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FOLLOW-UP STUDY OF DEVELOPMENT STUDIES

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JAPAN INTERNATIONAL COOPERATION AGENCY



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PREFACE

The Japan International Cooperation Agency (JICA) has conducted a large number of Development Studies as part of the technical cooperation program for developing countries to assist in their nation building.

A Development Study is basically completed when a final report is completed and submitted to the recipient government. However, since a Development Study is conducted at the preparatory stage of a project, it can contribute to the progress of developing countries only when the findings of the study are utilized into a project, enabling effective technology transfer.

The findings of the Development Studies and advice from the Studies are utilized according to the recipient governments' initiative and are used in a wide variety of ways. As gathering information on completed studies can be difficult, JICA has been conducting follow-up studies annually since fiscal 1984 to gather and compile relevant information regarding completed Development Studies.

As in previous years, we prepared this year's report by gathering information from implementing agencies of recipient governments and from consultants in charge of the specific projects, and also by sending study teams to conduct follow-up studies in specific fields and specific countries.

The procedures for conducting follow-up studies and the findings of the studies have room for improvement due to difficulties in understanding and analyzing the progress of projects. We welcome your comments and suggestions for improving future follow-up studies. We hope this report can be used as a reference for the promotion, rationalization and improvement of your activities.

This study was contracted to the Japan International Cooperation Center and International Development Center.

March 1999

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CONTENTS

CHAPTER 1. OUTLINE OF THE STUDY	1
1 . Background and Purpose of the Follow-up Study	1
2 . Methods Used in the Follow-up Study	2
3 . Criteria for Classification of Present Status of Use of Study Findings	9
4 . Related Information.....	12
CHAPTER 2. AN OVERVIEW OF COMPLETED DEVELOPMENT STUDIES	13
1 . Classification of Development Studies by Year of Completion.....	13
2 . Classification of Development Studies by Region.....	14
3 . Classification of Development Studies by Country.....	15
4 . Distribution of the Number of Studies by Type of Study.....	18
5 . Distribution of the Number of Studies by Sector	19
6 . Distribution of Studies in Major Sub-sector.....	20
CHAPTER 3. THE PRESENT STATUS OF THE UTILIZATION OF STUDY FINDINGS	25
1 . Introduction	25
2 . Present Status of the Use of Study Findings of the M/P Studies Group.....	26
3 . Present Status of the Use of Study Findings of the F/S Studies Group	32
CHAPTER 4. SURVEYS CONDUCTED BY JICA'S OVERSEAS MISSIONS AND BY APPOINTED LOCAL CONSULTANTS	42
1 . Objectives and Methods of the Surveys.....	42
2 . Findings of the Surveys	42
CHAPTER 5. RECOMMENDATIONS	44
1 . Improvement of Monitoring Method	44
2 . Utilization of the Findings of the Development Studies.....	44
APPENDIX Project List.....	45

CHAPTER 1. OUTLINE OF THE STUDY

1. Background and Purpose of the Follow-up Study

1-1. Background of the Follow-up Study

Progress made on Development Studies once they were completed, and on the utilization of their findings have been difficult to follow. This was due to the fact that 1) it usually takes considerable time before the implementation of the proposed projects, 2) the findings have been utilized in many different ways, and 3) there have been limitations to obtaining information from the side of the recipient country. Follow-up Studies of Development Studies were started in 1984 in order to cope with such problems.

1-2. Purpose of the Follow-up Study

The purpose of the Follow-up Study is to systematically ascertain the current status, utilization and implementation situation of each completed Development Study, to feed back the findings toward the improved performance of future Development Studies in the areas of project identification, study design and execution, and project analysis and evaluation.

The FY 1998 Follow-up Study gathered and compiled relevant information on the Development Studies from the first ones started in the form of preliminary studies in August 1 of 1974, to those completed by the end of FY 1997 (the end of March 1998). The results of the analysis are classified by country and region, by year of completion as well as by type of Study and by sector. This report defines and categorizes the current status of the use of Study findings and/or projects proposed by the Studies. The report further analyzes the relevant data on Development Studies based on this categorization.

1-3. The Focus of the Follow-up Study Findings

To determine the practical usage of the Development Studies, this study traces the situation of the proposed projects by comparing those later realized and those not realized. Conclusions were made based on the following.

- 1) classification and analysis of the project progress into 3 stages from the time

it was proposed until it was implemented (i)from completion of the Development Studies to implementation of subsequent studies; ii) from implementation of subsequent studies to the procurement of the funds; and iii) from the procurement of the funds until completion of the construction works);

- 2) details of subsequent studies and finance (including planned);
- 3) comparison of relatively well utilized projects to those not well utilized;
- 4) analysis by type, area, field of Study; and
- 5) evaluation of indicators of utilization (M/P studies), realization (F/S studies), etc.

2. Methods Used in the Follow-up Study

2-1. Guidelines of the Follow-up Study

The FY 1998 Follow-up Study includes the following surveys as well as collection of information from other relevant sources such as the Japan International Cooperation Agency (JICA) internal documents.

- 1) A questionnaire survey addressed to the consulting firms which undertook the respective Development Studies.
- 2) A questionnaire survey to relevant government agencies of the recipient countries through JICA overseas offices.
- 3) A survey conducted by JICA's overseas follow-up missions and/or by appointed local consultants in the selected sectors and countries.

2-2. Coverage

The FY 1998 Follow-up Study covers those Development Studies which were financed by the Development Study Budget under the following departments of JICA: Social Development Study Department, the Agriculture, Forestry and Fishery Development Study Department and Mining and Industrial Development Study. Development Studies covered are all those completed as of the end of FY 1997 (the end of March 1998). A number of Studies are excluded from coverage: Basic Design Studies and Special Project Studies conducted as part of the Grant Aid Program.

The total number of Studies concerned comes to 1,555 (746 in the Social Development Sector, 313 in the Agricultural Development Sector and 496 in the Mining and Industrial Development Sector).

(1) Classification of Development Studies by FY of Completion

The FY of completion is defined as the FY during which the final report of the respective Development Study was submitted to JICA. Financial statements, their attached specification, the Annual Report of JICA in the respective fiscal year, and the replies of consulting firms to the Follow-up questionnaire are referred upon for determining the FY of completion.

(2) Classification of Development Studies by Country and by Region

The country and region classification of Development Studies is as shown in the most recent issue (October 1997) of JICA Practical Handbook on Statistics. Studies which cover several countries or regions are classified as "multiple countries".

(3) Classification by Type of Study

Studies are classified into seven types as shown below.

Table 1-1 Type of study

Type of Study	Definition
1. M/P	Studies for formulating master plans
2. M/P+F/S	Studies which include both M/P and Feasibility Studies (F/S)
3. F/S	Feasibility studies
4. D/D	Studies for detailed designs
5. Basic Studies	Studies to provide basic data, such as maps of various types, nautical charts and groundwater surveys, forestry and fishery resources studies, and agricultural verification studies
6. Chinese Factories	Studies on modernization of existing factories in China
7. Others *	Studies for Aftercare Services, etc.

Note: * Indicates Other Studies under the Social Development Sector and the Agricultural Development Sector, also M/P and F/S under the Mining and Industrial Development Sector, unless specific explanation is given.

(4) Definition of Development Studies by Type of study

The definition of each of the above-mentioned types of Development Studies is given according to the objectives as follows.

i) Master Plan Studies (M/P)

A master plan study is carried out to determine a basic development strategy by formulating a comprehensive regional or sectoral plan. The formulation of a master plan is the first stage in the development project cycle. It serves to coordinate and facilitate efficient implementation of various individual projects. A project proposed by a master plan study may be implemented (in line with the recommendation of the study) immediately after the completion of the study or may be carried out several years after its implementation.

ii) Master Plan/Feasibility Studies (M/P+F/S)

These are studies in which both the master plan and feasibility studies are undertaken.

iii) Feasibility Studies (F/S)

A feasibility study is conducted to examine the rationale, appropriateness, investment effects, etc. of a particular development project. In general, it is to determine systematically and objectively whether the proposed project is viable and feasible socially, technically, economically and financially as well as in terms of operation and maintenance, organization and institution, and preservation of social and natural environment. A feasibility study report serves as important reference for the government agencies and officials to make policy decisions concerning whether the country should proceed with the implementation of proposed projects. It also provides bilateral and multilateral aid agencies to which a request for financial assistance is addressed, with necessary information to determine whether the proposed project is appropriate for assistance.

iv) Detailed Design Studies (D/D)

A detailed design study is used to develop the design documents (including data

and specific draft drawings and specifications) needed to begin project construction work as planned. In this phase, since all detailed investigations related to a project's detailed design must be covered, considerable cost and time is generally required for the study. This type of study is followed by the selection of the contractor through competitive bidding, then the actual construction. Detailed design studies are indispensable in implementing projects in a timely and orderly manner, and to ensure the effectiveness of financial assistance.

v) Basic Studies (Long-term Studies, Topographical Studies, Groundwater Development Studies, Forestry and Fishery Resources Studies, Agricultural Verification Studies, etc.)

Long-term Studies

Formulation of region-wide plans (eg. river water management or irrigation plans), integrated regional resources development plans and examination of alternative policy measures for environmental protection, often require extended and continuous accumulation of relevant basic data. The lack of such data or capacity to collect and compile it may become a major impeding factor against the implementation of development plans. In such cases, a team of experts is usually sent to stay in the recipient country for a long period, and collect, record, compile and analyze relevant basic data through long-term observations.

Topographical Studies

The presence of basic maps of a country land and its cities is often a necessary condition for planning and implementation of development projects. However, in many regions of developing countries, topographical drawings of national territories and cities have been virtually non-existent, or have been inappropriate for practical use, due to the lack of standardized mapping methods. This situation leads to difficulty in formulating and implementing development projects as well as in coping with urban problems that are becoming increasingly serious. Therefore, the findings of topographical studies greatly serve to overcome such difficulties in developing countries by providing basic data and information.

Groundwater Development Studies

These studies search for groundwater and investigate the feasibility of its utilization for irrigation, the supply of drinking water and the supply of water for

industry. In such places as dry lands where severe droughts are frequent or regions where the quality of water is not suitable for drinking, the supply of drinking water is an urgent task. It is also so in some regions which face deterioration, sometimes due to over consumption, of drinking water. Thus, in these regions groundwater development is urgently needed in order to improve the lives of the residents.

Forestry and Fishery Resources Studies

These studies aim to collect basic data on forestry and fishery resources and to contribute to various development planning based on appropriate control of resources.

Agricultural Verification Studies

These studies aim to collect basic data on meteorology, hydrology, pedology and other natural conditions. The studies are also conducted for verification and include experiments on introduction of new varieties, experiments on the methods of cultivation of new varieties under different conditions and experiments on the introduction of transplant methods.

Resource Studies

This is a type of Pre-Feasibility Study which is usually conducted to assess mineral resource deposits in certain areas to determine development possibilities.

vi) Studies on the Factories Modernization Program in China

The studies have been conducted since May 1981 with the aim to conduct research on modernization procedure in existing Chinese factories. The studies resulted from the proposal of the Chinese National Economic Commission which was addressed to the Ministry of International Trade and Industry during the Japan-China High Level Administrative Meeting.

vii) Other Studies (Pre-Feasibility Studies, etc.)

These are studies which require additional study (eg. those requested from a concerned country for implementation of projects; those carried out in response to the change of socio-economic or natural conditions; or those including additional integration for the construction due to the elapsed time; and those requiring review of medium-term plan according to sectors) are increasing. Additional studies

toward these requests are now underway. Pre-Feasibility Studies are also classified as "Other Studies".

(5) Classification by Sector

The sectors are shown according to the following classification employed by JICA Practical Handbook on Statistics (January 1994).

Table 1-2 Sector of Studies

Sector	Subsector	Sub-subsector
1. Planning & Administration	(1) Development Plan	1) General 2) Integrated Regional Development Plan
	(2) Administration	1) General 2) Public Finance & Banking 3) Environmental Problems 4) Statistics 5) Information & Public Relations
2. Public Works & Utilities	(1) Public Utilities	1) General 2) Water Supply 3) Sewerage 4) Urban Sanitation
	(2) Transportation	1) General 2) Road 3) Land Transportation 4) Railway 5) Marine Transportation & Ships 6) Port 7) Air Transportation & Airport 8) Urban Transportation 9) Meteorology & Seismology
	(3) Social Infrastructure	1) General 2) River & Erosion Control 3) Water Resources Development 4) Urban Planning & Land Development 5) Architecture & Housing 6) Survey & Mapping
	(4) Communications & Broadcasting	1) General 2) Post 3) Telecommunication 4) Broadcasting

3. Agriculture, Forestry & Fishery	(1) Agriculture	1) General 2) Sericulture 3) Irrigation, Drainage & Reclamation 4) Agricultural Machinery 5) Agricultural Processing
	(2) Animal Husbandry	1) Animal Husbandry 2) Animal Health 3) Livestock Processing
	(3) Forestry	1) Forestry & Forest Conservation 2) Timber Processing
	(4) Fishery	1) Fishery 2) Fish Processing
4. Commerce & Tourism	(1) Tourism	1) General 2) Tourism Infrastructure
5. Mining, Industry & Energy	(1) Mining	1) Mining
	(2) Industry	1) General 2) Chemical 3) Steel & Nonferrous Metals 4) Ceramics 5) Machine Industry 6) Others
	(3) Energy	1) General 2) Hydraulic Power 3) Thermal Power 4) Transmission & Distribution 5) Gas, Coal & Oil 6) New & Recycled Energy
6. Others	(1) Others	1) Others

3. Criteria for Classification of Present Status of Use of Study Findings

Two sets of criteria for classification of the present status on the use of the Study findings are defined and used according to the type of Development Study.

3-1. M/P Studies Group

Master Plan Studies (M/P), Basic Studies (B/S), Studies on the Factory Modernization Program in China, and Other Studies are collectively named the M/P Studies Group. Information is sought on whether or not their recommendations (including overall plans and priority programs) or outputs (such as maps, bodies of basic data, and guidelines) have been adopted or utilized toward the realization of development goals. The present status is classified into three categories: 1) In Progress or In Use, 2) Delayed, and 3) Discontinued or Cancelled.

The criteria for determining the present status above is as shown in the Table 1-3.

Table 1-3 Status for M/P Studies Group

Present Status	Criteria
a. In Progress or In Use	<p>A Study is classified into this category when its findings or proposals are sufficiently utilized in the following manner.</p> <ol style="list-style-type: none"> 1) Based on the proposals, more specific and detailed studies are, or have been, undertaken. Alternatively, the Study findings are utilized to undertake some development study or planning. 2) Further Japanese technical cooperation is started on the basis of the proposals or Study findings. 3) Proposals are incorporated into the development policy or plan of the recipient country. Alternatively, Study findings are utilized to formulate the development policy or plan. 4) The government of the recipient country is taking some preparatory step to utilize the proposals.
b. Delayed	<p>A Study is classified as "delayed", when its findings or proposals are in one of the following conditions.</p> <ol style="list-style-type: none"> 1) No significant action has been taken by the government of the recipient country to utilize the proposals or findings. 2) The government of the recipient country began to act on the proposals, or utilize the findings, but the effort was halted for some reason.
c. Discontinued or Cancelled	<p>A Study is classified into this category when its findings or proposals are in one of the following conditions.</p> <ol style="list-style-type: none"> 1) The government of the recipient country made an explicit decision not to act on the proposals. 2) The government decided to act on, or utilize, different proposals or findings from other sources. 3) No actions have been or will be taken "for the considerable period of time".

3-2. F/S Studies Group

Feasibility studies (F/S), master plan/feasibility studies (M/P+F/S) and detailed design studies (D/D) and other studies are collectively named the F/S Studies Group. Information is sought on whether or not the projects or programs they appraised or proposed have been implemented. The present status is classified into four categories: A) Completed or In Progress, B) Promoting, C) Delayed or Suspended, and D) Discontinued or Cancelled. The category of "Completed or In Progress" is further divided into four sub-categories: A1) Completed, A2) Partially Completed, A3) Implementing, and A4) Processing.

The criteria for classification of proposed projects are shown in the Table 1-4.

Table 1-4 Status for F/S Studies Group

Present Status	Criteria
A. Completed or In Progress	
A1. Completed	The proposed development project has been already completed and is in use.
A2. Partially Completed	The proposed development project is partially completed and is in use.
A3. Implementing	The implementation of the project is underway.
A4. Processing	<p>The project is at one of the following stages.</p> <ol style="list-style-type: none"> 1) Tenders have been invited. 2) Financing of the project has been secured. * 3) Following the completion of the JICA feasibility study, the basic design study or some other specific step is being undertaken with bilateral or multilateral financial assistance. 4) For some other reasons, the project concerned is considered highly likely to be implemented in the future.

B. Promoting	<p>The project concerned is at one of the following stages.</p> <ol style="list-style-type: none"> 1) The government of the recipient country is requesting financial support from international organizations and/or foreign governments including Japan. 2) The government of the recipient country has been undertaking the detailed design study or other additional studies subsequent to the JICA feasibility study. 3) The recipient country is actively promoting the implementation of the project in some other way.
C. Delayed or Suspended	<p>The project concerned is at one of the following stages.</p> <ol style="list-style-type: none"> 1) The government of the recipient country has not taken any specific action after the completion of the JICA Study. 2) The government of the recipient country has at one point promoted the proposed project but suspended the effort for some reason.
D. Discontinued or Cancelled	<p>The project concerned is at one of the following stages.</p> <ol style="list-style-type: none"> 1) The government of the recipient country officially cancelled the proposed project. 2) The government of the recipient country implemented an alternative which was substantially different from the proposal of the JICA Study. 3) No actions have been or will be taken "for the considerable period of time".

Note : * Either the loan agreement is signed or the government commitment is confirmed in the form of an official pledge.

4. Related Information

As for the collection of related information, various internal materials and reports were utilized to supplement deficient content.

CHAPTER 2. AN OVERVIEW OF COMPLETED DEVELOPMENT STUDIES

1. Classification of Development Studies by Year of Completion

The total number of Development Studies completed by the end of FY 1997 (the end of March 1998) is 1,555: 746 in the Social Development Sector, 313 in the Agricultural Development Sector and 96 in the Mining and Industrial Development Sector (See Table 2-1). The number of Studies was around 20-30 per annum during the 1970s, and has reached around 60-80 per annum since the 1980s.

Table 2-1 Time Trend of the Number of Development Studies

Year of Completion	Social Development	Agricultural Development	Mining and Industrial Development	Total
1974	1	0	1	2
1975	5	0	9	14
1976	9	4	9	22
1977	20	7	15	42
1978	25	7	12	44
sub total	60	18	46	124
1979	24	12	17	53
1980	30	8	20	58
1981	27	9	22	58
1982	34	18	20	72
1983	32	13	21	66
sub total	147	60	100	307
1984	39	15	23	77
1985	39	11	26	76
1986	28	11	23	62
1987	43	11	23	77
1988	30	19	29	78
sub total	179	67	124	370
1989	45	23	16	84
1990	36	23	23	82
1991	31	14	27	72
1992	40	17	20	77
1993	41	12	25	78
sub total	193	89	111	393
1994	42	22	29	93
1995	44	17	28	89
1996	46	14	25	85
1997	35	26	33	94
sub total	167	79	115	361
Total	746	313	496	1555

2. Classification of Development Studies by Region

The number of Studies carried out in Asia is 922, which accounts for 59.3% of the total. It indicates that Development Studies have been centered in Asia. The nine countries of ASEAN account for 38.8% (604 Studies) of the total. Central and South America ranks next at 16.4% (255 Studies) while the Middle East (163 Studies) and Africa (152 Studies) have shares of about 10.0% respectively.

A marked difference cannot be seen in the distribution of type of Study across different regions except Oceania and Europe where a limited number of Studies were dealt with. All Studies, M/P, M/P+F/S and F/S, are concentrated in Asia, especially in the ASEAN countries. Also, there is no significant difference in the distribution of Studies by sector across different regions. Transportation has the largest share in every region.

However, differences can be observed at the sub-subsector level of Transportation. In the ASEAN countries and Africa, the share of Road studies is the largest while, in non-ASEAN countries in Asia and in Central and South America, a largest portion of Studies have been conducted in Port.

Likewise, in ASEAN countries, Social Infrastructure and Communications & Broadcasting have a high share compared with other regions.

Table 2-2 Classification by Region

Region	Social Development	Agricultural Development	Mining and Industrial Development	Total
Asia	434 (58.2%)	171 (54.6%)	317 (63.9%)	922 (59.3%)
ASEAN	325 (43.6%)	116 (37.1%)	163 (32.9%)	604 (38.8%)
Others	109 (14.6%)	55 (17.6%)	154 (31.0%)	318 (20.5%)
Middle East	74 (9.9%)	35 (11.2%)	54 (10.9%)	163 (10.5%)
Africa	77 (10.3%)	40 (12.8%)	35 (7.1%)	152 (9.8%)
Central & South America	127 (17.0%)	58 (18.5%)	70 (14.1%)	255 (16.4%)
Oceania	11 (1.5%)	6 (1.9%)	4 (0.8%)	21 (1.4%)
Europe	16 (2.1%)	3 (1.0%)	16 (3.2%)	35 (2.3%)
Plural Countries	7 (0.9%)	0 (0.0%)	0 (0.0%)	7 (0.5%)
Total	746 (100.0%)	313 (100.0%)	496 (100.0%)	1555 (100.0%)

3. Classification of Development Studies by Country

The total number of Development Studies carried out in the nine countries of ASEAN is 604. It is a region that has received the bulk of Development Studies within the Asian region. Among them Indonesia has received the largest number of Studies (209 Studies), followed by Thailand (138 Studies), Philippines (135 Studies), Malaysia (66 Studies) and Viet Nam (20 Studies). China has a larger number of 166 Studies. Apart from these countries, the following 12 countries have had more than 20 Development Studies conducted: Bangladesh, Nepal, Pakistan and Sri Lanka (in Asia); Egypt and Turkey (in the Middle East), Kenya and Tanzania (in Africa); Bolivia, Colombia, Mexico and Paraguay (in Central and South America).

Table 2-3 Classification by Country

* ASEAN

	Planning and Administration	Public Works and Utilities	Transportation					Social Infrastructure	Communications and Broadcasting	Tourism	Agriculture	Animal Husbandry	Forestry	Fishery	Mining	Industry	Energy	Others **	Total
			Road	Railway	Port	Air Transportation and Airport	Others												
Bangladesh			1	1	2	1	1	5	1		6				5	2		25	
Bhutan								1			1							2	
Brunei *							1	1				1			1			4	
Cambodia		1	1		1				1	2							1	7	
China	7	1	1	5	5	4	1	7	2	12	1			2	105	6	4	166	
India				3	3		1			2					4	2		15	
Indonesia *	6	11	13	7	11	5	7	31	19	3	21	6	1	1	21	31	6	209	
Korea		1		1				2			1				1	1		7	
Laos *		1	2					3			4						2	12	
Malaysia *	2	4	9	3	4		3	12	4	1	4	3	2		7	7	1	66	
Maldives								1										1	
Mongolia		1		2				1	1	2		1		1			1	10	
Myanmar *				2			2			4					3	2		14	
Nepal			2			3		6	2	5		1			3	5		27	
Pakistan		1		1	3		5	1	1	11					2	4		29	
Philippines *	1	5	16	1	6	2	7	21	3	1	28	2	4	1	9	23	2	135	
Singapore *			1		1		1		1								2	6	
Sri Lanka		2	2		5	1			4	9			1		3	2		29	
Thailand *	7	10	16	5	5	1	10	10	5	3	28	1	1	1	15	17	3	138	
Viet Nam *	1	1	1	1	1	1	3	2		2			1		3	2	1	20	
Algeria							1			1					2			4	
Egypt	3	5	2	2	3	1	4	1	3	9	1				7	1		42	
Iran	1				1					2					2	2		8	
Iraq							1	1		1					1			4	
Jordan	2	1	1		1			3		1	2				2	1		14	
Morocco		1		1		1		3		2		1					1	10	
Oman			2		1			1		5					4	2	1	16	
Qatar		1																1	
Saudi Arabia								2							3		1	6	
Sudan			2							2					1			5	
Syria		1			1				1						2	1		6	
Tunisia			1					3		1		1			1	3	1	11	
Turkey	1	1	2		2					3			1		1	11		22	
United Arab Emirates								2		1			1		1	1		6	
Yemen		2			1		1		1	1					1			7	
Palestine		1																1	
Burkina Faso										1								1	
Cameroon										1							1	2	
Djibuti					1													1	
Ethiopia								2		1		1				1		5	
Gabon													1					1	
Ghana										2								2	
Guinea							1	1		1								3	
Cote d'Ivoire										2								2	
Kenya	1	4	5				1	3		1	3				3	3		24	
Liberia			1														1	2	
Madagascar		1	1		1			1	1								1	6	
Malawi										1		1					2	4	
Mali								1		4							1	6	
Mauritania										1								1	
Mauritius		2	2					1									1	6	
Mozambique					1													1	
Niger							1	1		3					1			6	
Nigeria					1			2		1					1			5	
Rwanda			1					1										2	

	Planning and Administration	Public Works and Utilities	Transportation					Social Infrastructure	Communications and Broadcasting	Tourism	Agriculture	Animal Husbandry	Forestry	Fishery	Mining	Industry	Energy	Others **	Total
			Road	Railway	Port	Air Transportation and Airport	Others												
Sao Tome and Principe																1		1	
Senegal				1			1	2		2			1			1		8	
Sierra Leone			1							1								2	
Swaziland						1										2		3	
Tanzania	1	2	3				2	3	1	1		1		1	2	5		25	
Uganda			1					2	1	1				1				6	
Rep. of Congo			1	1			2											4	
Zambia			1			1		2	2	2		1		1	3			13	
Zimbabwe	1	1		1					2	3					2			10	
Argentina	2			1	1			1	1	1		1			2	1	1	15	
Bolivia	1	1	4	3		2		4	1	1		1		1	1	1		24	
Brazil	3			1	2		1	5							1	3	1	17	
Chile		1	2	1	1			1		2		1			2	2		13	
Colombia	1		2				2	2		5		1	1		2	5		21	
Costa Rica	1				2	1		1		1		1				4		11	
Dominican Republic					1			1	1	4						2		9	
Ecuador					1		1	2		2		1	1		2	3		13	
El Salvador							1	1		1					1			3	
Grenada			1															1	
Guatemala		2			1	1	2	3		2		1			1	1		11	
Guyana																1		1	
Honduras					1	1	1	2	1	5		2	2			1	1	17	
Jamaica										2								2	
Mexico	2	1		4	3		1			1	1			3	2	2	2	22	
Nicaragua		2	1					1										4	
Panama			1		2		3	1	1	1		1	1			1		12	
Paraguay	1	1	2			1	4	1	2	6		2			3	1		24	
Peru		1			1	1		3		1			2	1	1	5		16	
Trinidad and Tobago		1														1		2	
Uruguay					1	1						2			3			7	
Venezuela	1				1			2							1	2		7	
Cook Islands	1				1													2	
Fiji							1					2	1					4	
Kiribati					1											1		3	
Papua New Guinea		1	1			1			1				1			1		6	
Solomon Islands						1			1				1	1				4	
Tonga																	1	1	
Samoa					1													1	
Slovenia																	1	1	
Kazakhstan		1		1														2	
Kyrgyz			1			1				1					1			4	
Uzbekistan	1								1						1			3	
Albania		1																1	
Bulgaria		1		1						1					1	2		6	
Czechoslovakia																1		1	
Greece									1									1	
Hungary	1	1													1	1	1	5	
Poland		1		1			1								2		1	6	
Portugal															1			1	
Romania		1								1					1			3	
Slovakia																1		1	
Plural countries			1				2	2	2									7	
Total	52	80	110	51	82	34	75	179	67	14	249	2	36	26	15	252	200	31	1555

** "Others" consist of 2 projects (Indonesia and Honduras) in Social Development Sector and 29 projects in Mining & Industrial Development Sector.

4. Distribution of the Number of Studies by Type of Study

The number of the Development Studies conducted since 1974 is 1,555 out of which F/S account for 45.7% and M/P for 22.2%, while the combined studies of M/P and F/S account for 14.7%. As for the number of Studies per annum, it is notable that the combined studies of M/P and F/S show upward tendency. This may be attributable to the fact that M/P has become increasingly important and also to the practice that the feasibility study which follows the master plan study is conducted simultaneously with the latter; in other words, the findings of master plan study are fully utilized in lieu of foreseeable features of feasibility study.

Table 2-4 Distribution by Type of Study

	M/P	M/P+F/S	F/S	D/D	Basic Studies	Chinese Factories	Other * Studies	Total
1974	0	0	1	0	0	0	1	2
1975	9	0	4	0	0	0	1	14
1976	2	0	17	0	2	0	1	22
1977	7	0	24	2	4	0	5	42
1978	6	2	27	0	7	0	2	44
sub total	24	2	73	2	13	0	10	124
1979	11	2	31	0	3	0	6	53
1980	12	2	37	3	1	0	3	58
1981	6	5	39	1	3	0	4	58
1982	5	10	38	2	9	3	5	72
1983	9	5	36	0	6	6	4	66
sub total	43	24	181	6	22	9	22	307
1984	10	6	52	0	3	4	2	77
1985	15	6	40	0	4	8	3	76
1986	11	7	31	1	2	7	3	62
1987	19	6	39	0	4	8	1	77
1988	14	9	36	1	5	8	5	78
sub total	69	34	198	2	18	35	14	370
1989	17	21	37	1	2	4	2	84
1990	14	14	40	1	5	8	0	82
1991	23	8	30	1	2	7	1	72
1992	20	17	28	1	7	4	0	77
1993	24	20	23	2	4	5	0	78
sub total	98	80	158	6	20	28	3	393
1994	23	22	30	1	3	9	5	93
1995	32	22	23	0	4	7	1	89
1996	31	20	20	4	2	8	0	85
1997	25	24	28	2	5	7	3	94
sub total	111	88	101	7	14	31	9	361
Total	345 (22.2%)	228 (14.7%)	711 (45.7%)	23 (1.5%)	87 (5.6%)	103 (6.6%)	58 (3.7%)	1555 (100.0%)

* The category of Other Studies is composed of "Other Studies" of the Social Development Sector and the Agricultural Development Sector, and "Other Studies (M/P type)" and "Other Studies (F/S type)" of the Mining and Industrial Development Sector.

5. Distribution of the Number of Studies by Sector

As shown in the Table 2-5, Transportation holds the largest number of Studies both in sector-wise distribution and the types of the Study except the Basic Study in which Social Infrastructure has the greatest share (due to the inclusion of the Studies conducted in the areas of Groundwater Development and Topographic Mapping, having resulted in 46.0 % of the total Basic Studies).

It can be observed that F/S is highly demanded by such sectors as Road, Railway, Agriculture and Energy, in accounting for over 60% of the total. On the other hand, over 50% of all the studies for M/P or M/P+F/S are conducted for the sectors of Planning and Administration, the Public Utilities, Port and Others of Transportation reflecting the character of the projects under the sector where more comprehensive development planning is needed, rather than the project-by-project planning.

In other words, M/P and M/P+F/S include more comprehensive studies for planning in such areas as Community Development Program, Urban Transportation Development Program, Urban and Land Development Program, etc.

Table 2-5 Distribution by Sector and Type of Study

	M/P	M/P+F/S	F/S	D/D	Basic Studies	Chinese Factories	Other Studies	Total
Planning and Administration	42 (12.2%)	7 (3.1%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	3 (5.2%)	52 (3.3%)
Public Utilities	6 (1.7%)	43 (18.9%)	29 (1.1%)	2 (8.7%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	80 (5.1%)
Road	12 (3.5%)	14 (6.1%)	70 (9.8%)	7 (30.4%)	2 (2.3%)	0 (0.0%)	5 (8.6%)	110 (7.1%)
Railway	9 (2.6%)	4 (1.8%)	31 (4.4%)	1 (4.3%)	1 (1.1%)	0 (0.0%)	5 (8.6%)	51 (3.3%)
Port	8 (2.3%)	38 (16.7%)	30 (4.2%)	1 (4.3%)	0 (0.0%)	0 (0.0%)	5 (8.6%)	82 (5.3%)
Air Transportation and Airport	2 (0.6%)	12 (5.3%)	18 (2.5%)	1 (4.3%)	0 (0.0%)	0 (0.0%)	1 (1.7%)	34 (2.2%)
Others	33 (9.6%)	8 (3.5%)	28 (3.9%)	1 (4.3%)	1 (1.1%)	0 (0.0%)	4 (6.9%)	75 (4.8%)
Transportation sub total	64 (18.6%)	76 (33.3%)	177 (24.9%)	11 (47.8%)	4 (4.6%)	0 (0.0%)	20 (31.5%)	352 (22.6%)
Social Infrastructure	37 (10.7%)	46 (20.2%)	43 (6.0%)	4 (17.4%)	40 (46.0%)	0 (0.0%)	9 (15.5%)	179 (11.5%)
Communications and Broadcasting	13 (3.8%)	13 (5.7%)	36 (5.1%)	3 (13.0%)	2 (2.3%)	0 (0.0%)	0 (0.0%)	67 (4.3%)
Tourism	5 (1.4%)	5 (2.2%)	3 (0.4%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	1 (1.7%)	14 (0.9%)
Agriculture	49 (14.2%)	32 (14.0%)	160 (22.5%)	2 (8.7%)	5 (5.7%)	0 (0.0%)	1 (1.7%)	249 (16.0%)
Animal Husbandry	0 (0.0%)	1 (0.4%)	1 (0.1%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	2 (0.1%)
Forestry	12 (3.5%)	2 (0.9%)	7 (1.0%)	0 (0.0%)	13 (14.9%)	0 (0.0%)	2 (3.4%)	36 (2.3%)
Fishery	5 (1.4%)	3 (1.3%)	6 (0.8%)	1 (4.3%)	9 (10.3%)	0 (0.0%)	2 (3.4%)	26 (1.7%)
Mining	5 (1.4%)	0 (0.0%)	8 (1.1%)	0 (0.0%)	2 (2.3%)	0 (0.0%)	0 (0.0%)	15 (1.0%)
Industry	57 (16.5%)	0 (0.0%)	89 (12.5%)	0 (0.0%)	0 (0.0%)	101 (98.1%)	5 (8.6%)	252 (16.2%)
Energy	37 (10.7%)	0 (0.0%)	146 (20.5%)	0 (0.0%)	12 (13.8%)	0 (0.0%)	5 (8.6%)	200 (12.9%)
Others	13 (3.8%)	0 (0.0%)	6 (0.8%)	0 (0.0%)	0 (0.0%)	2 (1.9%)	10 (17.2%)	31 (2.0%)
Total	345 (100.0%)	228 (100.0%)	711 (100.0%)	23 (100.0%)	87 (100.0%)	103 (100.0%)	58 (100.0%)	1555 (100.0%)

6. Distribution of Studies in Major Sub-sector

Transportation

Transportation is further divided into nine sub-subsectors. There have been 352 Studies conducted for the last 24 years. There are many Studies concentrated in three sub-subsectors: 110 Studies in Road (31.3%), 82 in Port (23.3%) and 51 in Railway (14.5%). These three sub-subsectors account for 69.0% of the total Studies in this subsector. Air Transportation & Airport and Urban

Transportation sub-subsectors come next.

Table 2-6 Transportation

Sub-subsector	Number of Studies
General	15 (4.3%)
Road	110 (31.3%)
Land Transportation	4 (1.1%)
Railway	51 (14.5%)
Marine Transportation & Ships	25 (7.1%)
Port	82 (23.3%)
Air Transportation & Airport	34 (9.7%)
Urban Transportation	30 (8.5%)
Meteorology & Seismology	1 (0.3%)
Total	352 (100.0%)

Social Infrastructure

Social Infrastructure is comprised of six sub-subsectors. There have been 179 Studies conducted during the last 24 years. Among these, the Studies are concentrated in two sub-subsectors: 72 in Water Resources Development (40.2%) and 61 in River & Erosion Control (34.1%). These two sub-subsectors account for more than 74.3% of the total Studies in this subsector.

Table 2-7 Social Infrastructure

Sub-subsector	Number of Studies
General	0 (0.0%)
River & Erosion Control	61 (34.1%)
Water Resources Dev't	72 (40.2%)
Urban Planning & Land Dev't	10 (5.6%)
Architecture & Housing	10 (5.6%)
Survey & Mapping	26 (14.5%)
Total	179 (100.0%)

Public Utilities

Public Utilities is divided into four sub-subsectors. There have been 80 Studies carried out during the last 24 years. 36 Studies (45.0% of total) are in Water Supply, 21 Studies (26.3%) in Urban Sanitation and 20 Studies (25.0%) in Sewerage.

Table 2-8 Public Utilities

Sub-subsector	Number of Studies
General	3 (3.8%)
Water Supply	36 (45.0%)
Sewerage	20 (25.0%)
Urban Sanitation	21 (26.3%)
Total	80 (100.0%)

Communications & Broadcasting

Communications & Broadcasting is divided into four sub-subsectors. There have been 67 Studies conducted during the last 24 years and the overwhelming number of Studies are in Telecommunication (50 Studies, 74.6%).

Table 2-9 Communications & Broadcasting

Sub-subsector	Number of Studies
General	6 (9.0%)
Post	0 (0.0%)
Telecommunication	50 (74.6%)
Broadcasting	11 (16.4%)
Total	67 (100.0%)

Agriculture and Animal Husbandry

Agriculture is divided into five sub-subsectors. For the last 24 years, 251 Studies have been carried out, of which 212 are in General Agriculture.

Table 2-10 Agriculture and Animal Husbandry

Sub-subsector	Number of Studies
General	212 (84.5%)
Sericulture	0 (0.0%)
Irrigation, Drainage & Reclamation	33 (13.1%)
Agricultural Machinery	0 (0.0%)
Agricultural Processing	4 (1.6%)
Animal Husbandry	2 (0.8%)
Total	251 (100.0%)

Forestry and Fishery

Forestry is divided into two sub-subsectors. All 36 Studies carried out in Forestry for the last 24 years are exclusively in Forestry Conservation. Fishery is also classified into two. All 26 Studies conducted is in Fishery that does not include Fish Processing.

Table 2-11 Forestry and Fishery

Sub-subsector	Number of Studies
Forestry & Forestry Conservation	36 (58.1%)
Timber Processing	0 (0.0%)
Fishery	26 (41.9%)
Fish Processing	0 (0.0%)
Total	62 (100.0%)

Mining and Industry

15 Studies for Mining and 252 Studies for Industry have been conducted over the last 24 years.

Table 2-12 Mining and Industry

Sub-subsector	Number of Studies
Mining	15 (5.6%)
Industry General	52 (19.5%)
Chemical Industry	42 (15.7%)
Steel & Nonferrous Metals	29 (10.9%)
Ceramics	13 (4.9%)
Machine Industry	76 (28.5%)
Others	40 (15.0%)
Total	267 (100.0%)

Energy

200 Studies have been conducted over 24-years for the six sub-subsectors under the Energy: 88 for hydraulic power generation and 22 for thermal power generation, accounting for 55.0% of the total number of Studies conducted.

Table 2-13 Energy

Sub-subsector	Number of Studies
Energy General	23 (11.5%)
Hydraulic Power	88 (44.0%)
Thermal Power	22 (11.0%)
Transmission-Distribution	23 (11.5%)
Gas, Coal & Oil	27 (13.5%)
New & Recycled Energy	17 (8.5%)
Total	200 (100.0%)

CHAPTER 3. THE PRESENT STATUS OF THE UTILIZATION OF STUDY FINDINGS

1. Introduction

The present status on utilization of study findings is classified into two sets of categories: the M/P Studies Group and the F/S Studies Group.

The present status of master plan studies, basic studies, studies on Factories Modernization Program in China and other studies (M/P Studies Group) is classified into three groups as shown in the Table 1-3. Some studies which are difficult to clearly define are tentatively classified into the category of "Delayed". The present status of feasibility studies, master plan-cum-feasibility studies and detailed design studies (F/S Studies Group) is classified into four groups as shown in the Table 1-4.

The classification above is based on the fact that the M/P Studies Group and the F/S Studies Group are different in the use of their study findings, and thereby in the appraisal of and the criteria for the present status.

Studies under the M/P Studies Group are evaluated according to the "Utilization Rate" while those under the F/S Studies Group are assessed by "Realization Rate". The M/P Studies Group Studies classified into "In Progress or In Use" are regarded as "Utilized". A Study is classified into "In Progress or In Use" if 1) the investment fund is, or has been, secured for a proposed project, and thereby, the proposed project has been either implemented or completed; or 2) the study findings are incorporated into the development policy or plan of the recipient country. On the other hand, the F/S Studies Group are regarded as "Realized" if a proposed project has been implemented or is highly likely to be implemented. In this case the study is classified into "Completed or In Progress".

The use of the study findings of master plan and other studies of the M/P Studies Group is not confined to the implementation of proposed projects. It can be said that an even more important role of these studies is to contribute to the policy making of government agencies and to the formulation of development plans both at national and regional levels. Basic Studies and Other Studies are aimed at being used for particular purposes such as facilitation of national land development and development planning by collection and compilation of long-term basic data, and providing recommendations on institutional building by drawing up guidelines, for instance. On the other hand, it is considered that the implementation of the F/S

Studies Group is premised on the assumption that a proposed project will be implemented after a study ascertains technical, economical and financial feasibility of a project. Therefore, a study is regarded as "Realized" only if a proposed project is, or has been, implemented.

This chapter attempts to analyze the present situation on the use of master plan and other studies of the M/P Studies Group in detail, by accounting for the specific nature of these development studies. It also provides analysis of feasibility studies and other studies of the F/S Studies Group by centering on the degree of realization of the proposed projects.

2. Present Status of the Use of Study Findings of the M/P Studies Group

(Master Plan Studies, Basic Studies, Studies on Chinese Factories Modernization Program and Other Studies)

The total number of studies under the M/P Studies Group, which have been completed from 1974 to 1997 is 588. 518 out of 588 are classified into "In Progress or In Use". The utilization rate is 88.1%. It can be concluded, therefore, that the findings of the Development Studies have been well-utilized by recipient countries.

Table 3-1 Present Status of the M/P Studies Group by the Year of Completion

	In Progress or In Use	Delayed	Discontinued or Cancelled	Total
1974	1 (100.0%)	0 (0.0%)	0 (0.0%)	1 (100.0%)
1975	7 (70.0%)	1 (10.0%)	2 (20.0%)	10 (100.0%)
1976	2 (40.0%)	1 (20.0%)	2 (40.0%)	5 (100.0%)
1977	11 (68.8%)	1 (6.3%)	4 (25.0%)	16 (100.0%)
1978	12 (80.0%)	0 (0.0%)	3 (20.0%)	15 (100.0%)
1979	17 (89.5%)	0 (0.0%)	2 (10.5%)	19 (100.0%)
1980	14 (87.5%)	0 (0.0%)	2 (12.5%)	16 (100.0%)
1981	11 (84.6%)	0 (0.0%)	2 (15.4%)	13 (100.0%)
1982	19 (86.4%)	0 (0.0%)	3 (13.6%)	22 (100.0%)
1983	21 (84.0%)	1 (4.0%)	3 (12.0%)	25 (100.0%)
1984	15 (78.9%)	1 (5.3%)	3 (15.8%)	19 (100.0%)
1985	25 (83.3%)	2 (6.7%)	3 (10.0%)	30 (100.0%)
1986	20 (95.2%)	0 (0.0%)	1 (4.8%)	21 (100.0%)
1987	28 (87.5%)	0 (0.0%)	4 (12.5%)	32 (100.0%)
1988	27 (81.4%)	4 (12.5%)	1 (3.1%)	32 (100.0%)
1989	23 (95.8%)	1 (4.2%)	0 (0.0%)	24 (100.0%)
1990	23 (85.2%)	4 (14.8%)	0 (0.0%)	27 (100.0%)
1991	29 (87.9%)	3 (9.1%)	1 (3.0%)	33 (100.0%)
1992	28 (90.3%)	2 (6.5%)	1 (3.2%)	31 (100.0%)
1993	32 (97.0%)	1 (3.0%)	0 (0.0%)	33 (100.0%)
1994	37 (94.9%)	2 (5.1%)	0 (0.0%)	39 (100.0%)
1995	43 (97.7%)	1 (2.3%)	0 (0.0%)	44 (100.0%)
1996	39 (95.1%)	2 (4.9%)	0 (0.0%)	41 (100.0%)
1997	36 (90.0%)	3 (7.5%)	1 (2.5%)	40 (100.0%)
Total	520 (88.4%)	30 (5.1%)	38 (6.5%)	588 (100.0%)

2-1. Analysis by Region

Here the utilization rate is analyzed by region except for the Oceanic and the European regions where the small number of Development Studies have been conducted. In Asia where the largest number of Studies have been conducted, 310 out of 347 studies of the M/P Studies Group are classified into "In Progress or In Use" and the utilization rate is 89.3% which is slightly above the average utilization rate of all Studies Group. However, even in the African and the Middle East regions where the utilization rates are lower than the average, they are still as high as 77.8% and 85.2% respectively. Therefore, it can be concluded that the findings of Studies are well-used across the regions.

Table 3-2 Utilization Rate by Region

Present Status	Asia			Middle East	Africa
	ASEAN	Other Asia	Sub Total		
In Progress or In Use	163 (89.6%)	148 (89.7%)	311 (89.6%)	46 (83.2%)	43 (79.6%)
Delayed	9 (4.9%)	11 (6.7%)	20 (5.8%)	1 (1.9%)	4 (7.4%)
Discontinued or Cancelled	10 (5.5%)	6 (3.6%)	16 (4.6%)	7 (13.0%)	7 (13.0%)
Total	182	165	347	54	54

Present Status	Central & South America	Oceania	Europe	Plural Countries	Total
In Progress or In Use	94 (88.7%)	5 (83.3%)	16 (100.0%)	5 (100.0%)	520 (88.4%)
Delayed	5 (4.7%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	30 (5.1%)
Discontinued or Cancelled	7 (6.6%)	1 (16.7%)	0 (0.0%)	0 (0.0%)	38 (6.5%)
Total	106	6	16	5	588

2-2. Analysis by Type of Study

The utilization rate of the study findings on the M/P Study is the highest among the different types of Studies, namely, M/P Study, Basic Study and Other Study. 308 out of 345 (89.3%) are "In Progress or In Use". As for the Chinese Factories Modernization Program, 91 out of 103 (88.3%) studies are classified into "In Progress or In Use" while 88.5% of Basic Studies (77 out of 87) are in such status. Other Studies have 83.0% in the same status.

Table 3-3 Utilization Rate by Type of Study

Present Status	M/P	Chinese Factories	Basic Studies	Other Studies	Total
In Progress or In Use	308 (89.3%)	91 (88.3%)	77 (88.5%)	44 (83.0%)	520 (88.4%)
Delayed	15 (4.3%)	9 (8.7%)	5 (5.7%)	1 (1.9%)	30 (5.1%)
Discontinued or Cancelled	22 (6.4%)	3 (2.9%)	5 (5.7%)	8 (15.1%)	38 (6.5%)
Total	345 (100.0%)	103 (100.0%)	87 (100.0%)	53 (100.0%)	588 (100.0%)

2-3. Analysis by Sector

The number of the Development Studies undertaken in the three Sectors are 248 for the Social Development Sector, 98 for the Agricultural Development Sector and 242 for the Mining and Industrial Development Sector with high utilization rates of 91.5%, 92.9% and 83.5% respectively.

Studies completed for Transport are the most common across the three different types of Studies. Out of 88 Studies for Transportation sub-sector, 80 (90.9%) are "In Progress or In Use", and 76 out of 86 Studies for Social Infrastructure are "In Progress or In Use" (utilization rate is 88.4%). It can be concluded that the average utilization rate across the sectors is high.

Table 3-4 Utilization by Sector

Present Status	Social Development			
	M/P	Basic Studies	Other Studies	sub total
In Progress or In Use	154 (91.1%)	44 (95.7%)	29 (87.9%)	227 (91.5%)
Delayed	5 (3.0%)	0 (0.0%)	0 (0.0%)	5 (2.0%)
Discontinued or Cancelled	10 (5.9%)	2 (4.3%)	4 (12.1%)	16 (6.5%)
Total	169 (100.0%)	46 (100.0%)	33 (100.0%)	248 (100.0%)

Present Status	Agricultural Development			
	M/P	Basic Studies	Other Studies	sub total
In Progress or In Use	62 (93.9%)	25 (92.6%)	4 (80.0%)	91 (92.9%)
Delayed	3 (4.5%)	1 (3.7%)	0 (0.0%)	4 (4.1%)
Discontinued or Cancelled	1 (1.5%)	1 (3.7%)	1 (20.0%)	3 (3.1%)
Total	66 (100.0%)	27 (100.0%)	5 (100.0%)	98 (100.0%)

Present Status	Mining & Industrial Development					Total
	M/P	Chinese Factories	Basic Studies	Other Studies	sub total	
In Progress or In Use	92 (83.6%)	91 (88.3%)	8 (37.1%)	11 (73.3%)	202 (83.5%)	520 (88.4%)
Delayed	7 (6.4%)	9 (8.7%)	4 (28.6%)	1 (6.7%)	21 (8.7%)	30 (5.1%)
Discontinued or Cancelled	11 (10.0%)	3 (2.9%)	2 (14.3%)	3 (20.0%)	19 (7.9%)	38 (6.5%)
Total	110 (100.0%)	103 (100.0%)	14 (100.0%)	15 (100.0%)	242 (100.0%)	588 (100.0%)

Among the sub-sectors in the Agricultural Development Sector in which 98 Development Studies have been completed, 55 Studies are in the Agriculture sub-

sector. The Forestry sub-sector comes next and the Fishery comes after that. Among the sub-sectors in Mining & Industrial Development, in which 242 Studies have been completed, over half (160 Studies) of them are in Industry. There is no significant difference among the utilization rates of each sub-sector.

Table 3-5 Utilization Rate by Sub-sector

Present Status	Social Development									
	Planning and Administration	Public Utilities	Transportation						Social Infrastructure	Communications & Broadcasting
			Road	Railway	Port	Air Transportation & Airport	Other	sub total		
In Progress or In Use	43 (95.6%)	6 (100.0%)	18 (91.7%)	14 (93.3%)	11 (81.6%)	3 (100.0%)	34 (89.5%)	80 (90.9%)	76 (88.4%)	14 (93.3%)
Delayed	1 (2.2%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	1 (2.6%)	1 (1.1%)	3 (3.5%)	0 (0.0%)
Discontinued or Cancelled	1 (2.2%)	0 (0.0%)	1 (5.3%)	1 (6.7%)	2 (15.4%)	0 (0.0%)	3 (7.9%)	7 (8.0%)	7 (8.1%)	1 (6.7%)
Total	45 (100.0%)	6 (100.0%)	19 (100.0%)	15 (100.0%)	13 (100.0%)	3 (100.0%)	38 (100.0%)	88 (100.0%)	86 (100.0%)	15 (100.0%)

Present Status	Social Development		Agricultural Development				Mining & Industrial Development				Total
	Tourism	Other	Agriculture	Animal Husbandry	Forestry	Fishery	Mining	Industry	Energy	Other	
In Progress or In Use	6 (100.0%)	2 (100.0%)	52 (91.5%)	0 (0.0%)	25 (92.6%)	14 (87.5%)	5 (71.4%)	135 (94.4%)	41 (78.8%)	21 (91.3%)	520 (88.4%)
Delayed	0 (0.0%)	0 (0.0%)	3 (5.5%)	0 (0.0%)	1 (3.7%)	0 (0.0%)	1 (14.3%)	15 (9.4%)	5 (9.6%)	0 (0.0%)	30 (5.1%)
Discontinued or Cancelled	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	1 (3.7%)	2 (12.5%)	1 (14.3%)	10 (6.3%)	6 (11.5%)	2 (8.7%)	38 (6.5%)
Total	6 (100.0%)	2 (100.0%)	55 (100.0%)	0 (0.0%)	27 (100.0%)	16 (100.0%)	7 (100.0%)	160 (100.0%)	52 (100.0%)	23 (100.0%)	588 (100.0%)

2.4. Details of "In Progress or In Use" Studies

As for studies within the M/P Studies Group, 520 out of 588 are classified into "In Progress or In Use": 308 for M/P, 91 for Chinese Factories Modernization Program, 77 for Basic Studies and 44 for Other Studies. In general, 520 Studies fall into either or both of the following two categories:

- 1) A proposed project has been implemented after finance for the project was

secured; and/or

- 2) Proposals are incorporated into the development policy or plan of the recipient country. Or, study findings are consulted to formulate the development policy or plan.

The largest number of "In Progress or In Use" Studies is in category 1). Within category 1), 266 Studies (51.2%) have been reported to have secured finance for the proposed projects. In particular, 57.1% of the Factories Modernization Program in China (52 out of 91 Studies) have already been financed since their completion. On the contrary, only 33.8% of Basic Studies have been financed. This is because Basic Studies focus on the provision of the basic data or the formulation of topographical maps, etc. Proposals made by 135 out of 520 "In Progress or In Use" Studies (26.0%) are incorporated into the development policy or plan of the recipient country. In particular, 49.4% of "In Progress or In Use" Basic Studies are utilized in the formulation of development policy or plan of the recipient country. In some Development Studies, the proposed projects have been implemented as well as the proposals are incorporated into the development policy or plan of the recipient country.

Concerning Other Studies, Japanese technical cooperation has been undertaken for the 93 Development Studies.

Table 3-6 Details of "In Progress or In Use" Studies of M/P Group

Details	M/P	Chinese Factories	Basic Studies	Other Studies	Total
Subsequent Studies	127 (41.2%)	1 (1.1%)	16 (20.8%)	10 (22.7%)	154 (29.6%)
Financed	165 (53.6%)	52 (57.1%)	26 (33.8%)	23 (52.3%)	266 (51.2%)
Technical Cooperation	73 (23.7%)	0 (0.0%)	10 (13.0%)	10 (22.7%)	93 (17.9%)
Nat'l Dev't Policy/Plan	87 (28.2%)	2 (2.2%)	38 (49.4%)	8 (18.2%)	135 (26.0%)
Others	91 (29.5%)	30 (33.0%)	44 (57.1%)	11 (25.0%)	176 (33.8%)
Total	543	85	134	62	824
The number of Studies	308	91	77	44	520

* Because of the multiple entries, the sum is larger than 100%.

3. Present Status of the Use of Study Findings of the F/S Studies Group

(Feasibility Studies, Master Plan/ Feasibility Studies, Detailed Design Studies and Other Studies)

Table 3-7 shows the number of studies and their present status according to the year of completion. The number of Studies of the F/S Studies Group which were completed from 1974 to 1997 is 967. 711 of them are F/S (73.5%), 228 are M/P+F/S (23.6%), 23 are D/D (2.4%) and 5 are Others (0.5%). The number of the Development Studies which are classified into the category of "Completed or In Progress" is 562 (58.1%). The number of the "Promoting" Studies is 180 (18.6%). 107 Studies (11.1%) are classified into "Delayed or Suspended". 118 Development Studies (12.2%) are considered to be "Discontinued or Cancelled".

Table 3-7 Present Status of the F/S Studies Group by the Year of Completion

Year of Completion	Completed or In Progress	Promoting	Delayed or Suspended	Discontinued or Cancelled	Total
1974	1	0	0	0	1
1975	2	0	1	1	4
1976	13	1	1	2	17
1977	17	1	3	5	26
1978	21	1	1	6	29
1979	20	0	3	11	34
1980	22	1	3	16	42
1981	31	3	4	7	45
1982	31	3	4	12	50
1983	19	3	7	12	41
1984	38	3	9	8	58
1985	26	2	7	11	46
1986	26	2	4	9	41
1987	28	4	9	4	45
1988	23	6	14	3	46
1989	43	6	9	2	60
1990	42	7	2	4	55
1991	19	8	8	4	39
1992	28	15	3	0	46
1993	29	12	4	0	45
1994	28	21	4	1	54
1995	24	17	4	0	45
1996	25	19	0	0	44
1997	6	45	3	0	54
Total	562 (58.1%)	180 (18.6%)	107 (11.1%)	118 (12.2%)	967 (100.0%)

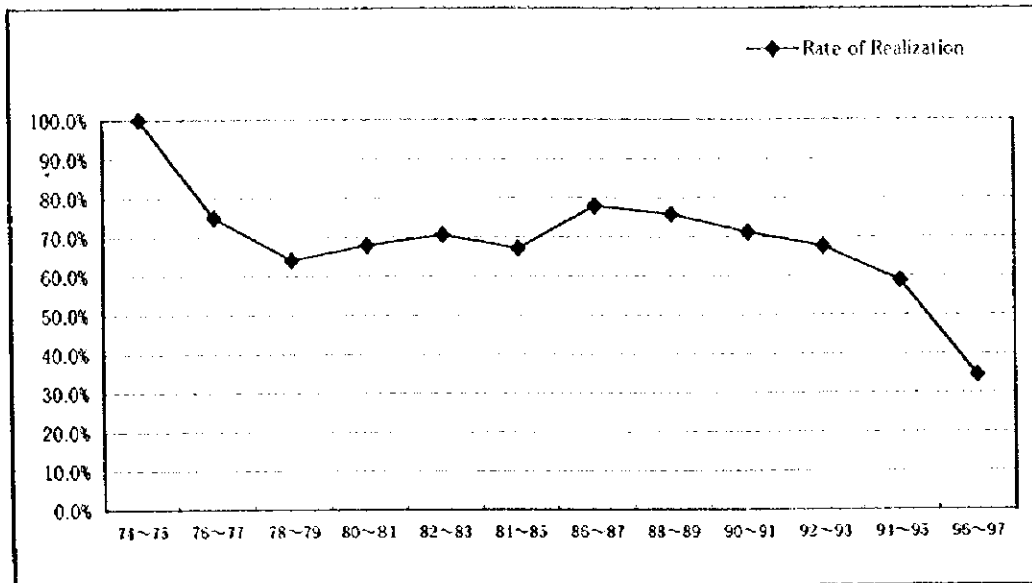
Table 3-8 and Figure 3-1 show the trend of the number of Studies, their present status and the realization rate in Social Development and Agricultural Development Sectors. For the first five years, the annual average number of

Development Studies completed was 15 and the realization rate was notably high at over 70%. The number increases to 76 in 1984-85 whereas the realization rate stays a little less than 70%. The percentage increases a little over 70% until 1992-1993 and begins to decline after that. This is due to the time elapsed after the completion of the study has been comparatively short that most of the studies were classified into "Promoting". Considering the evidence that approximately 5 years is imperative until the realization, the number is expected to increase when projects are realized in the future.

Table 3-8 Trend of the Realization Rate
in Social and Agricultural Development Sectors

Present Status	74-75	76-77	78-79	80-81	82-83	84-85	86-87	88-89	90-91	92-93	94-95	96-97	Total
Completed	2	19	20	22	20	25	15	10	14	6	0	0	153
Partially Completed	0	2	4	10	21	18	21	24	17	23	17	0	157
Implementing	0	0	0	2	5	7	8	23	14	15	25	19	118
Processing	0	0	1	2	2	1	2	6	7	4	5	9	39
Sub Total	2	21	25	36	48	51	46	63	52	48	47	28	467
Rate of Realization	100.0%	75.0%	64.1%	67.9%	70.6%	67.1%	78.0%	75.9%	71.2%	67.6%	58.8%	34.6%	65.5%
Promoting	0	1	1	3	4	5	3	10	11	18	29	51	136
Delayed or Suspended	0	0	0	1	2	5	2	8	6	5	4	2	35
Discontinued or Cancelled	0	6	13	13	14	15	8	2	4	0	0	0	75
Total	2	28	39	53	68	76	59	83	73	71	80	81	713

Figure 3-1 Trend of the Realization Rate
in Social and Agricultural Development Sectors



3-1. Analysis by Region

Table 3-8 shows the realization rate by region. In Asia, 363 out of 575 Studies are "Completed or In Progress". The realization rate is 63.1% which is higher than the average of F/S Studies Group (58.1%). Not much variation in the realization rate is observed between the ASEAN countries and the non-ASEAN countries in Asia. In both regions, the realization rates are 64.0% and 60.8%. In the Middle East, the realization rate is slightly lower than the one in Asia. 62 out of 109 Studies are classified into "Completed or In Progress". The realization rate is 56.9%. It is 46.9% in Africa and it is 50.3% in Central and South America. Because the number of Studies completed in Oceania, Europe and Plural countries is very small, it is difficult to make any generalization concerning the realization rate of those regions. Focusing on the difference in the present status of Studies in the Asian region and other regions, the number of the Studies classified into "Promoting" shows 16.3% of the total in Asia while the number indicates 20.8% of the total in Central and South America. In Africa and in Central and South America, 30.6 % and 28.9% are classified into either "Delayed or Suspended" or "Discontinued or Cancelled" respectively. This is due to the political disorder in Africa and deterioration of the economic situation in Central and South America.

Table 3-9 Realization Rate by Region

Present Status	Asia			Middle East	Africa	Central & South America	Oceania	Europe	Plural Countries	Total
	ASEAN	Other Asia	sub total							
Completed or In Progress	270 (64.0%)	93 (60.8%)	363 (63.1%)	62 (56.9%)	46 (46.9%)	75 (50.3%)	7 (16.7%)	9 (47.4%)	0 (0.0%)	562 (58.1%)
Completed	111 (26.3%)	34 (22.2%)	145 (25.2%)	23 (21.1%)	22 (22.4%)	20 (13.4%)	2 (13.3%)	0 (0.0%)	0 (0.0%)	212 (21.9%)
Partially Completed	72 (17.1%)	30 (19.6%)	102 (17.7%)	18 (16.5%)	12 (12.2%)	24 (16.1%)	3 (20.0%)	5 (26.3%)	0 (0.0%)	164 (17.0%)
Implementing	65 (15.4%)	23 (15.0%)	88 (15.3%)	13 (11.9%)	8 (8.2%)	21 (14.1%)	2 (13.3%)	3 (15.8%)	0 (0.0%)	135 (14.0%)
Processing	22 (5.2%)	6 (3.9%)	28 (4.9%)	8 (7.3%)	4 (4.1%)	10 (6.7%)	0 (0.0%)	1 (5.3%)	0 (0.0%)	51 (5.3%)
Promoting	64 (15.2%)	30 (19.6%)	94 (16.3%)	23 (21.1%)	22 (22.4%)	31 (20.8%)	2 (13.3%)	7 (36.8%)	1 (50.0%)	180 (18.6%)
Delayed or Suspended	29 (6.9%)	22 (14.4%)	51 (8.9%)	15 (13.8%)	16 (16.3%)	19 (12.8%)	3 (20.0%)	3 (15.8%)	0 (0.0%)	107 (11.1%)
Discontinued or Cancelled	59 (14.0%)	8 (5.2%)	67 (11.7%)	9 (14.0%)	14 (14.3%)	24 (16.1%)	3 (20.0%)	0 (0.0%)	1 (50.0%)	118 (12.2%)
Total	422	153	575	109	98	149	15	19	2	967

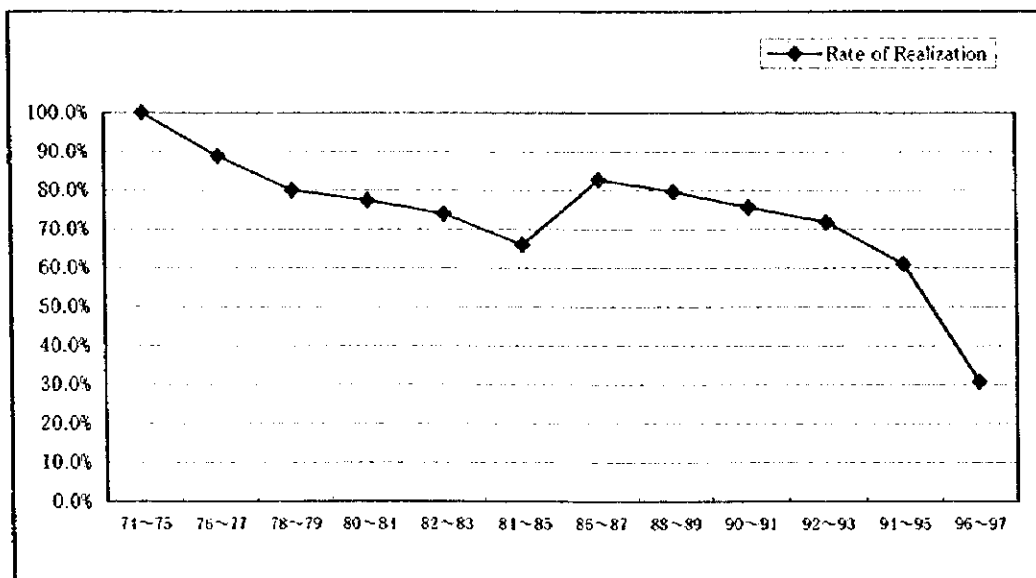
The realization rates in Asia (where Studies were mostly conducted) shown in Table 3-10 and Figure 3-2 indicate a high average of 70%. The rates decline in 1978-85 due to the effect caused by the First Oil Crisis (1974) and the Second Oil Crisis (1979). Considering the high probability that if projects are conducted they are within 5 years after the completion of Studies, it could be assumed that economic deterioration during this period caused the rate to decline. On the same assumption, the realization rate of Studies which were completed after 1985 has increased due to the stabilization of economy.

The realization rate drastically declined from 1994 due to the large skew (48.8%) of the Studies being classified as "Promoting". Therefore, the realization rate is expected to increase when the projects are implemented in the future.

**Table 3-10 Trend of the Realization Rate
in Social and Agricultural Development Sectors in Asia**

Present Status	74~75	76~77	78~79	80~81	82~83	84~85	86~87	88~89	90~91	92~93	94~95	96~97	Total
Completed	1	15	15	15	16	17	8	9	5	4	0	0	105
Partially Completed	0	1	4	5	16	10	11	19	12	14	9	0	101
Implementing	0	0	0	2	3	5	4	16	11	12	13	9	75
Processing	0	0	1	2	2	1	1	3	3	3	3	3	22
Sub Total	1	16	20	24	37	33	24	47	31	33	25	12	303
Rate of Realization	100.0%	88.9%	80.0%	77.4%	74.0%	66.0%	82.8%	79.7%	75.6%	71.7%	61.0%	30.8%	70.5%
Promoting	0	0	0	0	4	6	1	7	7	11	14	25	74
Delayed or Suspended	0	0	0	0	1	2	1	4	2	2	2	2	16
Discontinued or Cancelled	0	2	5	7	8	10	3	1	1	0	0	0	37
Total	1	18	25	31	50	50	29	59	41	46	41	39	430

**Figure 3-2 Trend of the Realization Rate
in Social and Agricultural Development Sectors in Asia**



3-2. Analysis by Type of Study

Table 3-11 shows the realization rate by type of Study. 562 out of 967 completed Studies are considered "Completed or In Progress". The realization rate is 58.1%. 73.9% of D/D are classified as "Completed or In Progress". The realization rate of D/D is the highest among the three types within the F/S Studies Group. The realization rate of F/S and M/P+F/S are 55.6% and 64.5% respectively.

Table 3-11 Realization Rate by Type of Study

Present Status	M/P+F/S	F/S	D/D	Others(F/S)	Total
Completed or In Progress	147 (64.5%)	395 (55.6%)	17 (73.9%)	3 (60.0%)	562 (58.1%)
Completed	21 (9.2%)	182 (25.6%)	7 (30.4%)	2 (40.0%)	212 (21.9%)
Partially Completed	63 (27.6%)	98 (13.8%)	3 (13.0%)	0 (0.0%)	164 (17.0%)
Implementing	53 (23.2%)	76 (10.7%)	5 (21.7%)	1 (20.0%)	135 (14.0%)
Processing	10 (4.4%)	39 (5.5%)	2 (8.7%)	0 (0.0%)	51 (5.3%)
Promoting	66 (28.9%)	110 (15.5%)	4 (17.4%)	0 (0.0%)	180 (18.6%)
Delayed or Suspended	9 (3.9%)	96 (13.5%)	1 (4.3%)	1 (20.0%)	107 (11.1%)
Discontinued or Cancelled	6 (2.6%)	110 (15.5%)	1 (4.3%)	1 (20.0%)	118 (12.2%)
Total	228	711	23	5	967

3-3. Analysis by Sector

Out of 967 studies in the F/S Studies Group, 498 are in the Social Development Sector, 215 are in the Agricultural Development Sector and 254 are in the Mining and Industrial Development Sector. Respective realization rates are 69.3%, 56.7% and 37.4%. In the Social Development Sector, the realization rate of F/S is 70.5% and of M/P+F/S is 67.4% while that of D/D is 70.0%. The reason why the realization rate of D/D is much higher than the rest is that D/D is undertaken on condition that the proposed project will be financed after the completion of Study. A similar tendency can be observed in the Agricultural Development Sector in which the realization rate of D/D is markedly higher than those of F/S and of M/P+F/S.

Table 3-12 Realization Rate by Sector

Present Status	Social Development				Agricultural Development			
	M/P+F/S	F/S	D/D	sub total	M/P+F/S	F/S	D/D	sub total
Completed or In Progress	128 (67.4%)	203 (70.5%)	14 (70.0%)	345 (69.3%)	19 (50.0%)	100 (57.5%)	3 (100.0%)	122 (56.7%)
Completed	19 (10.0%)	84 (29.2%)	5 (25.0%)	108 (21.7%)	2 (5.3%)	41 (23.6%)	2 (66.7%)	45 (20.9%)
Partially Completed	56 (29.5%)	57 (19.8%)	3 (15.0%)	116 (23.3%)	7 (18.4%)	34 (19.5%)	0 (0.0%)	41 (19.1%)
Implementing	44 (23.2%)	44 (15.3%)	4 (20.0%)	92 (18.5%)	9 (23.7%)	16 (9.2%)	1 (33.3%)	26 (12.1%)
Processing	9 (4.7%)	18 (6.3%)	2 (10.0%)	29 (5.8%)	1 (2.6%)	9 (5.2%)	0 (0.0%)	10 (4.7%)
Promoting	49 (25.8%)	27 (9.4%)	4 (20.0%)	80 (16.1%)	17 (41.7%)	39 (22.4%)	0 (0.0%)	56 (26.0%)
Delayed or Suspended	8 (4.2%)	12 (4.2%)	1 (5.0%)	21 (4.2%)	1 (2.6%)	13 (7.5%)	0 (0.0%)	14 (6.5%)
Discontinued or Cancelled	5 (2.6%)	46 (16.0%)	1 (5.0%)	52 (10.4%)	1 (2.6%)	22 (12.6%)	0 (0.0%)	23 (10.7%)
Total	190 (100.0%)	288 (100.0%)	20 (100.0%)	498 (100.0%)	38 (100.0%)	174 (100.0%)	3 (100.0%)	215 (100.0%)

Present Status	Mining & Industrial Development				sub total	Total
	M/P+F/S	F/S	D/D	Others (F/S)		
Completed or In Progress	0 (0.0%)	92 (36.9%)	0 (0.0%)	3 (60.0%)	95 (37.4%)	562 (58.1%)
Completed	0 (0.0%)	57 (22.9%)	0 (0.0%)	2 (40.0%)	59 (23.2%)	212 (21.9%)
Partially Completed	0 (0.0%)	7 (2.8%)	0 (0.0%)	0 (0.0%)	7 (2.8%)	164 (17.0%)
Implementing	0 (0.0%)	16 (6.4%)	0 (0.0%)	1 (20.0%)	17 (6.7%)	135 (14.0%)
Processing	0 (0.0%)	12 (4.8%)	0 (0.0%)	0 (0.0%)	12 (4.7%)	51 (5.3%)
Promoting	0 (0.0%)	44 (17.7%)	0 (0.0%)	0 (0.0%)	44 (17.3%)	180 (18.6%)
Delayed or Suspended	0 (0.0%)	71 (28.5%)	0 (0.0%)	1 (20.0%)	72 (28.3%)	107 (11.1%)
Discontinued or Cancelled	0 (0.0%)	42 (16.9%)	0 (0.0%)	1 (20.0%)	43 (16.9%)	118 (12.2%)
Total	0 (0.0%)	249 (100.0%)	0 (0.0%)	5 (100.0%)	254 (100.0%)	967 (100.0%)

Among the sub-sectors in each sector, the largest number of Development Studies that were completed was Transportation under the Social Development Sector. Its realization rate shows 67.8%, which is higher than that of all the F/S Studies Group (Table 3-13). In Transportation, the realization rate of the Air Transportation & Airport sub-subsector is higher (87.1%) than that of the Transportation sub-sector. In the Agricultural Development Sector, the majority of

Studies has been completed in the Agriculture sub-sector (194 out of 215 studies). The realization rate in this sub-sector is 59.0% which is slightly lower than that of the Agricultural Development Sector (56.7%). Development Studies completed in Animal Husbandry, Forestry and Fishery numbered so few that the exact realization rate could not be obtained.

148 out of 254 Studies completed in the Mining and the Industrial Development Sector were those of Energy, representing the largest portion. The Energy realization rate is 36.5% which is lower than that of the Industrial Development Sector (37.4%). Realization rate of Industry is 39.1%, which is slightly higher than that of Energy. Generalization on Mining is inappropriate due to the limited number of studies completed.

Table 3-13 Realization Rate by Sub-sector

Present Status	Social Development											sub total
	Planning & Administration	Public Utilities	Transportation					Social Infrastructure	Communications & Broadcasting	Tourism		
			Road	Railway	Port	Air Transportation & Airport	Others					
Completed or In Progress	3 (12.9%)	52 (70.3%)	68 (74.7%)	17 (17.2%)	47 (68.1%)	27 (87.4%)	20 (54.1%)	179 (67.8%)	61 (65.6%)	45 (86.5%)	5 (62.5%)	345 (69.3%)
Completed	1 (14.3%)	14 (18.9%)	18 (19.8%)	8 (22.2%)	12 (17.4%)	5 (16.1%)	8 (21.6%)	51 (19.3%)	12 (12.9%)	29 (55.8%)	1 (12.5%)	108 (21.7%)
Partially Completed	1 (11.3%)	21 (28.4%)	22 (24.2%)	6 (16.7%)	15 (21.7%)	11 (35.5%)	8 (21.6%)	62 (23.5%)	19 (20.4%)	11 (21.2%)	2 (25.0%)	116 (23.3%)
Implementing	1 (14.3%)	13 (17.6%)	20 (22.0%)	2 (5.6%)	13 (18.8%)	8 (25.8%)	3 (8.1%)	46 (17.4%)	26 (28.0%)	5 (9.6%)	1 (12.5%)	92 (18.5%)
Processing	0 (0.0%)	4 (5.4%)	8 (8.8%)	1 (2.8%)	7 (10.1%)	3 (9.7%)	1 (2.7%)	20 (7.6%)	4 (4.3%)	0 (0.0%)	1 (12.5%)	29 (5.8%)
Promoting	4 (57.1%)	15 (20.3%)	14 (15.4%)	7 (19.4%)	13 (18.8%)	0 (0.0%)	6 (16.2%)	40 (15.2%)	18 (19.4%)	1 (1.9%)	2 (25.0%)	80 (16.1%)
Delayed or Suspended	0 (0.0%)	5 (6.8%)	2 (2.2%)	1 (2.8%)	1 (1.4%)	1 (3.2%)	3 (8.1%)	8 (3.0%)	7 (7.5%)	1 (1.9%)	0 (0.0%)	21 (4.2%)
Discontinued or Cancelled	0 (0.0%)	2 (2.7%)	7 (7.7%)	11 (30.6%)	8 (11.6%)	3 (9.7%)	8 (21.6%)	37 (14.0%)	7 (7.5%)	5 (9.6%)	1 (12.5%)	52 (10.4%)
Total	7	74	91	36	69	31	37	264	93	52	8	498

Present Status	Agricultural Development					Mining & Industrial Development					Total
	Agriculture	Animal Husbandry	Forestry	Fishery	sub total	Mining	Industry	Energy	Others	sub total	
Completed or In Progress	115 (59.3%)	0 (0.0%)	4 (11.4%)	3 (30.0%)	122 (56.7%)	2 (25.0%)	36 (39.1%)	54 (36.5%)	3 (50.0%)	95 (37.4%)	562 (58.1%)
Completed	42 (21.6%)	0 (0.0%)	2 (22.2%)	1 (10.0%)	45 (20.9%)	2 (25.0%)	31 (33.7%)	26 (17.6%)	0 (0.0%)	59 (23.2%)	212 (21.9%)
Partially Completed	40 (20.6%)	0 (0.0%)	0 (0.0%)	1 (10.0%)	41 (19.1%)	0 (0.0%)	4 (4.3%)	2 (1.4%)	1 (16.7%)	7 (2.8%)	164 (17.0%)
Implementing	23 (11.9%)	0 (0.0%)	2 (22.2%)	1 (10.0%)	26 (12.1%)	0 (0.0%)	1 (1.1%)	15 (10.1%)	1 (16.7%)	17 (6.7%)	135 (14.0%)
Processing	10 (5.2%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	10 (4.7%)	0 (0.0%)	0 (0.0%)	11 (7.4%)	1 (16.7%)	12 (4.7%)	51 (5.3%)
Promoting	45 (23.2%)	1 (50.0%)	4 (11.4%)	6 (60.0%)	56 (26.0%)	0 (0.0%)	11 (12.0%)	32 (21.6%)	1 (16.7%)	44 (17.3%)	180 (18.6%)
Delayed or Suspended	13 (6.7%)	0 (0.0%)	1 (11.1%)	0 (0.0%)	14 (6.5%)	3 (37.5%)	24 (26.1%)	43 (29.1%)	2 (33.3%)	72 (28.3%)	107 (11.1%)
Discontinued or Cancelled	21 (10.8%)	1 (50.0%)	0 (0.0%)	1 (10.0%)	23 (10.7%)	3 (37.5%)	21 (22.8%)	19 (12.8%)	0 (0.0%)	43 (16.9%)	118 (12.2%)
Total	194	2	9	10	215	8	92	148	6	254	967

3-4. Details of “Completed or In Progress” Studies

562 out of 967 completed Studies are classified as “Completed or In Progress” and the realization rate is 58.1%. “Completed or In Progress” Studies are further divided into four categories: 1)Completed; 2)Partially Completed; 3)Implementing; and 4)Processing.

“Completed or Partially Completed” Studies are defined as the proposed projects fully or partially completed and in use. The total number of these Studies is 376. For most of the Studies, finance has already been secured and the proposed projects have been realized. There is not much difference among the realization rates of different sectors and different types of Studies.

The Studies which have been financed and realized consist of:

- 1) the Studies which have been financed after the subsequent studies (e.g. D/D, E/S, B/D) were conducted; and
- 2) the Studies which have been financed without the subsequent studies.

In 304 out of the total 545 Studies excluding D/D studies, the subsequent studies have been conducted. All D/D studies except 3 studies, in which the environmental impact assessments (EIA) have been conducted, have been financed without the subsequent studies.

CHAPTER 4. SURVEYS CONDUCTED BY JICA'S OVERSEAS MISSIONS AND BY APPOINTED LOCAL CONSULTANTS

1. Objectives and Methods of the Surveys

In order to obtain detailed information and to clarify the utilization of the findings of the Development Studies and their effects, surveys are conducted by JICA's overseas missions and by local consultants appointed for the selected countries and topics.

Objectives of the surveys conducted in this fiscal year are:

- 1) to monitor the effects of the Development Studies which are "In Progress or In Use" and "Completed or In Progress" ; and
- 2) to identify the conditions necessary to realize the proposed projects of the "Delayed" Development Studies.

With regard to 1), this was the first attempt to monitor the effects at the local level. Therefore, the Development Studies on topographical mapping, utilization of which can be easily judged, were mainly selected for surveying in order to test and improve survey methods. The surveys covered four selected countries, namely, Guatemala, Costa Rica, Tanzania, and Kenya. Moreover, four Studies were selected from among those completed by FY 1996, as well as those in the Agricultural Sector focussing on improving social and economic situations of the local community.

Regarding the objective 2), six countries, namely, Nepal, Malaysia, Morocco, Cote d'Ivoire, Jordan, and Brazil were selected in consideration of the regional balance in obtaining the detailed information and grasping the current situation. The surveys on the current situations were conducted through hearings. In particular, data and information were collected regarding the Development Studies which are classified as "Delayed" or "Promoting" to identify the cause of the delay and to enable the realization of the proposed projects.

2. Findings of the Surveys

(1) The Development Studies on Topographical Mapping

The selected Studies were examined first on the quality and the number of the maps distributed, and second, on the effects of the projects which would not be launched without the maps. As a result, it can be confirmed that the findings of

the Studies are effectively utilized.

(2) Monitoring of the Impact of the Development Studies

Monitoring of the impact of the above four Studies were conducted by comparing the situations before and after the realization of the projects. In all four Studies, the effects from the realization of the proposed projects were observed, and the intended development impacts in the Studies had been attained to some extent.

(3) The Development Studies of "In Progress or In Use" or "Completed"

The surveys confirmed that finance was secured within five years after the completion of the Studies.

(4) The Development Studies Classified as "Promoting" or "Delayed"

The surveys concluded that declines in priority, changes in development policy, difficulty in finance procurement, and delays in land acquisition had set back the proposed projects. However, it was confirmed that the reports of the Studies were utilized as important reference in related development projects. In addition, it was also confirmed that some proposed projects would be realized if the project cost and design would be reviewed and revised. Therefore, Studies which have the possibility of project realization should be identified and considered for additional support.

CHAPTER 5. RECOMMENDATIONS

The following are suggested from the findings of this fiscal year's Follow-up Study.

1. Improvement of Monitoring Method

As far as the submission of the reports to the governments of the recipient countries itself can be regarded as one of the objectives of the Development Studies, this has been attained. In addition, the impact of Development Studies can be monitored through indicators of how the findings of the Development Studies are. Therefore, the degree of utilization of Study findings should be examined from several viewpoints such as in terms of the realization rates of proposed projects, comparison of the components and findings of the realized projects, the project implementing system, the circumstances of operation, management, and maintenance. Since the quantitative monitoring of the effects will probably become more important for qualitative analysis, there is a clear need to conduct the continuous surveys and to improve monitoring methods.

2. Utilization of the Findings of the Development Studies

Analysis of the rates of utilization and realization, taking into account the number of years that have passed after the completion of the Studies reveals that five years time span after the completion is an important indicator. This is because many Development Studies have the tendency that actions for realizing the proposed projects based on the findings of the Studies have been taken within five years after the completion of the Studies. By monitoring the Studies continuously after the completion, changes in trends of development of the recipient countries and in the nature of the target population can be reflected, increasing the chances for implementation at an early stage. On the other hand, regarding the Development Studies which have not shown progress for more than five years or after the status of "Promoting", there is a need to clarify the factors impeding the progress and to conduct further supplemental studies.

APPENDIX

PROJECT LIST

Project List

No. Region	Country	Code No.	Name of the Study	Type	Year	Sector	Subsector
1 Asia	Bangladesh	EGDS 40J77	Television Studio Construction Project	DD	1977	Communications & Broadcasting	Broadcasting
2 Asia	Bangladesh	EGDA 30J79	Narayanganj-Narsingdi Irrigation Project	F/S	1979	Agriculture	(Agriculture in) General
3 Asia	Bangladesh	EGDM 00279	Feasibility Study for the Construction of Bheramara Barisal Transmission Line in People's Republic of Bangladesh	F/S	1979	Energy	Transmission & Distribution
4 Asia	Bangladesh	EGDM 00179	The Feasibility Study for Replacement and Expansion of Karanaphur Rayon & Chemicals Ltd. in People's Republic of Bangladesh	F/S	1979	Industry	Others
5 Asia	Bangladesh	EGDM 80J79	The Basic Design Study on the Construction Project of Automobile Repair & Maintenance Workshop in People's Republic of Bangladesh	Other (F/S)	1979	Industry	Others
6 Asia	Bangladesh	EGDM 10J80	Development Plan of Small Scale Industries in People's Republic of Bangladesh	M/P	1980	Industry	(Industry in) General
7 Asia	Bangladesh	EGDM 00380	The Feasibility Study for the Kapta Hydro Power Station Extension Project in People's Republic of Bangladesh	F/S	1980	Energy	Hydraulic Power
8 Asia	Bangladesh	EGDM 00481	The Feasibility Study on the Election of a Juice-Pulp Mill in People's Republic of Bangladesh	F/S	1981	Industry	Others
9 Asia	Bangladesh	EGDS 30J84	Megha-Gumti Bridges Construction Project	F/S	1984	Transportation	Road
10 Asia	Bangladesh	EGDS 30285	Establishment of Railway Carriage and Wagon Manufacturing Plant	F/S	1985	Transportation	Railway
11 Asia	Bangladesh	EGDS 20J87	Development Project of Dhaka and Narayanganj Ports	M/P+F/S	1987	Transportation	Port
12 Asia	Bangladesh	EGDS 30387	Water Drainage System Improvement Project in Dhaka City	F/S	1987	Social Infrastructure	River & Erosion Control
13 Asia	Bangladesh	EGDA 30288	North Rajshahi Irrigation Project	F/S	1988	Agriculture	(Agriculture in) General
14 Asia	Bangladesh	EGDA 10J89	Model Rural Development Project for Homna and Dandkandi Upazila Comilla District	M/P	1989	Agriculture	(Agriculture in) General
15 Asia	Bangladesh	EGDS 30589	Storm Water Drainage System Improvement Project in Dhaka City (Updating Study)	F/S	1989	Social Infrastructure	River & Erosion Control
16 Asia	Bangladesh	EGDS 30489	Development of Chittagong Airport	F/S	1989	Transportation	Air Transportation & Airport
17 Asia	Bangladesh	EGDS 30589	Optimization of Capacity Utilization and Improvement of Performance of Chittagong Dry Dock	F/S	1989	Transportation	Marine Transportation & Ships
18 Asia	Bangladesh	EGDA 30380	Karigram Irrigation and Flood Control Project North Unit	F/S	1990	Agriculture	(Agriculture in) General
19 Asia	Bangladesh	EGDS 30780	Development Project of Container Terminal at Dhaka-Narayanganj Port	F/S	1990	Transportation	Port
20 Asia	Bangladesh	EGDA 10281	The Model Rural Development Project Phase II for Kachua, Nabunagar, Bancharampur and Debidwar Upazilas	M/P	1991	Agriculture	(Agriculture in) General
21 Asia	Bangladesh	EGDS 20282	Greater Dhaka Protection Project (GAP&A)	M/P+F/S	1992	Social Infrastructure	River & Erosion Control
22 Asia	Bangladesh	EGDS 20382	River & Erosion Control/Drainage Improvement in North West Region	M/P+F/S	1992	Social Infrastructure	River & Erosion Control
23 Asia	Bangladesh	EGDA 30482	Karigram Irrigation and Flood Control Project South Unit	F/S	1992	Agriculture	Irrigation, Drainage & Reclamation
24 Asia	Bangladesh	EGDS 30184	Geodetic Survey in the People's Republic of Bangladesh	Basic Study	1994	Social Infrastructure	Survey & Mapping
25 Asia	Bangladesh	EGDM 10295	The Study on Industrial Development of Chittagong Region	M/P	1995	Industry	(Industry in) General
26 Asia	Bhutan	BTN/A 30J88	Lunthi-Mongar Integrated Agricultural Development Project	F/S	1988	Agriculture	(Agriculture in) General
27 Asia	Bhutan	BTVS 30J85	Groundwater Development Project in Wangduephodrang District	F/S	1995	Social Infrastructure	Water Resources Development
28 Asia	Brunei	BRNM 00J82	Feasibility Study on the Establishment of a Cement Factory in Negara Brunei Darussalam	F/S	1982	Industry	Ceramics

Project List

No. Region	Country	Code No.	Name of the Study	Type	Year	Sector	Subsector
29 Asia	Brunei	BRNS 601/83	Improvement of Brunei Government Printing Department	Other	1983	Social Infrastructure	Architecture & Housing
30 Asia	Brunei	BRNS 101/85	Public Transport System in Negara Brunei Darussalam	M/P	1985	Transportation	(Transportation in) General
31 Asia	Brunei	BRNA 603/83	Development Survey on the Forest Resources in Brunei Darussalam	Basic Study	1983	Forestry	Forestry & Forest Conservation
32 Asia	Cambodia	ICEMM 101/88	Master Plan Study on Rehabilitation and Reconstruction of Electricity Supply in Phnom Penh and Siem Reap, Cambodia	M/P	1983	Energy	(Energy in) General
33 Asia	Cambodia	ICEMS 201/83	Phnom Penh Water Supply System	M/P+P/S	1983	Public Utilities	Water Supply
34 Asia	Cambodia	ICEMA 201/84	Integrated Agricultural and Rural Development Project in Suburbs of Phnom Penh	M/P+P/S	1984	Agriculture	Irrigation, Drainage & Reclamation
35 Asia	Cambodia	ICMS 302/85	Telecommunications Network for Phnom Penh City and its Surrounding Area	P/S	1985	Communications & Broadcasting	Telecommunication
36 Asia	Cambodia	ICMS 303/86	Construction of Mekong Bridge	P/S	1986	Transportation	Road
37 Asia	Cambodia	ICMS 201/87	Master Planning and Feasibility Study of the Sihanoukville Port in the Kingdom of Cambodia	M/P+P/S	1987	Transportation	Port
38 Asia	Cambodia	ICMA 307/87	Agricultural Development Study of the Mekong Flooded Area	P/S	1987	Agriculture	(Agriculture in) General
39 Asia	China	CHNS 601/79	Port Construction	Other	1979	Transportation	Port
40 Asia	China	CHNM 001/80	Review on the Wuqian Hydro Electric Power Development Project in People's Republic of China	P/S	1980	Energy	Hydraulic Power
41 Asia	China	CHNS 602/81	Railway Modernization Project	Other	1981	Transportation	Railway
42 Asia	China	CHNM 403/82	The Study for the Factories (Plastics) Modernization Program in the People's Republic of China	Chinese Factory	1982	Industry	Chemicals
43 Asia	China	CHNM 402/82	The Study for the Factories (Electronics for Household Use) Modernization Program in the People's Republic of China	Chinese Factory	1982	Industry	Machine Industry
44 Asia	China	CHNM 401/82	The Study for the Factories (Refrigerator, Washing Machine) Modernization Program in the People's Republic of China	Chinese Factory	1982	Industry	Machine Industry
45 Asia	China	CHNM 002/83	The Feasibility Study on the Oh River Hydroelectric Power Development Project in People's Republic of China	P/S	1983	Energy	Hydraulic Power
46 Asia	China	CHNM 404/83	The Study for the Factories (Mechanism Speaker) Modernization Program in the People's Republic of China	Chinese Factory	1983	Industry	Machine Industry
47 Asia	China	CHNM 405/83	The Study for the Factories (Furniture) Modernization Program in the People's Republic of China	Chinese Factory	1983	Industry	Others
48 Asia	China	CHNM 403/83	The Study for the Factories (Plastics) Modernization Program in the People's Republic of China	Chinese Factory	1983	Industry	Chemicals
49 Asia	China	CHNM 409/83	The Study for the Factories (Poly Variable Condenser) Modernization Program in the People's Republic of China	Chinese Factory	1983	Industry	Machine Industry
50 Asia	China	CHNM 408/83	The Study for the Factories (Glass) Modernization Program in the People's Republic of China	Chinese Factory	1983	Industry	Ceramics
51 Asia	China	CHNM 407/83	The Study for the Factories (Optics) Modernization Program in the People's Republic of China	Chinese Factory	1983	Industry	Machine Industry
52 Asia	China	CHNA 302/84	Basic Plan on the Sanjiang Plain Agricultural Experiment Station	P/S	1984	Agriculture	(Agriculture in) General
53 Asia	China	CHNA 301/84	Sanku Heigen Ryvolyko Model Area Agricultural Development Project	P/S	1984	Agriculture	(Agriculture in) General
54 Asia	China	CHNS 303/84	Tianjin, Shanghai and Guangzhou Telecommunication Expansion Project	P/S	1984	Communications & Broadcasting	Telecommunication
55 Asia	China	CHNS 301/84	Improvement Project of Chumwangao, Lueyunkang and Tsungtao Ports	P/S	1984	Transportation	Port
56 Asia	China	CHNS 302/84	Double Tracking and Electrification Project of Railways between Hengyang and Kwangchow, and Electrification Project of Railways between Chengchow and Paok	P/S	1984	Transportation	Railway

Project List

No.	Region	Country	Code No.	Name of the Study	Type	Year	Sector	Subsector
57	Asia	China	CHNM 413/84	The Study for the Factories (Reefbers) Modernization Program in the People's Republic of China	Chinese Factory	1984	Industry	Machine Industry
58	Asia	China	CHNM 412/84	The Study for the Factories (Ballpen-ink) Modernization Program in the People's Republic of China	Chinese Factory	1984	Industry	Chemicals
59	Asia	China	CHNM 411/84	The Study for the Factories (Thyristor) Modernization Program in the People's Republic of China	Chinese Factory	1984	Industry	Machine Industry
60	Asia	China	CHNM 410/84	The Study for the Factories (Measuring Instruments) Modernization Program in the People's Republic of China	Chinese Factory	1984	Industry	Machine Industry
61	Asia	China	CHNM 419/85	The Study for the Factory (Nanjing Chemistry) Modernization Program in the People's Republic of China	Chinese Factory	1985	Industry	Chemicals
62	Asia	China	CHNM 418/85	The Study for the Factory (Jimi Chemistry) Modernization Program in the People's Republic of China	Chinese Factory	1985	Industry	Chemicals
63	Asia	China	CHNM 417/85	The Study for the Factory (Dalian Chemistry) Modernization Program in the People's Republic of China	Chinese Factory	1985	Industry	Chemicals
64	Asia	China	CHNM 416/85	The Study for the Factory (Daye Copper Refining) Modernization Program in the People's Republic of China	Chinese Factory	1985	Industry	Steel & Nonferrous Metals
65	Asia	China	CHNM 415/85	The Study for the Factory (Heavy Machinery) Modernization Program in the People's Republic of China	Chinese Factory	1985	Industry	Machine Industry
66	Asia	China	CHNM 414/85	The Study for the Factory (Steel) Modernization Program in the People's Republic of China	Chinese Factory	1985	Industry	Steel & Nonferrous Metals
67	Asia	China	CHNM 421/85	The Study for the Factory (Chao) Modernization Program in the People's Republic of China	Chinese Factory	1985	Industry	Machine Industry
68	Asia	China	CHNM 420/85	The Study for the Factory (Cement) Modernization Program in the People's Republic of China	Chinese Factory	1985	Industry	Ceramics
69	Asia	China	CHNS 300/85	The Study of the Development of Patent Information Reference System in the People's Republic of China	Other (M/P)	1985	Others	Others
70	Asia	China	CHNM 101/86	The Study of Energy Conservation Promotion Project in the People's Republic of China	M/P	1986	Energy	(Energy in) General
71	Asia	China	CHNS 304/86	Port Development Project in Dapeng Bay	F/S	1986	Transportation	Port
72	Asia	China	CHNS 305/86	Subway Project of Shanghai	F/S	1986	Transportation	Railway
73	Asia	China	CHNM 428/86	The Study for the Factory (Glass) Modernization Program in the People's Republic of China	Chinese Factory	1986	Industry	Ceramics
74	Asia	China	CHNM 427/86	The Study for the Factory (Plastic) Modernization Program in the People's Republic of China	Chinese Factory	1986	Industry	Machine Industry
75	Asia	China	CHNM 426/86	The Study for the Factory (Electric Cable) Modernization Program in the People's Republic of China	Chinese Factory	1986	Industry	Others
76	Asia	China	CHNM 425/86	The Study for the Factory (Shan Jia Zhuang Iron & Steel Works) Modernization Program in the People's Republic of China	Chinese Factory	1986	Industry	Steel & Nonferrous Metals
77	Asia	China	CHNM 424/86	The Study for the Factory (Shanghai No.10 Iron & Steel Works) Modernization Program in the People's Republic of China	Chinese Factory	1986	Industry	Steel & Nonferrous Metals
78	Asia	China	CHNM 423/86	The Study for the Factory (The Laitou Iron & Steel Works) Modernization Program in the People's Republic of China	Chinese Factory	1986	Industry	Steel & Nonferrous Metals
79	Asia	China	CHNM 422/86	The Study for the Factory (Shenzen Kikan) Modernization Program in the People's Republic of China	Chinese Factory	1986	Industry	Machine Industry
80	Asia	China	CHNS 101/87	Shanghai Air Pollution Control	M/P	1987	Administration	Environmental Problems
81	Asia	China	CHNS 308/87	Hokou Hiraikyo Multipurpose Dam Construction Project	F/S	1987	Social Infrastructure	Water Resources Development
82	Asia	China	CHNS 307/87	Kouhoku River Bridge Construction Project	F/S	1987	Transportation	Road
83	Asia	China	CHNS 306/87	Shanghai-Nanjing Expressway Construction Project	F/S	1987	Transportation	Road
84	Asia	China	CHNS 501/87	Groundwater Development Project in Tianjin City	Basic Study	1987	Social Infrastructure	Water Resources Development

Project List

No. Region	Country	Code No.	Name of the Study	Type	Year	Sector	Subsector
85 Asia	China	CHNM 436/87	The Study for the Factory (Shen Yang Foundry Plant) Modernization Program in the People's Republic of China	Chinese Factory	1987	Industry	Machine Industry
86 Asia	China	CHNM 434/87	The Study for the Factory (Shen Yang Grinding Wheels Plant) Modernization Program in the People's Republic of China	Chinese Factory	1987	Industry	Ceramics
87 Asia	China	CHNM 433/87	The Study for the Factory (Hand Tractor) Modernization Program in the People's Republic of China	Chinese Factory	1987	Industry	Machine Industry
88 Asia	China	CHNM 432/87	The Study for the Factory (Kuang Yang Bearing) Modernization Program in the People's Republic of China	Chinese Factory	1987	Industry	Machine Industry
89 Asia	China	CHNM 431/87	The Study for the Factory (Aluminium) Modernization Program in the People's Republic of China	Chinese Factory	1987	Industry	Steel & Nonferrous Metals
90 Asia	China	CHNM 430/87	The Study for the Factory (Hefei Chemical Works) Modernization Project in the People's Republic of China	Chinese Factory	1987	Industry	Chemicals
91 Asia	China	CHNM 429/87	Modernization Program for the Kwangai Mine in the People's Republic of China	Chinese Factory	1987	Industry	Steel & Nonferrous Metals
92 Asia	China	CHNM 436/87	The Study for the Factory (Chongqing Pump Factory) Modernization Program in the People's Republic of China	Chinese Factory	1987	Industry	Machine Industry
93 Asia	China	CHNM 102/88	The Study for the Development Program for Die & Mold Manufacturing Industry in the People's Republic of China	MP	1988	Industry	Others
94 Asia	China	CHNS 102/88	Hainan Island Integrated Development	MP	1988	Development Plan	Integrated Regional Development Plan
95 Asia	China	CHNM 103/88	The Study on the Development of Qingdao Export Processing Zone in the People's Republic of China	MP	1988	Industry	(Industry in) General
96 Asia	China	CHNA 201E/88	Lujiazui Model Stock-Farming Project in Gansu Province	MP-F/S	1988	Animal Husbandry	Animal Husbandry
97 Asia	China	CHNS 201E/88	Dahan Port Development Project	MP-F/S	1988	Transportation	Port
98 Asia	China	CHNA 303/88	Irrigation Development Project in Northern Hubei	F/S	1988	Agriculture	(Agriculture in) General
99 Asia	China	CHNS 309/88	Guanying Reservoir Project	F/S	1988	Social Infrastructure	Water Resources Development
100 Asia	China	CHNS 310/88	Beijing Airport International Terminal Area Development	F/S	1988	Transportation	Air Transportation & Airport
101 Asia	China	CHNM 444/88	The Study on the Factory (Li Feng Plastic Molding Machine) Modernization Program in the People's Republic of China	Chinese Factory	1988	Industry	Machine Industry
102 Asia	China	CHNM 443/88	The Study on the Factory (Shanghai Mechanical Works) Modernization Program in the People's Republic of China	Chinese Factory	1988	Industry	Steel & Nonferrous Metals
103 Asia	China	CHNM 442/88	The Study on the Factory (Hu Nan Printing Press) Modernization Program in the People's Republic of China	Chinese Factory	1988	Industry	Machine Industry
104 Asia	China	CHNM 441/88	The Study on the Factory (Mixer) Modernization in the People's Republic of China	Chinese Factory	1988	Industry	Machine Industry
105 Asia	China	CHNM 440/88	The Study on the Factory (Nanchang Valve Works) Modernization in the People's Republic of China	Chinese Factory	1988	Industry	Machine Industry
106 Asia	China	CHNM 439/88	The Study for the Factory (Shen Yang Medical Instruments) Modernization Program in the People's Republic of China	Chinese Factory	1988	Industry	Machine Industry
107 Asia	China	CHNM 439/88	The Study for the Factory (Zheng Zhou Hole Made Machine) Modernization Program in the People's Republic of China	Chinese Factory	1988	Industry	Machine Industry
108 Asia	China	CHNM 437/88	The Study for the Factory (Chong Qing Phenol Resin Plant) Modernization Program in the People's Republic of China	Chinese Factory	1988	Industry	Chemicals
109 Asia	China	CHNA 304/89	Integrated Agricultural Infrastructure Development in Dong Tung Lake Area in Hunan Province	F/S	1989	Agriculture	(Agriculture in) General
110 Asia	China	CHNS 312/89	Construction Project of Wuhan/Tanhe Civil Airport	F/S	1989	Transportation	Air Transportation & Airport
111 Asia	China	CHNS 311/89	Construction Projects of the Three Fords	F/S	1989	Transportation	Port
112 Asia	China	CHNM 446/89	The Study for the Factory Modernization (Shanghai Alloy Plant) in the People's Republic of China	Chinese Factory	1989	Industry	Machine Industry

Project List

No. Region	Country	Code No.	Name of the Study	Type	Year	Sector	Subsector
113 Asia	China	CHN/M 445/89	Feasibility Study of Renovation for Shaanxi Printing Machinery Plant	Chinese Factory	1989	Industry	Machine Industry
114 Asia	China	CHN/M 448/89	The Study on the Factory (Jun Yang Air Separation Plant) Modernization Project	Chinese Factory	1989	Industry	Machine Industry
115 Asia	China	CHN/M 447/89	The Study on the Factory (Lao Zhou Petro Chemical Machine) Modernization Program in the People's Republic of China	Chinese Factory	1989	Industry	Machine Industry
116 Asia	China	CHN/S 202B/90	Municipal Solid Waste Treatment Plan in Xian City	M/P-F/S	1990	Public Utilities	Urban Sanitation
117 Asia	China	CHN/A 303/90	Agricultural Water-use Development Project on Haiin Dam Area in Beijing City	F/S	1990	Agriculture	(Agriculture in) General
118 Asia	China	CHN/M 003/90	Feasibility Study on Industrial Waste Water Treatment and Recycling Project	F/S	1990	Industry	(Industry in) General
119 Asia	China	CHN/S 313/90	Rapid Railway Construction Project in Tianjin	F/S	1990	Transportation	Railway
120 Asia	China	CHN/M 004/90	Ming Tomba Pumped Storage Power Project	F/S	1990	Energy	Hydraulic Power
121 Asia	China	CHN/S 502/90	Groundwater Development Project in Urumuqi	Basic Study	1990	Social Infrastructure	Water Resources Development
122 Asia	China	CHN/M 455/90	The Study for the Factory Modernization (The Third Beijing Cotton Mill)	Chinese Factory	1990	Industry	Others
123 Asia	China	CHN/M 454/90	The Study for the Factory Modernization (Nanking Second Steel Factory)	Chinese Factory	1990	Industry	Steel & Nonferrous Metals
124 Asia	China	CHN/M 456/90	The Study for the Factory (Lao Yang Pharmacy Machinery Works) Modernization Program in the People's Republic of China	Chinese Factory	1990	Industry	Machine Industry
125 Asia	China	CHN/M 453/90	The Study for the Factory Modernization (Chanzhou Insulation Materials Factory)	Chinese Factory	1990	Industry	Chemicals
126 Asia	China	CHN/M 449/90	The Study on the Factory (Liao Ning, Dan Dong Construction Machinery Works) Modernization Program	Chinese Factory	1990	Industry	Machine Industry
127 Asia	China	CHN/M 450/90	The Study for the Factory Modernization (Yang Chou Print)	Chinese Factory	1990	Industry	Others
128 Asia	China	CHN/M 451/90	The Study on the Factory (Jiangbei Centrifugal Separator Plant) Modernization Program	Chinese Factory	1990	Industry	Machine Industry
129 Asia	China	CHN/M 452/90	The Study on the Factory (Xiangtan Compressor Production Plant) Modernization Program	Chinese Factory	1990	Industry	Machine Industry
130 Asia	China	CHN/A 300/91	Improvement of Agricultural Land Reclamation Dike and Agriculture Development Project, Guizhou Region, Guangxi Zhuang Autonomous Region	F/S	1991	Agriculture	(Agriculture in) General
131 Asia	China	CHN/S 314/91	Telephone Network Automation Plan in Dehui County, Jilin Province	F/S	1991	Communications & Broadcasting	Telecommunication
132 Asia	China	CHN/M 463/91	The Study for the Factory Modernization (Shenyan Towel)	Chinese Factory	1991	Industry	Others
133 Asia	China	CHN/M 459/91	Study for the Factory (Steel Pipe) Modernization	Chinese Factory	1991	Industry	Machine Industry
134 Asia	China	CHN/M 458/91	The Study for the Factory Modernization (Hubei Machine Factory)	Chinese Factory	1991	Industry	Machine Industry
135 Asia	China	CHN/M 457/91	Study for the Factory (Anshan Tractor) Modernization	Chinese Factory	1991	Industry	Machine Industry
136 Asia	China	CHN/M 460/91	Study for the Factory Modernization (Kwangchow Oil and Fat Chemical Engineering)	Chinese Factory	1991	Industry	Chemicals
137 Asia	China	CHN/M 462/91	The Study for the Factory Modernization (Shanghai Heald Frame)	Chinese Factory	1991	Industry	Others
138 Asia	China	CHN/M 461/91	The Study for the Factory Modernization (Santon General Tool)	Chinese Factory	1991	Industry	Machine Industry
139 Asia	China	CHN/A 203B/92	Lao Ho Delta Agricultural Resources Integrated Development Project in the Luosong Sheng	M/P-F/S	1992	Agriculture	(Agriculture in) General
140 Asia	China	CHN/A 202B/92	The Integrated Agricultural and Animal Husbandry Development Project in Xianpu Nanzhi Shannan Area	M/P-F/S	1992	Agriculture	(Agriculture in) General

Project List

No. Region	Country	Code No.	Name of the Study	Type	Year	Sector	Subsector
141 Asia	China	CHNS 31392	Flood Forecasting and Warning System in the Middle and Lower Reaches in the Chang Jiang	FS	1992	Social Infrastructure	River & Erosion Control
142 Asia	China	CHNS 31692	Jin Fengman Dam Rehabilitation Project	FS	1992	Social Infrastructure	Water Resources Development
143 Asia	China	CHNM 00592	Feasibility Study on Quality Control System Plan for Shaofu Dongsheng Coal Field	FS	1992	Energy	Gas, Coal & Oil
144 Asia	China	CHNM 46792	The Study for the Factory (Jinzhong Wollen Complex) Modernization	Chinese Factory	1992	Industry	Others
145 Asia	China	CHNM 46692	The Study on the Factory Modernization (Puyuan Construction Machinery Factory)	Chinese Factory	1992	Industry	Machine Industry
146 Asia	China	CHNM 46592	The Study for the Factory Modernization (Taiyuan Xuehan Gypsum)	Chinese Factory	1992	Industry	Others
147 Asia	China	CHNM 46492	The Study for the Factory (Guangdong Laoding Ramus Textile Mill) Modernization Program in the People's Republic of China	Chinese Factory	1992	Industry	Others
148 Asia	China	CHNS 10293	Integrated Regional Development Planning Study on Jiujiang City, Jiangxi Province	MP	1993	Development Plan	Integrated Regional Development Plan
149 Asia	China	CHNS 10193	Water Quality Protection for Poyan Lake in China	MP	1993	Administration	Environmental Problems
150 Asia	China	CHNS 20293	Waqaochao District in Pudong New Economic Zone in Shanghai	MP-FS	1993	Social Infrastructure	Urban Planning & Land Development
151 Asia	China	CHN/A 30993	Facilities Improvement Project in Second Irrigation Section in Qiangguo Area in Jilin Province	FS	1993	Agriculture	(Agriculture in) General
152 Asia	China	CHNS 30193	Rapid Guided Transport System Planning in Chongqing	FS	1993	Transportation	Railway
153 Asia	China	CHNM 46993	The Study on the Factory Modernization (Shenyang Building Machinery)	Chinese Factory	1993	Industry	Machine Industry
154 Asia	China	CHNM 47293	The Study for the Factory Modernization (Wuhan Engine)	Chinese Factory	1993	Industry	Machine Industry
155 Asia	China	CHNM 47093	The Study for the Factory Modernization (The First Si Chuan Cotton Mill and Printing)	Chinese Factory	1993	Industry	Others
156 Asia	China	CHNM 46893	The Study for the Factory Modernization (Benzhi Calcium Carbonate)	Chinese Factory	1993	Others	Others
157 Asia	China	CHNM 47193	The Study for the Factory Modernization (Wuhan Machine Tool)	Chinese Factory	1993	Industry	Machine Industry
158 Asia	China	CHNS 20394	Primary Road Network Development Study in Zhejiang Province	MP-FS	1994	Transportation	Road
159 Asia	China	CHN/A 20494	Integrated Agriculture Development Project in Heilongjiang	MP-FS	1994	Agriculture	(Agriculture in) General
160 Asia	China	CHNS 31794	West-bound Trunk Road Construction Project in Municipality of Xiamen	FS	1994	Transportation	Road
161 Asia	China	CHN/A 31094	Improvement Project of Drainage System in Qing-Folder, Shunde City, Guangdong Province	FS	1994	Agriculture	Irrigation, Drainage & Reclamation
162 Asia	China	CHNM 00694	The Feasibility Study on the Complex of the Sheamou Coal	FS	1994	Industry	Chemicals
163 Asia	China	CHNM 48194	The Study for the Factory Modernization (Shenyang Electric Motor Works)	Chinese Factory	1994	Industry	Machine Industry
164 Asia	China	CHNM 48094	The Study for the Factory Modernization (Wuxi Waste Water Treatment Equipment)	Chinese Factory	1994	Industry	Machine Industry
165 Asia	China	CHNM 47994	The Study on the Factory Modernization (Dong Fang Insulating Material Works)	Chinese Factory	1994	Industry	Machine Industry
166 Asia	China	CHNM 47894	The Study on the Factory (Hefei Mining Machinery Plant) Modernization Program	Chinese Factory	1994	Industry	Machine Industry
167 Asia	China	CHNM 47794	The Study for the Factory Modernization (Changzhou Forklift)	Chinese Factory	1994	Industry	Machine Industry
168 Asia	China	CHNM 47694	The Study for the Factory Modernization (Daogong Filter)	Chinese Factory	1994	Industry	Machine Industry

Project List

No. Region	Country	Code No.	Name of the Study	Type	Year	Sector	Subsector
169 Asia	China	CHN/M 475/94	The Study for the Factory Modernization (Shanghai Roots Blower)	Chinese Factory	1994	Industry	Machine Industry
170 Asia	China	CHN/M 474/94	The Study for the Factory Modernization (Nantong Fan)	Chinese Factory	1994	Industry	Machine Industry
171 Asia	China	CHN/M 473/94	The Study for the Factory Modernization (Wangzhou Diesel Engine Factory)	Chinese Factory	1994	Industry	Machine Industry
172 Asia	China	CHN/S 103/95	Total Air Quality Management Study for Lanzhou City and Acid Deposition Monitoring Study for Wide Area	M/P	1995	Administration	Environmental Problems
173 Asia	China	CHN/M 104/95	The Study on Air Pollution Control for Thermal Power Plants	M/P	1995	Mining	Mining
174 Asia	China	CHN/S 204/95	Shanghai Pudong International Airport Basic Planning Study	M/P-F/S	1995	Transportation	Air Transportation & Airport
175 Asia	China	CHN/S 205/95	Comprehensive Transportation System in Dalian City	M/P-F/S	1995	Transportation	Urban Transportation
176 Asia	China	CHN/M 482/95	The Study for Factory Modernization (Suzhou Testing Instruments)	Chinese Factory	1995	Industry	Machine Industry
177 Asia	China	CHN/M 486/95	The Study for Factory Modernization (Wuxi Radio Component Factory No.2)	Chinese Factory	1995	Industry	Machine Industry
178 Asia	China	CHN/M 487/95	The Study for Factory Modernization (Wuxi Pump Works)	Chinese Factory	1995	Industry	Machine Industry
179 Asia	China	CHN/M 488/95	The Study for Factory Modernization (Pastening)	Chinese Factory	1995	Industry	Machine Industry
180 Asia	China	CHN/M 483/95	The Study for Factory Modernization (Suzhou Textile Accessories)	Chinese Factory	1995	Industry	Machine Industry
181 Asia	China	CHN/M 484/95	The Study for Factory Modernization (Yangzhou Cylinder Liner)	Chinese Factory	1995	Industry	Machine Industry
182 Asia	China	CHN/M 485/95	The Study for Factory Modernization (Changshu Carburettor)	Chinese Factory	1995	Industry	Machine Industry
183 Asia	China	CHN/M 103/96	The Study on Utilization of Coal in Ningxia	M/P	1996	Mining	Mining
184 Asia	China	CHN/M 495/96	The Study for the Factory Modernization (Qian an Flax Textile)	Chinese Factory	1996	Others	Others
185 Asia	China	CHN/M 494/96	The Study for the Factory Modernization (Henan Textile Machinery)	Chinese Factory	1996	Industry	Machine Industry
186 Asia	China	CHN/M 493/96	The Study for the Factory Modernization (Shandong Tractor Works)	Chinese Factory	1996	Industry	Machine Industry
187 Asia	China	CHN/M 492/96	The Study for the Factory Modernization (Ezhou Galvanized Steel)	Chinese Factory	1996	Industry	Machine Industry
188 Asia	China	CHN/M 496/96	The Study for the Factory Modernization (Jiangsu Wood Steel Group)	Chinese Factory	1996	Industry	Steel & Nonferrous Metals
189 Asia	China	CHN/M 491/96	The Study for the Factory Modernization (Dahan Fuel Injection Equipment)	Chinese Factory	1996	Industry	Machine Industry
190 Asia	China	CHN/M 490/96	The Study for the Factory Modernization (Suzhou Medical Instruments)	Chinese Factory	1996	Industry	Machine Industry
191 Asia	China	CHN/M 489/96	The Study for the Factory Modernization (Wujin Electric Machine Works)	Chinese Factory	1996	Industry	Machine Industry
192 Asia	China	CHN/S 101/97	Integrated Management Master Plan for the Water Environment of Le-Jiang River	M/P	1997	Administration	Environmental Problems
193 Asia	China	CHN/S 202/97	Integrated Management Master Plan for the Water Environment of Min River in Chengdu District	M/P-F/S	1997	Administration	Environmental Problems
194 Asia	China	CHN/M 007/97	The Study on Pumped Storage Hydroelectric Power Development in Koseki Dam	F/S	1997	Energy	Hydraulic Power
195 Asia	China	CHN/S 401/97	Detailed Design Study on Shanghai Pu-dong International Airport	DD	1997	Transportation	Air Transportation & Airport
196 Asia	China	CHN/A 601/97	The Hydraulic Model Test for Baishi Dam in Liaoning Province	Other	1997	Agriculture	Irrigation, Drainage & Reclamation

Project List

No. Region	Country	Code No.	Name of the Study	Type	Year	Sector	Subsector
197 Asia	China	CHN/M 50397	The Study for the Factory Modernization (Tayuan Chemical Industry-Chemical Plant)	Chinese Factory	1997	Industry	Chemicals
198 Asia	China	CHN/M 50297	The Study for the Factory Modernization (Tayuan Chemical Industry-Organic Plant)	Chinese Factory	1997	Industry	Chemicals
199 Asia	China	CHN/M 50197	The Study for the Factory Modernization (Tayuan Tool Works)	Chinese Factory	1997	Industry	Machine Industry
200 Asia	China	CHN/M 50097	The Study for the Factory Modernization (Tayuan Heavy Industry)	Chinese Factory	1997	Industry	Machine Industry
201 Asia	China	CHN/M 49997	The Study for the Factory Modernization (Baoji Brewery)	Chinese Factory	1997	Industry	Others
202 Asia	China	CHN/M 49897	The Study for the Factory Modernization (Machinery Industry in Baopi)	Chinese Factory	1997	Industry	Machine Industry
203 Asia	China	CHN/M 49797	The Study for the Factory Modernization (Baopi North Lighting)	Chinese Factory	1997	Industry	Machine Industry
204 Asia	China	CHN/M 50297	The Detailed Design Study on Waste Water Treatment Project in Dexing Copper Mine	Other (M/P)	1997	Others	Others
205 Asia	India	IND/M 80186	The Feasibility Study on the Modernization of Burnpur Works of Indian Iron and Steel Co., Ltd.(IISCO) in India	Other (F/S)	1986	Industry	Steel & Nonferrous Metals
206 Asia	India	IND/S 30287	Modernization of Rolling Stock Workshop	F/S	1987	Transportation	Railway
207 Asia	India	IND/S 30187	Railway Improvement Plan of Transport Capacity and Train Speed on the Delhi-Kampur Section	F/S	1987	Transportation	Railway
208 Asia	India	IND/S 30189	Development of Calcutta and Halda Dock Systems of Calcutta Port Trust	M/P-F/S	1989	Transportation	Port
209 Asia	India	IND/S 30389	Development Plan for the New Delhi Railway Station	F/S	1989	Transportation	Railway
210 Asia	India	IND/S 30490	Improvement Plan of New Mangalore	F/S	1990	Transportation	Port
211 Asia	India	IND/A 30191	Irrigation and Drainage Development of Sharda Canal CAD Project	F/S	1991	Agriculture	(Agriculture in) General
212 Asia	India	IND/M 00191	Pre-feasibility Study on the Solvent Refined Coal Development Project	F/S	1991	Energy	Gas, Coal & Oil
213 Asia	India	IND/M 00291	The Study on HMT Restructuring and Development Program	F/S	1991	Industry	Machine Industry
214 Asia	India	IND/S 30592	Transport Infrastructure Development Project in Calcutta	F/S	1992	Transportation	Urban Transportation
215 Asia	India	IND/M 10193	The Master Plan Study on the Industrial Model Town	M/P	1993	Industry	(Industry in) General
216 Asia	India	IND/M 00395	The Feasibility Study on the Industrial Model Town in India	F/S	1995	Industry	(Industry in) General
217 Asia	India	IND/M 10297	Master Plan Study on Pumped Storage Hydroelectric Power Development in Maharashtra State, India	M/P	1997	Energy	Hydraulic Power
218 Asia	India	IND/S 20397	Development of the Port of Mumbai	M/P-F/S	1997	Transportation	Port
219 Asia	India	IND/A 30897	Rehabilitation of Minor Irrigation Tanks for Rural Development in Tamil Nadu	F/S	1997	Agriculture	(Agriculture in) General
220 Asia	Indonesia	IND/S 60174	Solo River Basin Development (Follow-Up)	Other	1974	Social Infrastructure	Water Resources Development
221 Asia	Indonesia	IND/M 10175	Study on Rehabilitation and Development of Town Gas	M/P	1975	Energy	Gas, Coal & Oil
222 Asia	Indonesia	IND/S 10175	Java Regional Study, East Java	M/P	1975	Development Plan	Integrated Regional Development Plan
223 Asia	Indonesia	IND/S 30175	Wongari Multipurpose Dam Project	F/S	1975	Social Infrastructure	Water Resources Development
224 Asia	Indonesia	IND/A 30176	Wongari Irrigation and Upper Solo River Improvement Project	F/S	1976	Agriculture	(Agriculture in) General

Project List

No. Region	Country	Code No.	Name of the Study	Type	Year	Sector	Subsector
225 Asia	Indonesia	IDNAM 001/76	Feasibility Study for Industrial Estate Project in Ujung Pandang	F/S	1976	Industry	(Industry in) General
226 Asia	Indonesia	IDNS 302/76	Wongari Irrigation and Upper Solo River Improvement Project	F/S	1976	Social Infrastructure	River & Erosion Control
227 Asia	Indonesia	IDNS 303/76	Central and East Java Road Betterment Project	F/S	1976	Transportation	Road
228 Asia	Indonesia	IDNS 102/77	Java Regional Study: Central Java	M/P	1977	Development Plan	Integrated Regional Development Plan
229 Asia	Indonesia	IDN/M 004/77	Survey for the Construction of Bulis Asam Coal Firing Thermal Power Plant in Republic of Indonesia	F/S	1977	Energy	Thermal Power
230 Asia	Indonesia	IDN/M 002/77	Survey for Sadang River Bakara Hydropower Development Project in Indonesia	F/S	1977	Energy	Hydraulic Power
231 Asia	Indonesia	IDNS 304/77	Development Plan of the Banjarmasin Port	F/S	1977	Transportation	Port
232 Asia	Indonesia	IDNS 603/77	Brantas Middle Reaches River Improvement Project (Follow-Up)	Other	1977	Social Infrastructure	River & Erosion Control
233 Asia	Indonesia	IDNS 602/77	Brantas River Basin Development Plan (Follow-Up)	Other	1977	Social Infrastructure	River & Erosion Control
234 Asia	Indonesia	IDNS 103/78	North and West Sumatra Tourism	M/P	1978	Tourism	(Tourism in) General
235 Asia	Indonesia	IDNS 301B/78	Ular River Improvement Project	M/P-F/S	1978	Social Infrastructure	River & Erosion Control
236 Asia	Indonesia	IDN/M 003/78	The Construction of Urea Plant in Aceh	F/S	1978	Industry	Chemicals
237 Asia	Indonesia	IDNS 306/78	Hospital Facilities Improvement Project	F/S	1978	Social Infrastructure	Architecture & Housing
238 Asia	Indonesia	IDNS 307/78	Development Plan of the Port of Semarang	F/S	1978	Transportation	Port
239 Asia	Indonesia	IDNS 306/78	Expansion Project of the Bixung Port	F/S	1978	Transportation	Port
240 Asia	Indonesia	IDNS 305/78	Jakarta Ring Road Project	F/S	1978	Transportation	Road
241 Asia	Indonesia	IDN/A 601/78	Forest Inventory for Management and Logging in Central Java	Basic Study	1978	Forestry	Forestry & Forest Conservation
242 Asia	Indonesia	IDNS 604/78	Wongari Irrigation and River Improvement Project (Follow-Up)	Other	1978	Social Infrastructure	River & Erosion Control
243 Asia	Indonesia	IDNS 107/79	Central South Sulawesi Water Resources Development Project	M/P	1979	Social Infrastructure	Water Resources Development
244 Asia	Indonesia	IDNS 104/79	Shipbuilding Industry Development	M/P	1979	Transportation	Marine Transportation & Ships
245 Asia	Indonesia	IDN/A 302/79	Ram Kanan Irrigation Project	F/S	1979	Agriculture	(Agriculture in) General
246 Asia	Indonesia	IDNS 310/79	Borobudur Prambanan: National Archeological Parks	F/S	1979	Tourism	(Tourism in) General
247 Asia	Indonesia	IDNS 309/79	Expansion Project of the Port of Balikpapan	F/S	1979	Transportation	Port
248 Asia	Indonesia	IDN/M 201/79	The Survey for the Rehabilitation of the Ombilin Coal Mine	Basic Study	1979	Energy	Gas, Coal & Oil
249 Asia	Indonesia	IDNS 605/79	Jakarta-Merak Highway Project: Jakarta/Tangerang Freeway Financial Study (Follow-Up)	Other	1979	Transportation	Road
250 Asia	Indonesia	IDN/A 101/80	Watershed Management Plan in Upper Muan Watershed, South Sumatra	M/P	1980	Forestry	Forestry & Forest Conservation
251 Asia	Indonesia	IDNS 106/80	Southern Coast Development Plan, East Java	M/P	1980	Development Plan	Integrated Regional Development Plan
252 Asia	Indonesia	IDNS 104/80	Land Erosion and Volcanic Debris Control in the Area of Mt. Merapi	M/P	1980	Social Infrastructure	River & Erosion Control

Project List

No. Region	Country	Code No.	Name of the Study	Type	Year	Sector	Subsector
253 Asia	Indonesia	IDNS 105/80	Removal of Sunken Vessels	MP	1980	Transportation	Marine Transportation & Ships
254 Asia	Indonesia	IDNS 108/80	Medan Area Transportation	MP	1980	Transportation	Urban Transportation
255 Asia	Indonesia	IDNM 006/80	Feasibility Study for the North Sumatra Transmission Line Project in Republic of Indonesia	FS	1980	Energy	Transmission & Distribution
256 Asia	Indonesia	IDNM 005/80	Feasibility Study for the Maung Hydro Electric Power Development in the Republic of Indonesia	FS	1980	Energy	Hydraulic Power
257 Asia	Indonesia	IDNS 311/80	Small and Medium Sized Town Water Supply Projects in Sulawesi	FS	1980	Public Utilities	Water Supply
258 Asia	Indonesia	IDNS 312/80	Reinforcement and Expansion Plan of P. T. IKI Makassar Shipyard at Ujung Pandang	FS	1980	Transportation	Marine Transportation & Ships
259 Asia	Indonesia	IDNS 313/80	Medium River Urgent Improvement Project	FS	1980	Social Infrastructure	River & Erosion Control
260 Asia	Indonesia	IDNS 501/80	Local Roads Support Works in Seven Provinces	Basic Study	1980	Transportation	Road
261 Asia	Indonesia	IDNM 901/80	Data Bank Program on Energy Supply and Consumption in Republic of Indonesia	Other (M/T)	1980	Others	Others
262 Asia	Indonesia	IDNS 203B/81	Development Project of the Port of Sorong	MP+FS	1981	Transportation	Port
263 Asia	Indonesia	IDNS 202B/81	Low Cost Housing Project in Cengkareng	MP+FS	1981	Social Infrastructure	Architecture & Housing
264 Asia	Indonesia	IDNS 204/81	Improvement of Telephone Network in the City of Jakarta	MP+FS	1981	Communications & Broadcasting	Telecommunication
265 Asia	Indonesia	IDNA 303/81	Langkemme Irrigation Project	FS	1981	Agriculture	(Agriculture in) General
266 Asia	Indonesia	IDNM 008/81	The Pre-Feasibility Study for the Ombilin Coal Mine Rehabilitation Project in the Republic of Indonesia	FS	1981	Energy	Gas, Coal & Oil
267 Asia	Indonesia	IDNM 007/81	The Evaluation Study on Establishment Program of Medan Foundry Center in the Republic of Indonesia	FS	1981	Industry	Machine Industry
268 Asia	Indonesia	IDNM 009/81	The Feasibility Study on the Local Condom Production Project in the Republic of Indonesia	FS	1981	Industry	Others
269 Asia	Indonesia	IDNS 315/81	Padang Airport Development	FS	1981	Transportation	Air Transportation & Airport
270 Asia	Indonesia	IDNS 317/81	Jakarta Harbour Road Project	FS	1981	Transportation	Road
271 Asia	Indonesia	IDNS 314/81	Coastal Radio Communications Maritime Communication System	FS	1981	Communications & Broadcasting	Telecommunication
272 Asia	Indonesia	IDNS 316/81	Telecommunication Network in Developing Areas Surrounding Medan and Ujung Pandang	FS	1981	Communications & Broadcasting	Telecommunication
273 Asia	Indonesia	IDNM 902/81	Survey for the Petroleum Exploration and Production Data Bank System Development Project in the Republic of Indonesia	Other (M/P)	1981	Others	Others
274 Asia	Indonesia	IDNA 102/82	Post-Harvest Losses	MP	1982	Agriculture	Agricultural Processing
275 Asia	Indonesia	IDNS 110/82	Long Term Development Plan of Maritime Communication System	MP	1982	Communications & Broadcasting	Telecommunication
276 Asia	Indonesia	IDNS 203B/82	Telecommunications Network Development in the Eastern Part	MP+FS	1982	Communications & Broadcasting	Telecommunication
277 Asia	Indonesia	IDNS 204B/82	Urban/Suburban Railway Transportation in Jabotabek Area	MP+FS	1982	Transportation	Railway
278 Asia	Indonesia	IDNA 305/82	Rice Pest Forecasting and Control Project	FS	1982	Agriculture	(Agriculture in) General
279 Asia	Indonesia	IDNA 308/82	Sarego Irrigation Project	FS	1982	Agriculture	(Agriculture in) General
280 Asia	Indonesia	IDNA 307/82	Bila Irrigation Project	FS	1982	Agriculture	Irrigation, Drainage & Reclamation

Project List

No. Region	Country	Code No.	Name of the Study	Type	Year	Sector	Subsector
281 Asia	Indonesia	IDN/A 306/82	Rice Seed Production and Distribution Project	FS	1982	Agriculture	(Agriculture in) General
282 Asia	Indonesia	IDN/A 304/82	Konerang 1 Irrigation Development Project in the Upper Konerang River Basin	FS	1982	Agriculture	(Agriculture in) General
283 Asia	Indonesia	IDN/M 011/82	Feasibility Study for the Riam Kiwa Hydroelectric Power Development Project in the Republic of Indonesia	FS	1982	Energy	Hydraulic Power
284 Asia	Indonesia	IDN/M 010/82	Feasibility Study on Asahan No.1 and No.3 Hydroelectric Power Development Project in the Republic of Indonesia	FS	1982	Energy	Hydraulic Power
285 Asia	Indonesia	IDNS 320/82	Bali International Airport Development	FS	1982	Transportation	Air Transportation & Airport
286 Asia	Indonesia	IDNS 319/82	Lower Jeneberang River Flood Control Project/Jeneberang River Flood Control Project (Phase II)	FS	1982	Social Infrastructure	River & Erosion Control
287 Asia	Indonesia	IDN/M 903/82	Technical Cooperation for the Energy Supply-Demand Planning System Development in the Republic of Indonesia	Other (M/P)	1982	Others	Others
288 Asia	Indonesia	IDN/M 904/82	The Master Plan Study for Strengthening of Data Processing and Information on Trade and Cooperatives in the Republic of Indonesia	Other (M/P)	1982	Others	Others
289 Asia	Indonesia	IDNS 114/83	Long Term Development Programs of the International Telecommunications	M/P	1983	Communications & Broadcasting	(Comms. & Broad. in) General
290 Asia	Indonesia	IDNS 113/83	North Ranten Water Resources Development	M/P	1983	Social Infrastructure	Water Resources Development
291 Asia	Indonesia	IDNS 112/83	Urban Development Planning on Gerbangketosulita Region (Surabaya Metropolitan Area)	M/P	1983	Social Infrastructure	Urban Planning & Land Development
292 Asia	Indonesia	IDNS 111/83	Electrification Project of Main Railway Lines in Java	M/P	1983	Transportation	Railway
293 Asia	Indonesia	IDNS 207B/83	Padang Area Flood Control Project	M/P-F/S	1983	Social Infrastructure	River & Erosion Control
294 Asia	Indonesia	IDNS 205B/83	Development Project of Dumai Port	M/P-F/S	1983	Transportation	Port
295 Asia	Indonesia	IDN/A 309/83	K-C-C Irrigation Development Project	FS	1983	Agriculture	(Agriculture in) General
296 Asia	Indonesia	IDN/M 013/83	The Feasibility Study on the Development of Sugarcane Molasses Fermentation Industry in the Republic of Indonesia	FS	1983	Energy	New & Recycled Energy
297 Asia	Indonesia	IDN/M 012/83	The Feasibility Study on the Kumpangiang Hydroelectric Power Development Project in the Republic of Indonesia	FS	1983	Energy	Hydraulic Power
298 Asia	Indonesia	IDNS 321/83	Urban Renewal Housing Project in Jakarta	FS	1983	Social Infrastructure	Urban Planning & Land Development
299 Asia	Indonesia	IDN/M 202/83	The Feasibility Study for the Lempur Geothermal Development Project in the Republic of Indonesia	Basic Study	1983	Energy	New & Recycled Energy
300 Asia	Indonesia	IDNS 209B/84	Jakarta Water Supply Development Project	M/P-F/S	1984	Public Utilities	Water Supply
301 Asia	Indonesia	IDNS 208B/84	Five-Year Plan for the Integrated Development of Radio and Television Broadcasting	M/P-F/S	1984	Communications & Broadcasting	(Comms. & Broad. in) General
302 Asia	Indonesia	IDN/M 016/84	The Feasibility Study on the Development of Plant Processing Equipments Industry in the Republic of Indonesia	FS	1984	Industry	Machine Industry
303 Asia	Indonesia	IDN/M 303/84	The Study for the Plant (Spinning Mill) Renovation in the Republic of Indonesia	FS	1984	Industry	Others
304 Asia	Indonesia	IDN/M 302/84	The Feasibility Study on the Renovation of Caustic Soda Plant of P.T.Industry Soda Indonesia in the Republic of Indonesia	FS	1984	Industry	Chemicals
305 Asia	Indonesia	IDN/M 301/84	The Study for the Plant (Paper and Pulp) Renovation in the Republic of Indonesia	FS	1984	Industry	Others
306 Asia	Indonesia	IDN/M 015/84	The Feasibility Study for East Java Power System Expansion Project in the Republic of Indonesia	FS	1984	Energy	Transmission & Distribution
307 Asia	Indonesia	IDN/M 014/84	The Feasibility Study on the Ramun Hydroelectric Power Development Project in the Republic of Indonesia	FS	1984	Energy	Hydraulic Power
308 Asia	Indonesia	IDNS 325/84	Volcanic Debris Control and Water Conservation Project in the Southeastern Slope of Mt. Semeru	FS	1984	Social Infrastructure	River & Erosion Control

Project List

No. Region	Country	Code No.	Name of the Study	Type	Year	Sector	Subsector
309 Asia	Indonesia	IDNS 32484	Grade Separated Crossing in Manggarai Station, Improvements on Merak Line and Track Addition and Other Improvements on Tangerang Line	F/S	1984	Transportation	Railway
310 Asia	Indonesia	IDNS 32384	New Railway Line for Congkrang Airport	F/S	1984	Transportation	Railway
311 Asia	Indonesia	IDNS 32284	Nusa Tenggara Area Terrestrial Transmission Network Project	F/S	1984	Communications & Broadcasting	Telecommunication
312 Asia	Indonesia	IDNM 10286	The Study on the Development of Linkage-Type Industries in the Republic of Indonesia	MP	1985	Industry	(Industry in) General
313 Asia	Indonesia	IDNS 11785	Rural Telecommunications Network	MP	1985	Communications & Broadcasting	Telecommunication
314 Asia	Indonesia	IDNS 11685	Lower Asahan River Basin Development	MP	1985	Social Infrastructure	Water Resources Development
315 Asia	Indonesia	IDNS 11585	Master Plan on the Development of Aids to Navigation System	MP	1985	Transportation	Marine Transportation & Ships
316 Asia	Indonesia	IDNS 211B/85	Wider Flood Control and Drainage Project	MP-F/S	1985	Social Infrastructure	Water Resources Development
317 Asia	Indonesia	IDNS 210B/85	Ujung Pandang Water Supply Development Project	MP-F/S	1985	Public Utilities	Water Supply
318 Asia	Indonesia	IDNM 30685	The Feasibility Study for the Renovation of Jakarta Foundry Center in the Republic of Indonesia	F/S	1985	Industry	Machine Industry
319 Asia	Indonesia	IDNM 30585	The Study for Plant (Cepu Oil Refinery) Renovation in the Republic of Indonesia	F/S	1985	Industry	Chemicals
320 Asia	Indonesia	IDNM 30485	The Feasibility Study for Priok Thermal Power Plant Renovation Project in the Republic of Indonesia	F/S	1985	Energy	Thermal Power
321 Asia	Indonesia	IDNS 33085	Improvement Project of Telephone Network in Medan, Semarang and Solo	F/S	1985	Communications & Broadcasting	Telecommunication
322 Asia	Indonesia	IDNS 32685	Karan Multipurpose Dam Construction Project	F/S	1985	Social Infrastructure	Water Resources Development
323 Asia	Indonesia	IDNS 32885	Electrification Project of Main Line in Java	F/S	1985	Transportation	Railway
324 Asia	Indonesia	IDNS 32785	Railway Improvement in Kampung Bandan Station Area	F/S	1985	Transportation	Railway
325 Asia	Indonesia	IDNS 32985	Local Road Development	F/S	1985	Transportation	Road
326 Asia	Indonesia	IDNA 50285	Mosaic Photomap Project of the Downstream Area of the Negeri River Basin in South Kalimantan	Basic Study	1985	Agriculture	(Agriculture in) General
327 Asia	Indonesia	IDNS 50285	Topographic Mapping Project for Upper Stream Area of Negara Basin, South Kalimantan	Basic Study	1985	Social Infrastructures	Survey & Mapping
328 Asia	Indonesia	IDNS 11886	Long Term Planning for Development of Telecommunications System	MP	1986	Communications & Broadcasting	(Comm. & Broad. in) General
329 Asia	Indonesia	IDNS 213B/86	Airport Development Project in Central Java and Jogjakarta	MP-F/S	1986	Transportation	Air Transportation & Airport
330 Asia	Indonesia	IDNS 212B/86	Development Plan of the Port of Semarang (Phase II)	MP-F/S	1986	Transportation	Port
331 Asia	Indonesia	IDNM 30786	Survey for the Renovation of Meduri Fabric Factory	F/S	1986	Industry	Others
332 Asia	Indonesia	IDNM 01786	Feasibility Study on Power System Development Program in Central Sumatra in the Republic of Indonesia	F/S	1986	Energy	(Energy in) General
333 Asia	Indonesia	IDNS 33186	Surabaya-Banjarmasin Submarine Cable Project	F/S	1986	Communications & Broadcasting	Telecommunication
334 Asia	Indonesia	IDNA 10387	Multiplication and Distribution of Improved Soybean Seed and Seed Potato	MP	1987	Agriculture	(Agriculture in) General
335 Asia	Indonesia	IDNS 12087	Regional Development Project in the Western Part of Java	MP	1987	Tourism	(Tourism in) General
336 Asia	Indonesia	IDNS 12187	Future Demand of the Inter-Island Traffic	MP	1987	Transportation	Air Transportation & Airport

Project List

No. Region	Country	Code No.	Name of the Study	Type	Year	Sector	Subsector
337 Asia	Indonesia	IDNS 11987	Arterial Road System Development Study in Jakarta Metropolitan Area	MP	1987	Transportation	Road
338 Asia	Indonesia	IDNM 02087	The Preliminary Survey on the Upgrading of Dayuhkolot Workshop in Indonesia	FS	1987	Industry	Machin Industry
339 Asia	Indonesia	IDNM 01987	Feasibility Study for Ranau Hydroelectric Development Project in Indonesia	FS	1987	Energy	Hydraulic Power
340 Asia	Indonesia	IDNM 01887	The Pro-Feasibility Study on the National Iron & Steel Development for the Second Generation in the Republic of Indonesia	FS	1987	Industry	Steel & Nonferrous Metals
341 Asia	Indonesia	IDNS 33987	Trans-Sumatra Terrestrial Digital Transmission System	FS	1987	Communications & Broadcasting	Telecommunication
342 Asia	Indonesia	IDNS 33287	Solid Waste Management System Improvement Project in the City of Jakarta	FS	1987	Public Utilities	Urban Sanitation
343 Asia	Indonesia	IDNS 12288	Ujung Padang Area Highway Development Study	MP	1988	Transportation	Urban Transportation
344 Asia	Indonesia	IDNS 12388	Maritime Safety Plan Concerning Search and Rescue	MP	1988	Transportation	Marine Transportation & Ships
345 Asia	Indonesia	IDNS 214888	Flood Control Plan of the Upper Citarum Basin	MP-FS	1988	Social Infrastructure	River & Erosion Control
346 Asia	Indonesia	IDNA 31088	Batang Kumu Irrigation Project in Riau Province	FS	1988	Agriculture	(Agriculture in) General
347 Asia	Indonesia	IDNM 095888	The Feasibility Study on the Establishment of the Center for Industrial Technology Information in the Republic of Indonesia	FS	1988	Others	Others
348 Asia	Indonesia	IDNM 02588	The Feasibility Study on the Establishment of the Testing Laboratory and Quality Improvement Center for the Metal-Working Industry in the Republic of Indonesia	FS	1988	Industry	(Industry in) General
349 Asia	Indonesia	IDNM 02488	The Feasibility Study for the Kerinci Geothermal Development Project in the Republic of Indonesia	FS	1988	Energy	New & Recycled Energy
350 Asia	Indonesia	IDNM 02388	The Feasibility Study on Effective Utilization of Banko Coal in the Republic of Indonesia	FS	1988	Energy	New & Recycled Energy
351 Asia	Indonesia	IDNM 02288	Feasibility Study on Cusang Hydroelectric Power Development Project in the Republic of Indonesia	FS	1988	Energy	Hydraulic Power
352 Asia	Indonesia	IDNM 02188	Feasibility Study on the Utilization of Small Scale Natural Gas in the Jambi Province of the Republic of Indonesia	FS	1988	Energy	Gas, Coal & Oil
353 Asia	Indonesia	IDNS 33588	Implementation of Intra-City Digital Microwave Subscriber System	FS	1988	Communications & Broadcasting	Telecommunication
354 Asia	Indonesia	IDNS 33488	Kalimantan-Sulawesi Submarine Cable System	FS	1988	Communications & Broadcasting	Telecommunication
355 Asia	Indonesia	IDNS 33588	Disaster Prevention Project in the Southeastern Slope of Mt. Galunggung	FS	1988	Social Infrastructure	River & Erosion Control
356 Asia	Indonesia	IDNS 33788	Urgent Bali Beach Conservation Project	FS	1988	Social Infrastructure	River & Erosion Control
357 Asia	Indonesia	IDNA 10589	Improvement of Rice Post Harvest and Marketing in Farmer Groups	MP	1989	Agriculture	Agricultural Processing
358 Asia	Indonesia	IDNA 10489	Negara River Basin Overall Irrigation Development Plan	MP	1989	Agriculture	(Agriculture in) General
359 Asia	Indonesia	IDNS 12589	Integrated Regional Development Plan for the Northern Part of Sumatra	MP	1989	Development Plan	Integrated Regional Development Plan
360 Asia	Indonesia	IDNS 216889	Integrated Radio and Television Servicing System Project	MP-FS	1989	Communications & Broadcasting	Broadcasting
361 Asia	Indonesia	IDNS 215889	Kemayoran Urban Housing Development Project	MP-FS	1989	Social Infrastructure	Urban Planning & Land Development
362 Asia	Indonesia	IDNS 21789	Long-Term and Medium-Term Plan for Telecommunications Network in Jabotabek Area	MP-FS	1989	Communications & Broadcasting	Telecommunication
363 Asia	Indonesia	IDNA 31189	Industrial Plantation Forest Development Plan in South Sumatra Area	FS	1989	Forestry	Forestry & Forest Conservation
364 Asia	Indonesia	IDNS 33989	Cikampek-Cirebon Tollway Project	FS	1989	Transportation	Road

Project List

No. Region	Country	Code No.	Name of the Study	Type	Year	Sector	Subsector
365 Asia	Indonesia	IDNM 027/89	Feasibility Study on Ayung Hydroelectric Power Development Project	FS	1989	Energy	Hydraulic Power
366 Asia	Indonesia	IDNS 126/90	Airport Maintenance and Rehabilitation	MP	1990	Transportation	Air Transportation & Airport
367 Asia	Indonesia	IDN/A 201B/90	Master Plan Study on Lower Arahau River Basin Development	MP+FS	1990	Agriculture	(Agriculture in) General
368 Asia	Indonesia	IDNS 217B/90	Integrated Transportation System Improvement by Railway and Feeder Service in Jabotabek Area	MP+FS	1990	Transportation	Railway
369 Asia	Indonesia	IDNS 218B/90	Long-Term and Medium-Term Plan for Telecommunications Network in Surabaya and Surrounding Areas	MP+FS	1990	Communications & Broadcasting	Telecommunication
370 Asia	Indonesia	IDNS 219B/90	Urban Drainage and Waste Water Disposal Project in the City of Jakarta	MP+FS	1990	Public Utilities	Sewerage
371 Asia	Indonesia	IDN/A 312/90	Air Selaras Irrigation Project	FS	1990	Agriculture	(Agriculture in) General
372 Asia	Indonesia	IDNS 340/90	Maintenance Dredging in the Access Channel of Banjarmasin Port	FS	1990	Transportation	Port
373 Asia	Indonesia	IDNS 339/90	Bogor-Bandung Road Project	FS	1990	Transportation	Road
374 Asia	Indonesia	IDNM 029/90	Feasibility Study on Sipanahaporas Hydroelectric Power Development Project	FS	1990	Energy	Hydraulic Power
375 Asia	Indonesia	IDNM 029/90	Bebungur Hydroelectric Power Development Project	FS	1990	Energy	Hydraulic Power
376 Asia	Indonesia	IDNM 103/91	A Study on Industrial Sub-sector Development in the Republic of Indonesia	MP	1991	Industry	(Industry in) General
377 Asia	Indonesia	IDNS 220B/91	Belawan-Padang Integrated River Basin Development	MP+FS	1991	Social Infrastructure	River & Erosion Control
378 Asia	Indonesia	IDN/A 312/91	Nias Island Irrigation and Agricultural Development Project	FS	1991	Agriculture	(Agriculture in) General
379 Asia	Indonesia	IDNS 341/91	Surabaya - Mojokerto Toll Road Project	FS	1991	Transportation	Road
380 Asia	Indonesia	IDNM 030/91	Feasibility Study on the Rehabilitation of Cipudang and Banjaran Mulla, PT Industri Sandaung	FS	1991	Industry	Others
381 Asia	Indonesia	IDNS 106/92	Telecommunications Network Development Plan for Kepulauan VI	MP	1992	Communications & Broadcasting	Telecommunication
382 Asia	Indonesia	IDNS 127/92	Integrated Regional Development Plan for the Southern Part of Sumatra	MP	1992	Development Plan	Integrated Regional Development Plan
383 Asia	Indonesia	IDNS 222B/92	The Development of the Nationwide Ferry Service Routes	MP+FS	1992	Transportation	Port
384 Asia	Indonesia	IDNS 221B/92	Development of Coastal Roads in East Coast of Sumatra	MP+FS	1992	Transportation	Road
385 Asia	Indonesia	IDN/A 314/92	Land Development Project Improvement of Land and Irrigation Systems at Farm Level	FS	1992	Agriculture	(Agriculture in) General
386 Asia	Indonesia	IDN/A 315/92	Rokan River Basin Overall Irrigation Development Plan	FS	1992	Agriculture	(Agriculture in) General
387 Asia	Indonesia	IDNS 343/92	Cidau-Cibanten Water Resources Development Project	FS	1992	Social Infrastructure	Water Resources Development
388 Asia	Indonesia	IDNS 344/92	The Development of Waste Water Disposal for Denpasar	FS	1992	Public Utilities	Sewerage
389 Asia	Indonesia	IDNS 342/92	IRK System Water Supply Project in Provinces of Central Java, East Java and Bali	FS	1992	Public Utilities	Water Supply
390 Asia	Indonesia	IDNM 031/92	Feasibility Study on Wampu Hydroelectric Power Development Project in the Republic of Indonesia	FS	1992	Energy	Hydraulic Power
391 Asia	Indonesia	IDN/A 112/93	Formulation of Irrigation Development Program	MP	1993	Agriculture	(Agriculture in) General
392 Asia	Indonesia	IDNS 205/93	Water Resources Development, Urgent Flood Control and Urban Drainage in Semarang City and Suburbs	MP+FS	1993	Social Infrastructure	Water Resources Development

Project List

No. Region	Country	Code No.	Name of the Study	Type	Year	Sector	Subsector
393 Asia	Indonesia	IDNS 20493	Integrated Modernization Plan for Sea Transportation in Eastern Indonesia	MP-FIS	1993	Transportation	Port
394 Asia	Indonesia	IDNS 20393	Solid Waste Management Improvement for Surabaya City	MP-FIS	1993	Public Utilities	Urban Sanitation
395 Asia	Indonesia	IDNA 22293	Upland Plantation and Land Development Project at Cikank Watershed	FIS	1993	Forestry	Forestry & Forest Conservation
396 Asia	Indonesia	IDNM 03293	Feasibility Study on Mine Mouth Steam Power Plant Development Project in South Sumatra	FIS	1993	Energy	Thermal Power
397 Asia	Indonesia	IDNM 03393	The Study on Utilization of Photovoltaic Hybrid Systems in Rural Areas in the Republic of Indonesia	FIS	1993	Energy	New & Recycled Energy
398 Asia	Indonesia	IDNM 10494	The Study on the Development of Legal Metrology System in the Republic of Indonesia	MP	1994	Industry	(Industry id) General
399 Asia	Indonesia	IDNS 34694	Cijung-Cidurian Integrated Water Resources	FIS	1994	Social Infrastructure	Water Resources Development
400 Asia	Indonesia	IDNA 31694	Coastal Resources Inventory Management and Enhancement	FIS	1994	Fishery	Fishery
401 Asia	Indonesia	IDNS 34394	Urban Arterial Road System Development Project in Jakarta Metropolitan Area	FIS	1994	Transportation	Road
402 Asia	Indonesia	IDNM 80194	The Master Plan Study on Cooperative Rural Electrification in Aceh and North Sumatra	Other (FIS)	1994	Energy	Hydraulic Power
403 Asia	Indonesia	IDNM 10095	The Study on Master Plan for the Industrial Standardization and Promotion of Quality Control	MP	1995	Industry	(Industry id) General
404 Asia	Indonesia	IDNA 10795	Land Rehabilitation Plan of Semi Acid Zone in East Nusa Tenggara	MP	1995	Forestry	Forestry & Forest Conservation
405 Asia	Indonesia	IDNM 10695	The Master Plan Study of Electric Power Development in the Republic of Indonesia	MP	1995	Energy	(Energy id) General
406 Asia	Indonesia	IDNA 10695	Small Scale Impounding Pond Development Project	MP	1995	Agriculture	(Agriculture id) General
407 Asia	Indonesia	IDNS 12995	Engineering Manpower Development Planning	MP	1995	Others	Others
408 Asia	Indonesia	IDNS 22395	Container Cargo Handling Ports & Dry Ports and its Connecting Railway	MP-FIS	1995	Transportation	Port
409 Asia	Indonesia	IDNS 22495	Kampar-Indragiri River Basin Development Project	MP-FIS	1995	Social Infrastructure	Water Resources Development
410 Asia	Indonesia	IDNS 22595	Waste Water Disposal and Solid Waste Management for the City of Ujung Pandang	MP-FIS	1995	Public Utilities	Urban Sanitation
411 Asia	Indonesia	IDNM 03695	Feasibility Study on Ujung Pandang Coal Fired Steam Power Station Development Project in the Republic of Indonesia	FIS	1995	Energy	Thermal Power
412 Asia	Indonesia	IDNA 31795	Gurung Irrigation Project	FIS	1995	Agriculture	(Agriculture id) General
413 Asia	Indonesia	IDNM 03595	Feasibility Study for the Upper Cioikan Pumped Storage Hydroelectric Power Development Project	FIS	1995	Energy	Hydraulic Power
414 Asia	Indonesia	IDNM 03495	Feasibility Study on the Waramson Hydroelectric Power Development Project in the Republic of Indonesia	FIS	1995	Energy	Hydraulic Power
415 Asia	Indonesia	IDNM 10896	The Study on Industrial Sector Development (Supporting Industries)	MP	1996	Industry	(Industry id) General
416 Asia	Indonesia	IDNM 10796	The Study on Human Resources and Technology Development Plan for Coal Mining	MP	1996	Mining	Mining
417 Asia	Indonesia	IDNA 10196	Third Umbrella Cooperation for Integrated Agricultural and Rural Development	MP	1996	Agriculture	(Agriculture id) General
418 Asia	Indonesia	IDNS 20396	Comprehensive River Water Management Plan in JABOTABEK	MP-FIS	1996	Social Infrastructure	Sewer & Erosion Control
419 Asia	Indonesia	IDNM 03796	The Study on the Development of Poko Hydroelectric Power	FIS	1996	Energy	Hydraulic Power
420 Asia	Indonesia	IDNS 40196	Median Flood Control Project	DD	1996	Social Infrastructure	River & Erosion Control

Project List

No. Region	Country	Code No.	Name of the Study	Type	Year	Sector	Subsector
421 Asia	Indonesia	IDN/M/109/87	Study on Development of Raw Material of Ceramic Industry in the Republic of Indonesia	MP	1997	Industry	Steel & Nonferrous Metals
422 Asia	Indonesia	IDN/S 102/87	Integrated Air Quality Management for Jakarta Metropolitan Area	MP	1997	Administration	Environmental Problems
423 Asia	Indonesia	IDN/S 206/87	Arterial Road System Development in Surabaya Metropolitan Area	MP+FS	1997	Transportation	Road
424 Asia	Indonesia	IDN/S 203/87	The Reuse of Jakarta Water Supply Development Project	MP+FS	1997	Public Utilities	Water Supply
425 Asia	Indonesia	IDN/S 204/87	Flood Control for Ambon and Pasabari Area	MP+FS	1997	Social Infrastructure	River & Erosion Control
426 Asia	Indonesia	IDN/M 038/87	The Study on Master Plan of Urban Development in the Republic of Indonesia	FS	1997	Energy	Gas, Coal & Oil
427 Asia	Indonesia	IDN/A 306/87	Social Forestry Development Project in the Upper Musi Watershed	FS	1997	Forestry	Forestry & Forest Conservation
428 Asia	Indonesia	IDN/S 402/87	Detailed Design for Urban Drainage Project in the City of Jakarta	DD	1997	Public Utilities	Sewerage
429 Asia	Korea	KOR/S 301/77	Rapid Transit Line No.2 Construction Project in Seoul	FS	1977	Transportation	Railway
430 Asia	Korea	KOR/A 301/78	Southeast Coast Agricultural Land Reclamation Project	FS	1978	Agriculture	(Agriculture in) General
431 Asia	Korea	KOR/S 101/79	Long-Term Multipurpose Dam Schemes	MP	1979	Social Infrastructure	Water Resources Development
432 Asia	Korea	KOR/M 101/79	The Long-Term Multipurpose Dam Schemes Preliminary Feasibility Study in Republic of Korea	MP	1979	Energy	Hydraulic Power
433 Asia	Korea	KOR/S 201B/85	Seoul Municipal Solid Waste Management System	MP+FS	1985	Public Utilities	Urban Sanitation
434 Asia	Korea	KOR/S 102/91	Study on River Environment for the Tributaries of Han River System	MP	1991	Social Infrastructure	River & Erosion Control
435 Asia	Korea	KOR/M 001/93	Industrial Waste Water Treatment and Recycling Project in the Republic of Korea	FS	1993	Industry	Others
436 Asia	Laos	LAOS 201B/89	Improvement of Drainage System in Vientiane	MP+FS	1989	Social Infrastructure	River & Erosion Control
437 Asia	Laos	LAOA 301/89	Agricultural and Rural Development Project in the Suburbs of Vientiane	FS	1989	Agriculture	(Agriculture in) General
438 Asia	Laos	LAOS 301/90	The Nigon Bridge Construction Project	FS	1990	Transportation	Road
439 Asia	Laos	LAOM 001/91	Feasibility Study on Xe Katam Small-Scale Hydroelectric Power Development Project	FS	1991	Energy	Hydraulic Power
440 Asia	Laos	LAOA 101/92	The Integrated Agricultural Rural Development Project in Savannakhet Province	MP	1992	Agriculture	(Agriculture in) General
441 Asia	Laos	LAOS 202B/92	Solid Waste Management System Improvement Project in Vientiane	MP+FS	1992	Public Utilities	Urban Sanitation
442 Asia	Laos	LAOA 221/93	Agricultural Development Project to Control Slash and Burn Cultivation in Oudomxay Province	MP+FS	1993	Agriculture	(Agriculture in) General
443 Asia	Laos	LAOS 203/95	Groundwater Development for Champasak and Saravan Provinces	MP+FS	1995	Social Infrastructure	Water Resources Development
444 Asia	Laos	LAOM 002/95	Master Plan Study on Hydroelectric Power Development in the So Kong Basin in the Lao People's Democratic Republic	FS	1995	Energy	Hydraulic Power
445 Asia	Laos	LAOS 501/95	Topographic Mapping of Bolikhamxay Province	Basic Study	1995	Social Infrastructure	Survey & Mapping
446 Asia	Laos	LAOA 201/96	Integrated Agricultural Rural Development Project in Boloven Plateau	MP+FS	1996	Agriculture	(Agriculture in) General
447 Asia	Laos	LAOS 306/96	Construction of Mekong Bridge at Pakse	FS	1996	Transportation	Road
448 Asia	Malaysia	MYS/M 101/77	Master Plan Study for the Development of Petroleum & Natural Gas Resources in Malaysia	MP	1977	Energy	Gas, Coal & Oil

Project List

No. Region	Country	Code No.	Name of the Study	Type	Year	Sector	Subsector
449 Asia	Malaysia	MYS/S 301/77	Kuantan-Kuching Submarine Cable Project	FS	1977	Communications & Broadcasting	Telecommunication
450 Asia	Malaysia	MYS/S 201B/78	Sewerage and Drainage System Project: Butterworth/Bukit Mertajam Metropolitan Area	MP+FS	1978	Public Utilities	Sewerage
451 Asia	Malaysia	MYS/A 201B/79	Trengganu Swamp Area Integrated Agricultural Development	MP+FS	1979	Agriculture	(Agriculture in) General
452 Asia	Malaysia	MYS/S 601/79	Batu Pahat Deepwater Port Project	Other	1979	Transportation	Port
453 Asia	Malaysia	MYS/S 202B/80	Kelantan Port Development Project	MP+FS	1980	Transportation	Port
454 Asia	Malaysia	MYS/M 001/80	Feasibility Study on the ASEAN Urea Project in Malaysia	FS	1980	Industry	Chemicals
455 Asia	Malaysia	MYS/S 302/80	Beluru/Long Lama/Limbang Trunk Road Construction Project in Sarawak	FS	1980	Transportation	Road
456 Asia	Malaysia	MYS/S 303/80	Flood Forecasting and Warning System in Sabah and Sarawak	FS	1980	Social Infrastructure	Flood & Erosion Control
457 Asia	Malaysia	MYS/S 203B/81	Sewerage and Drainage System Project in Alor Setar and its Urban Environs	MP+FS	1981	Public Utilities	Sewerage
458 Asia	Malaysia	MYS/M 002/81	Feasibility Study on Establishment of Kelantan Cement Factory in Malaysia	FS	1981	Industry	Ceramics
459 Asia	Malaysia	MYS/S 304/81	VHF/FM Broadcast Coverage for Peninsular Malaysia	FS	1981	Communications & Broadcasting	Broadcasting
460 Asia	Malaysia	MYS/S 101/82	National Water Resources Study	MP	1982	Social Infrastructure	Water Resources Development
461 Asia	Malaysia	MYS/S 204B/82	Urban Transport in Greater Metropolitan Areas of George Town, Butterworth and Bukit Mertajam	MP+FS	1982	Transportation	Road
462 Asia	Malaysia	MYS/S 205B/82	Sewerage and Drainage System Project in Kelang, Port Klang and its Environs	MP+FS	1982	Public Utilities	Sewerage
463 Asia	Malaysia	MYS/S 306/82	Kuabatangan River Basin Development Project	FS	1982	Social Infrastructures	Water Resources Development
464 Asia	Malaysia	MYS/S 303/82	Reclamation Project of Ex-Mining Land for Housing Development and Other Purposes	FS	1982	Social Infrastructures	Architecture & Housing
465 Asia	Malaysia	MYS/S 102/83	Railway Development Plan	MP	1983	Transportation	Railway
466 Asia	Malaysia	MYS/M 003/83	The Feasibility Study on the Tekai Hydroelectric Power Development Project in the Malaysia	FS	1983	Energy	Hydraulic Power
467 Asia	Malaysia	MYS/S 307/83	VHF/FM Broadcast Coverage for the States of Sabah and Sarawak	FS	1983	Communications & Broadcasting	Broadcasting
468 Asia	Malaysia	MYS/S 208/84	Perlis Port Development Project	MP+FS	1984	Transportation	Port
469 Asia	Malaysia	MYS/S 206B/84	JB-Transplan: Road Construction and Improvement Project in Johor Bahru and its Conurbation	MP+FS	1984	Transportation	Road
470 Asia	Malaysia	MYS/A 301/84	Afforestation and Settlement Project in Division Y of the Bengkulu Area of the State of Sabah	FS	1984	Forestry	Forestry & Forest Conservation
471 Asia	Malaysia	MYS/S 309/84	Perlis-Kedah-Pulau Pinang Regional Water Resources (National Water Resources Study)	FS	1984	Social Infrastructure	Water Resources Development
472 Asia	Malaysia	MYS/S 104/85	Regional Water Resources of South Johor (National Water Resources Study)	MP	1985	Social Infrastructure	Water Resources Development
473 Asia	Malaysia	MYS/S 103/85	Integrated Development of South Trengganu	MP	1985	Development Plan	Integrated Regional Development Plan
474 Asia	Malaysia	MYS/S 310/85	Tatau-Kapit Trunk Road Project in Sarawak	FS	1985	Transportation	Road
475 Asia	Malaysia	MYS/S 311/85	New East-West Railway Project and the West Coast Railway Project	FS	1985	Transportation	Railway
476 Asia	Malaysia	MYS/S 105/86	Klang Valley Transportation Study	MP	1986	Transportation	Urban Transportation

Project List

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477 Asia	Malaysia	MYSS 31286	Kuantan-Kota Kuala Lumpur Submarine Cable Project	FS	1986	Communications & Broadcasting	Telecommunication
478 Asia	Malaysia	MYSM 00486	The Feasibility Study on the Temom Paug Hydroelectric Power Development Project Phase III (Sook Reservoir Scheme)	FS	1986	Energy	Hydraulic Power
479 Asia	Malaysia	MYSA 30287	Tanjong Karang Irrigation Development Management Project	FS	1987	Agriculture	(Agriculture in) General
480 Asia	Malaysia	MYSS 31387	Computerized Area Traffic Control System in Penang	FS	1987	Transportation	Urban Transportation
481 Asia	Malaysia	MYSM 00587	The Feasibility Study on City Gas Distribution Systems in the Klang Valley Area of Malaysia	FS	1987	Energy	Gas, Coal & Oil
482 Asia	Malaysia	MYSS 207B88	Flood Mitigation of the Klang River Basin	M/P+FS	1988	Social Infrastructure	River & Erosion Control
483 Asia	Malaysia	MYSS 31488	National Tourism Development Plan	FS	1988	Tourism	(Tourism in) General
484 Asia	Malaysia	MYSM 00788	Lebur Daun Project	FS	1988	Energy	Hydraulic Power
485 Asia	Malaysia	MYSM 00688	Feasibility Study on Serawak Small Scale Hydroelectric Power Project in Malaysia	FS	1988	Energy	Hydraulic Power
486 Asia	Malaysia	MYSS 208B89	Kelantan River Basin Flood Mitigation	M/P+FS	1989	Social Infrastructure	River & Erosion Control
487 Asia	Malaysia	MYSS 209B89	Solid Waste Management for Pulau Pasang and Seberang Perai Municipalities	M/P+FS	1989	Public Utilities	Urban Sanitation
488 Asia	Malaysia	MYSS 31589	Transportation Facilities Projects in Klang Valley	FS	1989	Transportation	Urban Transportation
489 Asia	Malaysia	MYSS 31689	Traffic Control and Management System of Malaysian Expressways and Toll Highways	FS	1989	Transportation	Road
490 Asia	Malaysia	MYSA 10190	Fish Marketing and Distribution System	M/P	1990	Fishery	Fishery
491 Asia	Malaysia	MYSM 10290	The Study on Selected Industrial Product Development	M/P	1990	Industry	(Industry in) General
492 Asia	Malaysia	MYSA 202B90	Rationalization and Crop Diversification in Non-Grainy Irrigated Areas	M/P+FS	1990	Agriculture	(Agriculture in) General
493 Asia	Malaysia	MYSS 210B90	Flood Mitigation and Drainage in Penang Island	M/P+FS	1990	Social Infrastructure	River & Erosion Control
494 Asia	Malaysia	MYSS 31790	Rail-based Commuter Services in Klang Valley	FS	1990	Transportation	Railway
495 Asia	Malaysia	MYSS 211B91	Development of Rajang Port	M/P+FS	1991	Transportation	Port
496 Asia	Malaysia	MYSM 00891	Study on the Establishment of Kulim High-Tech of Malaysia Industrial Park	FS	1991	Industry	(Industry in) General
497 Asia	Malaysia	MYSS 106B92	Highway Network Development Plan	M/P	1992	Transportation	Road
498 Asia	Malaysia	MYSS 107B92	Maintenance and Rehabilitation of Bridges	M/P	1992	Transportation	Road
499 Asia	Malaysia	MYSM 10392	Study on the Industrial Standardization and Quality Assurance Improvement Program in Malaysia	M/P	1992	Industry	(Industry in) General
500 Asia	Malaysia	MYSM 00892	Feasibility Study on Small Scale Hydroelectric Power Development Project at Upper Lawagu River Basin in Sabah	FS	1992	Energy	Hydraulic Power
501 Asia	Malaysia	MYSM 10493	The Study for Upgrading the Measurement Centre, SIRIM	M/P	1993	Others	Others
502 Asia	Malaysia	MYSS 10393	Air Quality Management Study for Klang Valley Region	M/P	1993	Administration	Environmental Problems
503 Asia	Malaysia	MYSA 31193	The Pilot Project for Improvement of Fish Marketing and Distribution System in East Johor	FS	1993	Fishery	Fishery
504 Asia	Malaysia	MYSA 10294	Forest Plantation Development in Northern Sabah	M/P	1994	Forestry	Forestry & Forest Conservation

Project List

No. Region	Country	Code No.	Name of the Study	Type	Year	Sector	Subsector
505 Asia	Malaysia	MYSS 21394	National River Mouths Study in Malaysia	M/P+FS	1994	Social Infrastructure	River & Erosion Control
506 Asia	Malaysia	MYSA 31294	Small Reservoir Development in Peninsular Malaysia	FS	1994	Agriculture	Irrigation, Drainage & Reclamation
507 Asia	Malaysia	MYSM 10695	A Study on the Development and Promotion Plan for the Supporting Industry in Malaysia	M/P	1995	Industry	Machine Industry
508 Asia	Malaysia	MYSS 10795	Comprehensive Management Plan of Muda River Basin	M/P	1995	Social Infrastructure	Water Resources Development
509 Asia	Malaysia	MYSM 10696	Study on Management and Planning of R&D Supporting Facilities (Techno Centre) for Kulim Hi-Tech Industrial Park in Malaysia	M/P	1995	Industry	(Industry in) General
510 Asia	Malaysia	MYSS 31895	Introduction of Land Readjustment	FS	1995	Social Infrastructure	Urban Planning & Land Development
511 Asia	Malaysia	MYSS 10896	Standardization of the Bridge Design	M/P	1996	Transportation	Road
512 Asia	Malaysia	MYSS 30796	Kuala Lumpur Outer Ring Road	FS	1996	Transportation	Road
513 Asia	Malaysia	MYSA 31097	Forestry Development Project in Marak Parak, Northern Sabah	FS	1997	Forestry	Forestry & Forest Conservation
514 Asia	Maldives	MDVS 201992	Seawall Construction Project for Male Island	M/P+FS	1992	Social Infrastructure	River & Erosion Control
515 Asia	Mongolia	MNGS 30192	Improvement Plan for Transshipment Facilities at Zamin-Uud Station	FS	1992	Transportation	Railway
516 Asia	Mongolia	MNGM 10193	Erdenet Mine Modernization and Development Program	M/P	1993	Mining	Mining
517 Asia	Mongolia	MNGM 10295	Study on Comprehensive Coal Development and Utilization in Mongolia	M/P	1995	Energy	Gas, Coal & Oil
518 Asia	Mongolia	MNGA 10195	Integrated Agricultural and Rural Development in Central Region	M/P	1995	Agriculture	(Agriculture in) General
519 Asia	Mongolia	MNGS 20196	Water Supply System in Ulaanbaatar and Surroundings	M/P+FS	1995	Public Utilities	Water Supply
520 Asia	Mongolia	MNGS 20496	Telecommunications Network in Ulaanbaatar City	M/P+FS	1996	Communications & Broadcasting	Telecommunication
521 Asia	Mongolia	MNGS 50296	Topographic Mapping of Ulaan-Thay Area	Basic Study	1996	Social Infrastructure	Survey & Mapping
522 Asia	Mongolia	MNGA 11097	Strengthening of Agricultural Cooperatives	M/P	1997	Agriculture	(Agriculture in) General
523 Asia	Mongolia	MNGS 20797	Rehabilitation Project of the Mongolian Railway	M/P+FS	1997	Transportation	Railway
524 Asia	Mongolia	MNGA 50297	Forest Resources Management Study in Selenge	Basic Study	1997	Forestry	Forestry & Forest Conservation
525 Asia	Myanmar	MYNM 00176	Feasibility Study on Oil Refinery Construction Plan	FS	1976	Industry	Chemicals
526 Asia	Myanmar	MYNA 10179	Irrawaddy Basin Integrated Agricultural Development Project	M/P	1979	Agriculture	(Agriculture in) General
527 Asia	Myanmar	MYNA 30179	Rice Mill Project	FS	1979	Agriculture	Agricultural Processing
528 Asia	Myanmar	MYNM 00279	Feasibility Study on KYANGI Plant Expansion Project in Socialist Republic of the Union of Burma	FS	1979	Industry	Ceramics
529 Asia	Myanmar	MYNA 30280	South Nawin Irrigation Project	FS	1980	Agriculture	(Agriculture in) General
530 Asia	Myanmar	MYNS 30180	Rangoon International Airport Development	FS	1980	Transportation	Air Transportation & Airport
531 Asia	Myanmar	MYNA 30281	Okkan Dam Irrigation Project	FS	1981	Agriculture	(Agriculture in) General
532 Asia	Myanmar	MYNM 00381	The Preliminary Survey on the Integrated LPG Project in the Socialist Republic of the Union of Burma	FS	1981	Energy	Gas, Coal & Oil