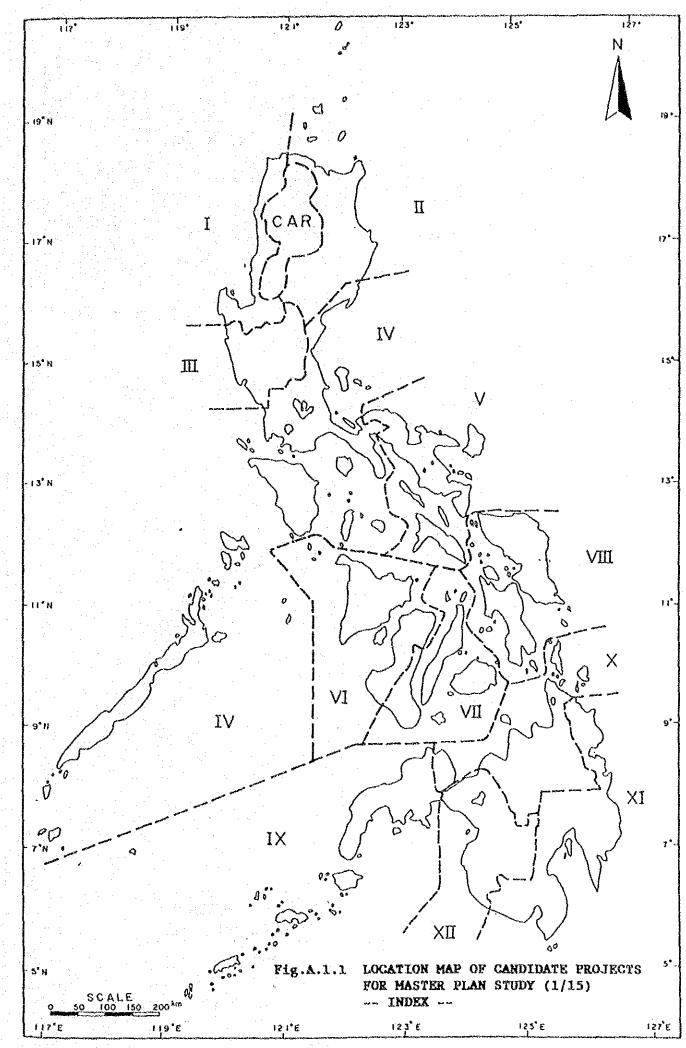
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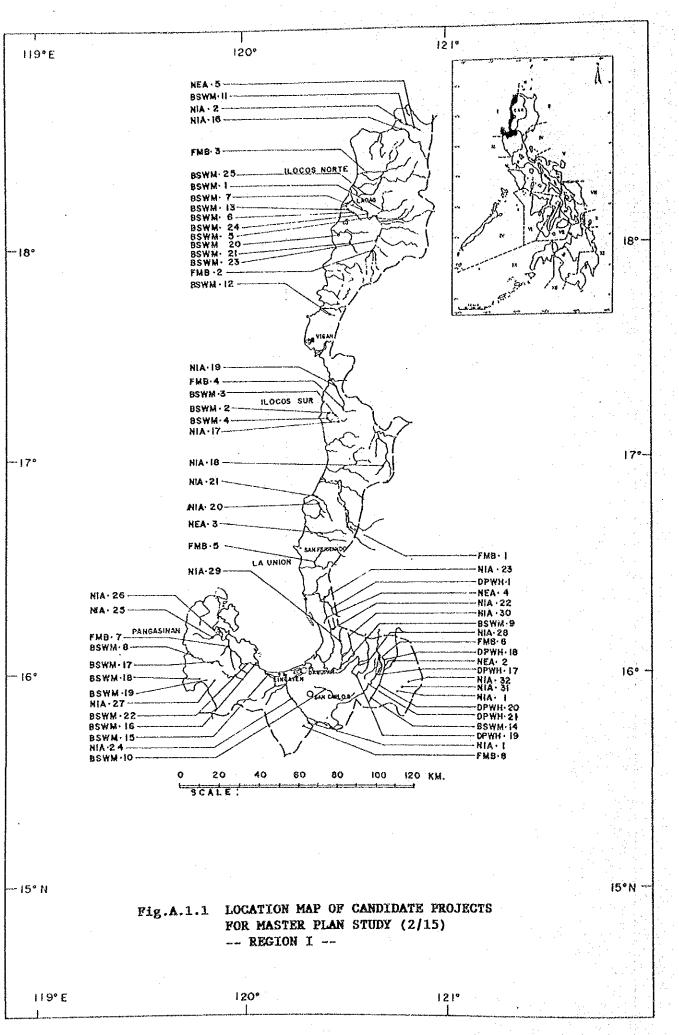
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Table A.1.2 Major Features of Completed/on-going SWIM Projects (2/2) - On-going Projects -

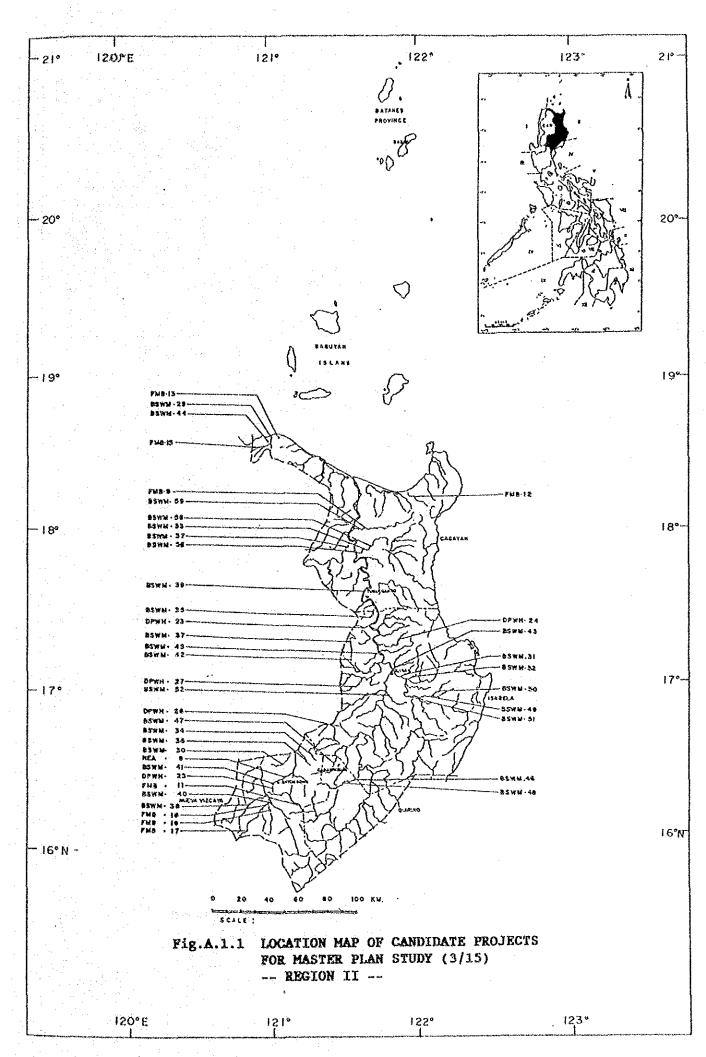
		and law		Height		Volume (cu.m)	Area (ha)	Certer (certe)	Ares (ba)	Cost (Peso T.)	Started	Comple. 1 0	Period (Youth)	Current Rroblen
L DFTH	Pinsel Fall	L H	EarthEill	<u>१</u> .स	275	98, 300	22.0	930,000	272	18.377	Mar-86	Mav-89	39	Difficult land acquisition and frequent boscing down of equipment
再設計	Jaro	ĥ	Earthfill	29.3	H	230,000	9.3	630,000	1,950	62.723	Nov-84	Jul-89	57	Frequent tythoons and lack of men-power and equipment
	Sta Maria	ы	Earthfill	18.3	107	50,000	7.0	473,000	ห	14.700	あー町つ	Mar-89	8	No fund available for additional works
in the second se	CHURCH		Earthfill	27.5	ส	215,437	20.0	1,760,000	8	37,354	May-24	2	،	Contractor abandoned after completing about 267
	San Julian		Inchell	27.9	341	104,517	<u>ੇ</u> ਸ	561,500	\$	16,850	Hay-84	Dec-89	8	Only 3 months dry season recurring for past 4 years
5 19 10	Bangso		Creck Dens	ı	•	,	1	ı	ı	3,776	Jan-83	Dec-38	ç	Untively release of funds
2 PGB	Binsnatan		Creck Dans	ı	ŧ	f	,	ı	1	3,300	Feb-84	Dec-88	ŝ	Untinely release of funds
四日の	Levenn .		Check thems	1	. •	,	1	•		2,744	Peb-84	Dec-88	\$	Untirely release of funds
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日本 (1) (1) (1) (1) (1) (1) (1) (1)	Erze E		Check Dans	*	•	,ı		1	1	2,970	Apr -82	Dec-38	18	Untimely release of firds
MMSE T	Bacsay		Earthfill	N.8	82	37,890	1 2	7,000	8	1,203	Mar-83	2	**	Security condition in its locality
SEAM	Captarao		Enrthfill	4.7	ង	,	•	ı	2	8	May-85	2	2.	Security coodition in its locality
NUSA S	Catenclasan		Earthfill	2.41	202	125,588	7.6	350,900	ଛ	3,200	May-87	·~	-	No fund available for additional works
MHSE 1	Kedingilan	ĕ	Earthfill	6.0	011	15,246	4.1	82,800	8	1.257	200-22	~	2	Reservoir area privately owned and refused to donate
LS NEA	Kumalarang	ដ	Rubble masonry	2.5	75	,		•	2	ц.97	Jul-92	Apr-89	თ	None at present
L6 NIA	Miral	Ă	Zoned Earthfill	27.0	8	148,300	5.1	350,000	2551	37,00	Jen-88	Jan-90	77	Delayed fund release
NTA .	Calargo	Ę	Zoned Earthfill	25.0	ទ្ឋ	340,000	4.0	885,000	675	36,000	Jan-83	3en-90	3	Delayed fund release

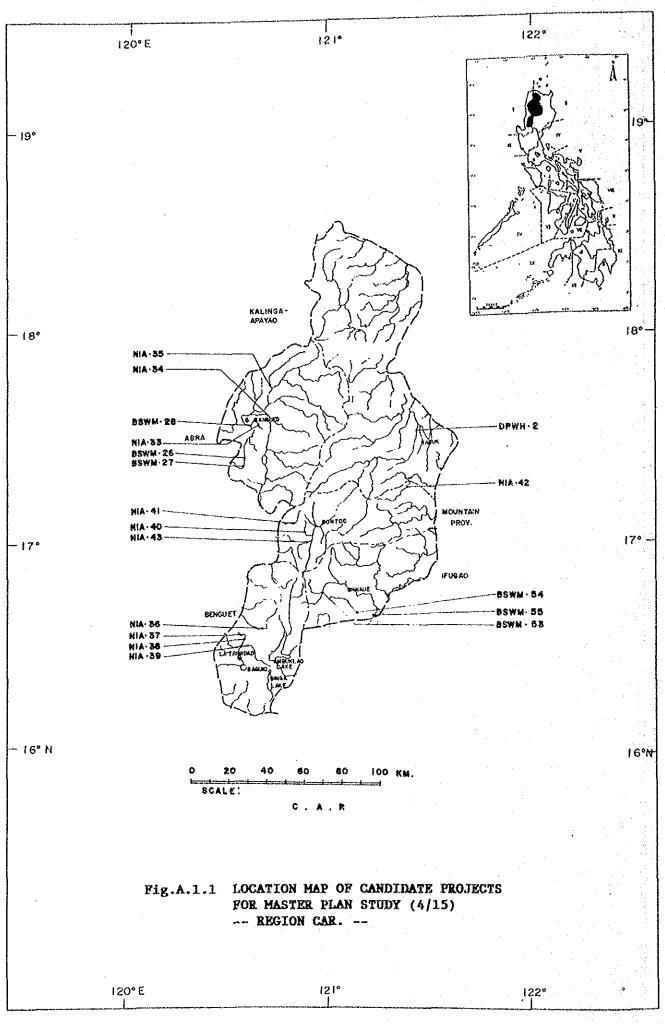
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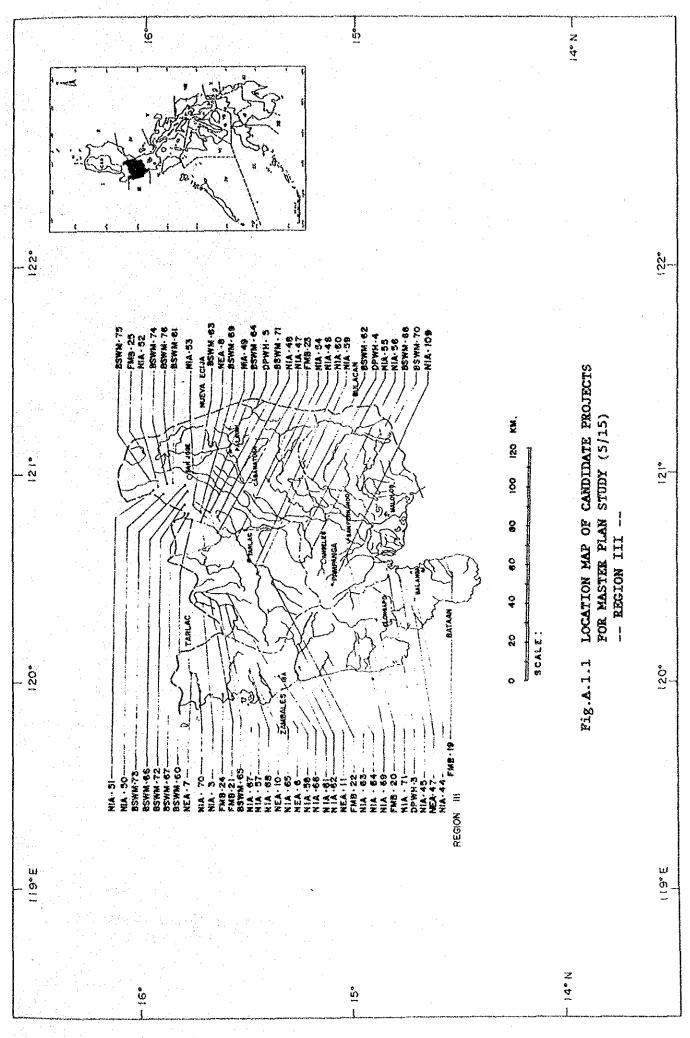
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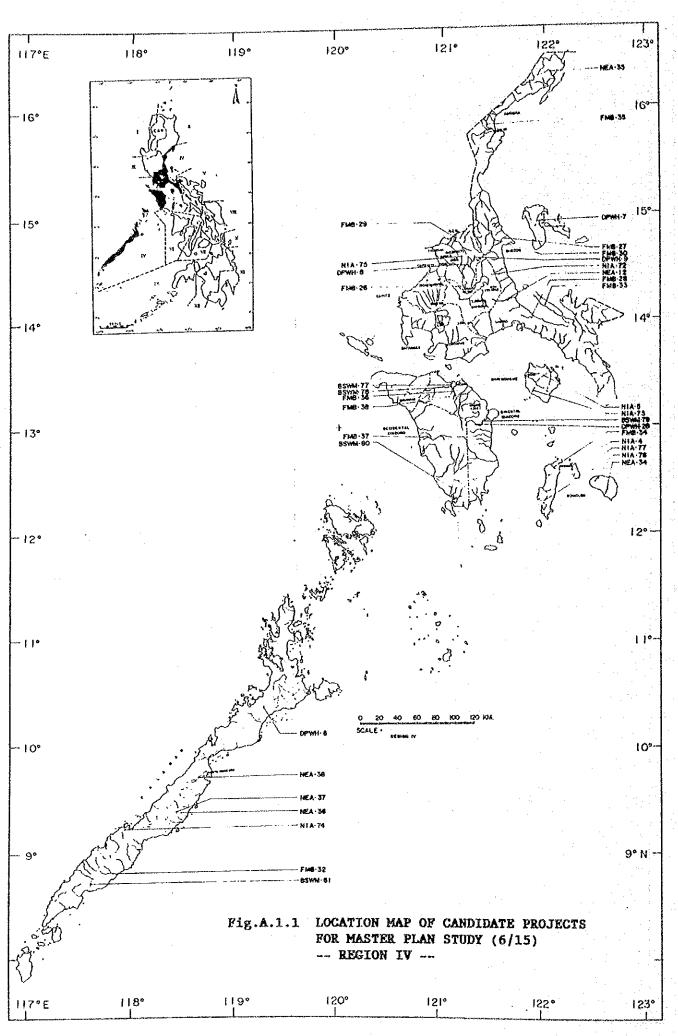


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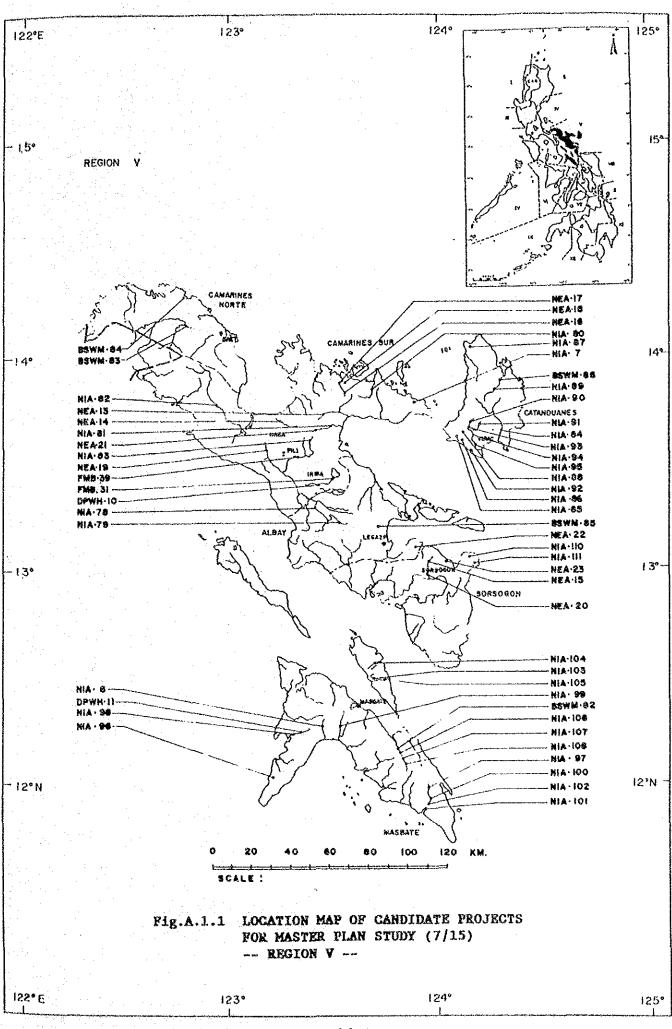
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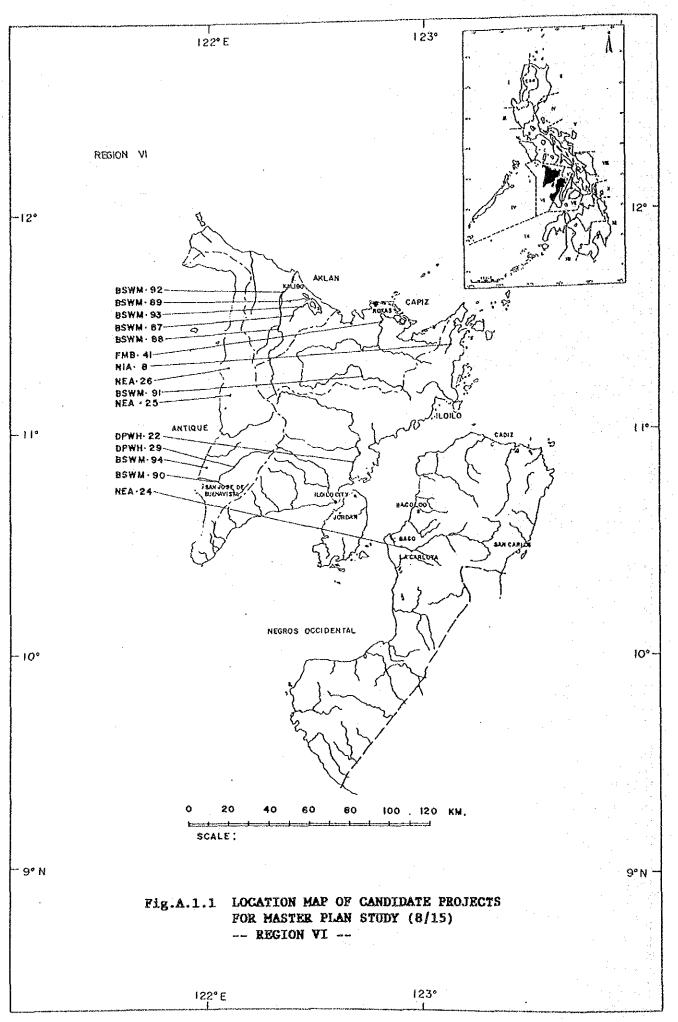


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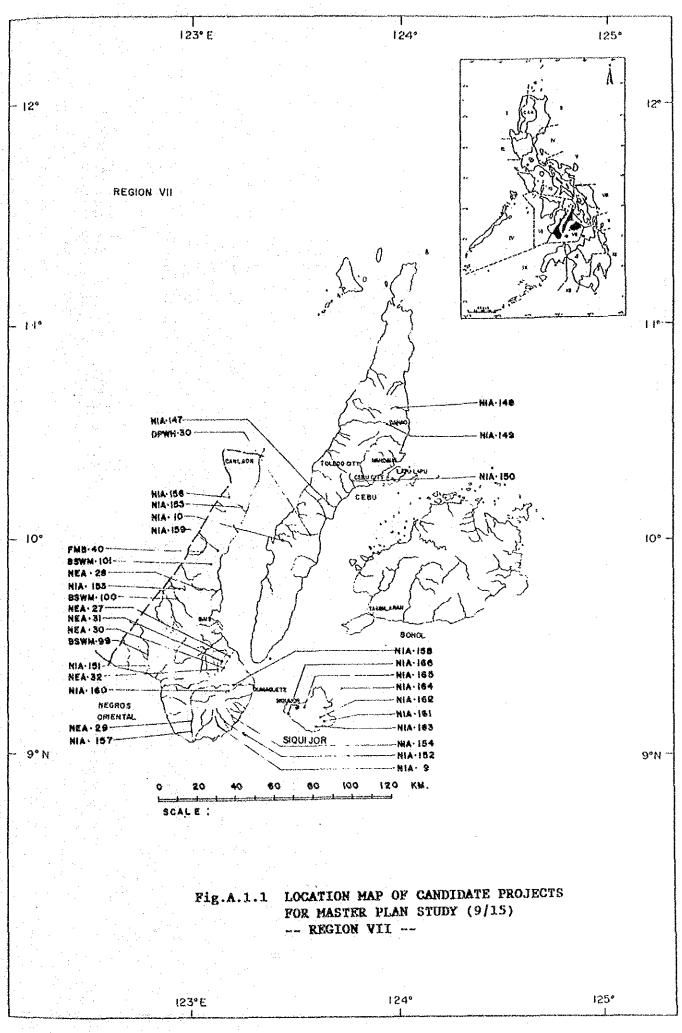


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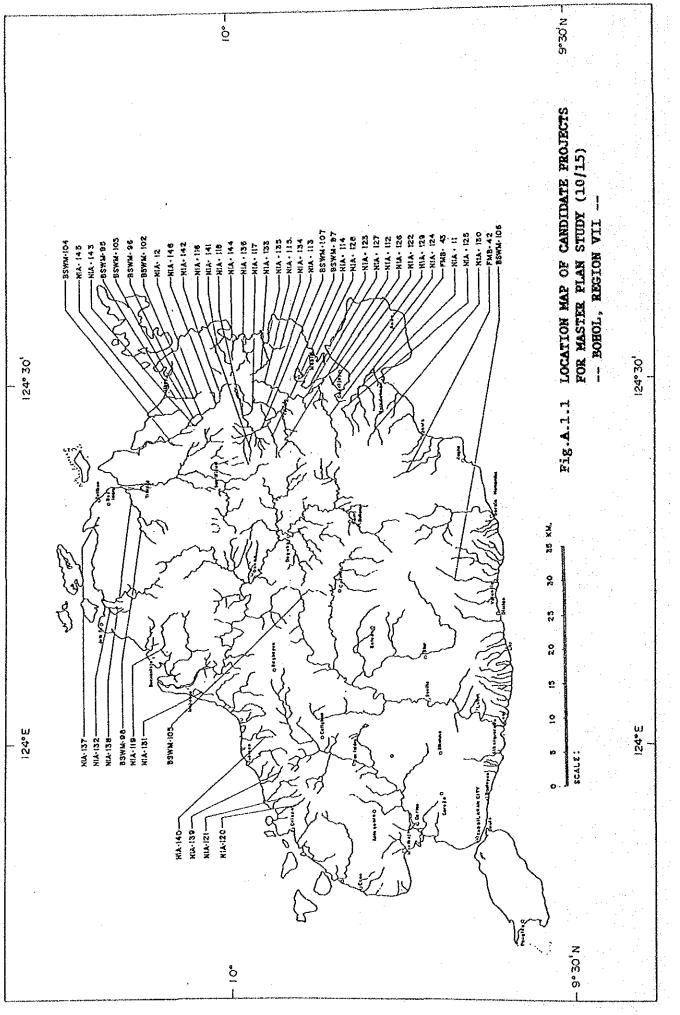




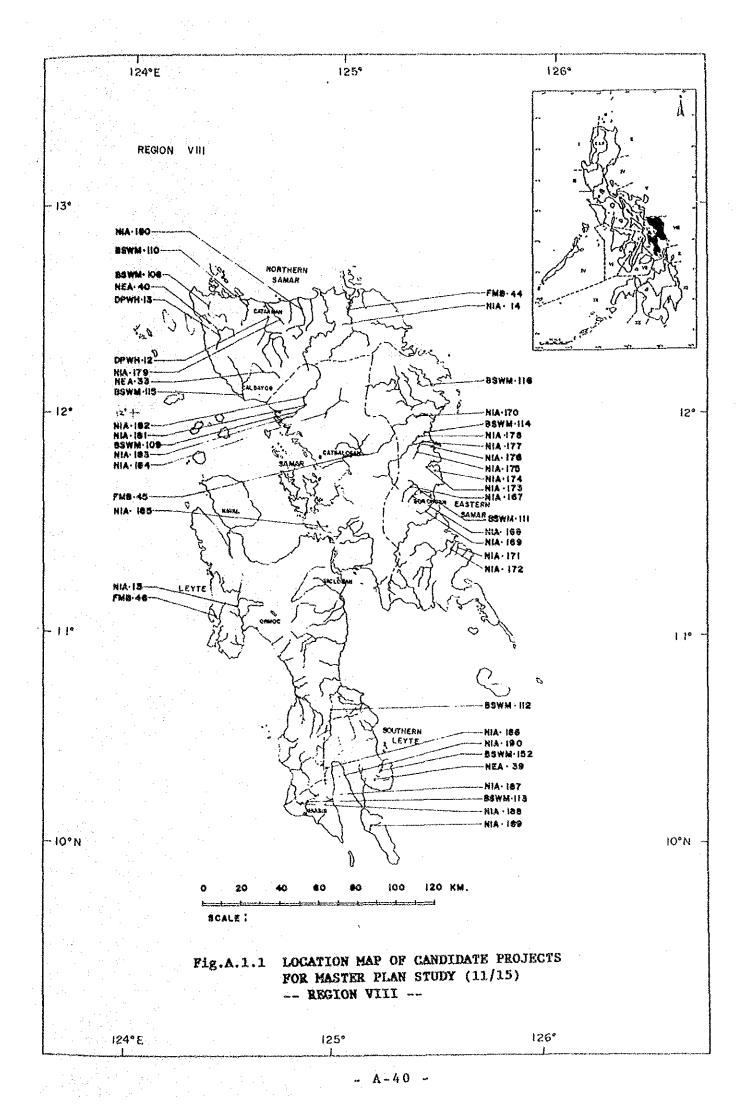
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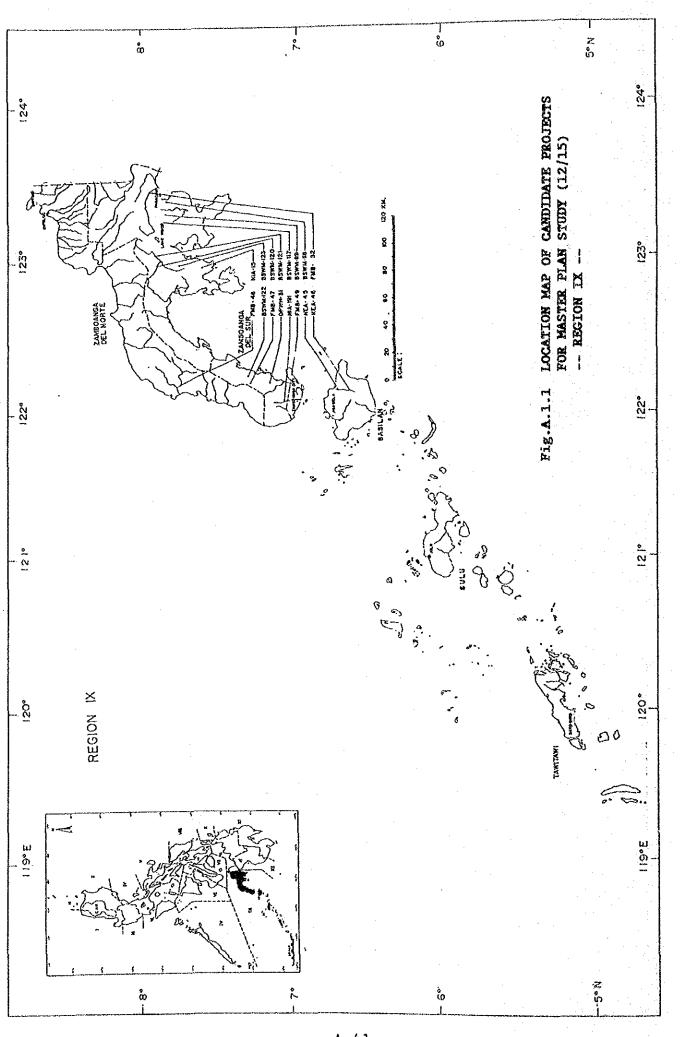


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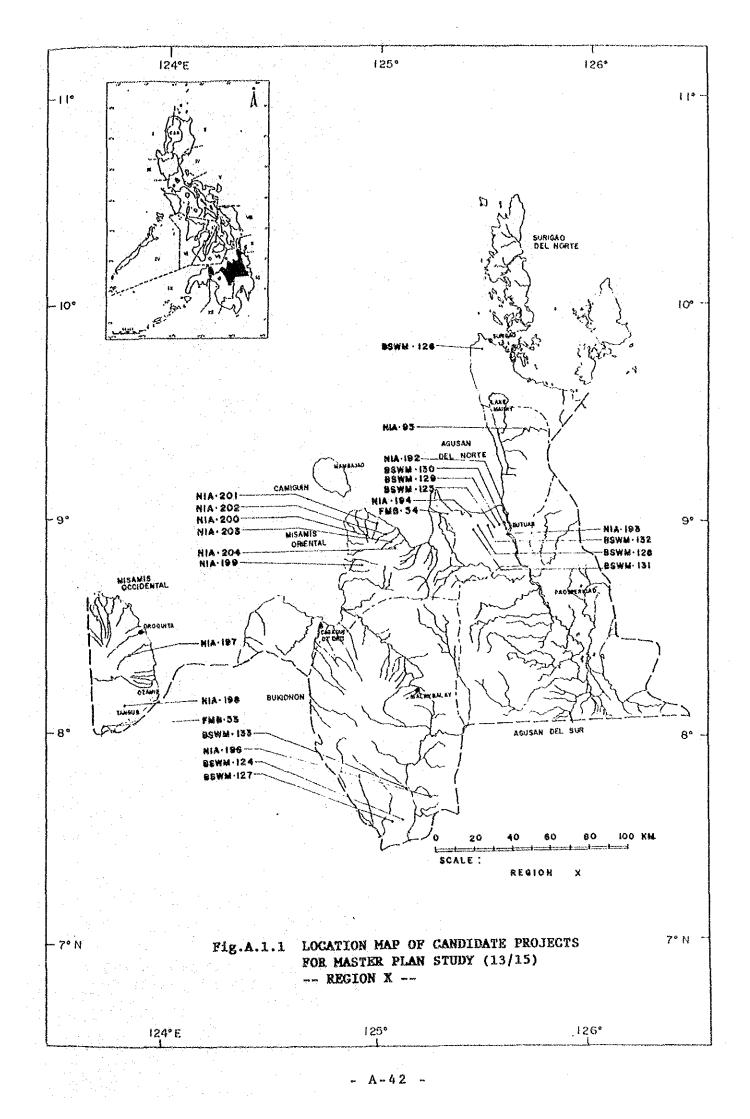


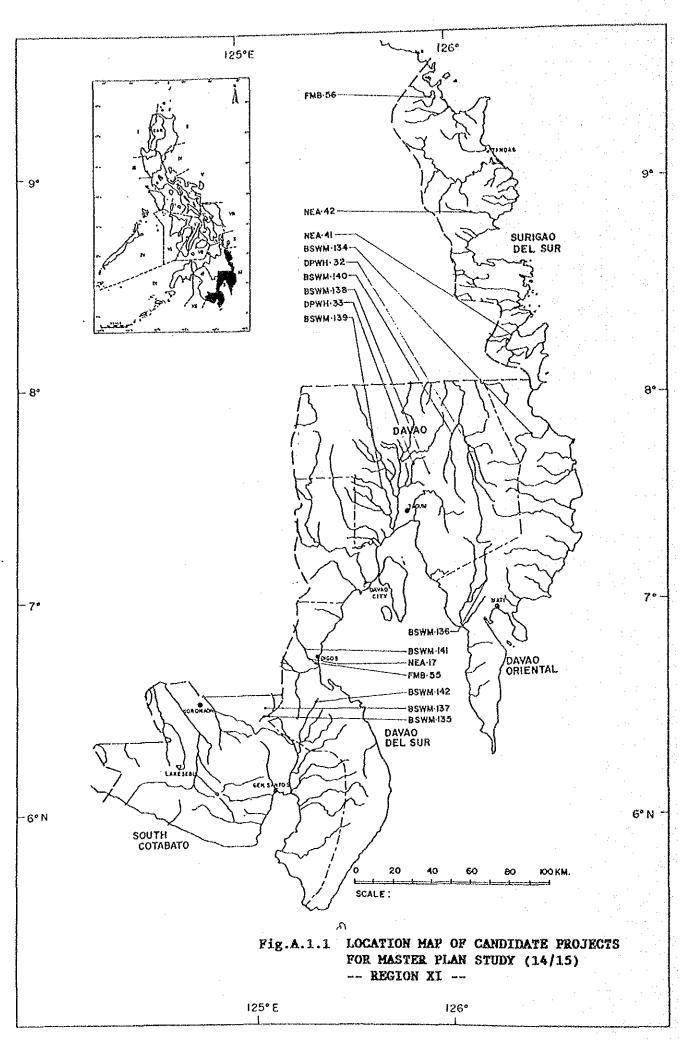
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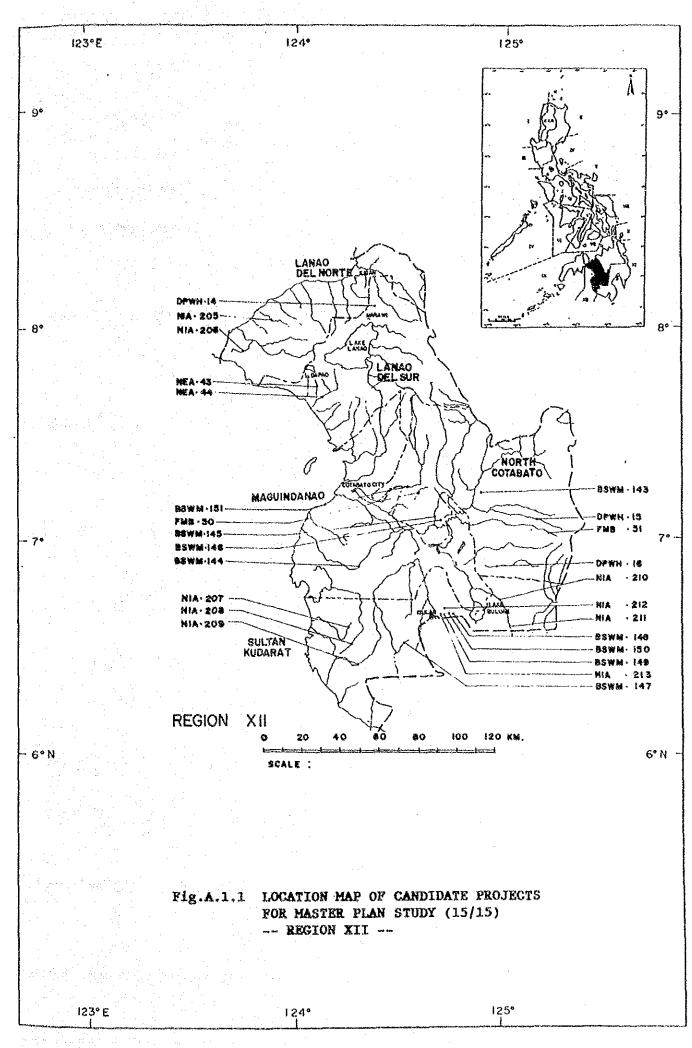




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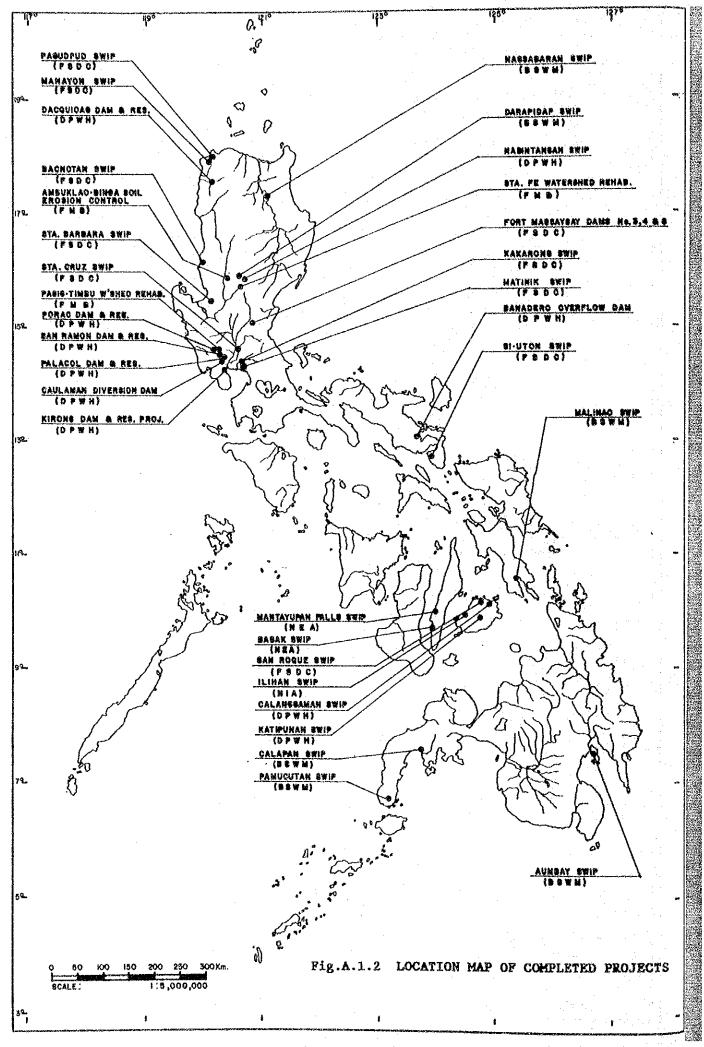


FIG.A.4.1 PROJECT FORMAT FOR REVIEW OF EXISTING DATA AND REPORTS

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SOIL TYPE

IE OF PROJECT FEATURES

DESIGN DISCILAROE (cs. m/sec); [INTAKE METHOD: PROBABILITY: IRENIAL (Inscreduct NTROL LECTIONAREA(ta) RALLAND(ta) AREA(tau)

SECONDARY: INOS. OF CHECK DAMS. TREESPECIES PRIMARY: ED MANAGEMENT DAREA (he): N AREA (he): TIONAREA (he): (OPOWER CAPACITY(RW) HARGE (cu. m/sec) VERATION(MWA) POR (%)

DESIGN SUPPLY CAPACITY (ca. m/day); METHOD OF FISH CULTURE DUCTION (www.ex) Suter Y PPLY IES(Nos)

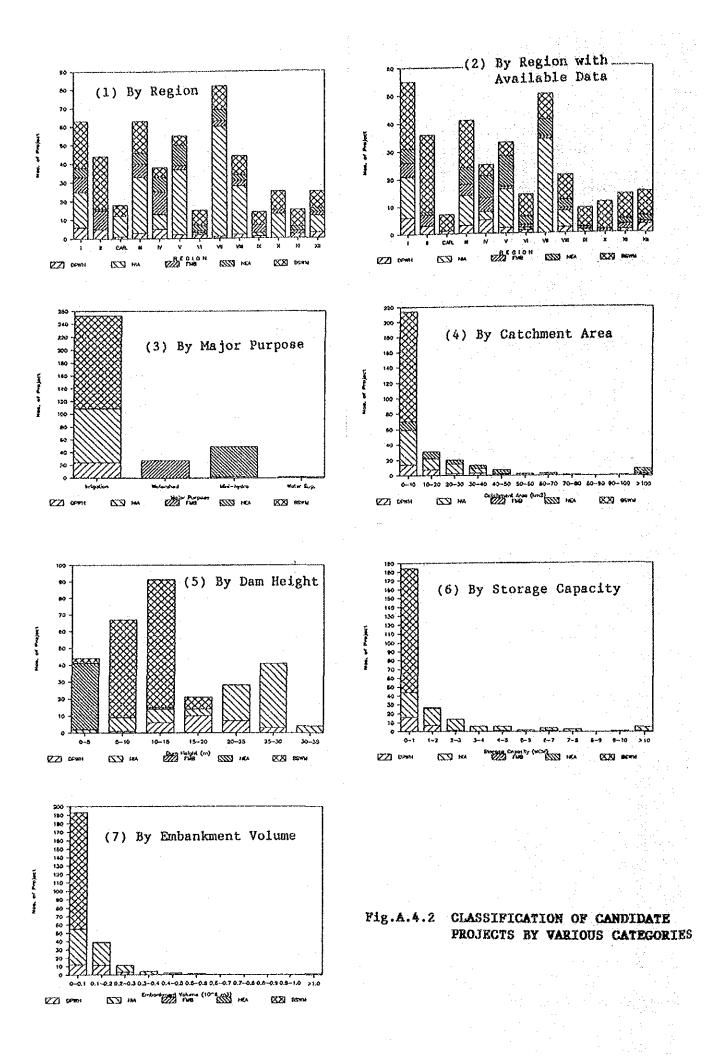
UNIT: peses ~ T COSTS (AS OF

PROJECT COSTS (FUNANCIAL BASIS)	UNIT PROJECT COST	O & M COSTS
DAM CONSTRUCTION	per cu.m.al emburkaeca	
IRRIGATION WORKS	per ha of strigationarce .	
WATENSHEDMANAGEMENT	per ha of protectionarts	
MINI HYDROPOWER	Der LW	
WATER SUPPLY	per cu, at of weight supply?	
INLAND FISHERY	per ton of fiths production ?	
01038		
TOTAL		
CONSTRUCTION PERIOD (year)	XEMAKKS:	

~ FBENEFITS AND IRR (AS OF ENERTTS (FINANCIAL BASIS)

UNIT: POST

per cu an of embankatent [an discovant rate of 15%) UNIT' PROJECT' BENEFTS IN (5): Per ca m of embanizante per ca m of embanizante per ch and periodisante per ca m of embanizante 10-14 LEDRONGWER LEDRONGWER ATERSHERMANATERHERM ATERSHERM ATERSHERM TOTAL



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ANNEX B

REVIEW OF EXISTING REPORTS AND DESIGNS, AND POST-EVALUATION STUDY OF COMPLETED SWIM PROJECTS

ANNEX B REVIEW OF EXISTING REPORTS AND DESIGN, AND POST-EVALUATION STUDY OF COMPLETED SWIM PROJECT

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ANNEX B REVIEW OF EXISTING REPORTS AND DESIGNS, AND POST-EVALUATION STUDY OF COMPLETED SWIM PROJECTS

1 GENERAL

The existing reports and designs of 331 projects which are supported with data and/or reports, are reviewed to clarify the extent, depth and methods applied to the SWIM projects and thereby to materialize a vague idea of approach to the "Basic Planning Criteria". The individual projects are not therefore reviewed separately in this ANNEX, but a proposed projects as a whole. The existing reports and designs were reviewed in the following three (3) steps of projects preparations:

(1) Project identification

(2) Feasibility study

(3) Detailed design and preparation of tender documents

The technical evaluation of the 230 SWIM projects qualified as candidate for the 10 Year Action Program are individually made in ANNEX I.

In addition to the above, to clarify the current status of the completed SWIM projects and to constitute the baseline for preparation of "Basic Planning Criteria" and implementation procedure of the SWIM projects, the post-evaluation study is made for ten (10) constructed projects.

The results of review of existing reports and designs and postevaluation study are described hereunder.

2 RESULTS OF TECHNICAL REVIEW

2.1 Project Identification

The SWIM Projects have been identified by the headquarters of each agency, in cooperation with their Regional and/or Provincial Offices. Most

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of the project identification is not carried out based on the requests from local inhabitants but based on the results of potential studies by each agency. As for PMO-SWIM, NIA and BSWM projects are concerned, same procedures are taken up for the project identification. NEA and FMB apply a bit different way from them. The present situations and procedures of project identification process are described below:

2.1.1 Map Study

The potential study on development of the SWIM projects is made on the basis of topographic maps with a scale of 1:50,000 prepared by the Bureau of Coast Geodetic Survey (BCGS). All agencies except NEA use those maps for all required work of the project identification. NEA additionally conducts a topographic survey to measure a gross head for mini-hydropower generation.

2.1.2 Site Inspection

After reviewing potentiality on development of projects, each agency conducts a site inspection on reconnaissance level. PMO-SWIM, NIA and BSWM carry out the reconnaissance survey by deploying technical staff of the Main and/or Regional Offices, specially focussing on potentiality of water resources, present condition of damsite, reservoir area and service area.

NEA conducts a profile survey from the proposed intake site to the proposed tailrace to ensure a gross head for hydropower generation, and also conducts a reconnaissance market survey to identify the rural electrification condition.

FMB makes a reconnaissance survey to clarify the physical and biological condition of watershed areas.

2.1.3 Preliminary Data Collection

PMO-SWIM, NIA and BSWM collect the data relating to development of dam and irrigation on the following items:

Available maps for damsite, reservoir area and irrigation areas

Climate and hydrology

Geology

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- Soils and land use

Socio-economic condition

NEA collects the data relating to development of hydropower generation as follows:

Available maps for damsite and along penstock Watershed condition, especially on sediment discharge and water quality Hydrology Electrification condition in the vicinity

FMB collects the data relating to watershed management, in order to identify necessity of development as follows:

- Available maps of watershed
 - Climate and hydrology
- Geology
- Soils and land use
- Vegetative cover
 - Water use
 - Socio-economic condition

2.1.4 Preliminary Data Analysis and Evaluation

As for PMO-SWIM, NIA, BSWM and NEA, the technical analysis is made based on data collected, and the preliminary economic analysis is also made in terms of TRR for PMO-SWIM, NIA and BSWM and unit power generation cost (cost per kWh) for NEA. However, FMB does not make the economic analysis but only the technical analysis and recommendation on watershed management based on necessity of development.

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