Ex-Post Situation Study

February 2017

Japan International Cooperation Agency International Development Center of Japan Incorporated

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Summary

SUMMARY

1. Background and Purpose of the Ex-Post Situation Study

1.1 Background of the Ex-Post Situation Study

After the completion of Technical Cooperation for Development Planning (former development studies, hereafter Development Studies), there are some difficulties to monitor the status of proposed projects and how the studies were utilized.

In order to overcome the above-mentioned difficulties, follow-up studies on development studies were started in Japanese fiscal year (FY) 1984. Since FY 2001, this Ex-Post Situation Study on Development Study (hereafter the Status Study) has focused in understanding the current status of each project and analyses of overall tendencies.

- (1) On-site Follow-up Studies (FY 1987 to 2000)
- (2) Domestic Follow-up Studies (since FY 1988): Conducting surveys through questionnaires to domestic consultants in charge of the development studies.
- (3) Overseas Office Studies (since FY 1991): Conducting surveys on counterparts in the recipient countries through Japan International Cooperation Agency (JICA) overseas offices to get update information on recent situations after the development studies.
- (4) Overseas Follow-up Studies by foreign consultants (since FY 1994)
- (5) Overseas Follow-up Studies by local in-country consultants (since FY 1995)

Subsequent independence of overseas survey to evaluate the impact of the Development Study and other numerous transition of the follow-up study, the Status Study focuses on understanding status of individual study, and trends of the Development Study. This Status Study conducts (2) and (3), mentioned above.

1.2 Purpose of the Ex-Post Situation Study

The Status Study has two purposes;

- (1) To monitor the present status of proposed projects and how the results of the completed development studies are utilized, and
- (2) To utilize these findings for more effective implementation of the project by systematically analyzing them.
- 1.3 Methods of Ex-Post Situation Study

The Status Study employs following two methods.

- (1) Domestic Survey
- To analyze replied questionnaires that were sent to domestic consultants in charge of the project.
- (2) Overseas Survey
- To analyze replied questionnaires that were sent to relevant agencies in the recipient countries through JICA overseas offices

As mentioned above, the study solely relies on the questionnaire surveys for information and data and does not verify the answers related to other donor countries, International Agency, or projects conducted by domestic funds. Thus, the results of the study could be to some extent different from the actual and current situations.

Experiences from prior follow-up studies show that any progress in projects is likely to be made within 5 to 10 years after completion of each Development Study. For this reason, the Status Study in FY2016 focused on the current status of projects for which the studies had been completed in FY2005, FY2010, FY2012, FY2014 under the jurisdiction of the Mining and Industrial Development area, and the studies had been completed in FY2010 under the jurisdiction of the Social Development area, the Agriculture, Forestry and Fisheries area.

1.4 Methods in Compiling the Results

(1) Comparison and analysis of the status of utilization of the completed studies, revealed from the survey findings, are made by using several classifications.

- Types of studies: Master Plan Study (M/P), Feasibility Study (F/S), M/P+F/S, Detailed Design (D/D), Basic Study, Factory Modernization Program in China (Chinese Factory Studies), and others¹.
- Target regions, and
- Target sectors: Social Development area; Agriculture, Forestry and Fisheries Development area; and Mining and Industrial Development area.

(2) Type of studies has been re-classified into groups mentioned below, due to differences in the nature of studies between the Social Development Study and Agriculture, Forestry, and Fishery Development area.

M/P Studies Group	M/P Study, Basic Study, Chinese Factory Modernization Study, Other Study, and Other Study (M/P type)	
F/S Group	F/S, M/P+F/S, D/D Study, Other Study (F/S type)	

¹ Others are a combination of other studies in Social Development and Agriculture, Forestry and Fisheries Development studies, and other (M/P-type) and other (F/S-type) studies in Mining and Industrial Development studies.

(3) Status of utilization of the study has been classified into classifications mentioned below.

M/P	Studies	Group

Present Status	Criteria
a. In Progress	A Study is classified in this category when its findings or proposals are sufficiently
or In Use	utilized in the following manner.
	1) Based on the proposals, subsequent 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.
	 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.
	5) The government of the recipient country is on the considerations of
	recommendations just after the completion of the research.
b. Delayed	A study is classified as "delayed" when its findings or proposals are in one of the
	following conditions.
	 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	A study is classified in this category when its findings or proposals meet one of the
or Cancelled	following conditions.
	1) The government of the recipient country made an explicit decision not to act on
	the proposals.
	 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 a considerable period of time."

F/S Group

Present Status	Criteria
a.Completed	
or In Progress	The proposed development project has been already completed and is in use.
a1. Completed	The proposed development project is partially implemented and is in use.
a2. Partially	
Implemented	The implementation of the project is underway.
a3.Under	
Implementation	The project concerned is at one of the following stages.
a4. In Process	1) Tenders have been invited.
	2) Financing of the project has been secured.
	3) Following the completion of the JICA feasibility study, the detailed design
	study or some other specific step is being undertaken with bilateral or
	multilateral financial assistance, including Japan.
	4) For other reasons the project concerned is considered highly likely to be
	implemented in the future.

b.Under Promotion	The project concerned is at one of the following stages.
	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	The project concerned is at one of the following stages.
	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.
c. Discontinued	A study is classified in this category when its findings or proposals meet one of the
or Cancelled	following conditions.
	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 from JICA study.
	3) No actions have been or will be taken "for a considerable period of time."
	3) No actions have been or will be taken "for a considerable period of time."

* Here the term "secured" is used to mean that either a loan agreement is signed, or a government commitment is confirmed in the form of an official pledge or exchange of notes that has been executed.

(4) The following two indicators are used to describe how the various studies are utilized in the recipient countries.

1) Utilization Rate (%)

Utilization rate means the ratio of number of studies categorized in "In Progress or In Use" status out of total studies. This evaluation metric applies for determining the state of utilization for the M/P studies group; Master Plan Studies (M/P), Basic Studies, Chinese Factory Studies, Other studies, and Other Studies (M/P-type)².

2) Realization Rate (%)

Realization rate means the ratio of number of studies which are categorized in "Completed or In Progress" status out of total studies. This evaluation metric applies for determining the realization of proposed projects for the F/S group; this group includes Master Plan and Feasibility Studies (M/P + F/S), Feasibility Studies (F/S), Detailed Design Studies (D/D), and Other Studies (F/S-type)³. Figures in the tables may not show 100% in sum due to the round off of each figure.

(5) JICA reformed its organizational structure in April 2004 and rearranged the responsibilities of conducting development studies from 3 scheme /Sector-specific department to 5 issue-oriented departments. As a

² which were categorized in the M/P studies group.

³ which are evaluated according to the rate of realization of the project.

result, the Social Development sector and Agriculture, Forestry and Fisheries sector are on the responsibilities of the Social Development Department, the Human Development Department, the Global Environment Department, the Rural Development Department, and the Grant Aid Department, Development studies in the Mining and Industrial Development sector are conducted by the Economic Development Department. According to the organizational change in April and October 2008, there were mergers of the Social Development Department into Economic Infrastructure Department and Public Policy Department, and the Economic Development Department into Industrial Development Department. In addition, according to the organizational change in April, 2011, Industrial Development Department and Public Policy Department were integrated into Industrial Development and Public Policy Department. There were mergers of the Economic Infrastructure Department into Infrastructure and Peacebuilding Department. There were mergers of the Economic Infrastructure Department and Public Policy Department. There is possible subjects of each new department are as below.

Infrastructure and Peacebuilding Department:

Information and Communication Technology (ICT), Transportation, Urban and Regional

Development, Peace Building, Gender, Poverty Reduction, JICA-Net Program, and others

Human Development Department:

Education, Health, Social Security, and others

Global Environment Department:

Nature Conservation, Environmental Management, Water Resource Management, Disaster Management, Climate Control, and others

Rural Development Department:

Agricultural Development, Rural Development, Fisheries Cooperation, and others

Industrial Development and Public Policy Department:

Economic Policy and Private Sector Development, Energy, Mining, Public Safety, Local Administration, Statistics, Law and Justice, Fiscal and Financial Sector Management, Japan Center Program, and others

2. Summary of Survey Findings

2.1 All Development Studies

The Status Study covers 2,358 Development Studies conducted from FY 1974 to FY2014 and analyzed the situations after its completion. Especially, this study implemented questionnaire survey focusing on the studies completed in FY2005, FY2010, FY2012 and FY2014 under the jurisdiction of the Mining and Industrial development area, and also the studies completed in FY2010 under the jurisdiction of the Social Development area, the Agriculture, Forestry and Fisheries area. According to the experiences of previous follow-up studies conducted, 5 years period after the completion are known to be a critical turning point for utilizations or realizations of the proposed projects, which in addition exists a tendency of clear diversification between utilized or realized studies and unutilized or unrealized studies in 10 years time.

In this Status Study, questionnaire survey has been implemented, targeting consultants and relevant agencies in the recipient countries in charge of conducting the study concerned.⁴.Numbers of studies questioned are as follow.

M/P Studies Group: 22 studies F/S Group: 3 studies

First of all, by sectors, the majority of the studies are for the Social Development area with 1,221 studies out of 2,358 studies in total (51.8% of all Development Studies). This is followed by studies in the Mining and Industrial Development area (710 studies, 30.1%), and in the Agriculture, Forestry, and Fishery area (427 studies, 18.1%).

By regions, 1,361 studies (57.7%) out of 2,358 studies were conducted in Asia region, followed by Central and South American region with 351 studies (14.9%), and African region with 285 studies (12.1%). With JICA setting forth a policy to focus on African region, number of the Development Studies to be conducted is expected to increase in African region⁵.

By study types, 1,266 studies out of 2,358 studies are F/S followed by 1,092 M/P studies.

The M/P Studies Group includes 776 studies in M/P, 131 studies in Basic Study, 117 studies in Chinese Factory Study, and 68 studies in others. The F/S Group includes 805⁴ studies in F/S, 410 studies in M/P+F/S, 42 studies in D/D and 9 studies in others. The implementation rates in all areas are 34.1% of the total for F/S,

⁴ Rate of return of the questionnaire are; 72.0% for domestic consultants and 36.0% for overseas agencies.

⁵ A scheme called "Development Studies" is to be redefinded and renamed "Preparatory Survey" or "Technical Cooperation for Development Planning" after October 2008.

32.9% for M/P Study. Thus, these 2 types of studies account for over two-thirds of all the Development Studies conducted. The above said studies are followed by M/P+F/S with 17.4%.

As these figures show, majority of the Development Studies conducted consists from F/S and M/P (and combination of both) studies. However, in recent years, number of F/S conducted has been decreasing. Therefore, in the near future, there is a possibility for the cumulative total number of M/P studies to overcome the number of F/S to be conducted.

By field, there are 484 studies (account for 20.5% of 2,358 studies in total) in the field of Transportation, 334 in Agriculture (14.2%), 320 in Industry (13.6%), 306 in Social Infrastructure (12.9%), and 298 in Energy (12.6%). The studies in these 5 sectors exceed 70% of studies in total.

Although there are 320 studies in the field of Industry, this figure includes 117 studies of the Chinese Factory Study, implemented in relation to the Japanese foreign policy. Thus, by excluding this study, number of studies in the Industry field will decrease.

Secondly, by briefly looking at the situation of utilization or realization of the development studies, the utilization rate is highest in the Social Development area (81.4%), followed by the Agriculture, Forestry, and Fishery area (74.7%), and the Mining and Industrial Development area (66.8%). Low realization/utilization rate in the Mining and Industrial Development area in comparison to the Social Development or the Agriculture, Forestry, and Fishery area can be affected by relatively large project scale, which requires certain amount of time in procuring funds.

Result of the analysis, dividing all of the Development Studies into M/P type studies or F/S type studies, based on information acquired from the questionnaire will be presented in the next section.

	Number of Studies	Number of Studies In Progress of In Use	Realization / Utilization Rate
Social Development	1,221	994	81.4%
Agriculture, Forestry and Fisheries Development	427	319	74.7%
Mining and Industrial Development	710	474	66.8%
Total	2,358	1,787	75.8%

Table 1 Realization/Utilization Rate of Development Studies

2.2 M/P Studies Group

(1) Status of Utilization

Out of 2,358 Development Studies in total, 1,092 studies are classified as M/P Studies Group. Status of each study has been classified based on the criteria mentioned in 1.4 (3).

Within 1,092 studies in M/P Studies Group, 978 studies (89.6%) have shown a positive state of utilization, i.e., they were effectively utilized through the implementation of a project, the formulation of a national development plan, and so forth. Findings also show that M/P Studies and Basic Studies are the most frequently utilized studies.

Type of Studies	Number of Studies		Rate of Util	ization
M/P	776	(71.1%)	707	(91.1%)
Basic Studies	131	(12.0%)	120	(91.6%)
Chinese Factories	117	(10.7%)	93	(79.5%)
Others *	68	(6.2%)	58	(85.3%)
Total	1,092	(100.0%)	978	(89.6%)

Table 2 Status of Utilization (M/P Studies Group)

⁴ Others are a combination of Other Studies in Social Development and Agriculture, Forestry and Fisheries Development studies, and Other Studies (M/P-type) in Mining and Industrial Development studies.

(2) Status of Utilization by Region

Clear distinction of utilization rate between regions can not be found. However, sharp fluctuation of utilization rate may be seen for Oceania, Europe, and Multiple Countries in the result of Status Study conducted in other fiscal year, due to small numbers of studies conducted.

Regions	Number of Studies		Rate of Utilization	
Asia	609	(55.8%)	550	(90.3%)
Middle East	111	(10.2%)	95	(85.6%)
Africa	154	(14.1%)	135	(87.7%)
Central and South America	164	(15.0%)	147	(89.6%)
Oceania	13	(1.2%)	12	(92.3%)
Europe	33	(3.0%)	31	(93.9%)
Multiple Countries *	8	(0.7%)	8	(100.0%)
Total	1,092	(100.0%)	978	(89.6%)

Table 3 Status of Utilization by Region (M/P Studies Group)

* Studies that cover more than one single country or regions are classified as "Multiple Countries".

(3) Status of Utilization by Sectors

The utilization rate in the area of Mining and Industrial Development, where it takes longer time for realization, was relatively low as indicated.

Sectors	Number of Studies	Rate of Utilization
Social Development	507 (46.4%)	472 (93.1%)
Agriculture, Forestry and Fisheries Development	164 (15.0%)	153 (93.3%)
Mining and Industrial Development	421 (38.6%)	353 (83.8%)
Total	1,092 (100.0%)	978 (89.6%)

Table 4 Status of Utilization by Sectors (M/P Studies Group)

(4) Current Status of Studies Categorized as "In Progress or In Use"

The ways in which the studies are classified as "In Progress or In Use" can be summarized as follows.

- 1) Studies are incorporated in national development plans or national policies
- 2) Subsequent studies are conducted and are geared towards implementation
- 3) Funding is secured and implementation is planned for proposed projects

Findings show that many proposed projects that have been realized are those for which the subsequent study has been conducted and secured funding within 5 years after the completion of the main study.

In addition, effective utilization of study findings is likely to depend on consistency with national development plans or the prioritization of the project itself of the recipient country.

(5) Current Status of Studies Categorized as "Delayed" or "Discontinued or Cancelled"

Factors attributable to the delay, discontinuance or cancellation of studies can be listed as below.

- Political factors such as lower priority given to studies by the recipient government as well as changes in development policy
- 2) Political factors such as replacement of active Chairpersons toward target projects
- 3) Difficulty in obtaining sufficient foreign funding
- 4) Administrative factors such as organizational alternation of the relevant government agencies, coordination inefficiency among the administrative organizations, and disagreement of both countries on the results of studies for the second stage5) Natural disasters etc.

	· · · · · · · · · · · · · · · · · · ·	1,
Elapsed Time after Completion of Development Study	Delayed	Discontinued or Cancelled
Less than 5 years	0 (0.0%)	0 (0.0%)
Between 5 years to 9 years	9 (13.2%)	1 (2.3%)
10 years or more	59 (86.8%)	43 (97.7%)
Total	68 (100.0%)	44 (100.0%)

Table 5 Current Status of Studies Categorized as "Delayed" or "Discontinued or Cancelled" (M/P Studies Group)

2.3 F/S Group

(1) Status of Realization

Out of 2,358 Development Studies in total, 1,266 Studies has been classified as F/S Group. Status of each study has been classified based on the criteria mentioned in 1.4 (3).

The 809 studies of the F/S group categorized as "In Progress or Completed" have a realization rate of 63.9%. The realization rate of D/D studies scored the highest of all studies.

Type of Studies	Number of Studies		Realizati	on Rate
F/S*	814	(64.3%)	481	(59.1%)
M/P+F/S	410	(32.4%)	295	(72.0%)
D/D	42	(3.3%)	33	(78.6%)
Total	1,266	(100.0%)	809	(63.9%)

Table 6 Status of Realization (F/S Group)

* The category F/S includes "Other (F/S-type)" mining and industrial development studies.

(2) Status of Realization by Region

The results show that Asia has the highest realization rate followed by Middle East. Sharp fluctuation of utilization rate may be seen for Oceania, Europe, and Multiple Countries in the result of Status Study conducted in other fiscal year, due to small numbers of studies conducted.

Regions	Number of Studies		Rate of Util	ization
Asia	752 (5	9.4%)	511	(68.0%)
Middle East	146 (1	1.5%)	98	(67.1%)
Africa	131 (1	0.3%)	71	(54.2%)
Central and South America	187 (1	4.8%)	100	(53.5%)
Oceania	18 (1.4%)	8	(44.4%)
Europe	27 (2.1%)	17	(63.0%)
Multiple Countries *	5 (0.4%)	4	(80.0%)
Total	1,266 (10	0.0%)	809	(63.9%)

Table 7 Status of Realization by Region (F/S Group)

(3) Status of Realization by Sectors

There is some variance in the rates of realization for the different sectors. Longer time frame required for project realization under mining and industrial development is considered as the attributable factor for their relatively low rate of realization.

Sectors	Number of Studies	Rate of Utilization
Social Development	714 (56.4%)	522 (73.1%)
Agriculture, Forestry and Fisheries Development	263 (20.8%)	166 (63.1%)
Mining and Industrial Development	289 (22.8%)	121 (41.9%)
Total	1,266 (100.0%)	809 (63.9%)

Table 8 Status of Realization by Sectors (F/S Group)

(4) Status of Studies Categorized as "in Progress" or "Completed" Studies

Most of the studies identified as "Completed", "Partially Implemented" or "Under Implementation" had already secured sufficient funds and had their proposed projects implemented or partially implemented. Focusing on the process towards the realization of the projects, results show that subsequent study such as D/D and E/S in most of these studies had already been completed, with funding secured within five years after the completion of the main study.

The major source of fund came from Japan, in the form of yen loans, grant aid, and so forth. Others include funds from own funds, international agencies, other donors, the private sector, and so forth. The studies "In Process" are those which have secured or procured funding. This is similar to the state of subsequent study or the state of securing funds after the completion of the main study.

Present Status of Studies	Realization Rate
Completed	314 (38.8%)
Partially Completed	229 (28.3%)
Under Implementation	193 (23.9%)
In Process	73 (9.0%)
Total	809 (100.0%)

Table 9 Status of Studies Categorized as "in Progress" or "Completed" Studies (F/S Group)

(5) Status of Studies Categorized as "At the Preparatory Stage"

Studies categorized as "At the Preparatory Stage" can be classified into those concrete plans are identified, those for which requests have been made yet because of under consideration or in preparation, and those for which concrete plans are unidentified or unknown.

There are also studies in which 5 to 10 years have elapsed after requests were made, but are still on hold. Such cases could be categorized as "delayed" unless certain measures are taken in the near future.

Elapsed Time after Completion of	Rate of Preparatory
Development Study	Stage
Less than 5 years	0 (0.0%)
Between 5 years to 9 years	9 (5.5%)
10 years or more	154 (94.5%)
Total	163 (100.0%)

Table 10 Status of Studies Categorized as "At the Preparatory Stage" (F/S Group)

(6) Status of Studies Categorized as "Delayed" and "Discontinued or Cancelled"

96.8% of the studies that are categorized as "Delayed" have passed more than 10 years since the completion of main studies.

Findings reveal that the rate of "Discontinued or Cancelled" studies for which the main study had been finished more than 10 years ago reached 100% and was higher in comparison with that of "Delayed" studies.

Some of the underlying factors for the "non-realization" of the proposed projects can be summarized as follows:

- 1) Political factors, such as lower priority given to the projects or changes in development policy
- 2) Economic factors, such as difficulty in procuring funds from other countries, tighter financial situations in the recipient countries and overall economic stagnation
- 3) Political factors such as civil wars, political unrests

Elapsed Time after Completion of Development Study	Delayed	Discontinued or Cancelled
Less than 5 years	0 (0.0%)	0 (0.0%)
Between 5 years to 9 years	5 (3.2%)	0 (0.0%)
10 years or more	153 (96.8%)	136 (100.0%)
Total	158 (100.0%)	136 (100.0%)

Table 11 Status of Studies Categorized as "Delayed" and "Discontinued or Cancelled" (F/S Group)

2.4 Review Results

In order to evaluate the implementation processes and results of Development Studies, this Ex-post Situation Study conducted a questionnaire survey to collect the opinions of counterparts in the recipient countries and Japanese consultants (hereinafter, referred to as 'consultants') in charge of the Development Studies about (i) achievement of Project Objectives and Overall Goals; (ii) quality of consultants and their reports; (iii) utilization of study results and reports; (iv) relevance of Development Studies and institutional arrangements for their implementation; and (v) consequences of technical transfer and capacity development. The results of the questionnaire survey are provided in the following sections. The questionnaire was distributed to a total of 20 counterparts and consultants, including 10 development studies implemented by the technical cooperation project budget selected as samples for this year's Ex-post Situation Study and returned by 8 organizations. Meanwhile, it is appropriate to regard the results as rough trend due to the limited number of collected questionnaire.

(1) Achievement of Project Objectives and Overall Goals

Most Development Studies received good reviews on the achievement of the Project Objectives. As shown in the table below, 5 out of the 8 respondents answered "well achieved", in addition to the respondents who answered "generally achieved", reaching at 100% of the respondents to suggest good reviews. Both counterparts and consultants share similar evaluations.

	counterparts	consultants	total
Well achieved	1	4	5
Generally achieved	2	1	3
Not well achieved	0	0	0
Unachieved	0	0	0
No project objective was set	0	0	0
n.a.	0	0	0
total	3	5	8

Table 12Achievement of Project Objectives

Source: Prepared by the Study Team

With regard to the achievement of the Overall Goals, 4 out of 8 respondents answered "well achieved" or "generally achieved" (2 respondents with no answer), causing some disparity compared to the achievement of Project Objectives. Only 1 out of 8 respondents reported that the Overall Goal was "well achieved." These evaluation results are attributable to the fact that, although most Development Studies produced outcomes (reports) as planned, it was often difficult to realize what had been suggested in the reports (actually only some of the suggestions had been put into action) due to financial and other reasons.

	counterparts	consultants	total
Well achieved	0	1	1
Generally achieved	2	1	3
Not well achieved	1	1	2
Unachieved	0	0	0
No overall goal was set	0	0	0
n.a.	0	2	2
total	3	5	8

Table 13 Achievement of Overall Goals

Source: Prepared by the Study Team

(2) Quality of Consultants and Their Reports

The questionnaire survey collected opinions on the quality of consultants and their reports only from counterparts.

According to the survey, most consultants received good reviews. All the 3 counterparts answered "very satisfied" or "satisfied", showing high evaluation.

	counterparts
Very satisfied	1
Satisfied	2
Neither	0
Unsatisfied	0
n.a.	0
total	3

Table 14 Quality of consultants

Source: Prepared by the Study Team

The questionnaire survey collected opinions on the quality of reports from the following three viewpoints: (i) report as a whole; (ii) analyses; and (iii) recommendations. Except for one respondent who answered "unsatisfied" to the question on the quality of recommendations, all the other counterparts highly evaluated the quality of the reports in all the three terms, just as much as they appreciated the quality of consultants.

	Report as a whole	analyses	Recomendations
Very satisfied	1	1	1
Satisfied	2	2	1
Neither	0	0	0
Unsatisfied	0	0	1
n.a.	0	0	0
total	3	3	3

Table 15 Quality of reports

Source: Prepared by the Study Team

(3) Utilization of Study Results and Reports

Most Development Studies received good reviews on the utilization of study results and reports. Namely, 3 out of the 8 respondents answered "well utilized," and 6 out of the 8 respondents answered "well utilized" or "generally utilized." Only 1 respondent, which was a consultant, answered "not well utilized."

	counterparts	consultants	total
Very satisfied	1	2	3
Satisfied	2	1	3
Neither	0	1	1
Unsatisfied	0	0	0
n.a.	0	1	1
total	3	5	8

Table 16 Utilization of study results and reports (sometime in the past)

Source: Prepared by the Study Team

The questionnaire also asked whether the study results and reports are still being utilized. All the 5 respondents, excluding from no answers from 2 respondents, answered 'well utilized, or 'generally utilized', showing high evaluation. Some respondents have attempted to promote the utilization of the results and reports by implementing follow-up activities.

Table 17	Utilization of stud	y results and re	ports (at the	present time)
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	counterparts	consultants	total
Still well utilized	1	1	2
Still generally utilized	1	2	3
Not well utilized now	0	0	0
Not utilized anymore	0	0	0
n.a.	1	2	3
total	3	5	8

Source: Prepared by the Study Team

(4) Relevance of Development Studies and Institutional Arrangements for Their Implementation

In order to evaluate the relevance of Development Studies and the appropriateness of their implementation processes, the questionnaire asked questions on the consistency of Development Studies

with the national development strategies and the appropriateness of institutional arrangements for implementation (including the activities of Joint Coordination Committees and the capacity of counterpart organizations).

According to the results of the questionnaire, almost all of the Development Studies did not have any problem in terms of relevance as shown in almost all the respondents (7 out of the 8 respondents) answered "certainly appropriate." One respondent, which was a consultant, answered "slightly appropriate."

	counterparts	consultants	total
Certainly appropriate	3	4	7
Generally appropriate	0	0	0
Slightly appropriate	0	1	1
Not appropriate at all	0	0	0
n.a.	0	0	0
total	3	5	8

Table 18 Relevance of Development Studies

Source: Prepared by the Study Team

In the meantime, the appropriateness of institutional arrangements for implementation was in general highly evaluated, as shown in almost all the respondents (7 out of 8 respondents), with no problems to be noted. One respondent answered "slightly appropriate", which was by a consultant as in the 'relevance of the Development Study'.

	counterparts	consultants	total
Certainly appropriate	1	2	3
Generally appropriate	2	2	4
Slightly appropriate	0	1	1
Not appropriate at all	0	0	0
n.a.	0	0	0
total	3	5	8

Table 19 Appropriateness of institutional arrangements for implementation

Source: Prepared by the Study Team

(5) Effects of Technical Transfer and Capacity Development

The tables below show reviews on the effects of technical transfer and capacity development of counterparts through Development Studies

Most Development Studies received good reviews on the effects of technical transfer, as shown in the result that all the 8 respondents answered "sufficiently transferred" or "generally transferred." The effects of capacity development were, in general, highly evaluated, but the achievement levels were assessed lower for capacity development than for technical transfer. Consultants tended to provide relatively lower ratings than counterparts for both technical transfer and capacity development. This is considered because counterparts highly appreciated the new knowledge and know how they learned through various workshops and seminars held as part of Development Studies as well as training in Japan whereas consultants realized that it was

difficult to transfer technologies applicable to actual occasions, while spreading the effects of capacity development from the individual to the organizational level.

	counterparts	consultants	total
Sufficiently transferred	2	1	3
Generally transferred	1	4	5
Not well transferred	0	0	0
Not transferred at all	0	0	0
n.a.	0	0	0
total	3	5	8

Table 20 Effects of technical transfer

Source: Prepared by the Study Team

	counterparts	consultants	total
Sufficiently transferred	1	0	1
Generally transferred	1	2	3
Not well transferred	0	2	2
Not transferred at all	0	0	0
n.a.	1	1	2
total	3	5	8

Table 21Effects of capacity development

Source: Prepared by the Study Team

3. Conclusion

This study confirmed that the development studies since FY2003 have produced continuous impacts to a certain degree with respect to the utilization of findings after the completion of development studies as well as regarding the adoption of proposed projects. In addition, slight increases in the percentages can be confirmed in recent years.

Fiscal Year	Utilization Rate of M/P	Utilization Rate of F/S		
	and Related Studies	and Related Studies		
2003	87.6%	59.6%		
2004	88.2%	59.2%		
2005	89.1%	61.0%		
2006	89.8%	61.6%		
2007	89.3%	62.2%		
2008	89.6%	62.8%		
2009	89.6%	62.9%		
2012	89.7%	63.5%		
2013	89.9%	63.6%		
2014	89.6%	63.8%		
2015	89.6%	63.9%		

Table 22. Realization/Utilization Rate of Development Studies by type of study

Especially in M/P studies, the increase of utilization of visible findings seems to contribute to the improvement of the rate of utilization of findings and promotion of adoption of proposed projects. As one example, the aggressive development of project activities, as evidenced by the efforts to disseminate the experience and knowledge obtained and accumulated in the original target regions where the experimental studies were conducted to other regions or nationwide, has proved to be very successful. In addition, the number of development studies has recently reduced and, as a result, the projects of higher priority are selected in both Japan and counterpart countries. This also influenced to the above contribution.

On the other hand, in order to maintain the definite results and improve them in the future, the followings need to be fully considered; 1) to commit to the studies which shows little progress with regard to the utilization of study findings and promotion of adoption of proposed projects, and 2) to improve the rate of utilization of study findings and promotion of adoption of new projects. Regarding the M/P study, careful examination is a must based on the current status of target projects. However, the review of the projects, which were not materialized and long left and the reexamination of the proposed projects, which are possible to be implemented, through the study for next stage correspondent to the current situation is one of the measures to improve the rate of utilization. As to F/S, it is necessary to select the ones which are less likely to be materialized though a certain period passed after the completion of the studies for analyzing the hindering factors for promotion of the proposed projects and examining the measures for its promotion. Also, it is valuable to discuss on the concrete measures such as complement studies necessary for the promotion of proposed projects for the possible studies.

Chapter 1

Outline of the Study

CHAPTER 1. Outline of the Study

1.1 Background and Purpose of the Ex-Post Situation Study

1.1.1 Background of the Ex-Post Situation Study

After the completion of the Technical Cooperation for Development Planning (former development studies, hereafter Development Studies), conducted by the Japan International Cooperation Agency (JICA), there were difficulties in monitoring the status of proposed projects and how the studies were utilized. The reasons for the difficulties are those; the considerable length of time is often required to realize proposed projects after the completion of studies, the various ways in which study findings are used, limitations of accessible information in recipient countries, and so forth.

In order to overcome the above-mentioned difficulties, follow-up studies on development studies were started in Japanese fiscal year (FY) 1984. On-site follow-up studies were started in FY 1987 to acquire a wide range of information from the project sites. Domestic follow-up studies, questionnaire surveys on domestic consultants in charge of projects, were also started in FY 1988. The scope of follow-up studies has been extended to the Agriculture, Forestry and Fisheries sector since FY 1989. In addition, studies of counterpart agencies (JICA Overseas Office Studies) have been conducted through the study teams of JICA overseas offices and cooperating Japanese volunteer coordinators offices since FY 1991. Studies by consultants of developed countries since FY 1994 and studies by local in-country consultants since FY 1995 (Overseas Follow-up Studies) have been conducted. Since there has been increased interests in evaluation of development studies recently, on-site studies had been conducted to evaluate the impact of development studies and compiled as "Evaluation Survey Report: Follow-up Studies" since FY 1998. Furthermore, as more detailed evaluation of studies have been conducted independently since FY 2001, this Ex-Post Situation Study on Development Study (hereafter the Status Study) has focused in understanding the current status of each project and analyses of overall tendencies.

The Social Development Department of JICA conducts the follow-up studies in the Social Development sector and Agriculture, Forestry and Fisheries Development sector, while the Economic Development Department of JICA conducts the studies in the Mining and Industrial Development sector up to the FY 2003. However, in order to strengthen correspondence to cross-sectoral development issues, JICA has achieved organizational reform in April 2004, by reorganizing existing 8 sector /scheme based Departments in charge of the Development Study, including above mentioned 3 departments, into 5 issue-based departments. With development study changing its department in charge of implementation, the Status Survey has been conducted by the Social Development Department is in charge of conducting the Status Survey for development studies in the field of Social Development and Agriculture, Forestry, and Fishery, administered by the Overseas Office, the Human Development

Department, the Global Environment Department, the Grant Aid Management Department, and the Rural Development Department. The Economic Development Department is in charge of conducting the Status Survey implemented by overseas development studies. In addition, according to the organizational change in April, 2011, Industrial Development Department and Public Policy Department were integrated into Industrial Development and Public Policy Department. There were mergers of the Economic Infrastructure Department into Infrastructure and Peacebuilding Department. Each issue administrated by each new department are below.

Infrastructure and Peacebuilding Department:

Information and Communication Technology (ICT), Transportation, Urban and Regional

Development, Peace Building, Gender, Poverty Reduction, JICA-Net Program, and others

Human Development Department .:

Education, Health, Social Security, and others

Global Environment Department .:

Nature Conservation, Environmental Management, Water Resource Management, Disaster Management, Climate Control, and others

Rural Development Department .:

Agricultural Development, Rural Development, Fisheries Cooperation, and others Industrial Development and Public Policy Department:

Economic Policy and Private Sector Development, Energy, Mining, Public Safety, Local Administration, Statistics, Law and Justice, Fiscal and Financial Sector Management, Japan Center Program, and others

1.1.2 Purpose of the Ex-Post Situation Study

The Ex-Post Situation Study has two purposes;

- (1) To monitor the present status of proposed projects and how the results of the completed development studies are utilized, and
- (2) To utilize these findings for more effective implementation of the project by systematically analyzing them.

1.2 Methodology of the Ex-Post Situation Study

1.2.1 Coverage

The Ex-Post Situation Study covers studies implemented by the technical cooperation project budget under the jurisdiction of the former Social Development Study Department and the former Agriculture, Forestry and Fisheries Development Study Department (currently called the Infrastructure and Peacebuilding Department, the Human Development Department, the Global Environment Department, and the Rural Development Department) the Industrial Development and Public Policy Department, the Grant Aid Management Department, overseas offices, and those implemented under the overseas development plan study budget, under the jurisdiction of the former Mining and Industrial Development Study Department (currently called the Industrial Development and Public Policy Department).

The status study FY 2016 covers studies completed between August 1, 1974 (the day on which JICA was established) to the end of FY 2014 (March 31, 2015). A total of 2,358 studies have conformed to these criteria (1,221 in Social Development area, 427 in Agriculture, Forestry and Fisheries Development area, and 710 in Mining and Industrial Development area).

Completion Year	Social Development	Agriculture, Forestry and Fisheries Development	Mining and Industrial Development	Total	Completion Year	Social Development	Agriculture, Forestry and Fisheries Development	Mining and Industrial Development	Total
1974	1	0	1	2	1995	44	17	28	89
1975	5	0	9	14	1996	46	14	25	85
1976	9	4	9	22	1997	35	26	32	93
1977	20	7	15	42	1998	47	15	22	84
1978	25	7	12	44	1999	58	10	29	97
1979	24	12	17	53	2000	45	13	21	79
1980	30	8	20	58	2001	53	12	17	82
1981	27	9	22	58	2002	47	18	16	81
1982	34	18	20	72	2003	35	7	17	59
1983	32	13	21	66	2004	32	4	6	42
1984	39	15	23	77	2005	39	10	11	60
1985	39	11	26	76	2006	28	9	13	50
1986	28	11	23	62	2007	32	4	10	46
1987	43	11	23	77	2008	37	6	17	60
1988	30	19	29	78	2009	12	6	11	29
1989	45	23	16	84	2010	10	0	10	20
1990	36	23	23	82	2011	0	0	11	11
1991	31	14	27	72	2012	0	0	1	1
1992	40	17	20	77	2013	0	0	2	2
1992	41	12	25	78	2014	0	0	2	2
1994	42	22	28	92	Total	1,221 (51.8%)	427 (18.1%)	710 (30.1%)	2,358 (100.0%)

Table1-1 Time Trend of Number of Development Studies

As for the results of previous follow-up studies, it is observed that some actions would be taken where the results deems viable within 5 to 10 years after the implementation of a development study. Therefore, since FY 1999, this status study had focused on development studies completed during the last 10 years in order to understand the status of studies. From these follow-up studies, it is identified that the actions must be taken within 5 years after the completion of the studies.

In FY2016, questionnaires surveys were conducted for all the development studies completed in FY2005, FY2010, FY2012 and FY2014 under the jurisdiction of the Mining and Industrial development area, and the studies completed in FY2010 under the jurisdiction of the Social Development area, the Agriculture, Forestry and Fisheries area, to counterparts through JICA overseas offices as well as to domestic consultants in charge of the project.

1.2.2 Year of Completion

Completion year of a study is determined as the fiscal year when final report was submitted to JICA.

1.2.3 Classification of Country and Region

The classification of country and region in development studies are defined by JICA. Studies that cover several countries or regions are classified as "multiple countries."

- ASEAN (Brunei, Cambodia, Indonesia, Lao's PDR, Malaysia, Myanmar, Philippines, Singapore, Thailand, and Viet Nam)
- (2) East Asia (China, South Korea, and Mongolia)
- (3) South West Asia (Bangladesh, Bhutan, India, Maldives, Nepal, Pakistan, and Sri Lanka)
- (4) Central Asia (Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyz, Tajikistan, Turkmenistan, and Uzbekistan¹)
- (5) Other Asia (East Timor)
- (6) Middle East (Including Northern Africa: Algeria, Egypt, Libya, Morocco, Sudan, and Tunisia)
- (7) Africa (Excluding Northern Africa)
- (8) Central and South America
- (9) Oceania (countries classified as "Pacific" for Mining and Industry sector)
- (10) Europe
- (11) Multiple Countries (Studies covering more than one single country)

Comparatively, few number of studies were conducted in "East Asia", "South West Asia", "Central Asia", and "Other Asia" than "ASEAN" countries when excluding 117 projects on Modernization of Chinese Factories. Therefore, for the purpose of analyses, this study categorized Asian countries as described below.

(1) Asia	1) ASEAN	Brunei, Cambodia, Indonesia, Lao's PDR, Malaysia, Myanmar, Philippines, Singapore, Thailand, and Viet Nam
	2) Asian Others	Northeast Asia, South West Asia, Central Asia, and Other Asia
(2)Middle East		Including Northern Africa: Algeria, Egypt, Libya, Morocco, Sudan, and Tunisia
(3)Africa		Excluding Northern Africa
(4)Central and South America		
(5)Oceania		countries classified as "Pacific" for Mining and Industry sector
(6)Europe		
(7)Multiple Countries		Studies covering more than one single country

Table1-2 Classification of Countries and Regions

1.2.4 Classification of Development Study by Study Type

Development Studies are classified by study type as shown in Table 1-3.

¹ "Central Asia" had been regarded as a part of "Europe" until FY 2000

Table 1-3 Type of Development Study

Note: *Resource studies in the mining and industry sector are classified as basic studies. *"Others" are the studies of Social Development field and "Other M/P" and "Other F/S" are the studies of Mining Industry field.

Each type of Development Study is defined as follows:

1) <u>M/P (Master Plan Studies)</u>

A master plan study is carried out to determine a basic development strategy in general by formulating long-term plans for national, regional or sectoral development with specific target and target year. The formulation of a master plan is the first stage of a development study where the coordination of many projects is essential for efficient implementation. The following feasibility studies are sometimes implemented on a project prioritized by a master plan.

2) <u>M/P + F/S (Master Plan Studies + Feasibility Studies)</u>

The studies that the both master plan study and the feasibility study described below are implemented together in a study.

3) F/S (Feasibility Studies)

A feasibility study is a study that is undertaken to examine the feasibility, appropriateness, investment effects, etc. of a particular development project. In general, it is used to determine systematically and objectively that whether the proposed project is socially, technically, economically and financially feasible or not, while incorporating other important considerations such as operation and maintenance, organizations and institutional arrangements, and environments. A feasibility study report serves as an important reference for concerned government agencies and officials in policy decision makings as to whether or not the country should proceed to implement the given proposed project(s). It also provides necessary documents for screenings of the bilateral aid agencies and international agencies appropriateness of giving loans to a proposed project.

4) D/D (Detailed Design Studies)

A detailed design study is for preparing design documents (including drawings, specifications, and tender documents) necessary to begin construction works of an approved project. In comparison to M/P studies or F/S, considerable time is generally required for the study during this phase, since all detailed investigations related to design of the project must be covered such as detailed design, cost estimation and construction schedules.

This type of study is followed by the selection of the contractor(s) through competitive biddings to inaugurate actual construction. Detailed design study is indispensable to implement the project properly and it plays a significant role in providing smooth access to financial assistance as well.

5) <u>Basic Studies (Long-term Studies, Topographical Studies, Groundwater Development Studies,</u> Forestry and Fishery Resources Studies, Agricultural Verification Studies, etc.)

a) Long-term Studies

Formulation of basin-wide flood control and water use plans, comprehensive water resources development plans, and examination of alternative measures for environmental protection such as countermeasures against air and water pollution often require long-term and continuous accumulation of relevant basic data. However, it is rare in developing countries to continuously collect such data, and the lack of the data may become a major impeding factor against the implementation of development plans.

In this type of study, experts are sent to stay for an extended period in the recipient country, where they collect, record, compile and analyze relevant basic data through long-term observation.

b) Topographical Studies

The presence of basic maps of national land and cities is often a necessary precondition for planning and implementing development projects. In many regions of developing countries, however, topographical drawings of national territories and cities do not exist, or even though they exist, they are from the colonial era and too old, or inappropriate for a practical use due to the lack of standardized methods of drawing and filling in the information presented. This situation leads to difficulties in formulating and implementing development projects as well as in coping with urbanization problems that are becoming increasingly serious. The Topographical Studies respond to the need for basic maps and to be utilized for making and preparing topographical map as basic data and information for development.

c) Groundwater Development Studies

These studies investigate to secure groundwater resources and their development, aiming to secure the drinking water supply to the general population in developing countries. It is an urgent task to secure drinking water in such places as dry lands where severe droughts hit frequently or regions where the quality of water is not suitable for drinking. Also, some regions face such problems of drinking water becoming unsuitable for drinking or dried up due to over-consumption.

Thus, groundwater development is urgently needed in order to improve the lives of the residents in those regions.

d) Forestry and Fishery Resources Studies

These studies aim to collect basic data on the distribution of forestry and fishery resources, and contribute to makings various policies related with comprehensive protection of the forest and stable supply of the animal proteins.

e) Pilot Studies

Aiming at the smooth realization of projects after the study, the pilot study has been promoted in the development study. Since FY 2000, this is empirically promoted on trial bases with voluntary participation of local officials and local people.

f) Resource Studies

This is a type of pre-feasibility study usually conducted to assess mineral and other natural resources deposits in the expected project areas to review the possibility of development.

6) Studies on Plant Renovation in ASEAN Countries

A series of studies concerning plant renovation has been initiated as a result of the Prime Minister Nakasone's announcement of international cooperation during his tour of ASEAN countries in May 1983.

7) Studies on the Factories Modernization Program in China

These studies have been conducted since May 1981 with the aim at researching modernization procedures in existing Chinese factories. The studies resulted from a proposal made by the Chinese National Economic Commission (currently the Chinese National Economic and Trade Commission) to the Ministry of International Trade and Industry (currently the Ministry of Economy, Trade and Industry) during the "Japan-China High Level Administrative Meeting".

8) Other Studies

The studies that are the recipient countries requested for reviewing due to changes of its social or natural conditions along with time courses after study completion. Or, the studies that are aiming at original utilization such as; basic data collection and development for national land development and formulation of development policy, policies for preparing guideline manuals, consideration and recommendation of software side, and promotion of project realization.

9) Other Studies (M/P-type)

In the study area of mining and industrial developments, several studies are not included in the categories above. These studies are divided into two types depends on the nature and contents of each study. One of them which are M/P-type is called "Other studies (M/P-type).

10) Other Studies (F/S-type)

As the same to "Other studies (M/P-type), this type of study is defined as the studies that are not included in the categories 1) to 8) above. Regarding the nature and contents of the studies, several studies which are F/S-type are called "Other studies (F/S-type).

1.2.5 Framework for the Analyses

The categorization of follow-up studies for 1) the Social Development area, 2) Agriculture, Forestry and Fisheries Development area, and 3) Mining and Industrial Development area are not completely the same due to the differences in characteristics of studies. Thus, in order to conduct an overall analysis in Chapter 2, types of development study are classified as shown in Table1-4. Detailed analyses in Chapter 3 are conducted based on respective study categories.

M/P Studies	Social Development, Agriculture, Forestry and Fisheries Development	M/P, Basic Studies, Others		
Group	Mining and Industrial Development	M/P, Studies on Factories Modernization Program in China, Resources Studies, Other M/P-type studies		
F/S	Social Development, Agriculture, Forestry and Fisheries Development	M/P+F/S, F/S, D/D		
Group	Mining and Industrial Development	F/S, ASEAN Plant Renovation Studies, Other F/S-type studies		

Table 1-4 Category of Development Studies

1.2.6 Classification of Sectors

Social Development Secotor includes projects conducted by the Infrastructure and Peacebuilding Department, the Human Development Department, the Global Environment Department, and the Grant Aid Management Department. Agriculture, Forestry and Fisheries Development Sector includes projects conducted by Rural Development Department. Mining and Industrial Sector includes projects conducted by Industrial Development and Public Policy Dpartment. To tell more details, completed studies are classified into sectors, sub-sectors, and sub-sub-sectors according to the JICA System Code Table (October 2000), as shown in Table 1-5 on the following page.

Sector	Subsector	Sub-subsector
I. Planning & Administration	(1) Development Plan	1) (Development Plan in) General
		2) Integrated Regional Development Pla
	(2) Administration	1) (Administration in) General 2) Public Finance & Banking
		3) Environmental Problems
		4) Statistics
		5) Information & Public Relations
2. Public Works & Utilities	(1) Public Utilities	1) (Public Utilities in) General
		2) Water Supply
		3) Sewerage
		4) Urban Sanitation
	(2) Transportation	1) (Transportation in) 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) (Social Infrastructure in) General
		2) River & Erosion Control
		3) Water Resources Development
		4) Urban Planning & Land Development
		5) Architecture & Housing
		6) Survey & Mapping
	(4) Communications & Broadcasting	1) (Comms. & Broad. in) General
		2) Post
		3) Telecommunication
		4) Broadcasting
. Agriculture, Forestry & Fishery	(1) Agriculture	1) (Agriculture in) General
		2) Sericulture
		3) Agricultural Engineering
		4) Agricultural Machinery
		5) Agricultural Processing
		6) Increase of Food Production
	(2) Livestock	1) Livestock 2) Animal Hygiene
		3) Livestock Processing
	(3) Forestry	1) Forestry & Forest Conservation
	(0) 1 0100119	2) Forestry Processing
	(4) Fishery	1) Fishery
	() · · · · · · · · · · · · ·	2) Fishery Processing
. Mining & Industry	(1) Mining	1) Mining
	(2) Industry	1) (Industry in) General
		2) Chemicals
		2) Steel & Newformeuro Motele
		 Steel & Nonferrous Metals
		4) Machine Industry
		4) Machine Industry 5) Textile Industry
		4) Machine Industry 5) Textile Industry 6) Pulpwood Products
		 4) Machine Industry 5) Textile Industry 6) Pulpwood Products 7) Food Industry
		 4) Machine Industry 5) Textile Industry 6) Pulpwood Products 7) Food Industry 8) Other Industries
. Energy	(1) Energy	4) Machine Industry 5) Textile Industry 6) Pulpwood Products 7) Food Industry 8) Other Industries 1) (Energy in) General
. Energy	(1) Energy	4) Machine Industry 5) Textile Industry 6) Pulpwood Products 7) Food Industry 8) Other Industries 1) (Energy in) General 2) Electric Power
. Energy	(1) Energy	4) Machine Industry 5) Textile Industry 6) Pulpwood Products 7) Food Industry 8) Other Industries 1) (Energy in) General 2) Electric Power 3) Gas & Oil
. Energy	(1) Energy	4) Machine Industry 5) Textile Industry 6) Pulpwood Products 7) Food Industry 8) Other Industries 1) (Energy in) General 2) Electric Power 3) Gas & Oil 4) New & Recycled Energy
		4) Machine Industry 5) Textile Industry 6) Pulpwood Products 7) Food Industry 8) Other Industries 1) (Energy in) General 2) Electric Power 3) Gas & Oil 4) New & Recycled Energy 5) Other Energies
	(1) Energy (1) Commerce & Trade	4) Machine Industry 5) Textile Industry 6) Pulpwood Products 7) Food Industry 8) Other Industries 1) (Energy in) General 2) Electric Power 3) Gas & Oil 4) New & Recycled Energy 5) Other Energies 1) Business Management
	(1) Commerce & Trade	4) Machine Industry 5) Textile Industry 6) Pulpwood Products 7) Food Industry 8) Other Industries 1) (Energy in) General 2) Electric Power 3) Gas & Oil 4) New & Recycled Energy 5) Other Energies 1) Business Management 2) Trade
		4) Machine Industry 5) Textile Industry 6) Pulpwood Products 7) Food Industry 8) Other Industries 1) (Energy in) General 2) Electric Power 3) Gas & Oil 4) New & Recycled Energy 5) Other Energies 1) Business Management 2) Trade 1) (Tourism in) General
. Commerce & Tourism	(1) Commerce & Trade	4) Machine Industry 5) Textile Industry 6) Pulpwood Products 7) Food Industry 8) Other Industries 1) (Energy in) General 2) Electric Power 3) Gas & Oil 4) New & Recycled Energy 5) Other Energies 1) Business Management 2) Trade
. Commerce & Tourism	(1) Commerce & Trade (2) Tourism	4) Machine Industry 5) Textile Industry 6) Pulpwood Products 7) Food Industry 8) Other Industries 1) (Energy in) General 2) Electric Power 3) Gas & Oil 4) New & Recycled Energy 5) Other Energies 1) Business Management 2) Trade 1) (Tourism in) General 2) Tourism Infrastructure
. Commerce & Tourism	(1) Commerce & Trade (2) Tourism	4) Machine Industry 5) Textile Industry 6) Pulpwood Products 7) Food Industry 8) Other Industries 1) (Energy in) General 2) Electric Power 3) Gas & Oil 4) New & Recycled Energy 5) Other Energies 1) Business Management 2) Trade 1) (Tourism in) General 2) Tourism Infrastructure 1) (Human Resources in) General
. Commerce & Tourism	(1) Commerce & Trade (2) Tourism	 4) Machine Industry 5) Textile Industry 6) Pulpwood Products 7) Food Industry 8) Other Industries 1) (Energy in) General 2) Electric Power 3) Gas & Oil 4) New & Recycled Energy 5) Other Energies 1) Business Management 2) Trade 1) (Tourism in) General 2) Tourism Infrastructure 1) (Human Resources in) General 2) Physical Education
. Commerce & Tourism	(1) Commerce & Trade (2) Tourism	 4) Machine Industry 5) Textile Industry 6) Pulpwood Products 7) Food Industry 8) Other Industries 1) (Energy in) General 2) Electric Power 3) Gas & Oil 4) New & Recycled Energy 5) Other Energies 1) Business Management 2) Trade 1) (Tourism in) General 2) Tourism Infrastructure 1) (Human Resources in) General 2) Physical Education 3) Education
. Commerce & Tourism . Human Resources Development	 (1) Commerce & Trade (2) Tourism (1) Human Resources Development (2) Science & Culture 	 4) Machine Industry 5) Textile Industry 6) Pulpwood Products 7) Food Industry 8) Other Industries 1) (Energy in) General 2) Electric Power 3) Gas & Oil 4) New & Recycled Energy 5) Other Energies 1) Business Management 2) Trade 1) (Tourism in) General 2) Tourism Infrastructure 1) (Human Resources in) General 2) Physical Education 3) Education 4) Vocational Training 1) Science 2) Culture
. Commerce & Tourism . Human Resources Development	 (1) Commerce & Trade (2) Tourism (1) Human Resources Development 	 4) Machine Industry 5) Textile Industry 6) Pulpwood Products 7) Food Industry 8) Other Industries 1) (Energy in) General 2) Electric Power 3) Gas & Oil 4) New & Recycled Energy 5) Other Energies 1) Business Management 2) Trade 1) (Tourism in) General 2) Tourism Infrastructure 1) (Human Resources in) General 2) Physical Education 3) Education 4) Vocational Training 1) Science 2) Culture 1) Public Health and Medicine
. Commerce & Tourism . Human Resources Development . Public Health and Medicine	 (1) Commerce & Trade (2) Tourism (1) Human Resources Development (2) Science & Culture (1) Public Health and Medicine 	4) Machine Industry 5) Textile Industry 6) Pulpwood Products 7) Food Industry 8) Other Industries 1) (Energy in) General 2) Electric Power 3) Gas & Oil 4) New & Recycled Energy 5) Other Energies 1) Business Management 2) Trade 1) (Tourism in) General 2) Tourism Infrastructure 1) (Human Resources in) General 2) Physical Education 3) Education 4) Vocational Training 1) Science 2) Culture 1) Public Health and Medicine 2) Population & Family Planning
Commerce & Tourism Human Resources Development Public Health and Medicine	 (1) Commerce & Trade (2) Tourism (1) Human Resources Development (2) Science & Culture 	 4) Machine Industry 5) Textile Industry 6) Pulpwood Products 7) Food Industry 8) Other Industries 1) (Energy in) General 2) Electric Power 3) Gas & Oil 4) New & Recycled Energy 5) Other Energies 1) Business Management 2) Trade 1) (Tourism in) General 2) Trade 1) (Tourism Infrastructure 1) (Human Resources in) General 2) Physical Education 3) Education 4) Vocational Training 1) Science 2) Culture 1) Public Health and Medicine 2) Population & Family Planning 1) Social Welfare
Commerce & Tourism Human Resources Development Public Health and Medicine	 (1) Commerce & Trade (2) Tourism (1) Human Resources Development (2) Science & Culture (1) Public Health and Medicine 	 4) Machine Industry 5) Textile Industry 6) Pulpwood Products 7) Food Industry 8) Other Industries 1) (Energy in) General 2) Electric Power 3) Gas & Oil 4) New & Recycled Energy 5) Other Energies 1) Business Management 2) Trade 1) (Tourism in) General 2) Tourism Infrastructure 1) (Human Resources in) General 2) Physical Education 3) Education 4) Vocational Training 1) Science 2) Culture 1) Public Health and Medicine 2) Population & Family Planning 1) Social Welfare 2) Labor
5. Energy 5. Commerce & Tourism 7. Human Resources Development 8. Public Health and Medicine 9. Social Welfare	 (1) Commerce & Trade (2) Tourism (1) Human Resources Development (2) Science & Culture (1) Public Health and Medicine 	 4) Machine Industry 5) Textile Industry 6) Pulpwood Products 7) Food Industry 8) Other Industries 1) (Energy in) General 2) Electric Power 3) Gas & Oil 4) New & Recycled Energy 5) Other Energies 1) Business Management 2) Trade 1) (Tourism in) General 2) Tourism Infrastructure 1) (Human Resources in) General 2) Physical Education 3) Education 4) Vocational Training 1) Science 2) Culture 1) Public Health and Medicine 2) Labor 3) Disaster Relief
5. Commerce & Tourism 7. Human Resources Development 8. Public Health and Medicine	 (1) Commerce & Trade (2) Tourism (1) Human Resources Development (2) Science & Culture (1) Public Health and Medicine 	 4) Machine Industry 5) Textile Industry 6) Pulpwood Products 7) Food Industry 8) Other Industries 1) (Energy in) General 2) Electric Power 3) Gas & Oil 4) New & Recycled Energy 5) Other Energies 1) Business Management 2) Trade 1) (Tourism in) General 2) Tourism Infrastructure 1) (Human Resources in) General 2) Physical Education 3) Education 4) Vocational Training 1) Science 2) Culture 1) Public Health and Medicine 2) Population & Family Planning 1) Social Welfare 2) Labor

Table 1-5 Sector of Studies

1.3 Criteria to Classify Utilization Status of Development Study

Studies are classified into two groups, each according to its own clearly defined evaluation criteria in order to ascertain the progress of projects and utilization of study findings accurately.

1.3.1 M/P Studies Group

Master Plan Studies (M/P), Basic Studies (B/S), Studies on Factory Modernization Program in China, Other Studies, and Other Studies (M/P-type) are classified as being in the M/P studies group. Information is sought on whether or not study findings have been adopted or utilized. The present status is classified as being in one of three categories: 1) In Progress or In Use, 2) Delayed, and 3) Discontinued or Cancelled.

The criteria in determining the present status of studies in the M/P studies group are shown in Table 1-6.

Present Status	Criteria
a. In Progress or In Use	A Study is classified in this category when its findings or proposals are sufficiently utilized in the following manner.
	 Based on the proposals, subsequent 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.
	5) The government of the recipient country is on the considerations of recommendations just after the completion of the research.
b. Delayed	A study is classified as "delayed" when its findings or proposals are in one of the following conditions.
	 No significant action has been taken by the government of the recipient country to utilize the proposals or findings.
	 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	A study is classified in this category when its findings or proposals meet one of the following
or Cancelled	conditions.
	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 a considerable period of time."

Table 1-6Status for M/P Studies Group

⁴ As there is no category in the social and agricultural sector that corresponds to the classification "unknown" in the mining and industry sector, the sector covering social, agricultural, mining and industry categorizes these as "discontinued or cancelled."

1.3.2 F/S Group

The F/S group consists of Feasibility Studies (F/S), Master Plan + Feasibility Studies (M/P + F/S), Detailed Design Studies (D/D) and Other Studies (F/S-type). Information is sought on whether or not the projects or programs they appraised or proposed have been implemented. The present status is classified as being in one of the four following categories: a) Completed or in Progress, b) Under Promotion, c) Delayed, and d) Discontinued or Cancelled. The "Completed or in Progress" category is further divided into four sub-categories: a1) Completed, a2) Partially Implemented, a3) Under Implementation, and a4) In Process.

The criteria for classification of the F/S group are shown in Table 1-7.

Present Status	Criteria
a. Completed or In Progress	
a1. Completed	The proposed development project has been already completed and is in use.
a2. Partially Implemented	The proposed development project is partially implemented and is in use.
a3.Under Implementation	The implementation of the project is underway.
a4. In Process	The project concerned is at one of the following stages.
	1) Tenders have been invited.
	2) Financing of the project has been secured.
	 Following the completion of the JICA feasibility study, the detailed design study or some other specific step is being undertaken with bilateral or multilateral financial assistance, including Japan.
	4) For other reasons the project concerned is considered highly likely to be implemented in the future.
b.Under Promotion	The project concerned is at one of the following stages.
	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	The project concerned is at one of the following stages.
	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	The project concerned is at one of the following stages.
or Cancelled	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 a considerable period of time."
* Here the term "secure	d" is used to mean that either a loan agreement is signed, or a government commitmen

Table 1-7 Status for F/S Group

Here the term "secured" is used to mean that either a loan agreement is signed, or a government commitment is confirmed in the form of an official pledge or exchange of notes that has been executed.

1.4 Collection of Related Information

Related basic information is collected from the documents and the reports from JICA headquarters and Institute for International Cooperation.

JICA Overseas Office Survey collects related information through JICA overseas offices by means of replies to questionnaires distributed to counterparts in recipient countries.

By the Domestic Questionnaire Survey, related information is collected by means of replies to questionnaires distributed to the consulting firms in charge of development studies.

Refer to the attached data for the part of the questionnaire form used in both overseas and domestic survey.

1.5 Consolidation of Study Findings

The study findings are published in the reports,"Ex-Post Situation Study", in Japanese and in English, and in "Individual Summary Sheet".

Each report is compiled based on information from JICA Overseas Office Studies, Domestic Questionnaire Surveys. In this report, information is analyzed based on type of studies, sectors, regions and countries in order to understand the current utilization of completed development studies. In addition, the report provides a grasp of issues including whether or not M/P studies were used in subsequent feasibility studies, as well as for the technical cooperation and national plans.

Chapter 2

An Overview of Completed Technical Cooperation for Development Planning

(Social Development & Agriculture, Forestry and Fishery Development Area: Studies Completed in FY2010)

CHAPTER 2. An Overview of Completed Technical Cooperation for Development Planning

(Social Development & Agriculture, Forestry and Fishery Development area: studies completed in FY2010)

This Status Study covers 2,358 development studies completed from FY 1974 to FY2014, in the Social Development, the Agriculture, Forestry and Fishery Development, and the Mining and Industrial Development areas (refer to the table 1-1 in Chapter 1).

This chapter will focus on the development studies in the Social Development area and the Agriculture, Forestry and Fishery Development areas. Out of these 1,648 studies, the present status of 10 studies which were completed in FY2010 are analyzed. The analysis is based on the criteria introduced in Chapter 1.

2.1 Status of Completed Studies in the M/P Studies Group

Regarding the M/P studies group, 7 studies were completed in FY2010, and the utilization rate which are classified as "In Progress or In Use" is 100.0%.

This shows that the findings of the development study have been utilized effectively.

Completion Year	In Progress or In Use	Delayed or Suspended	Discontinued or Cancelled	Total
2010	7	0	0	7
2010	(100.0%)	(0.0%)	(0.0%)	(100.0%)
Total	7	0	0	7
Total	(100.0%)	(0.0%)	(0.0%)	(100.0%)

Table 2-1 Present Status of the M/P Studies Group by Study Completion Year

2.1.1 Status of Studies by Region

The utilization rate here is analyzed by region, except for the Central and South America, the Oceanic and the European region where development studies have not been conducted.

In Asia, where the largest number of studies has been conducted, 3 studies are classified as "In Progress or In Use" with the utilization rate of 100.0%.

In Africa and in the Middle East, 2 studies had been conducted respectively. All the studies show utilization rate of 100.0%, thus, it could be concluded that the development studies have been utilized effectively regardless of regions.

Present Status		Asia	Middle East			
Present Status	ASEAN Other Asia		Sub-total	Middle East	Africa	
In Progress or In Use	3 (100.0%)	0 (-)	3 (100.0%)	2 (100.0%)	2 (100.0%)	
Delayed	0 (0.0%)	0 (-)	0 (0.0%)	0 (0.0%)	0 (0.0%	
Discontinued or Cancelled	0 (0.0%)	0 (-)	0 (0.0%)	0 (0.0%)	0 (0.0%)	
Total	3 (100.0%)	0 (-)	3 (100.0%)	2 (100.0%)	2 (100.0%	
Present Status	Central & South America	Oceania	Europe	Multiple Countries	Total	
In Progress or In Use	0 (-)	0 (-)	0 (-)	0 (-)	7 (100.0%	
Delayed	0 (-)	0 (-)	0 (-)	0 (-)	0 (0.0%)	
Discontinued or Cancelled	0 (-)	0 (-)	0 (-)	0 (-)	0 (0.0%	
Discontinued of Cancelled						

Table 2-2 Utilization Status of the M/P Studies Group by Region

2.1.2 Status of the Completed M/P Studies Group by Study Type

Analyzing utilization rates by study type, we see that 5 studies are categorized as M/P and 2 studies are categorized as Basic Study. All the studies are classified as "In Progress or In Use", which means that utilization rates are 100% for these studies.

It can be concluded that the outputs of all M/P types of studies have been utilized effectively.

Present Status	M/P	Basic Study	Others	Total	
In Progress or In Use	5 (100.0%)	2 (100.0%)	0 (-)	7 (100.0%)	
Delayed	0 (0.0%)	0 (0.0%)	0 (-)	0 (0.0%)	
Discontinued or Cancelled	0 (0.0%)	0 (0.0%)	0 (-)	0 (0.0%)	
Total	5 (100.0%)	2 (100.0%)	0 (-)	7 (100.0%)	

Table 2-3 Present Status of the M/P Studies Group by Type of Study

BOX①: An example of utilization of the study on creating map

The Study on Formulation of Geographic Database of Nouakchott in the Islamic Republic of Mauritania

The rapid population growth in Nouakchott, the capital of Mauritania has caused a variety of urban problems such as spread of informal settlements, increased risks against disasters, and poor basic public facilities and services. In the face of these problems, formulation of a new urban development plan was expected although some urban development activities were going on to activate economic activities. However, updated geographic data was not available for formulating a new plan. It was in this context that the study was carried out in three phases from April 2007 to May 2010 in response to the request of the Government of the Islamic Republic of Mauritania.

Objective of the study was as follows;

(1) To take color aerial photographs of Nouakchott and its vicinities with a scale of 1 to 20,000

and to make a digital topographic map with a scale of 1 to 10,000.

- (2) To create GIS model systems for city planning and management based on the digital topographic map.
- (3) To transfer the necessary technology for digital mapping, data updating, and data use to technical staffs of DCIG and other relevant agencies.

About four years after the study, it was confirmed that at the counterpart organization, digital topographic map had not been updated and effectively utilized due to insufficient knowledge and know-how of relevant institutions. Therefore, in order to transfer technology for utilization of the study results, JICA dispatched experts under the program, "Expert for the digital database of Nouakchott" from December 2014 to July 2015. The program aimed that the staff of DCIG would be able to fully utilize the digital topographic map and GIS model systems established in the development study. Under the program, field training such on a GPS survey and a leveling survey, a laboratory exercise for GIS data utilization was conducted.

Based on the study results, JICA officially announced initiation of "Nouakchott City Urban Master Plan Development Project" on September 2016. The project aims to strengthen capacities of relevant institutions, forming common understanding with a wide range of relevant institutions. The project particularly aims to strengthen capacities of formulating and implementing urban development plans such as MHUAT and CUN in the course of preparing a master plan, which is expected to become a basis of a policy on urban development (SDAU: Schéma Directeur d'Aménagement Urbain), and urban plan of local authorities (PLU: Plan Local d'Urbanisme) on a pilot project basis.

2.1.3 Status of the Completed M/P Studies Group by Area and Sector

All 7 development studies are categorized as the Social Development area. The utilization rate for the Social Development area is 100.0% for all 7 studies. There is no studies categorized as the Agriculture Forestry and Fishery.

Present Status	Social Development						
Present Status	M/P	Basic Study	Others	Sub-total			
In Progress or In Use	5 (100.0%)	2 (100.0%)	0 (-)	7 (100.0%)			
Delayed	0 (0.0%)	0 (0.0%)	0 (-)	0 (0.0%)			
Discontinued or Cancelled	0 (0.0%)	0 (0.0%)	0 (-)	0 (0.0%)			
Total	5 (100.0%)	2 (100.0%)	0 (-)	7 (100.0%)			
Present Status	Agriculture Forestry & Fishery						
Present Status	M/P	Basic Study	Others	Sub-total			
In Progress or In Use	0 (-)	0 (-)	0 (-)	0 (-)			
Delayed	0 (-)	0 (-)	0 (-)	0 (-)			
Discontinued or Cancelled	0 (-)	0 (-)	0 (-)	0 (-)			
Total	0 (-)	0 (-)	0 (-)	0 (-)			

Table 2-4 Utilization Status of the M/P Studies Group by Area

2.1.4 Status of Studies "In Progress or In Use"

2.1.4.1 Details of Studies "In Progress or In Use"

As mentioned above (Table 2-3), 7 out of 7 studies in the M/P studies group are classified as "In Progress or In Use." Table 2-5 shows the details of these studies.

Regarding the contents of 7 studies classified as "In Progress or In Use" (multiple answer), the recommendations of 5 studies have turned into subsequent studies (71.4% of the total).

4 studies (57.1%) have resulted Japanese Technical Cooperation and also recommended projects from 4 studies (57.1%) of the total) have been funded and implemented. In addition, according to the responses to the questionnaires, some studies have turned into subsequent studies based on recommendations and skills transferred to the counterpart officers while the other studies has been funded and turned into Japanese Technical Cooperation. 2 studies are categorized into "National Development Policies/Plans". These are urban-level Development Plans.

Details	M/P	Basic Studies	Others	Total

I

Table 2-5 Details of "In Progress or In Use" Studies in the M/P Group

Subsequent Studies	5 (100.0%)	0 (0.0%)	0 (-)	5 (71.4%)
Fund Procurement	3 (60.0%)	1 (50.0%)	0 (-)	4 (57.1%)
Japan's Technical Cooperation	3 (60.0%)	1 (50.0%)	0 (-)	4 (57.1%)
National Development Policy/Plans	2 (40.0%)	0 (0.0%)	0 (-)	2 (28.6%)
Others	0 (0.0%)	0 (0.0%)	0 (-)	0 (0.0%)
Number of Studies	5 (100.0%)	2 (100.0%)	0 (-)	7 (100.0%)

*Multiple categories may apply to some items.

2.1.4.2 Implementation of Subsequent Studies

Out of 7 "In Progress or In Use" studies, 5 studies have been followed by subsequent studies after their completion. By type of the Development Study, 5 M/P studies have entailed 5 subsequent studies (100.0%) whereas 2 Basic Studies have not subsequent studies. (Table 2-5 shows the details)

Table 2-6 shows elapsed time in conducting subsequent study. The table shows that the implementation year of 5 subsequent studies are unknown.

Elapsed Years	Ν	M/P	Basic S	Studies	0	thers]	Fotal
Less than 1 Year	0	(0.0%)	0	(-)	0	(-)	0	(0.0%)
1 Year	0	(0.0%)	0	(-)	0	(-)	0	(0.0%)
2 Years	0	(0.0%)	0	(-)	0	(-)	0	(0.0%)
3 Years	0	(0.0%)	0	(-)	0	(-)	0	(0.0%)
4 Years	0	(0.0%)	0	(-)	0	(-)	0	(0.0%)
5 Years	0	(0.0%)	0	(-)	0	(-)	0	(0.0%)
6 Years	0	(0.0%)	0	(-)	0	(-)	0	(0.0%)
Unknown	5	(100.0%)	0	(-)	0	(-)	5	(100.0%)
Total	5	(100.0%)	0	(-)	0	(-)	5	(100.0%)

Table 2-6 Time Elapsed in Conducting Subsequent Study

BOX② : Example of the feasibility study (subsequent study)

The Study on Formulation of Spatial Planning for GERBANGKERTOSUSILA (GKS) Zone in East Java Province, the Republic of Indonesia

The Study has formulated long-term visions (on a two-decade time horizon) with which the GKS national strategic zone should pursue a sustainable social and economic development and has identified priority short-term projects and programs for implementation within a five-year framework in line with the strategies to achieve the visions.

Projects for GKS Zone for 2010-2030 by sectors are as follows:

- (1) Transportation Development (Road (40 projects), Port (3 projects), Airport (1 project), Railway (3 projects), Intermodal System (4 projects)),
- (2) Water-related Infrastructure Development (5 projects),
- (3) Wastewater Treatment and Urban Drainage Development (1 project),
- (4) Solid Waste Infrastructure Development (3 projects),
- (5) Power (2 projects).

The study indicates the following points:

- (1) Contribution to the domestic economy when gateway functions are strengthened through expansion of ports and airports of GKS Zone which is the second largest urban area in Indonesia; and
- (2) Contribution to national food security maintained through stabilized food production and appropriate water utilization in GKS Zone which has high agricultural potential.

Based on the study results, JICA carried out "Study on the Grade Separation Project in Surabaya City of the Republic of Indonesia, "a feasibility study financed by the Ministry of Economy, Trade and Industry, for the purpose of mitigating traffic congestion around Surabaya City.

2.1.4.3 Procurement of Funds

Details of fund procurement of 4 studies are shown in 2-7.

Funding Source	M/P	Basic Study	Others	Total
Japan's ODA Loan	0 (0.0%)	0 (0.0%)	0 (-)	0 (0.0%)
Japan's Grant Aid	0 (0.0%)	0 (0.0%)	0 (-)	0 (0.0%)
International Organizations	2 (66.7%)	1 (100.0%)	0 (-)	3 (75.0%)
Other Donor Countries	1 (33.3%)	1 (100.0%)	0 (-)	2 (50.0%)
Own Fund	0 (0.0%)	0 (0.0%)	0 (-)	0 (0.0%)
Private Fund	0 (0.0%)	0 (0.0%)	0 (-)	0 (0.0%)
Others	0 (0.0%)	0 (0.0%)	0 (-)	0 (0.0%)
Unknown	2 (66.7%)	0 (0.0%)	0 (-)	2 (50.0%)
Number of Studies that lead to raise fund(s) for the proposed project(s)	3 (60.0%)	1 (50.0%)	0 (-)	4 (57.1%)
Totall Number of Studies	5	2	0	7

Table 2-7 Details of Fund Procurement

*Total of each figures in funding source are not equal to the number of studies that lead to raise fund(s) because of multiple choices.

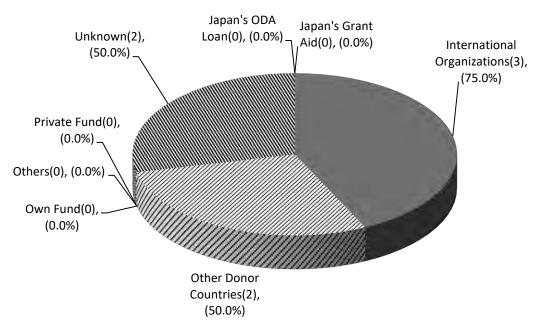


Figure 2-1 Details of Fund Procurement

Out of 7 "In Progress or In Use" studies including M/P studies, 4 were realized fund procurement (57.1%). The largest case was the "International Organizations" accounting for 3 cases (75.0%). In addition, "Other Donor Countries" (2 studies, 50.0%) account for definite percentage. There is no Japan's financial cooperation realized. There are 2 studies which are categorized as "Unknown".

Table 2-8 shows the elapsed years between the completion of development studies and the realized fund procurement¹ for 4 studies. There is no study which have procured fund within 3 years after completion of the study. Except for 1 study which is categorized into "Unknown", 3 studies took more than 4 years to be funded.

Elapsed Years	Total
Less than 1 Year	0 (0.0%)
1 Year	0 (0.0%)
2 Years	0 (0.0%)
3 Years	0 (0.0%)
4 Years	1 (25.0%)
5 Years	1 (25.0%)
6 Years	1 (25.0%)
Unknown	1 (25.0%)
Total	4 (100.0%)

Table 2-8 Years Elapsed from Completion of Development Studies to Fund Procurement

BOX③: An example of the effective use of a project funded by JICA, AfDB, and World Bank
The Study on Urban Development Master Plan for Lilongwe in the Republic of Malawi
Objectives of this master plan study are as follows;
(1) To formulate the long-term (2030) land use plan of Lilongwe City,
(2) To formulate the sectoral plans on transport and urban facilities (i.e. water supply, sewerage and solid waste management),
(3) To formulate a capacity development plan for LCC to ensure implementation of the outputs of the Study,
(4) To formulate an implementation and management plan of urban development program.

- (4) To formulate an implementation and management plan of urban development program and project, and
- (5) To carry out technical transfer to Malawian counterparts through the Study.

Major proposed projects are as follows;

- (1) Public Administration Enhancement Program for Urban Management,
- (2) Urban Living Environment Improvement Program,
- (3) Economic Infrastructure Enhancement Program for Economic Growth,
- (4) Urban Environment Enhancement Program for Creation of Attractive Capital City.

¹ When funding was in the form of a Japanese ODA loans, the year of fund procurement is defined as the year in which an L/A was executed; in the case of a Grant Aid, it is defined as the year in which an E/N was executed; with other types of funding, it is the year in which the financial assistance was executed.

This master plan is utilized as described below with the support of JICA, AfDB, and World Bank funds.

"Project for Urban Plan and Development Management," a JICA Technical Cooperation Project, is ongoing to carry out activities including preparation of the Lilongwe City Development Master Plan, preparation of guidelines and standards for the implementation of the proposed projects in the master plan, and training for comprehensive urban planning and management, training for comprehensive traffic planning, and so on.

The feasibility study is planned under AfDB funds for improvement of urban traffic around the National Stadium and the Parliament House.

The project for improvement of urban utilities, aims to improve access to safe water for the people who are not accessible to water supply system.

The project components include as follows:

- a) Improvement of water supply system with financial support of AfDB;
- b) Construction of Kamuzu Dam 1;
- c) Construction of main water pipelines from Diamphwi Dam with financial support of World Bank and AfDB; and
- d) A project to improve water treatment.

The project is planned from the 4th quarter in FY 2016 to the end of FY 2017 in partnership with Lilongwe Water Board as a counterpart organization.

2.1.4.4 Factors to Progress /Use Studies

According to the questionnaire survey, the factors contributed to effective utilization of the studies are; 1)consistency with national plans, 2)benefit of the project, 3)compatibilities with the priorities in development plans, 4)urgency of proposed project, and so forth.

BOX④ : An example of materialization of proposed projects in the study because of high urgency

The Study on Groundwater Resources Potential in Kabul Basin in the Islamic Republic of Afghanistan

This study was carried out under the purposes as follows.

- (1) To evaluate the potential of groundwater resources exploitable for drinking use in the study area,
- (2) To collect the basic data/information for formulating the plans of groundwater development and water utilization/supply in the Study Area, and
- (3) To transfer technology and methodologies of the Study on groundwater resources to the C/P (Counterpart Personnel) of MMI2 (Ministry of Mines and Industry), the implementing agency of Afghanistan, and relevant organizations during the Study.

Findings of the study are as follows.

- (1) All production wells including both private and official ones are currently tapping the shallow aquifer. The total water balance of surface system was almost equal but the water balance of groundwater system was in minus condition indicating over-pumping condition.
- (2) The deep aquifer is fossil water, outside of the natural water cycle, that is this aquifer cannot be a water source for sustainable development, etc.

Furthermore, the followings are issues to be considered for groundwater development in the future:

- (1) Improvement of the supply side (through 'aggressive development,' including construction of a recharge dam etc.),
- (2) Improvement of the demand side (through water saving and sanitary control, minimization of the water leakage/non-revenue water),
- (3) Capacity development of DGEH as a policy-making body which promotes groundwater resource management, development, and utilization (in terms of establishment of a legal basis, strengthening of technology and capacity, information management, etc.)

After the study, there was a period when security status worsened in Afghanistan, and Japanese team/ nationals were forced to evacuate. Therefore, JICA's support seemed to be affected by this incidence. However, because of an immediate need to recover falling groundwater level in Kabul, "Kabul Managed Aquifer Recharge Project (KMARP)," a recharge dam project proposed by the study, is planned to start from 2016 with funds of ADB and USAID.

2.1.4.5 Perspective of Studies in the M/P Studies Group

Table 2-9 shows the perspectives of 7 studies "In Progress or In Use". For 4 studies, formal requests for funds were submitted or subsequent actions were taken. For 1 study, formal requests /subsequent actions are under preparation. For 2 studies, requests for funds and subsequent actions have not been confirmed.²

Regarding the contents of concrete actions for the studies which a decision has been made or in consideration, 3 studies (42.9%) consider fund procurement, and 1 study considers (14.3%) Japanese Technical Cooperation. There is no study which have conducted the subsequent study.

 $^{^{2}}$ M/P Studies proposed many projects and policies. In the case that main proposed projects are realized and under preparation, or part of proposed projects is realized, the status of utilization of the study is categorized into "Formal requests are submitted or subsequent actions are taken" or "Formal requests/subsequent action are under preparation".

		M/P	Basic Study	Others	Total
Forma	l requests are submitted or subsequent	3	1	0	4
actions	s are taken	(60.0%)	(50.0%)	(-)	(57.1%)
Forma	l requests/subsequent actions are	0	1	0	1
under	preparation.	(0.0%)	(50.0%)	(-)	(14.3%)
Sub-to	tal	3	2	0	5
Su0-10	hai	(60.0%)	(100.0%)	(-)	(71.4%)
	Subsequent Studies	0	0	0	0
		(0.0%)	(0.0%)	(-)	(0.0%)
	Fund Procurement	3	0	0	3
ts		(60.0%)	(0.0%)	(-)	(42.9%)
les	Japan's Technical Cooperation	0	1	0	1
Requests		(0.0%)	(50.0%)	(-)	(14.3%)
R	Others	0	0	0	0
		(0.0%)	(0.0%)	(-)	(0.0%)
	Sub-total	3	1	0	4
		(60.0%)	(50.0%)	(-)	(57.1%)
Forma	l requests/subsequent actions are not	2	0	0	2
confiri	med.	(40.0%)	(0.0%)	(-)	(28.6%)
Total 1	Number of Development Studies	5	2	0	7
		(100.0%)	(100.0%)	(-)	(100.0%)

Table 2-9 Perspective of "In Progress or In Use" Studies in the M/P Group*

*Multiple categories may apply to some items.

2.1.5 Status of Studies under "Delayed, Discontinued or Cancelled"

In the M/P Studies Group, there is no study classified under the status of "Delayed or Suspended" and "Discontinued or Cancelled" out of 7 (Refer to Table 2-2, 2-3).

2.2 Status of Completed Studies in the F/S Group

The number of the completed studies in FY2010 classified as F/S are three.

Transition of the status of realization for the studies completed in FY2010 shows studies classified as "Completed or In Progress" consists 100.0%. All 3 studies are classified as "In process" but no study has been realized.

			C 2 10 50		inzution of		F		
		Comple	ted or In H	Progress					
Completion Year	Completed	Partially Implemented	Under Implementation	In Process	Sub-Total	Under Promotion	Delayed	Discontinued or Cancelled	Total
2010	0 (0.0%)	0 (0.0%)	0 (0.0%)	$\frac{3}{(100.0\%)}$	3 (100.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	3 (100.0%)
	(0.070)	(0.070)	(0.070)	(100.070)	(100.070)	(0.070)	(0.070)	(0.070)	(100.070)
Total	0		U	3	3	0	0	0	3
	(0.0%)	(0.0%)	(0.0%)	(100.0%)	(100.0%)	(0.0%)	(0.0%)	(0.0%)	(100.0%)

Table 2-10 Status of Realization of the F/S Group

2.2.1 Realization Status of Completed Studies by Region

The realization rate here is analyzed by region. Out of the 3 completed studies, 2 studies were conducted in Africa while 1 study was in Middle East. Both of them are categorized as "In Process". There is no regional difference in terms of realization of the completed studies. As to Asia, South America, Oceania, Europe and Multiple Countries, there is nothing of completed studies.

Sub-Total 0 (-) 0 (-) 0 (-) 1 (100.0%) 2 (100.0%) Under Promotion 0 (-) 0 (-) 0 (-) 0 (0.0%) Delayed 0 (-) 0 (-) 0 (-) 0 (0.0%) 0 (0.0%) Discontinued or Cancelled 0 (-) 0 (-) 0 (-) 0 (0.0%) 0 (0.0%)												
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		Present Status			A	Asia			Mi	ddle East		Africa
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			AS	SEAN	Oth	er Asia	Su	b-total				
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	or ;	Completed	0	(-)	0	(-)	0	(-)	0	(0.0%)	0	(0.0%)
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	ed c ress	Partially Implemented	0	(-)	0	(-)	0	(-)	0	(0.0%)	0	(0.0%)
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	plet rog	Under Implementation	0	(-)	0	(-)	0	(-)	0	(0.0%)	0	(0.0%)
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	ln F	In Process	0	(-)	0	(-)	0	(-)	1	(100.0%)	2	(100.0%)
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	0	Sub-Total	0	(-)	0	(-)	0	(-)	1	(100.0%)	2	(100.0%)
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Under	Promotion	0	(-)	0	(-)	0	(-)	0	(0.0%)	0	(0.0%)
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Delay	ed	0	(-)	0	(-)	0	(-)	0	(0.0%)	0	(0.0%)
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Discor	ntinued or Cancelled	0	(-)	0	(-)	0	(-)	0	(0.0%)	0	(0.0%)
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Total		0	(-)	0	(-)	0	(-)	1	(100.0%)	2	(100.0%)
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		Present Status										
Sub-Total 0 (-) 0 (-) 0 (-) 3 (33.3%) Under Promotion 0 (-) 0 (-) 0 (-) 3 (33.3%) Delayed 0 (-) 0 (-) 0 (-) 0 (0.0%) Discontinued or Cancelled 0 (-) 0 (-) 0 (-) 0 (0.0%)		Present Status			O	ceania	E	urope		<u>^</u>		Total
Sub-Total 0 (-) 0 (-) 0 (-) 3 (33.3%) Under Promotion 0 (-) 0 (-) 0 (-) 3 (33.3%) Delayed 0 (-) 0 (-) 0 (-) 0 (0.0%) Discontinued or Cancelled 0 (-) 0 (-) 0 (-) 0 (0.0%)	or	Completed	Ar	nerica					C	ountries	0	
Sub-Total 0 (-) 0 (-) 0 (-) 3 (33.3%) Under Promotion 0 (-) 0 (-) 0 (-) 3 (33.3%) Delayed 0 (-) 0 (-) 0 (-) 0 (0.0%) Discontinued or Cancelled 0 (-) 0 (-) 0 (-) 0 (0.0%)	ed or ress	Completed	Ar 0	nerica (-)	0	(-)	0	(-)	C 0	ountries	-	(0.0%)
Sub-Total 0 (-) 0 (-) 0 (-) 3 (33.3%) Under Promotion 0 (-) 0 (-) 0 (-) 3 (33.3%) Delayed 0 (-) 0 (-) 0 (-) 0 (0.0%) Discontinued or Cancelled 0 (-) 0 (-) 0 (-) 0 (0.0%)	pleted or rogress	Completed	Ar 0 0	merica (-) (-)	0	(-)	0	(-) (-)	C 0 0	ountries (-) (-)	0	(0.0%) (0.0%)
Delayed 0 (-) 0 (-) 0 (-) 0 (-) 0 (-) 0 (-) 0 (-) 0 (-) 0 (0.0%) Discontinued or Cancelled 0 (-) 0 (-) 0 (-) 0 (-) 0 (0.0%)	completed or In Progress	Completed Partially Implemented Under Implementation	Ar 0 0 0	nerica (-) (-) (-)	0 0 0	(-) (-) (-)	0 0 0	(-) (-)	C 0 0 0	ountries (-) (-) (-) (-)	0	(0.0%) (0.0%) (0.0%)
Discontinued or Cancelled 0 (-) 0 (-) 0 (-) 0 (-) 0 (0.0%)	Completed or In Progress	Completed Partially Implemented Under Implementation In Process	Ar 0 0 0 0	nerica (-) (-) (-) (-)	0 0 0	(-) (-) (-)	0 0 0 0	(-) (-) (-)	C 0 0 0 0	(-) (-) (-) (-) (-) (-)	0 0 3	(0.0%) (0.0%) (0.0%) (33.3%)
	-	Completed Partially Implemented Under Implementation In Process Sub-Total	Ar 0 0 0 0 0	nerica (-) (-) (-) (-) (-)	0 0 0 0	(-) (-) (-) (-)	0 0 0 0 0	(-) (-) (-) (-)	C 0 0 0 0 0	(-) (-) (-) (-) (-)	0 0 3 3	(0.0%) (0.0%) (0.0%) (33.3%) (33.3%)
Total 0 (-) 0 (-) 0 (-) 3 (33.3%)	Under	Completed Partially Implemented Under Implementation In Process Sub-Total Promotion	Ar 0 0 0 0 0 0 0 0	nerica (-) (-) (-) (-) (-) (-)	0 0 0 0 0	(-) (-) (-) (-) (-)	0 0 0 0 0 0	(-) (-) (-) (-) (-) (-)	C 0 0 0 0 0 0 0	(-) (-) (-) (-) (-) (-)	0 0 3 3 0	(0.0%) (0.0%) (0.0%) (33.3%) (33.3%) (0.0%)
	Under Delay	Completed Partially Implemented Under Implementation In Process Sub-Total Promotion ed	Ar 0 0 0 0 0 0 0 0 0 0	nerica (-) (-) (-) (-) (-) (-) (-)	0 0 0 0 0 0 0	(-) (-) (-) (-) (-) (-)	0 0 0 0 0 0 0 0	(-) (-) (-) (-) (-) (-) (-)	C 0 0 0 0 0 0 0 0	(-) (-) (-) (-) (-) (-) (-) (-)	0 0 3 3 0 0	(0.0%) (0.0%) (0.0%) (33.3%) (33.3%) (0.0%) (0.0%)

 Table 2-11
 Present Status of the F/S Group by Region

2.2.2 Realization Status of Completed Studies by Study Type

As Table 2-12 shows, out of the total 3 completed studies, all 3 studies are classified as "Completed or In Progress", the realization rate is 100.0%, which can be concluded that the studies have been utilized basically satisfactory. As is shown on Table 2-12, all 3 studies are categorized as M/P+F/S, and there is no F/S and D/D study identified³.

	Present Status	M/P+F/S	F/S	D/D	Total
or s	Completed	0 (0.	0%) 0 (-)	0 (-)	0 (0.0%)
	Partially Implemented	0 (0.	0%) 0 (-)	0 (-)	0 (0.0%)
ompleted In Progres	Under Implementation	0 (0.	0%) 0 (-)	0 (-)	0 (0.0%)
Completed In Progres	In Process	3 (100.	0%) 0 (-)	0 (-)	3 (100.0%)
0	Sub-Total	3 (100.	0%) 0 (-)	0 (-)	3 (100.0%)
Under	Promotion	0 (0.	0%) 0 (-)	0 (-)	0 (0.0%)
Delay	ed	0 (0.	0%) 0 (-)	0 (-)	0 (0.0%)
Discor	ntinued or Cancelled	0 (0.	0%) 0 (-)	0 (-)	0 (0.0%)
Total		3 (100.	0%) 0 (-)	0 (-)	3 (100.0%)

Table 2-12 Present Status of the F/S Group by Type of Study

2.2.3 Realization Status of Completed Studies by Sector

Regarding the number of completed studies in the area of the Social Development and the Agriculture, Forestry, and Fishery, all 3 studies are categorized as the Social Development area, and there is no study in the Agriculture, Forestry, and Fishery areas. The realization rates are 100.0% in the Social Development area. (Table 2-13, 14).

As mentioned above, all 3 studies are categorized as M/P+F/S. In Social Development area, the realization rates of different types of studies are; 100.0% in M/P+F/S as in all studies.

³ Regarding the category of M/P+F/S, status of realization is confirmed for the F/S which considered contents and profitability of projects.

	Present Status			S	ocial Dev	elopm	ent				
	Fieseni Status	М	/P+F/S	F	/S	Ι	D/D	Su	b-total		
or s	Completed	0	(0.0%)	0	(-)	0	(-)	0	(0.0%)		
Completed or In Progress	Partially Implemented	0	(0.0%)	0	(-)	0	(-)	0	(0.0%)		
plet	Under Implementation	0	(0.0%)	0	(-)	0	(-)	0	(0.0%)		
om] In P	In Process	3	(100.0%)	0	(-)	0	(-)	3	(100.0%)		
0 _	Sub-Total	3	(100.0%)	0	(-)	0	(-)	3	(100.0%)		
Under	Promotion	0	(0.0%)	0	(-)	0	(-)	0	(0.0%)		
Delay	ed	0	(0.0%)	0	(-)	0	(-)	0	(0.0%)		
Disco	ntinued or Cancelled	0	(0.0%)	0	(-)	0	(-)	0	(0.0%)		
Total		3	(100.0%)	0	(-)	0	(-)	3	(100.0%)		
	D (State			Agricul	ture, Fore	estry 8	& Fishery				F 4 1
	Present Status	М	/P+F/S		ture, Fore /S		& Fishery D/D	Su	b-total]	Fotal
	Completed	M 0	/P+F/S (-)		· · · ·			Su 0	b-total	0	Fotal (0.0%)
ed or ress	Completed			F	/S	I	D/D				
pleted or trogress	Completed	0	(-)	F	/S (-)	1 0	D/D (-)	0	(-)	0	(0.0%)
ompleted or In Progress	Completed	0	(-)	F 0 0	/S (-) (-)	I 0 0	D/D (-) (-)	0	(-) (-)	0 0 0	(0.0%) (0.0%) (0.0%)
Completed or In Progress	Completed	0 0 0	(-) (-) (-)	F 0 0	/S (-) (-) (-)	I 0 0 0	D/D (-) (-) (-)	0 0 0	(-) (-)	0 0 0 3	(0.0%)
-	Completed Partially Implemented Under Implementation In Process	0 0 0 0	(-) (-) (-)	F 0 0 0 0	/S (-) (-) (-) (-)	I 0 0 0 0	D/D (-) (-) (-) (-)	0 0 0 0	(-) (-) (-)	0 0 0 3	(0.0%) (0.0%) (0.0%) (100.0%)
-	Completed Partially Implemented Under Implementation In Process Sub-Total Promotion	0 0 0 0 0	(-) (-) (-) (-)	F 0 0 0 0 0	/S (-) (-) (-) (-) (-)	I 0 0 0 0 0	D/D (-) (-) (-) (-) (-)	0 0 0 0 0 0	(-) (-) (-) (-)	0 0 0 3 3	(0.0%) (0.0%) (0.0%) (100.0%) (100.0%)
Under Delay	Completed Partially Implemented Under Implementation In Process Sub-Total Promotion	0 0 0 0 0 0 0	(-) (-) (-) (-) (-) (-)	F 0 0 0 0 0 0	/S (-) (-) (-) (-) (-) (-)	1 0 0 0 0 0 0	D/D (-) (-) (-) (-) (-) (-)	0 0 0 0 0 0 0	(-) (-) (-) (-) (-) (-)	0 0 0 3 3 0	(0.0%) (0.0%) (0.0%) (100.0%) (100.0%) (0.0%)

Table 2-13 Present Status by Sector and Type of Study

			Agricultu	re, Forestry	& Fishery				
	Present Status	Asia	Middle East	Africa	Central & South America	Oceania	Europe	Multiple Countries	Total
	Completed	0	0	0	0	0	0	0	0
d or ess	Partially Implemented	0	0	0	0	0	0	0	0
Completed or In Progress	Under Implementation	0	0	0	0	0	0	0	0
Pro D	In Process	0	1	2	0	0	0	0	3
P C	Sub-Total	0	1	2	0	0	0	0	3
	(Rate of Realization)	(-)	(100.0%)	(100.0%)	(-)	(-)	(-)	(-)	(100.0%)
Under	Promotion	0	0	0	0	0	0	0	0
	(ratio)	(-)	(0.0%)	(0.0%)	(-)	(-)	(-)	(-)	(0.0%)
Delaye	d	0	0	0	0	0	0	0	0
	(ratio)	(-)	(0.0%)	(0.0%)	(-)	(-)	(-)	(-)	(0.0%)
Discon	tinued or Cancelled	0	0	0	0	0	0	0	0
	(ratio)	(-)	(0.0%)	(0.0%)	(-)	(-)	(-)	(-)	(0.0%)
Total		0	1	2	0	0	0	0	3
	(ratio)	(-)	(100.0%)	(100.0%)	(-)	(-)	(-)	(-)	(100.0%)

			Soci	al Develop	ment				
	Present Status	Asia	Middle East	Africa	Central & South America	Oceania	Europe	Multiple Countries	Total
	Completed	0	0	0	0	0	0	0	0
d or ess	Partially Implemented	0	0	0	0	0	0	0	0
etec	Under Implementation	0	0	0	0	0	0	0	0
Completed or In Progress	In Process	0	0	0	0	0	0	0	0
P C	Sub-Total	0	0	0	0	0	0	0	0
	(Rate of Realization)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
Under	Promotion	0	0	0	0	0	0	0	0
	(ratio)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
Delaye	d	0	0	0	0	0	0	0	0
	(ratio)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
Discon	tinued or Cancelled	0	0	0	0	0	0	0	0
	(ratio)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
Total		0	0	0	0	0	0	0	0
	(ratio)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)

2.2.4 Status of Studies "Completed or In Progress"

(1) Details of Analysis of Studies "Completed or In Progress"

The category "Completed" or "In Progress" are divided into 4 sub-categories; "Completed," "Partially Completed," "Under Implementation" and "In Process". Out of total of 3 completed studies, there are 3 studies classified as "Completed or In Progress" in the F/S Group. All the 3 studies are categorized as "In Process" and there is no study identified as "Completed", nor "Partially Completed", nor "Under Implementation". (Refer to Table 2-15)

For 3 studies which are categorized under "Completed or In Progress", fund has been procured for all 3 studies. Although including partially implemented studies, one can conclude that successful procurement of funds and proposed projects are materialized successfully. There is no study categorized as "Subsequent Study" or "Japanese Technical Cooperation" (Refer to Table 2-15).

Presemt Status	Type of Studies	Subsequent Study	Fund Procurement	Japanese Technical Cooperation	Others	Number of Studies
q	M/P+F/S	0	0	0	0	0
Completed	F/S	0	0	0	0	0
omp	D/D	0	0	0	0	0
0	Sub-total	0	0	0	0	0
ed	M/P+F/S	0	0	0	0	0
Partially Implemented	F/S	0	0	0	0	0
Partially	D/D	0	0	0	0	0
II	Sub-total	0	0	0	0	0
tion	M/P+F/S	0	0	0	0	0
Under Implementation	F/S	0	0	0	0	0
Undem	D/D	0	0	0	0	0
Imp	Sub-total	0	0	0	0	0
s	M/P+F/S	0	3	0	0	3
oces	F/S	0	0	0	0	0
In Process	D/D	0	0	0	0	0
I	Sub-total	0	3	0	0	3
Total		0	3	0	0	3

Table 2-15 Details of "Completed or In Progress" Studies of the F/S Group

*Multiple categories may apply to some items.

(2) Implementation of Subsequent Studies

Out of 3 "Completed or In Progress" studies, subsequent studies have not been implemented for all 3 studies.

(3) Procurement of Funds

The funding party for 3 studies is unknown (Refer to Table 2-16). No studies acquired funds from Japanese ODA loans and Grant Aid.

By looking at the subcategory of the status, there is no study under "Completed" nor "Partially Completed" nor "Under Implementation" stage, but all the 3 studies are for "In Progress".

Presem t Status	Type of Studies	Japancse ODA Loan	Japanese Grant Aid	Japan's EXIM Bank	International Organizations	Other Donor Countries	Own Fund	Private Fund	Othres	Unknown	Total *1	Total *2
	M/P+F/S	0	0 (-)	0 (-)	0 (-)	0 (-)	0	0	0	0	0	0
Completed	F/S	0 (-)	0 (-)	0 (-)	0 (-)	0 (-)	0 (-)	0	0	0	0	0
Comp	D/D	0 (-)	0 (-)	0 (-)	0 (-)	0 (-)	0 (-)	0	0	0	0	0
	Sub-total	0	0 (-)	0	0 (-)	0 (-)	0	0	0	0	0	0
	M/P+F/S	0	0	0	0	0	0	0	0	0	0	0
ally nented	F/S	0	0	0	0	0	0	0	0	0	0	0
Partially Implemented	D/D	0	0	0	0	0	0	0	0	0	0	0
	Sub-total	0	0	0	0	0	0	0	0	0	0	0
	M/P+F/S	0	0	0	0	0	0	0	0	0		0
Under Implementation	F/S	0	0	0	0	0	0	0	0	0	0	0
Under nplementa	D/D	0	0	0	0	0	0	0	0	0	0	0
Ir	Sub-total	0	0	0	0	0	0	0	0	0	0	0
	M/P+F/S	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	3 (100.0%)	3 (100.0%)	3
cess	F/S	0	0	0	0	0	0	0	0	0	0	0
In Process	D/D	0	0	0	0	0	0	0	0	0	0	0
	Sub-total	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	3 (100.0%)	3 (100.0%)	3
	Total	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	(0.0%)	3	3	3

Table 2-16 Details of Fund Procurement

*1: Number of development studies which have funded project *2: Total Number of development studies

Regarding 3 studies, the years elapsed from the completion of Development Studies to the fund procurement are unknown (Refer to Table 2-17).

_	_			E	apsed Yea	ırs				
Present Status	Type of Study	Less Than 1 Year	1 Year	2 Year	3 Year	4 Year	5 Year	6 Year and more	Unknown	Total
q	M/P+F/S	0	0	0	0	0	0	0	0	0
Completed	F/S	0	0	0	0	0	0	0	0	0
Juno	D/D	0	0	0	0	0	0	0	0	0
0	Sub-total	0	0	0	0	0	0	0	0	0
ed	M/P+F/S	0	0	0	0	0	0	0	0	0
Partially Implemented	F/S	0	0	0	0	0	0	0	0	0
Parti	D/D	0	0	0	0	0	0	0	0	0
Im	Sub-total	0	0	0	0	0	0	0	0	0
tion	M/P+F/S	0	0	0	0	0	0	0	0	0
Under Implementation	F/S	0	0	0	0	0	0	0	0	0
Undemole	D/D	0	0	0	0	0	0	0	0	0
Imp	Sub-total	0	0	0	0	0	0	0	0	0
s	M/P+F/S	0	0	0	0	0	0	0	3	3
oces	F/S	0	0	0	0	0	0	0	0	0
In Process	D/D	0	0	0	0	0	0	0	0	0
L I	Sub-total	0	0	0	0	0	0	0	3	3
Т	otal	0	0	0	0	0	0	0	3	3

 Table 2-17
 Years Elapsed from the Completion of Development Studies to the Realization of Fund Procurement

(4) Factors for Materialization

According to the questionnaire survey, several factors influences fund procurement. Such factors are, 1) benefit of the project; 2) priority of the project; 3) consistency with national development plans; and 4) urgency.

(5) Perspectives of Studies "Completed or In Progress"

Table 2-21 shows future perspectives for all the 3 studies are under "In Process ".

These 3 studies are categorized as "formal requests/ subsequent actions have not been confirmed".

		Completed	Partially Implemented	Under Implementation	In Process	Total
Formal requests/subsequent actions have been decided.		0	0	0	0	0
Formal requests/subsequent actions are under preparation		0	0	0	0	0
tons	Subsequent Studies	0	0	0	0	0
of Requests/Actons	Fund Procurement	0	0	0	0	0
Reque	Japanese Technical Cooperation	0	0	0	0	0
uils of	Others	0	0	0	0	0
Details	Sub-total	0	0	0	0	0
Formal requests/subsequent actions have not been confirmed		0	0	0	3	3
Number of Development Studies		0	0	0	0	0
Total Number of Development Studies		0	0	0	3	3

Table 2-18 Perspectives of "Partially Implemented" or "Implementing" Studies of F/S Group

*Multiple categories may apply to some items

2.2.5 Status of Studies at "Under Promotion"

(1) Details of Studies at "Under Promotion"

Among the studies completed in FY2010, there is no study classified as "Under Promotion".

2.2.6 Status of Studies "Delayed" or "Discontinued or Cancelled"

There is no study which is categorized as "Delayed or Suspended" nor "Discontinued or Cancelled" out of that for F/S Group (total 3 studies).

2.3. Review Results

In order to evaluate the implementation processes and results of Development Studies, this Ex-post Situation Study conducted a questionnaire survey to collect the opinions of counterparts in the recipient countries and Japanese consultants (hereinafter, referred to as 'consultants') in charge of the Development Studies about (i) achievement of Project Objectives and Overall Goals; (ii) quality of consultants and their reports; (iii) utilization of study results and reports; (iv) relevance of Development Studies and institutional arrangements for their implementation; and (v) consequences of technical transfer and capacity development. The results of the questionnaire survey are provided in the following sections. The questionnaire was distributed to a total of 20 counterparts and consultants, including 10 development studies implemented by the technical cooperation project budget selected as samples for this year's Ex-post Situation Study and returned by 8 organizations. Meanwhile, it is appropriate to regard the results as rough trend due to the limited number of collected questionnaire.

2.3.1. Achievement of Project Objectives and Overall Goals

Most Development Studies received good reviews on the achievement of the Project Objectives. As shown in the table below, 5 out of the 8 respondents answered "well achieved", in addition to the respondents who answered "generally achieved", reaching at 100% of the respondents to suggest good reviews. Both counterparts and consultants share similar evaluations.

	counterparts	consultants	total
Well achieved	1	4	5
Generally achieved	2	1	3
Not well achieved	0	0	0
Unachieved	0	0	0
No project objective was set	0	0	0
n.a.	0	0	0
total	3	5	8

Table 2-19 Achievement of Project Objectives

Some of the detailed answers on the achievement of Project Objectives are provided below.

Project name	Detailed answers on achievement	
The Study on Groundwater	The Development Study developed a comprehensive hydrogeological	
Resources Potential in	map for the entire Kabul Basin and revealed the distribution and	
Kabul Basin (Afghanistan)	thickness of shallow aquifers (alluvial deposits) and the distribution of	
	groundwater. Moreover, the potential of shallow aquifers and the	
	exploitable amount of groundwater were estimated through	
	simulation.	
The Study on Urban	The Urban Development Master Plan for 2030 is in place after	

Development Master Plan for Lilongwe (Malawi)	receiving all the necessary approvals. The short-or middle term sectoral development programmes are all well articulated in the Urban Development Master Plan for 2030.
The Study on Integrated Development Strategy for Danang City and Its Neighboring Area (Vietnam)	Before this Development Study, Danang City only performed a trend-based analysis of international population and other variables, without clear development strategies. The Development Study, however, formulated a clear strategy to develop Danang as an internationally competitive city that can lead the Central Region of Vietnam. This Study was adopted as a policy goal of the city and later also reflected in its city development plan.

With regard to the achievement of the Overall Goals, 4 out of 8 respondents answered "well achieved" or "generally achieved" (2 respondents with no answer), causing some disparity compared to the achievement of Project Objectives. Only 1 out of 8 respondents reported that the Overall Goal was "well achieved." These evaluation results are attributable to the fact that, although most Development Studies produced outcomes (reports) as planned, it was often difficult to realize what had been suggested in the reports (actually only some of the suggestions had been put into action) due to financial and other reasons.

Table 2-20 A	chievement of Overall Goals
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	counterparts	consultants	total
Well achieved	0	1	1
Generally achieved	2	1	3
Not well achieved	1	1	2
Unachieved	0	0	0
No overall goal was set	0	0	0
n.a.	0	2	2
total	3	5	8

Some of the detailed answers on the achievement of Overall Goals are provided below.

Project name	Detailed answers on achievement		
The Study on Groundwater	Awareness was raised about the importance of developing, using,		
Resources Potential in	and managing groundwater in an integrated and systematic way, and		
Kabul Basin (Afghanistan)	an institutional mechanism for the comprehensive survey,		
	development, and management of groundwater was developed.		
	Meanwhile, based on the suggestion that the exploitation of		
	groundwater in the Kabul Basin should be stopped, the deep aquifer		
	development plan was cancelled.		
The Study on Formulation	The 2030 master plan clarified all the things proposed by the Study		
of Geographic Database of	(a variety of sector projects). The only – yet significant – problem is		
Nouakchott (Mauritania)	the lack of resources (particularly financial resources) which makes		
	it difficult to be realized.		
The Study on Integrated	When the Development Study was completed in 2010, it was		
Water Resources	planned to establish River Basin Organizations (RBOs) in		
Management for Sefidrud	accordance with the Overall Goal. However, a Technical		
River Basin (Iran)	Cooperation Project was requested to support them, but never to be		
	realized.		

2.3.2. Quality of Consultants and Their Reports

The questionnaire survey collected opinions on the quality of consultants and their reports only from counterparts.

According to the survey, most consultants received good reviews. All the 3 counterparts answered "very satisfied" or "satisfied", showing high evaluation.

	counterparts
Very satisfied	1
Satisfied	2
Neither	0
Unsatisfied	0
n.a.	0
total	3

Table 2-21 Quality of consultants

Source: Prepared by the Study Team

Some of the detailed answers on the quality of consultants are provided below.

Project name	Detailed answers on the quality of consultants
The Study on Urban	They took precise and professional approach to achieve the
Development Master Plan	objectives where possible they also tried to adjust to suit the Malawi
for Lilongwe (Malawi)	environment.

The questionnaire survey collected opinions on the quality of reports from the following three viewpoints: (i) report as a whole; (ii) analyses; and (iii) recommendations. Except for one respondent who answered "unsatisfied" to the question on the quality of recommendations, all the other counterparts highly evaluated the quality of the reports in all the three terms, just as much as they appreciated the quality of consultants.

Table 2-22 Quality of reports				
	Report as a whole	analyses	Recomendations	
Very satisfied	1	1	1	
Satisfied	2	2	1	
Neither	0	0	0	
Unsatisfied	0	0	1	
n.a.	0	0	0	
total	3	3	3	

Some of the detailed	answers on the	quality of rep	ports are p	provided below.

Project name	Detailed answers on the quality of reports	
The Study on Urban	Both the report and the analyses were professionally done and	
Development Master Plan	presented. The proposals contained therein are responsive to the	
for Lilongwe (Malawi) development needs of the city.		
Study for Master Plan for	The implementing organization is very satisfied with the results of th	
Promoting the Mining detailed and thorough study, including the analysis and suggest		
Industry (Albania)	provided by the study team as well as the quality of their report. The	

ideas and proposals were also highly evaluated as the study team
members cooperated closely with our staff.

2.3.3. Utilization of Study Results and Reports

Most Development Studies received good reviews on the utilization of study results and reports. Namely, 3 out of the 8 respondents answered "well utilized," and 6 out of the 8 respondents answered "well utilized" or "generally utilized." Only 1 respondent, which was a consultant, answered "not well utilized."

Table 2-25 Outzation of study results and reports (sometime in the past)				
	counterparts	consultants	total	
Very satisfied	1	2	3	
Satisfied	2	1	3	
Neither	0	1	1	
Unsatisfied	0	0	0	
n.a.	0	1	1	
total	3	5	8	

Table 2-23 Utilization of study results and reports (sometime in the past)

Source: Prepared by the Study Team

Some of the detailed answers on the utilization of study results and reports (sometime in the past) are provided below.

Project name	Detailed answers on the utilization of study results and reports
i roject name	(sometime in the past)
The integrated master plan	The results of the Development Study served as the foundation for the
study for Dzongkhag-wise	implementation of JICA's ODA Loan and Technical Cooperation
electrification (Bhutan)	Projects and the ADB's projects.
The Master Plan Study on	After the completion of the Development Study, many of the proposed
Small Hydropower in	project sites were offered to private investors by the governmental
Northern Laos (Laos)	agency, and small hydropower systems were already installed in some
	of the sites.
The Study on Optimal	TEIAS (Electricity Transmission Co.), EUAS (Electricity Generation
Power Generation for Peak	Co.), GDRE (General Directorate of Renewable Energy (ex-EIE), and
Demand (Turkey)	DSI (General Directorate of State Hydraulic Works) several other
	shave reviewed the outcomes of the Development Study to recognize
	the roles of PSPP in electricity network and tried to make comparison
	with other alternatives to stabilize the network in future.
The Study for Yangbajain	The deep geothermal model and geothermal reservoir simulation
Geothermal Subterranean	results provided by this Development Study were utilized for the
Development in the Tibet	operations of the existing steam wells.
(China)	
Technical Cooperation for	The trained consultants and the training mechanism have been
Development Planning on	continuously utilized. However, some challenges are observed in
Standardization and	terms of the utilization of the results of the Development Study, due to
Development of	the organizational restructuring.
Competences of Small and	
Medium-sized Enterprises	
(SMEs) Consultants	
(Chili)	

The questionnaire also asked whether the study results and reports are still being utilized. All the 5 respondents, excluding from no answers from 2 respondents, answered 'well utilized, or 'generally utilized', showing high evaluation. Some respondents have attempted to promote the utilization of the results and reports by implementing follow-up activities.

	counterparts	consultants	total
Still well utilized	1	1	2
Still generally utilized	1	2	3
Not well utilized now	0	0	0
Not utilized anymore	0	0	0
n.a.	1	2	3
total	3	5	8

Table 2-24 Utilization of study results and reports (at the present time)

Source: Prepared by the Study Team

Some of the detailed answers on the utilization of study results and reports (at the present time) are provided below.

Project name	Detailed answers on the utilization of study results and reports			
	(at the present time)			
The Study on	The data collected by the Development Study are being used by other			
Groundwater Resources	projects, such as GIZ. As another example of data utilization, students			
Potential in Kabul Basin	in the master course of Kabul Polytechnic University use the data for			
(Afghanistan)	their research project.			
The Study on	Since the counterpart organization did not provide the geographic			
Formulation of	data to relevant organizations either in an appropriate manner or			
Geographic Database of	timing, the results of the Development Study were not widely used			
Nouakchott (Mauritania)	enough. Therefore, after this Development Study, a follow-up project			
	was implemented from January to July 2015 to train users so as to			
	facilitate the use of the database.			

2.3.4. Relevance of Development Studies and Institutional Arrangements for Their Implementation

In order to evaluate the relevance of Development Studies and the appropriateness of their implementation processes, the questionnaire asked questions on the consistency of Development Studies with the national development strategies and the appropriateness of institutional arrangements for implementation (including the activities of Joint Coordination Committees and the capacity of counterpart organizations).

According to the results of the questionnaire, almost all of the Development Studies did not have any problem in terms of relevance as shown in almost all the respondents (7 out of the 8 respondents) answered "certainly appropriate." One respondent, which was a consultant, answered "slightly appropriate."

	counterparts	consultants	total
Certainly appropriate	3	4	7
Generally appropriate	0	0	0
Slightly appropriate	0	1	1
Not appropriate at all	0	0	0
n.a.	0	0	0
total	3	5	8

Table 2-25 Relevance of Development Studies

Source: Prepared by the Study Team

Some of the detailed answers on the relevance of Development Studies are provided below.

Project name	Detailed answers on the relevance of Development Studies			
The Study on Integrated	The Development Study was started at a good time, when we began to			
Development Strategy for	explore strategies to develop Danang as a hub city of the Central			
Danang City and Its	Economic Area and as a gateway to the East-West Economic Corridor.			
Neighboring Area	The Development Study was highly appreciated because it determined			
(Vietnam)	the course of action and details.			
The Study on Urban	The Development Study was clearly and appropriately related to the			
Development Master Plan	national development strategies. The scope was also suitable. Apart			
for Lilongwe (Malawi)	from independent analyses and assessments the study also			
	incorporated information contained in some of the existing literature			
	like the Malawi Growth and Development Strategy, Lilongwe City			
	Profile, and Lilongwe City Development Strategy among others.			

In the meantime, the appropriateness of institutional arrangements for implementation was in general highly evaluated, as shown in almost all the respondents (7 out of 8 respondents), with no problems to be noted. One respondent answered "slightly appropriate", which was by a consultant as in the 'relevance of the Development Study'.

	counterparts	consultants	total
Certainly appropriate	1	2	3
Generally appropriate	2	2	4
Slightly appropriate	0	1	1
Not appropriate at all	0	0	0
n.a.	0	0	0
total	3	5	8

Table 2-26 Appropriateness of institutional arrangements for implementation

Some	of the	detailed	answers	on	the	appropriateness	of	institutional	arrangements	for
implemen	tation ar	e provideo	l below.							

Project name	Detailed answers on the appropriateness of institutional arrangements
	for implementation
The Study on Groundwater	The Joint Technical Committee held a total of 10 meetings during the
Resources Potential in	first four years to report the progress, findings, and schedule of the
Kabul Basin (Afghanistan)	Development Study to the relevant agencies of Afghanistan, as well as
	discuss academic matters with university professors. It was regrettable,
	however, that only a small number of international partners engaged in
	the development of groundwater resources attended those meetings.

The Study on Formulation of Spatial Planning for GERBANGKERTO-SUSI LA(GKS) Zone in East Java Province, (Indonesia)	As the Development Study covered the projects and plans of both the central government and the Surabaya municipal government, it was sometimes difficult to coordinate these two governments (e.g. the alignment of the national road plan). Considering the decentralization, we believe that it was appropriate to choose the Surabaya municipal government as a counterpart organization.
The Study on Formulation	The Coordinating Committee, which had been planned to be
of Geographic Database of	established before the termination of the project, was not set up within
Nouakchott (Mauritania)	the time limit due to the coup d'état in 2008.

2.3.5. Effects of Technical Transfer and Capacity Development

The tables below show reviews on the effects of technical transfer and capacity development of counterparts through Development Studies

Most Development Studies received good reviews on the effects of technical transfer, as shown in the result that all the 8 respondents answered "sufficiently transferred" or "generally transferred." The effects of capacity development were, in general, highly evaluated, but the achievement levels were assessed lower for capacity development than for technical transfer. Consultants tended to provide relatively lower ratings than counterparts for both technical transfer and capacity development. This is considered because counterparts highly appreciated the new knowledge and know how they learned through various workshops and seminars held as part of Development Studies as well as training in Japan whereas consultants realized that it was difficult to transfer technologies applicable to actual occasions, while spreading the effects of capacity development from the individual to the organizational level.

	counterparts	consultants	total
Sufficiently transferred	2	1	3
Generally transferred	1	4	5
Not well transferred	0	0	0
Not transferred at all	0	0	0
n.a.	0	0	0
total	3	5	8

Table 2-27 Effects of technical transfer

Source: Prepared by the Study Team

Table 2-28 Effects of capacity development

	counterparts	consultants	total
Sufficiently transferred	1	0	1
Generally transferred	1	2	3
Not well transferred	0	2	2
Not transferred at all	0	0	0
n.a.	1	1	2
total	3	5	8

Project name	Detailed answers on the effects of technical transfer		
The Study on Groundwater	(1) All of the groundwater measurement techniques (including		
Resources Potential in	simultaneous and continuous groundwater level measurement		
Kabul Basin (Afghanistan)	techniques) were transferred to the staff in the implementing		
	organization, and the groundwater levels are still measured by		
	these staff on a regular basis.		
	(2) The water quality analysis laboratory of the implementing		
	organization was provided with a set of reagents and equipment		
	necessary for this Development Study. During the		
	implementation of the project, the laboratory staff examined		
	and analyzed water quality together with consultants. The		
	laboratory also undertook analysis for other JICA projects. The		
	MEW, to which the DGEF belongs now, had a laboratory		
	mainly designed for the analysis of surface water. It was an		
	independent section staffed with highly educated chemists.		
	Since the laboratories use simple analyzers manufactured by		
	Hach in the US, they need to import reagents, most of which		
	should be used within one year. Therefore, they face a		
	challenge in how to obtain reagents.		
The Study on Integrated	In light of their reflections on the basic city development strategies,		
Development Strategy for	full technical transfer was implemented. In terms of compact land		
Danang City and Its	use as well as spatial structure model based on the mass transit		
Neighboring Area	corridor, the Government of Vietnam requested Technical		
(Vietnam)	Cooperation Project after the completion of the Development Study,		
	but the request was declined.		

Some of the detailed answers on the effects of technical transfer are provided below.

Some of the detailed answers on the effects of capacity development are provided below.

Project name	Detailed answers on the effects of capacity development
The Study on Groundwater	The staff that had been trained through this project shows the
Resources Potential in	highest ability in the hydraulic sector today; regrettably, however,
Kabul Basin (Afghanistan)	many of them have left Afghanistan.
The Study on Formulation	After the termination of the project, some of the staff to whom
of Geographic Database of	techniques had been transferred were relocated to other
Nouakchott (Mauritania)	departments.

Chapter 3

An Overview of Completed Development Studies

(Studies Completed in FY1974 to FY2014)

CHAPTER 3. An Overview of Completed Development Studies

(Studies Completed in FY 1974 - FY2014)

3.1 Trends in Numbers of Completed Studies

Development studies scheme started on August 1, 1974. The total number of the completed development studies had raised and reached at the peak (97 studies) in FY 1999, after which the annual number has settled in a range of around 80. However, from FY 2003, the number of the completed development studies sharply dropped to around 40-60. The follow-up study covers studies only in Mining and Industrial Development area for studies implemented in 2009-2014.

Completion Year	Social Development	Agriculture, Forestry and Fisheries Development	Mining and Industrial Development	Total	Completion Year	Social Development	Agriculture, Forestry and Fisheries Development	Mining and Industrial Development	Total
1974	1	0	1	2	1995	44	17	28	89
1975	5	0	9	14	1996	46	14	25	85
1976	9	4	9	22	1997	35	26	32	93
1977	20	7	15	42	1998	47	15	22	84
1978	25	7	12	44	1999	58	10	29	97
1979	24	12	17	53	2000	45	13	21	79
1980	30	8	20	58	2001	53	12	17	82
1981	27	9	22	58	2002	47	18	16	81
1982	34	18	20	72	2003	35	7	17	59
1983	32	13	21	66	2004	32	4	6	42
1984	39	15	23	77	2005	39	10	11	60
1985	39	11	26	76	2006	28	9	13	50
1986	28	11	23	62	2007	32	4	10	46
1987	43	11	23	77	2008	37	6	17	60
1988	30	19	29	78	2009	12	6	11	29
1989	45	23	16	84	2010	10	0	10	20
1990	36	23	23	82	2011	0	0	11	11
1991	31	14	27	72	2012	0	0	1	1
1992	40	17	20	77	2013	0	0	2	2
1992	41	12	25	78	2014	0	0	2	2
1994	42	22	28	92	Total	1,221 (51.8%)	427 (18.1%)	710 (30.1%)	2,358 (100.0%)

Table 3-1 Time Trend of Number of Development Studies

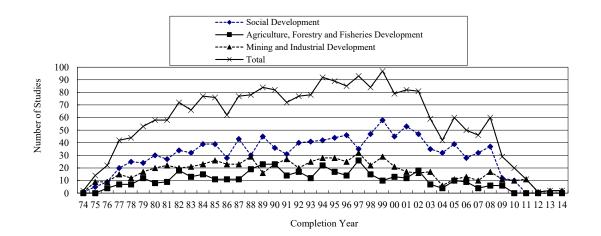


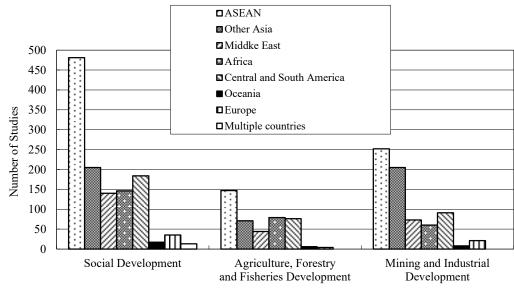
Figure 3-1 Time Trend of Number of Completed Development Studies

3.1.1 Number of Development Studies by Region

In Asia, 1,361 Development Studies (57.7% of the total) were conducted, particularly in the ASEAN countries where 880 studies in cumulative total (37.3% of the total and 64.7% of Asia) were conducted. This is followed in order of study numbers by 351 studies (14.9%) in Central and South America, 285 studies (12.1%) in Africa, and 257 studies (10.9%) in the Middle East. (Table 3-2)

Region	Social Development	Agriculture, Forestry and Fisheries	Mining and Industrial Development	Total
Asia	686 (56.2%)	218 (51.1%)	457 (64.4%)	1,361 (57.7%)
ASEAN	481 (39.4%)	147 (34.4%)	252 (35.5%)	880 (37.3%)
Other Asia	205 (16.8%)	71 (16.6%)	205 (28.9%)	481 (20.4%)
Middke East	140 (11.5%)	44 (10.3%)	73 (10.3%)	257 (10.9%)
Africa	146 (12.0%)	79 (18.5%)	60 (8.5%)	285 (12.1%)
Central and South America	184 (15.1%)	76 (17.8%)	91 (12.8%)	351 (14.9%)
Oceania	17 (1.4%)	6 (1.4%)	8 (1.1%)	31 (1.3%)
Europe	35 (2.9%)	4 (0.9%)	21 (3.0%)	60 (2.5%)
Multiple countries	13 (1.1%)	0 (0.0%)	0 (0.0%)	13 (0.6%)
Total	1,221 (100.0%)	427 (100.0%)	710 (100.0%)	2,358 (100.0%)

 Table 3-2
 Number of Development Studies by Region



Sector

Figure 3-2 Number of Development Studies by Region and Sector

Regarding the numbers of studies in different types in each region, the figures basically show similar trends, except for Oceania and Europe, where few studies were conducted, and F/S are followed by M/P studies with respect to the implementation rate In this regard, however, Basic studies were conducted the most in Africa, China Factory Modernization Studies in Asia and others, and D/D studies in Middle East. The implementation rates in all areas are 34.1% of the total (805 studies) for F/S, 32.9% (776 studies) for M/P Study and 17.4% (410 studies) for M/P+F/S.(Table 3-3)

	Table 3-3		51 Developm	ent Studies	by Region un	a blady Typ	0	
Region	M/P	M/P+F/S	F/S	D/D	Basic Studies	Chinese Factry Studies	Others*	Total
Asia	414	250		25	38	117	48	1,361
2 1510	(30.4%)	(18.4%)	(34.5%)	(1.8%)	(2.8%)	(8.6%)	(3.5%)	(100.0%)
ASEAN	301	176	330	19	24	0	30	880
	(34.2%)	(20.0%)	(37.5%)	(2.2%)	(2.7%)	(0.0%)	(3.4%)	(100.0%)
Other Asia	113	74	139	6	14	117	18	481
Other 7131d	(23.5%)	(15.4%)	(28.9%)	(1.2%)	(2.9%)	(24.3%)	(3.7%)	(100.0%)
Middle East	93	44	93	9	11	0	7	257
Wildele East	(36.2%)	(17.1%)	(36.2%)	(3.5%)	(4.3%)	(0.0%)	(2.7%)	(100.0%)
Africa	109	34	94	3	36	0	9	285
	(38.2%)	(11.9%)	(33.0%)	(1.1%)	(12.6%)	(0.0%)	(3.2%)	(100.0%)
Central and South	121	59	124	3	34	0	10	351
America	(34.5%)	(16.8%)	(35.3%)	(0.9%)	(9.7%)	(0.0%)	(2.8%)	(100.0%)
Oceania	7	10	7	1	5	0	1	31
Occania	(22.6%)	(32.3%)	(22.6%)	(3.2%)	(16.1%)	(0.0%)	(3.2%)	(100.0%)
Europe	29	12	15	0	2	0	2	60
Lutope	(48.3%)	(20.0%)	(25.0%)	(0.0%)	(3.3%)	(0.0%)	(3.3%)	(100.0%)
Multiple Countries	3	1	3	1	5	0	0	13
muniple countries	(23.1%)	(7.7%)	(23.1%)	(7.7%)	(38.5%)	(0.0%)	(0.0%)	(100.0%)
Total	776	410	805	42	131	117	77	2,358
Total	(32.9%)	(17.4%)	(34.1%)	(1.8%)	(5.6%)	(5.0%)	(3.3%)	(100.0%)

Table 3-3 Number of Development Studies by Region and Study Type

* "Other Studies" is a combination of "Other Studies" from the Social Development and Agriculture, Forestry and Fisheries Development studies, and "Other (M/P-type)" and "Other (F/S-type)" studies from the Mining and Industrial Development studies.

The numbers of studies in the Industrial sector is larger in Asia excluding ASEAN, since there are the largest numbers of Chinese Factory Studies which are mostly categorized in the Industrial sector. The Transportation sub-sector is the largest number of studies in ASEAN, Middle East, Central and South America, and Oceania. In Africa, the Social Infrastructure sector and Agricultural sector is the largest. In Europe, the Public Works and Utilities sector is the largest. (Table 3-4)

Regarding the Transportation sub-sector, the Road sub-sub-sector is the largest in ASEAN and Africa, and the Port sub-sub-sector are the largest in Central and South America. Also, the other sector is relatively larger in ASEAN than in other regions.

		Administration			Publi	c work	s & Uti	lities			Agric	ulture, Fisł		y, and	Mini Indu	ng & istry	y	u	Resource Development	Public Health and Medicine	lfare	*	
		& Adn	ties		Tra	nsporta	tion		ure	tions	re	y				,	Energy	Tourism	ource]	lth an	Social Welfare	Others*	Total
Asia		Planning 8	Public Utilities	Road	Railway	Port	Others	Sub-total	Social Infrastructure	Communications & Broadcasting	Agriculture	Animal Husbandry	Forestry	Forestry	Mining	Industry	I	L	Human Reso	Public Hea	Soci	0	
Asi	a	69	72	96	38	60	98	292	163	49	185	1	22	12	13	226	174	11	6	8	12	46	1,361
	ASEAN		48	75	23	41	73	212	118	35	121	0	18	10	6	79	128	10	5	2	7	39	880
	Other Asia		24	21	15	19	25	80	45	14	64	1	4	2	7	147	46	1	1	6	5	7	481
Mie	Middle East		21	13	4	15	19	51	36	5	37	1	2	3	1	34	32	6	3	0	3	6	257
Afr	ica	13	16	20	3	6	12	41	52	7	60	0	10	9	6	19	34	2	9	3	2	2	285
Cer	ntral & South America	26	18	19	10	22	29	80	42	7	49	0	17	10	8	32	46	5	0	1	4	6	351
Oce	eania	2	3	1	0	4	2	7	3	2	0	0	2	4	1	0	6	0	0	0	0	1	31
Eur	Europe		10	0	3	2	3	8	6	0	3	0	1	0	4	9	6	1	0	0	0	4	60
Mu	ltiple countries	1	0	3	0	0	2	5	4	2	0	0	0	0	0	0	0	0	1	0	0	0	13
Tot	al	135	140	152	58	109	165	484	306	72	334	2	54	38	33	320	298	25	19	12	21	65	2,358

Table 3-4 Number of Development Studies by Region and Sector

*The "Others" consist of Social Development (1 in Indonesia and 1 in Honduras and 1 in Mali and 1 in Sri Lanka and 1 in Maldives and 1 in Madagascar) and 59 Mining and Industrial Development studies.

3.1.2 Number of Studies by Country

Out of total 2,358 development studies, 880 are classified in ASEAN, which accounts for 37.3% of the total number of studies and it is the highest share in the region (Table 3-3).

The countries, which completed more than 15 development studies in ASEAN are the following 8 countries: Indonesia where 280 studies were completed 11.9% of the total), Philippines (190 studies, 8.0%), Thailand (165, 7.0%), Malaysia (85, 3.6%), Vietnam (65, 2.8%), Cambodia (35, 1.5%), Laos (31, 1.3%), Myanmar (19, 0.8%). There are no countries that have completed more than 15 development studies in Oceania, Europe, and Multiple Countries.

The 24 countries, which completed more than 15 development studies in other region, are the followings:

Asia excluding ASEAN:

China (207 studies (117 Chinese Factory Studies), 8.8% of the total), Sri Lanka (53 studies, 2.2%), Bangladesh (38 studies, 1.6%), Nepal (38 studies, 1.6%), Pakistan (35 studies, 1/5%), Mongolia 25 studies, 1.1%), India (25 studies, 1.1%)

Middle East:

Egypt (55 studies, 2.3%), Turkey (31 studies, 1.3%), Oman (26 studies, 1.1%), Iran (20 studies, 0.8%), Jordan (18 studies, 0.8%), Tunisia (18 studies, 0.8%), Morocco (16, 0.8%), Syria (16, 0.7%)

Africa:

Tanzania (43 studies, 1.8 %), Kenya (36 studies, 1.5 %), Zambia (19, 0.8%)

Central and South America:

Bolivia (31, 1.3%), Mexico (30 studies, 1.3%), Brazil (29 studies, 1.2%), Colombia (29, 1.2%), Paraguay (27 studies, 1.1%), Peru (22 studies, 0.9%), Argentina (20 studies, 0.8%), Guatemala (19 studies, 0.8%), Honduras (19 studies, 0.8%), Chili (19 studies, 0.8%), Dominican Republic (15, 0.6%)

3.1.3 Number of Studies by Type

Out of total 2,358 development studies (FY1974-FY2014), 805 are classified in F/S (34.1%), 776 in M/P (32.9%), 410 in M/P + F/S (17.4%). These 3 types account for over 80% of the total number of studies. (Table 3-5)

As for the number of completed studies on a fiscal year basis, the numbers of M/P had increase to the peak of 41 studies in FY 2001 and tend to be decreasing. However, more than half studies have been M/P studies since FY 2003 and showed the high rate of occupancy. As to the completed studies in FY2008, the number of M/P studies reached record-setting 50, surpassing 80% for the rate of occupancy Thus M/P studies became the principal type of study. In addition, the number of F/S, which accounts for the highest rate in cumulative total, has been decreasing, falling down to 10 and the rate showed less than 10%. The number of M/P + F/S remained at around 20 in 1990's; however, the figure sharply dropped to 6 in FY 2007. As for the Chinese Factories Studies, the number had decreased since FY 1994, and this type of studies was terminated in FY 2001.

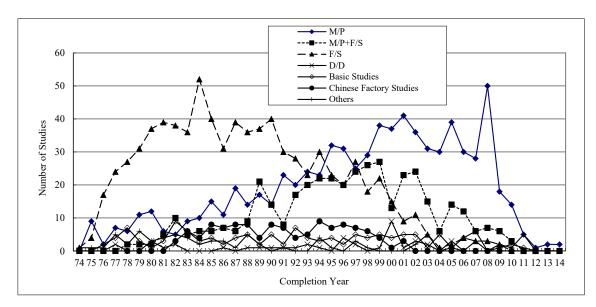


Figure 3-3 Time Trend of Number of Development Studies by Type of Study

	M/P	M/P+F/S	F/S	D/D	Basic Studies	Chinese Factory Studies	Others*	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
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
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
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
1994	23	22	30	1	3	9	4	92
1995	32	22	23	0	4	7	1	89
1996	31	20	20	4	2	8	0	85
1997	25	24	27	2	5	7	3	93
1998	29	26	18	0	4	6	1	84
1999	38	27	22	1	5	4	0	97
2000	37	13	15	9	4	1	0	79
2001	41	23	9	1	5	3	0	82
2002	36	24	11	3	5	0	2	81
2003	31	15	5	2	1	0	5	59
2004	30	6	1	0	5	0	0	42
2005	39	14	2	3	1	0	1	60
2006	30	12	4	0	4	0	0	50
2007	28	6	3	0	6	0	3	46
2008	50	7	3	0	0	0	0	60
2009	18	6	2	0	1	0	2	29
2010	14	3	0	0	2	0	1	20
2011	5	0	0	0	1	0	5	11
2012	1	0	0	0	0	0	0	1
2013	2	0	0	0	0	0	0	2
2014	2	0	0	0	0	0	0	2
Total	776	410	805	42	131	117	77	2,358
	(32.9%)	(17.4%)	(34.1%)	(1.8%)	(5.6%)	(5.0%)	(3.3%)	(100.0%)

Table 3-5 Time Trend of the Number of Development Studies by Type of Study

* "Others" is a combination of "Other Studies" from social development and agriculture, forestry and fisheries development studies, and "Other (M/P-type and F/S-type) studies" from mining and industrial development studies.

3.1.4 Number of Studies by Sector

There are 135 studies in the Planning and Administration sector, accounting for 5.7% of the total. There are 1,002 studies in the Public Works and Utilities sector (42.5%), 25 in the Commerce & Tourism sector (1.1%), 19 in the Human Resources Development sector (0.8%), and 12 in the Health and Medical Care (0.5%), 21 in the Social Welfare (0.9%), 428 in the Agriculture, Forestry and Fishery sector (18.2%), 353 in the Mining and Industry sector (15.0%), and 298 in the Energy sector (12.6%). Mining and Industrial Development areas include 117 Chinese Factory Modernization Studies of which 115 studies are classified as the Industry sector.

The largest sub-sector in the Public Works and Utilities sector is the Transportation, which has carried out 484 studies accounting for 20.5% of the total followed by the Social Infrastructure (306 studies, 13.0%). The largest sub-sector in the Agriculture, Forestry and Fishery sector is the Agriculture sub-sub-sector, which has carried out 334 studies (14.2% of the total).

3.1.4.1 Number of Studies by Main Sectors

M/P studies include 385 Social Development studies accounting for 49.6% of the total M/P studies. There are 123 Agriculture, Forestry and Fishery Development studies (15.9%), and 225 Mining and Industrial Development studies (29.0%). F/S includes 337 Social Development studies (41.9% of total F/S), 188 Agriculture, Forestry and Fishery Development studies (23.4%), and 272 Mining and Industrial Development studies (33.8%). M/P + F/S include 337 Social Development studies, which account for 82.2% of the total of this category, and 71 Agriculture, Forestry and Fishery Development studies (17.3%), and 1 Mining and Industrial Development studies (0.2%). Social development is the largest sector in all types of study.

Regarding the study types of M/P + F/S, F/S, and D/D, the Transportation is the largest sub-sector. As shown in the Table 3-6, the Transportation studies are mostly related to the studies on the hard oriented infrastructure.

As a nature of each study, the basic study focuses on social infrastructures, and the Chinese Factory Modernization Studies focuses on industrial studies.

					M/P	M	/P+F/S		F/S		D/D	Basi	c Studies		se Factory tudies		Other udies*1	Т	otal
	Planni Admir	ng & nistrati	on	111	(14.3%)	19	(4.6%)	1	(0.1%)	0	(0.0%)	0	(0.0%)	0	(0.0%)	4	(5.2%)	135	(5.7%)
		Public	: Utilities	17	(2.2%)	75	(18.3%)	40	(5.0%)	7	(16.7%)	1	(0.8%)	0	(0.0%)	0	(0.0%)	140	(5.9%)
			Road	23	(3.0%)	24	(5.9%)	88	(10.9%)	10	(23.8%)	2	(1.5%)	0	(0.0%)	5	(6.5%)	152	(6.4%)
	ties	ttion	Railways	11	(1.5%)	6	(1.5%)	32	(4.0%)	2	(4.8%)	1	(0.8%)	0	(0.0%)	6	(6.6%)	58	(2.5%)
	& Utilities	Transportation	Port	15	(1.9%)	53	(12.9%)	32	(4.0%)	4	(9.5%)	0	(0.0%)	0	(0.0%)	5	(6.5%)	109	(4.6%)
at	rks &	Tran	Others	62	(8.0%)	38	(9.3%)	50	(6.2%)	6	(14.3%)	2	(1.5%)	0	(0.0%)	7	(9.1%)	165	(7.0%)
opmeı	Public works		Sub-total	111	(14.3%)	121	(29.5%)	202	(25.1%)	22	(52.4%)	5	(3.8%)	0	(0.0%)	23	(29.9%)	484	(20.5%)
Social Development	Pub	Social Infras	tructure	80	(10.3%)	87	(21.2%)	55	(6.8%)	5	(11.9%)	68	(51.9%)	0	(0.0%)	11	(14.3%)	306	(13.0%)
ocial I			nunication & casting	16	(2.1%)	15	(3.7%)	36	(4.5%)	3	(7.1%)	2	(1.5%)	0	(0.0%)	0	(0.0%)	72	(3.1%)
š		Sub-te	otal	224	(28.9%)	298	(72.7%)	333	(41.4%)	37	(88.1%)	76	(58.0%)	0	(0.0%)	34	(44.2%)	1,002	(42.5%)
	Comm	herce &	z Tourism	10	(1.3%)	10	(2.4%)	3	(0.4%)	1	(2.4%)	0	(0.0%)	0	(0.0%)	1	(1.3%)	25	(1.1%)
	Huma Manag			16	(2.1%)	2	(0.5%)	0	(0.0%)	0	(0.0%)	0	(0.0%)	0	(0.0%)	1	(1.3%)	19	(0.8%)
	Public Care	Healt	h & Medical	11	(1.4%)	0	(0.0%)	0	(0.0%)	0	(0.0%)	1	(0.8%)	0	(0.0%)	0	(0.0%)	12	(0.5%)
	Social	Welfa	re	13	(1.7%)	8	(2.0%)	0	(0.0%)	0	(0.0%)	0	(0.0%)	0	(0.0%)	0	(0.0%)	21	(0.9%)
	Sub-to	otal		385	(49.6%)	337	(82.2%)	337	(41.9%)	38	(90.5%)	77	(58.8%)	0	(0.0%)	40	(51.9%)	1,214	(51.5%)
y & ent	ture, Fishery	Agric	ulture	93	(12.0%)	58	(14.1%)	170	(21.1%)	3	(7.1%)	8	(6.1%)	0	(0.0%)	2	(2.6%)	334	(14.2%)
Agriculture, Forestry & Fishery Development	Agriculture, estry & Fish	Lives	lock	0	(0.0%)	1	(0.2%)	1	(0.1%)	0	(0.0%)	0	(0.0%)	0	(0.0%)	0	(0.0%)	2	(0.1%)
ure, Fa	Agrice Forestry	Fores	try	21	(2.7%)	5	(1.2%)	10	(1.2%)	0	(0.0%)	16	(12.2%)	0	(0.0%)	2	(2.6%)	54	(2.3%)
ricultu shery	For	Fishe	ry	9	(1.2%)	7	(1.7%)	7	(0.9%)	1	(2.4%)	12	(9.2%)	0	(0.0%)	2	(2.6%)	38	(1.6%)
Agi Fi	Sub-to	otal		123	(15.9%)	71	(17.3%)	188	(23.4%)	4	(9.5%)	36	(27.5%)	0	(0.0%)	6	(7.8%)	428	(18.2%)
strial nt	& y	Minir	g	18	(2.3%)	0	(0.0%)	10	(1.2%)	0	(0.0%)	4	(3.1%)	0	(0.0%)	1	(1.3%)	33	(1.4%)
Mining & Industrial Development	Mining & Industry	Indus	iry	103	(13.3%)	0	(0.0%)	92	(11.4%)	0	(0.0%)	0	(0.0%)	115	(98.3%)	10	(13.0%)	320	(13.6%)
ing & Jeveld	MI	sub-to	otal	121	(15.6%)	0	(0.0%)	102	(12.7%)	0	(0.0%)	4	(3.1%)	115	(98.3%)	11	(14.3%)	353	(15.0%)
Min L	Energ	у		104	(13.4%)	1	(0.2%)	170	(21.1%)	0	(0.0%)	13	(9.9%)	0	(0.0%)	10	(13.0%)	298	(12.6%)
	Sub-to	otal		225	(29.0%)	1	(0.2%)	272	(33.8%)	0	(0.0%)	17	(13.0%)	115	(98.3%)	21	(27.3%)	651	(27.6%)
Others	s *2			43	(5.5%)	1	(0.2%)	8	(1.0%)	0	(0.0%)	1	(0.8%)	2	(1.7%)	10	10 (13.0%) 65		(2.8%)
Total				776	(100.0%)	410	(100.0%)	805	(100.0%)	42	(100.0%)	131	(100.0%)	117	(100.0%)	77	(100.0%)	2,358	(100.0%)

Table3-6 Number of Development Study by Sector and Type of Study

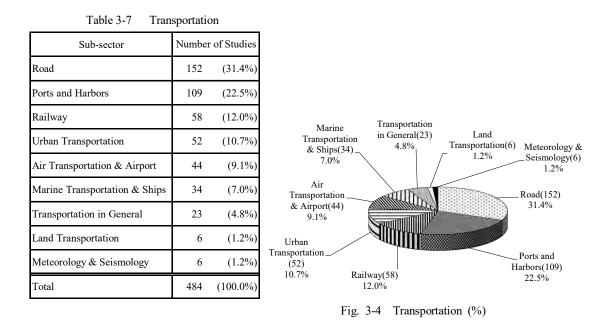
*1 "Others" is a combination of "Other Studies" from Social Development and Agriculture, Forestry and Fisheries Development studies, and "Other (M/P-type and F/S-type) studies" from Mining and Industrial Development studies.

*2 "Others" consists of 6 Social Development and 59 Mining and Industrial Development studies.(M/P:3, M/P+F/S:1, F/S:1, Basic Study:1)

3.1.4.2 Trends in Major Sub-sectors

(1) Transportation

The Transportation sub-sector is further classified into 9 sub-sub-sectors, with 484 studies conducted over the last 40 years. There are particularly large numbers of studies in 3 sub-sub-sectors: 152 studies in Road (31.4%); 109 in Ports (22.5%); and 58 in Railway (12.0%). These 3 sub-sub-sectors account for more than 65% of the total studies in this sub-sector. The Urban Transportation and the Air Transportation & Airport sub-sub-sectors follow these with 52 and 44 studies respectively.



(2) Social Infrastructure

The Social Infrastructure sub-sector comprises 6 sub-sub-sectors, with 306 studies conducted in the last 40 years. Among these sub-sectors, the studies are concentrated in two sub-sub-sectors: 121 in the Water Resources development (39.5%) and 86 in the River & Erosion Control (228.1%). These two sub-sub-sectors account for about nearly 70.0% of the total studies in this sub-sector.

Table 3-8 Social Infrastructure

Sub-sector	Number o	f Studies
Water Resource Management	121	(39.5%)
River & Erosion Control	86	(28.1%)
Survey & Mapping	53	(17.3%)
Urban Planning & Land Developmer	24	(7.8%)
Architecture & Housing	10	(3.3%)
(Social Infrastructure in)General	12	(3.9%)
total	306	(100.0%)

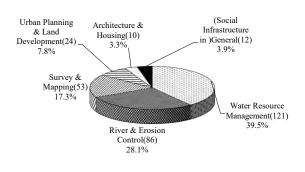


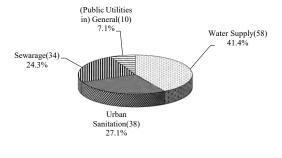
Fig. 3-5 Social Infrastructure (%)

(3) Public Utilities

The Public Utilities sub-sector is divided into 4 sub-sub-sectors, with 140 studies carried out over the last 40 years. There are 58 studies (41.4%) in the Water Supply, 38 studies (27.1%) in the Urban Sanitation, and 34 studies (24.3%) in the Sewerage.

Table 3-9 Public Utilities

Sub-sector	Number	of Studies
Water Supply	58	(41.4%)
Urban Sanitation	38	(27.1%)
Sewarage	34	(24.3%)
(Public Utilities in) General	10	(7.1%)
Total	140	(100.0%)





(4) Agriculture

T

Sericulture

Total

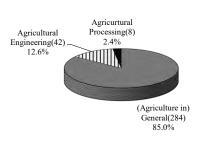
Agriculturaql Machinery

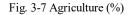
Increase of Food Production

The Agriculture sub-sector is classified into 6 sub-sub-sectors. Over the last 40 years, 334 studies have been conducted, of which 284 (85.0% of the Agriculture sub-sector) are in the Agriculture in General. No study has been carried out in the Sericulture, the Increase of Food Production, and the Agricultural Machinery sub-sub-sectors.

Table 3-10 Agri	culture	
Sub-sector	Number of	of Studies
(Agriculture in) General	284	(85.0%)
Agricultural Engineering	42	(12.6%)
Agricurtural Processing	8	(2.4%)

able 3-10 Agriculture





(5) Livestock

The Livestock sub-sector is classified into 3 sub-sub-sectors. Over the last 40 years, only 2 studies (one in the Livestock and one in the Livestock Processing) have been conducted. (Table 3-11)

(0.0%)

(0.0%)

(0.0%)

(100.0%)

0

0

0

334

(6) Forestry

The Forestry sub-sector is divided into 2 sub-sub-sectors. All 54 studies in the Forestry sub-sector over the last 40 years are classified under the Forestry & Forestry Conservation. (Table 3-11)

(7) Fishery

The Fishery sub-sector is also composed of 2 sub-sub-sectors. All 38 studies in the last 40 years are categorized in the Fishery sub-sub-sector, and no study has been conducted in the Fishery Processing. (Table 3-11)

Table 3-11 Livestock, Forestry, and Fishery

		Live	stock			Forestry			Fishery	
Sector	Livestock	Livestock Processing	Livestock Hygiene	Sub-total	Forestry, Forest Conservatio	Forestry Processing	Sub-total	Fishery	Fishery Processing	Sub-total
Number or	1	1	0	2	54	0	54	38	0	38
Studies	(50.0%)	(50.0%)	(0.0%)	(100.0%)	(100.0%)	(0.0%)	(100.0%)	(100.0%)	(0.0%)	(100.0%)

(8) Industry

Over the last 40 years, 320 studies have been carried out in the Industry sub-sector. There are large number of studies in 3 sub-sub-sectors: 102 studies in the Industry in General (31.9% of the total), 81 in the Machine Industry (25.3%) and 60 in the Chemical Industry (18.8%). These 3 sub-sub-sectors account for about 75% of the total studies in this sub-sector.

Table3	-12 Indu	ustry
Sub-sector	Number	of Studies
(Industry in) General	102	(31.9%)
Machine Industry	81	(25.3%)
Chemical Industry	60	(18.8%)
Other Industries	46	(14.4%)
Steel & Nonferous Metals	31	(9.7%)
Textile Industry	0	(0.0%)
Pulp & Forestry Products	0	(0.0%)
Food Industry	0	(0.0%)
Total	320	(100.0%)

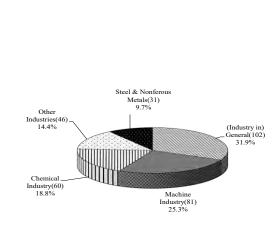


Fig. 3-8 Industry (%)

(9) Mining

Mining is the only sub-sub sector in this sector and 33 studies have been carried out over the last 40 years.

Table 3-13 Mining									
Sub-sector	Number o	of Studies							
Mining	33	(100.0%)							
Total	33	(100.0%)							

(10) Energy

The Energy sub-sector comprises 5 sub-sub-sectors. Over the last 40 years, 298 studies have been conducted. Among them, 168 studies (56.4%) were carried out in the Electric Power sub-sub-sector, and 66 studies in the Energy in General (22.1%) and 29 studies in the Gas and Oil (9.7%).

Table 3-14	Energy
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Sub-sector	Number	r of Studies
Electric Power	168	(56.4%)
(Energy in) General	66	(22.1%)
Gas & Oil	29	(9.7%)
New & Recycled Energy	35	(11.7%)
Other Energies	0	(0.0%)
Total	298	(100.0%)

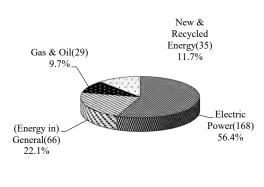


Fig. 3-9 Energy (%)

3.1.4.3 Study Expense

Table 3-15 shows study expenses since FY2003. The number of studies completed and study expenses had considerably decreased since FY2003. On the other hand, the average study expenses have been around 300 million yen and fell to less than 300 million yen in 2007, and about 250 million yen in 2008, which show the trend of scale-down¹.

			(Unit:1,000JPY)
Year	Number of Studies	Expense	Avg. Expense
2003	59	18,589,164	315,071
2004	42	16,710,526	397,870
2005	60	23,148,795	385,813
2006	50	15,285,254	305,705
2007	46	13,512,404	293,748
2008	60	15,197,730	253,296
2009 ※	29	4,535,848	156,409
2010	20	6,117,420	305,871
2011	11	2,117,835	192,530
2012	1	144,464	144,464
2013	2	232,000	116,000
2014	2	217,233	108,617
Total	382	115,808,673	303,164

Table 3-15 Sum and Average Study Expense by Region and Sub-sector

% Regarding 9 out of 29 studies completed in FY2009, there is no information on survey expenses.

¹Since information of study expenses is missing for a few projects, "Expense" in Table 3-15 shows only accumulated figures. Therefore, "Avg. Expense" might not show accurate figures. However, "Avg. Expense" gives a rough picture of chronological changes in the past 7 years.

3.2 Overview of M/P Studies Group

Based on Table 1-6 "Status for M/P Studies Group", the present status of the utilization of development studies in the M/P studies group is classified into 3 categories: "In Progress or In Use", "Delayed", and "Discontinued or Cancelled".

The studies in the M/P studies group are evaluated by "utilization rate," which is calculated as "(the number of studies in progress or in use) / (the total number of studies) X 100". They are classified into "In Progress or In Use" if 1) a proposed project has been either implemented or completed after the fund(s) have been procured, or 2) the study findings are incorporated into the development policy or plan of the recipient country.

Out of 2,358 completed development studies, 1,092 studies are in the M/P studies group. Regarding completed studies, 472 out of 507 studies in the M/P studies group of the Social Development area are classified as "In Progress or In Use" and the utilization rate is 93.1%. In the Agriculture, Forestry and Fishery Development area, 153 out of 164 completed studies are classified as "In Progress or In Use" (the utilization rate 93.3%). In the Mining and Industry Development area, 353 out of 421 studies are "In Progress or In Use" (83.8%).

It can be concluded that the results of the development studies have been well utilized by recipient countries.

Present Status	Social Development	Agriculture, Forestry and Fisheries	Mining and Industrial Development	Total
In Progress or In Use	472	153	353	978
(Utilization Rate)	(93.1%)	(93.3%)	(83.8%)	(89.6%)
Delayed	15	8	45	68
(Rate)	(3.0%)	(4.9%)	(10.7%)	(6.2%)
Discontinued or Cancelled	19	3	22	44
(Rate)	(3.7%)	(1.8%)	(5.2%)	(4.0%)
Unknown	(100.0%)	(0.0%)	(100.0%)	(200.0%)
(Rate)	(0.2%)	(0.0%)	(0.2%)	(0.2%)
Total	507	164	421	1,092
(Rate)	(100.0%)	(100.0%)	(100.0%)	(100.0%)

Table 3-16 Utilization Rate by Category of Development Study

3.2.1 Utilization Rates by Region

In this section, the utilization rate is analyzed by region. In reviewing the utilization rate for the M/P studies and others by regions, Europe shows the highest rate though the number of studies itself are small. Following this, the utilization rate in the ASEAN region is 93.5%. Furthermore, the Central and South America, the rate is 89.6% followed by Africa (87.7%), Asia excluding ASEAN (85.9%) and Middle East (85.6%).

The rates of Oceania, Europe, and multiple countries need to be carefully examined for their sensitive fluctuation extent of utilization rate due to the small number of completed studies.

Table 3-17 Utilization Rate by Region

Present Status		Asia Other	a 1 1	Middle East	Africa	Central & South	Oceania	Europe	Mulyiple Countries	Total
	ASEAN	Asia	Sub total			America			Countries	
In Progress or In Use	331	219	550	95	135	147	12	31	8	978
(Utilization Rate)	(93.5%)	(85.9%)	(90.3%)	(85.6%)	(87.7%)	(89.6%)	(92.3%)	(93.9%)	(100.0%)	(89.6%)
Delayed	10	29	39	8	10	9	0	2	0	68
(Rate)	(2.8%)	(11.4%)	(6.4%)	(7.2%)	(6.5%)	(5.5%)	(0.0%)	(6.1%)	(0.0%)	(6.2%)
Discontinued or Cancelled	13	6	19	7	9	8	1	0	0	44
(Rate)	(3.7%)	(2.4%)	(3.1%)	(6.3%)	(5.8%)	(4.9%)	(7.7%)	(0.0%)	(0.0%)	(4.0%)
Unknown	0	1	1	1	0	0	0	0	0	2
(Rate)	(0.0%)	(0.3%)	(0.3%)	(0.3%)	(0.0%)	(0.0%)	(0.0%)	(0.0%)	(0.0%)	(0.6%)
Total	354	255	609	111	154	164	13	33	8	1,092

3.2.2 Utilization Rates by Country

As shown in the Table 3-17, the utilization rate of M/P Studies Group in the ASEAN region is 93.5%, which is the second highest of all the regions and the highest in the principal regions. The countries, which completed more than 10 M/P Studies Group in ASEAN and their utilization rates are; Indonesia (106 completed M/P Studies Group, the utilization rate of 95.3%), Philippines (76, 89.5%), Thailand (61, 93.4%), Malaysia (34, 94.1%), Vietnam (34, 100.0%), Laos (15, 100.0%), and Cambodia (16, 87.5%).

The 21 countries, which completed more than 10 M/P Studies Group in other region and their utilization rates, are as follows: It should be remarked that the utilization rate of most countries listed above is over 85%. There are no countries that have completed more than 10 M/P Studies Group in Oceania, Europe, and Multiple Countries.

Asia excluding ASEAN:

China (152 completed M/P Studies Group, the utilization rate of 82.8%), Sri Lanka (22, 100.0%), Mongolia (13, 92.3%), Nepal (12, 91.7%), Pakistan (10, 90.0%)

Middle East:

Oman (17, 82.4%), Egypt (13, 92.3%), Iran (13, 100.0%), Tunisia (10, 90.0%), Turkey (10, 80.0%)

Africa:

Kenya (18, 94.4%), Tanzania (21, 90.5%), Malawi (11, 90.9%), Zambia (10, 100.0%) Central and South America:

Mexico (18, 83.3%), Colombia (17, 82.4%), Brazil (15, 86.7%), Paraguay (14, 92.9%), Argentina (15, 100%), Bolivia (14, 92.9%), Chili (11, 100.0%)

3.2.3 Utilization Rates by Study Type

For M/P, 707 out of 776 studies are well utilized, and the utilization rate is 91.9%, which is the highest in the M/P Studies Group. For the Basic Studies, 120 out of 131 studies are "In Progress or In Use" (91.6%). The utilization rate for the Chinese Factory Study is 79.5%, and the rate for other

studies is 85.3%. Thus, it can be concluded that the results of the development studies have been well utilized in all types of study.

Present Status	M/P	Basic Study	Chinese Factory Studies	Others *	Total
In Progress or In Use	707	120	93	58	978
(Utilization Rate)	(91.1%)	(91.6%)	(79.5%)	(85.3%)	(89.6%)
Delayed	40	5	21	2	68
(Rate)	(5.2%)	(3.8%)	(17.9%)	(2.9%)	(6.2%)
Discontinued or Cancelled	27	6	3	8	44
(Rate)	(3.5%)	(4.6%)	(2.6%)	(11.8%)	(4.0%)
Unknown	2	0	0	0	2
(Rate)	(0.3%)	(0.0%)	(0.0%)	(0.0%)	(0.2%)
Total	776	131	117	68	1,092

Table 3-18 Utilization Rate by Study Type

* Others consist of "Other Studies" from Social Development, Agriculture, Forestry and Fishery Development, and Mining and Industrial Development studies; and "Other (M/P-type) Studies" from Mining and Industrial Development studies.

3.2.4 Utilization Rates by Sector

As shown in the Table 3-19, out of 1,092 completed studies in the M/P Studies Group, 502 are in the Social Development area, 165 are in the Agriculture, Forestry and Fishery Development area, 369 are in the Mining and Industrial Development area and 56 are in the Others area. The utilization rates are 93.0%, 93.3%, 82.7%, and 92.9% respectively.

For the Public Works and Utilities sector, which is the largest sector in the Social Infrastructure area, 305 out of 334 studies are " In Progress or In use" (the utilization rate of 91.3%). For the Agriculture, Forestry, and Fishery sector in the Agriculture, Forestry, and Fishery Development area, 154 out of 165 studies are " In Progress or In use" (the utilization rate of 93.3%). For the Mining and Industrial in the Mining and Industrial Development area, 205 out of 248 studies are " In Progress or In use" (the utilization rate of 82.7%), which is slightly lower than other sector.

In the Social Infrastructure sub-sector, which is the largest sub-sector of the Social Development area, 143 out of 159 studies are "In Progress or In Use" (the utilization rate of 89.9%). In the Agriculture sub-sector, 97 of 103 studies are "In Progress or In Use" (94.2%). The largest sub-sector in the Mining and Industrial development area is the Industry sub-sector where 184 out of 225 studies are "In Progress or In Use" with the utilization rate of 81.8%. This is slightly lower than the other sectors, as the comparison at the level of large sector.

		Social Development													
	_				Public '	Works & U	Itilities								
	& tion	es		Tı	ansportatio	on		e	ng		_	ent	ne ne	fare	-
Present Status	Planning & Administration	Public Utilities	Road	Railways	Port	Others	Sub-total	Social Infrastructure	Communication & Broadcasting	Sub-total	Tourism	Human Resource Development	Public Health & Medicine	Social Welfare	Sub-total
In Progress or In Use	111	17	29	17	17	65	128	143	17	305	10	17	12	12	467
(Utilization Rate)	(96.5%)	(94.4%)	(96.7%)	(94.4%)	(85.0%)	(91.5%)	(92.1%)	(89.9%)	(94.4%)	(91.3%)	(90.9%)	(100.0%)	(100.0%)	(92.3%)	(93.0%)
Delayed	3	1	0	0	1	3	4	6	0	11	1	0	0	0	15
(Rate)	(2.6%)	(5.6%)	(0.0%)	(0.0%)	(5.0%)	(4.2%)	(2.9%)	(3.8%)	(0.0%)	(3.3%)	(9.1%)	(0.0%)	(0.0%)	(0.0%)	(3.0%)
Discontinued or Cancelled	1	0	1	1	2	3	7	10	1	18	0	0	0	0	19
(Rate)	(0.9%)	(0.0%)	(3.3%)	(5.6%)	(10.0%)	(4.2%)	(5.0%)	(6.3%)	(5.6%)	(5.4%)	(0.0%)	(0.0%)	(0.0%)	(0.0%)	(3.8%)
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
(Rate)	(0.0%)	(0.0%)	(0.0%)	(0.0%)	(0.0%)	(0.0%)	(0.0%)	(0.0%)	(0.0%)	(0.0%)	(0.0%)	(0.0%)	(0.0%)	(7.7%)	(0.2%)
Total	115	18	30	18	20	71	139	159	18	334	11	17	12	13	502
	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)
	Agricul	lture, Fore	stry & Fish	ery Develo	opment]	Mining & I	ndustry De	evelopmen	t			[
	Agric	ulture, Fo	restry & Fi	shery	-	Min	ing & Indu	istry	-						
Present Status	Agriculture	Livestock	Forestry	Fishery	Sub-total	Mining	Industry	Sub-total	Energy	Sub-total	Others *	Total			
In Progress or In Use	97	0	36	21	154	21	184	205	100	305	52	978			
(Utilization Rate)	(94.2%)	(-)	(92.3%)	(91.3%)	(93.3%)	(91.3%)	(81.8%)	(82.7%)	(82.6%)	(82.7%)	(92.9%)	89.6%			
Delayed	6	0	2	0	8	1	30	31	12	43	2	68			
(Rate)	(5.8%)	(-)	(5.1%)	(0.0%)	(4.8%)	(4.3%)	(13.3%)	(12.5%)	(9.9%)	· /	(3.6%)	(6.2%)			
Discontinued or Cancelled	0	0	1	2	3	1	11	12	8	20	2	44			
(Rate)	(0.0%)	(-)	(2.6%)	(8.7%)	(1.8%)	(4.3%)	(4.9%)	(4.8%)	(6.6%)	(5.4%)	(3.6%)	(4.0%)			
Unknown	0	0	0	0	0	0	0	0	1	1	0	2			
(Rate)	(0.0%)	(-)	(0.0%)	(0.0%)	(0.0%)	(0.0%)	(0.0%)	(0.0%)	(0.8%)	(0.3%)	(0.0%)	(0.2%)			
Total	103 (100.0%)	0	39	23 (100.0%)	165	23	225	248	121	369	56	1,092			

Table 3-19 Utilization Rate by Sector

3.3 Overview of F/S Group

Based on Table 1-7 "Status for F/S Group", the status of development studies in the F/S group is classified into 4 categories; "Completed or in Progress", "Under Promotion", "Delayed", and "Discontinued or Cancelled".

The studies in the F/S Group are evaluated by the "realization rate". The realization rate is calculated as the rate of projects either completed or being implemented against all the proposed projects.

Out of the total 2,358 development studies completed, 1,266 studies are classified as the F/S Group. In the Social Development area, the 522 of 714 studies are "Completed or In Progress" with the realization rate of 73.1%. In the Agriculture, Forestry and Fishery development area, the 166 out of 263 studies are "Completed or In Progress" with the realization rate of 63.1%. In the Mining and Industry development area, the 121 out of 289 studies are "Completed or In Progress" with the realization rate of 41.9%.

	Present Status	Social Development	Agriculture, Forestry and Fisheries Development	Mining and Industrial Development	Total
	Completed	183	61	70	314
l or ss	Partially Implemented	163	50	16	229
etec	Under Implementation	132	42	19	193
Completed or In Progress	In Process	44	13	16	73
P C	Sub-Total	522	166	121	809
	(Rate of Realization)	(73.1%)	(63.1%)	(41.9%)	(63.9%)
Under	Promotion	89	47	27	163
	(Rate)	(12.5%)	(17.9%)	(9.3%)	(12.9%)
Delaye	ed .	48	21	89	158
	(Rate)	(6.7%)	(8.0%)	(30.8%)	(12.5%)
Discon	tinued or Cancelled	55	29	52	136
(Rate)		(7.7%)	(11.0%)	(18.0%)	(10.7%)
	Total	714	263	289	1,266
	10(41	(100.0%)	(100.0%)	(100.0%)	(100.0%)

Table 3-20 Realization Rate by Sector

3.3.1 Realization Rates by Region

The realization rate in Asia is 68.0%, which is higher than the average utilization rate of 63.9% of all studies in the F/S Group. Asia shows high realization rate as is evident from 67.5% in ASEAN and 69.0% in Asia excluding ASEAN. In other principal regions, the Middle East shows 67.1%, which is as almost same as Asia. On the other hand, Africa (54.2%), and Central and South America (53.5%) show lower rate by 15 points compared to Asia.

Looking into the un-realized studies in Africa and Central and South America, the rate for "Delayed" in Africa is more than 8 points higher than the average rate while the rate for "Under Promotion" in Central and South America is more than 6 points higher. Therefore, it is possible to foresee that more un-realized studies in Central and South America may shortly shift to the realized-one more than in Africa in the future, even though the current realization rate of Africa is higher than Central and South America.

The realization rates of Oceania, Europe, and multiple countries are not analyzed because few development studies have been conducted in these regions.

			Asia				Central &			M K 1	
	Present Status	ASEAN	Other Asia	Sub-total	Middle East	Africa	South America	Oceania	Europe	Multiple Countries	Total
	Completed	157	57	214	29	37	29	4	1	0	314
ss I	Partially Implemented	92	46	138	29	18	33	3	7	1	229
Completed In Progres	Under Implementation	78	40	118	28	10	28	1	6	2	193
Prc Prc	In Process	28	13	41	12	6	10	0	3	1	73
In Cor	Sub-Total	355	156	511	98	71	100	8	17	4	809
	(Rate of Realization)	(67.5%)	(69.0%)	(68.0%)	(67.1%)	(54.2%)	(53.5%)	(44.4%)	(63.0%)	(80.0%)	(63.9%)
Under	Promotion	57	29	86	16	18	36	3	4	0	163
	(Rate)	(10.8%)	(12.8%)	(11.4%)	(11.0%)	(13.7%)	(19.3%)	(16.7%)	(14.8%)	(0.0%)	(12.9%)
Delaye	ed	47	27	74	22	27	26	3	6	0	158
	(Rate)	(8.9%)	(11.9%)	(9.8%)	(15.1%)	(20.6%)	(13.9%)	(16.7%)	(22.2%)	(0.0%)	(12.5%)
Discor	ntinued or Cancelled	67	14	81	10	15	25	4	0	1	136
(Rate)		(12.7%)	(6.2%)	(10.8%)	(6.8%)	(11.5%)	(13.4%)	(22.2%)	(0.0%)	(20.0%)	(10.7%)
	Total	526	226	752	146	131	187	18	27	5	1,266
	10(a)	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)

Table 3-21 Realization Rate by Region

3.3.2 Realization Rates by Country

As shown in the Table 3-21, the realization rate of F/S Group in the ASEAN region is 67.5%, which is the highest of all the regions. The countries, which completed more than 10 F/S Group in ASEAN and their realization rates are; Indonesia (174 completed F/S Group, the realization rate of 64.4%), Philippines (114, 64.0%), Thailand (104, 71.2%), Malaysia (51, 64.7%), Vietnam (31, 80.6%), Cambodia (19, 84.2%), Laos (16, 81.3%), and Myanmar (13, 53.8%).

The countries, which completed more than 10 F/S Group in other region and their realization rates, are as follows:

Asia excluding ASEAN:

China (55 completed F/S Group, the realization rate of 76.4%), Bangladesh (29, 69.0%), Sri Lanka (31, 77.4%), Pakistan (25, 56.0%), Nepal (26, 57.7%), India (19, 52.6%), Mongolia (12, 91.7%),

Middle East:

Egypt (42, 73.8%), Turkey (21, 61.9%), Syria (11, 63.6%)

Africa:

Tanzania (22, 72.7%), Kenya (18, 50.0%)

Central and South America:

Bolivia (17, 64.7%), Paraguay (13,76.9%), Brazil (14, 64.3%), Peru (13, 46.2%), Guatemala (12, 58.3%), Mexico (12, 58.3%), Colombia (12, 58.3%), Dominican Republic (11, 72.7%), Honduras (11, 36.4%), Ecuador (10, 30.0%), Panama (10, 60.0%)

3.3.3 Realization Rates by Study Type

Out of 42 D/D studies, 33 study have been classified as "Completed or In Progress" with the realization rate of 78.6%, which is the highest in the F/S Group. Due to the nature of D/D studies, such as producing detailed designs for project implementations, the realization rate is relatively high.

Out of 410 M/P + F/S, 295 studies are "Completed or In Progress" with the realization rate of 72.0%. Also, the rage of "Under Promotion" of M/P+F/S is 18.5% which is 5.6 points higher than the average rate of its F/S Group (12.9%).

Out of 814 completed F/S, 481 studies are "Completed or In Progress" with the realization rate of 59.1%. The rate of "Discontinued or Cancelled" of F/S is relatively high. This has leaded to increase the average rate of "Discontinued or Cancelled" of F/S Group as a whole.

	Present Status	M/P+F/S	F/S*	D/D	Total
	Completed	57	247	10	314
ss or	Partially Implemented	119	102	8	229
Completed or In Progress	Under Implementation	90	92	11	193
mpl Prc	In Process	29	40	4	73
ч С	Sub-Total	295	481	33	809
	(Rate of Realization)	(72.0%)	(59.1%)	(78.6%)	(63.9%)
Under	Promotion	76	82	5	163
	(Rate)	(18.5%)	(10.1%)	(11.9%)	(12.9%)
Delaye	d	31	124	3	158
	(Rate)	(7.6%)	(15.2%)	(7.1%)	(12.5%)
Discon	tinued or Cancelled	8	127	1	136
	(Rate)	(2.0%)	(15.6%)	(2.4%)	(10.7%)
	Total	410	814	42	1,266
	10(4)	(100.0%)	(100.0%)	(100.0%)	(100.0%)

Table 3-22 Realization Rate by Type of Study

*The category F/S includes "Other (F/S-type)" of Mining and Industrial Development studies.

3.3.4 Realization Rates by Sector

As shown in the Table 3-23, out of 1,266 completed studies in the F/S Group, 712 studies are in the Social Development area, 263 are in the Agriculture, Forestry and Fishery Development area, 282 are in the Mining and Industrial Development area and 9 are in the Others area. The realization rates are 73.0%, 63.1%, 42.2%, and 44.4% respectively.

For the Public Works and Utilities sector, which is the largest sector in the Social Infrastructure area, 487 out of 668 studies are classified as "Completed or in Progress" (the realization rate of 72.9%). For the Agriculture, Forestry, and Fishery sector in the Agriculture, Forestry, and Fishery Development area, 166 out of 263 studies are classified as "Completed or in Progress" (the realization rate of 63.1%). For the Mining and Industrial in the Mining and Industrial Development area, 78 out of 177 studies are "Completed or in Progress" (the realization rate of 44.1%).

Looking at the studies of all the sub-sectors in which more than 50 studies conducted, the realization rate of each sub-sector are; the Communications and Broadcasting sub-sector has the

highest realization rate of 85.2%, followed by the Public Works and Utilities (75.4%), the Transportation (72.2%), the Social Infrastructure (68.0%), the Agriculture (63.2%).

The realization rate of the Social Infrastructure area is 73.0% that is nearly 9 points higher than the average rate of the F/S Group. On the other hand, the realization rate of Forestry, and Fishery Development area and the Mining and Industrial Development area are 63.1% and 42.2% respectively, which are lower than the Social Infrastructure area. It is expected that many of studies classified as "Under Promotion" in Forestry, and Fishery Development area may shortly shift to the "Progress" category.

$ \begin{array}{ c $	1								Seci	al Develop	ment						
$ \frac{1}{2} = \frac{1}{2} + 1$							Public	Works & I		ii Develop	ment						
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			ion	s		Т			Junites		c 50			Ħ	e th	are	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		Present Status	Planning & Administrati	Public Utilitie	Road		,		Sub-total	Social Infrastructure	Communicatio & Broadcastin	Sub-total	Tourism	Human Resource Developme	Public Heal & Medicin	Social Welfa	Sub-total
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		Completed	2	26	38	10	19	21	88	29	37	180	1	1	0	0	184
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	s or	*	4			7	22				7		5	0	0	2	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	sted	~ 1	8			2	17	17			2	117	5	1	0	0	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Pro	In Process	1	5	8	2	7	5	22	13	0	40	1	0	0	2	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	II Co	Sub-Total	15	92	95	21	65	68	249	100	46	487	12	2	0	4	520
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		(Rate of Realization)	(75.0%)	(75.4%)	(77.9%)	(52.5%)	(73.0%)	(72.3%)	(72.2%)	(68.0%)	(85.2%)	(72.9%)	(85.7%)	(100.0%)	(-)	(50.0%)	(73.0%)
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Under	Promotion	4	17	12	7	16	8	43	22	1	83	0	0	0	2	89
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		(Rate)	(20.0%)	(13.9%)	(9.8%)	(17.5%)	(18.0%)	(8.5%)	(12.5%)	(15.0%)	(1.9%)	(12.4%)	(0.0%)	(0.0%)	(-)	(25.0%)	(12.5%)
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Delaye	ed .	1	11	7	1	0	7	15	17	1	44	1	0	0	2	48
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		(Rate)	(5.0%)	(9.0%)	(5.7%)	(2.5%)	(0.0%)	(7.4%)	(4.3%)	(11.6%)	(1.9%)	(6.6%)	(7.1%)	(0.0%)	(-)	(25.0%)	(6.7%)
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Discon	tinued or Cancelled	0	2	8	11	8	11	38	8	6	54	1	0	0	0	55
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		(Rate)	(0.0%)	(1.6%)	(6.6%)	(27.5%)	(9.0%)	(11.7%)	(11.0%)	(5.4%)	(11.1%)	(8.1%)	(7.1%)	(0.0%)	(-)	(0.0%)	(7.7%)
$ \begin{array}{ c c c c c c c c c c c c c$		Total	20	122	122	40	89	94	345	147	54	668	14	2	0	8	712
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		Total	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(-)	(100.0%)	(100.0%)
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			Agricut	ltura Fora	ter & Fick	any Daval	mont	1	Mining &	nductor D	valanman						
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			Ų		2	-	spinein		U		evelopmen						
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			Agric	unture, Fol	estry & Fi	shery		IVIIII									
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $									0	isu y							
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		Present Status	Agriculture	Livestock	Forestry	Fishery	Sub-total	Mining			Energy	Sub-total	Others *	Total			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$				_		Fishery		Mining 5	Industry	Sub-total			Others *				
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	l or ss	Completed	56	0	3	Fishery 5	61	mining 5	Industry 35	Sub-total	36	70	Others *03	315			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	leted or ogress	Completed Partially Implemented	56 43 36	0	3	Fishery 1	61 50	0 0 0 0 0 0	Altshipul 32 4	Sub-total	36 10 16	70	Others * 0 0 3 1	315 228			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	mpleted or 1 Progress	Completed Partially Implemented Under Implementation In Process	56 43 36 11	0 0 0	3 2 5 1	2 5 1 1	61 50 42 13	биния 0 0 0 0 0 0 0 0 0	Kıtısınpul 32 4 3 0	Sub-total 34 4 0	36 10 16 16	70 14 19 16	Others * 0 0 3 1 0	315 228 193 73			
(Rate) (17.3%) (50.0%) (6.7%) (33.3%) (17.9%) (0.0%) (6.3%) (5.7%) (10.7%) (8.9%) (22.2%) (12.9%) Delayed 19 0 2 0 21 4 25 29 58 87 2 158 (Rate) (8.2%) (0.0%) (13.3%) (0.0%) (40.0%) (26.3%) (27.6%) (32.8%) (30.9%) (22.2%) (12.5%) Discontinued or Cancelled 26 1 1 29 4 25 29 22 51 1 136 (Rate) (11.3%) (50.0%) (6.7%) (11.0%) (40.0%) (26.3%) (27.6%) (12.4%) (18.1%) (11.1%) (10.7%) Total 231 2 15 15 263 10 95 105 177 282 9 1,266	Completed or In Progress	Completed Partially Implemented Under Implementation In Process Sub-Total	56 43 36 11 146	0 0 0 0 0	3 2 5 1 11	2 5 1 1 9	61 50 42 13 166	2 0 0 0 2	Ålation 32 4 3 0 39	Sub-total 34 4 3 0 41	36 10 16 16 78	70 14 19 16 119	0 3 1 0 4	315 228 193 73 809			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	_	Completed Partially Implemented Under Implementation In Process Sub-Total (Rate of Realization)	56 43 36 11 146 (63.2%)	0 0 0 0 0	3 2 5 1 11	2 5 1 1 9	61 50 42 13 166 (63.1%)	2 0 0 0 2	Ålation 32 4 3 0 39	Sub-total 34 4 3 0 41	36 10 16 16 78 (44.1%)	70 14 19 16 119 (42.2%)	0 3 1 0 4	315 228 193 73 809 (63.9%)			
(Rate) (8.2%) (0.0%) (13.3%) (0.0%) (8.0%) (40.0%) (26.3%) (27.6%) (32.8%) (30.9%) (22.2%) (12.5%) Discontinued or Cancelled 26 1 1 129 4 25 29 22 51 1 136 (Rate) (11.3%) (50.0%) (6.7%) (11.0%) (40.0%) (26.3%) (27.6%) (12.4%) (18.1%) (11.1%) (10.7%) Total 231 2 15 15 263 10 95 105 177 282 9 1,266	_	Completed Partially Implemented Under Implementation In Process Sub-Total (Rate of Realization) Promotion	56 43 36 11 146 (63.2%) 40	0 0 0 0 0 0 (0.0%) 1	3 2 5 1 (73.3%) 1	2 5 1 1 (60.0%) 5	61 50 42 13 166 (63.1%) 47	2 0 0 0 2 (20.0%) 0	⁵ ⁵ ⁵ ⁶ ⁵ ⁶	Sub-total 34 4 0 0 41 41 6 6	36 10 16 16 78 (44.1%) 19	70 14 19 16 119 (42.2%) 25	0 3 1 0 4 (44.4%) 2	315 228 193 73 809 (63.9%) 163			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Under	Completed Partially Implemented Under Implementation In Process Sub-Total (Rate of Realization) Promotion (Rate)	56 43 36 11 146 (63.2%) 40 (17.3%)	0 0 0 0 0 0 (0.0%) 1	3 2 5 1 (73.3%) 1	2 5 1 1 (60.0%) 5	61 50 42 13 166 (63.1%) 47 (17.9%)	2 0 0 0 2 (20.0%) 0	хлзяриц 32 4 3 39 (41.1%) 6 (6.3%)	34 34 3 3 4 (39.0%) 6 (5.7%)	36 10 16 16 78 (44.1%) 19 (10.7%)	70 14 19 16 119 (42.2%) 25 (8.9%)	0 3 1 0 4 (44.4%) 2	315 228 193 73 809 (63.9%) 163 (12.9%)			
(Rate) (11.3%) (50.0%) (6.7%) (11.0%) (40.0%) (26.3%) (27.6%) (12.4%) (18.1%) (11.1%) (10.7%) Total 231 2 15 15 263 10 95 105 177 282 9 1,266	Under	Completed Partially Implemented Under Implementation In Process Sub-Total (Rate of Realization) Promotion (Rate) ed	56 43 36 11 146 (63.2%) 40 (17.3%) 19	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 2 5 1 (73.3%) 1 (6.7%) 2	2 5 1 (60.0%) 5 (33.3%) 0	61 50 42 13 166 (63.1%) 47 (17.9%) 21	2 0 0 (20.0%) (20.0%) 0 (0.0%) 4	Attstripul 32 4 33 (41.1%) 6 (6.3%) 25	Image: constraint of the state of	36 10 16 78 (44.1%) 19 (10.7%) 58	70 14 19 16 119 (42.2%) 25 (8.9%) 87	0 3 1 0 4 (44.4%) 2 (22.2%) 2	315 228 193 73 809 (63.9%) 163 (12.9%) 158			
Total 231 2 15 15 263 10 95 105 177 282 9 1,266	Under Delaye	Completed Partially Implemented Under Implementation In Process Sub-Total (Rate of Realization) Promotion (Rate) id (Rate)	56 43 36 11 146 (63.2%) 40 (17.3%) 19 (8.2%)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 2 5 1 (73.3%) 1 (6.7%) 2	2 5 1 (60.0%) 5 (33.3%) 0	61 50 42 13 166 (63.1%) 47 (17.9%) 21 (8.0%)	2 0 0 (20.0%) (20.0%) 0 (0.0%) 4	Attstripul 32 4 33 0 39 (41.1%) 6 (6.3%) 25 (26.3%)	Image: constraint of the second sec	36 10 16 16 (44.1%) 19 (10.7%) 58 (32.8%)	70 14 19 16 119 (42.2%) 25 (8.9%) 87 (30.9%)	0 3 1 0 4 (44.4%) 2 (22.2%) 2	315 228 193 73 809 (63.9%) 163 (12.9%) 158 (12.5%)			
Total	Under Delaye	Completed Partially Implemented Under Implementation In Process Sub-Total (Rate of Realization) Promotion (Rate) cd (Rate) ttinued or Cancelled	56 43 36 11 146 (63.2%) 40 (17.3%) 19 (8.2%) 26	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 2 5 1 (73.3%) 1 (6.7%) 2 (13.3%) 1	2 5 1 (60.0%) (60.0%) 5 (33.3%) 0 (0.0%) 1	61 50 42 13 166 (63.1%) 47 (17.9%) 21 (8.0%) 29	2 0 0 (20.0%) 0 (0.0%) 4 (40.0%) 4	Listipper 32 4 3 0 39 (41.1%) 6 (6.3%) 25 (26.3%) 25	34 34 4 3 0 (39.0%) (5.7%) 29 (27.6%) 29	36 10 16 (44.1%) 19 (10.7%) 58 (32.8%) 22	70 14 19 16 119 (42.2%) (42.2%) (42.2%) (42.2%) (51 (30.9%) 51	0 3 1 0 4 (44.4%) 2 (22.2%) 2 (22.2%) 1	315 228 193 73 809 (63.9%) 163 (12.9%) 158 (12.5%) 136			
	Under Delaye	Completed Partially Implemented Under Implementation In Process Sub-Total (Rate of Realization) Promotion (Rate) ed (Rate) ttinued or Cancelled (Rate)	56 43 36 11 146 (63.2%) 40 (17.3%) 19 (8.2%) 26 (11.3%)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 2 5 1 (73.3%) 1 (6.7%) 2 (13.3%) 1 (6.7%)	2 5 1 (60.0%) (60.0%) (33.3%) 0 (0.0%) 1 (6.7%)	61 50 42 13 166 (63.1%) 47 (17.9%) 21 (8.0%) 29 (11.0%)	2 0 0 2 (20.0%) 0 (0.0%) 4 (40.0%) 4 (40.0%)	Listingue 32 32 4 3 0 39 (41.1%) 6 (6.3%) 25 (26.3%) (25.3%)	34 34 4 3 0 (39.0%) (39.0%) (27.6%) 29 (27.6%)	36 10 16 (44.1%) 19 (10.7%) 58 (32.8%) 22 (12.4%)	70 14 19 (42.2%) (42.2%) (42.2%) (42.2%) (42.2%) (42.2%) (42.2%) (51) (18.1%)	0 3 1 0 4 (44.4%) 2 (22.2%) 2 (22.2%) 1	315 228 193 73 (63.9%) 163 (12.9%) 158 (12.5%) 136 (10.7%)			

Table 3-23 Realization Rate by Sector

* The nine studies classified as "Other" are all Mining and Industrial Development studies.

Chapter 4

Conclusions

CHAPTER 4. Conclusions

4.1 Entire Development Studies

In this follow-up study, analysis on situations after completion of the Development Study has been conducted, covering 2,358 Development Studies conducted from FY1974 to FY2014. Especially, this study has conducted questionnaire survey focusing on the studies completed in FY2005, FY2010, FY2012 and FY2014 under the jurisdiction of the Mining and Industrial development area, and the studies completed in FY2010 under the jurisdiction of the Social Development area, the Agriculture, Forestry and Fisheries area.

First of all, by sectors, majority of the studies are for the Social Development area, which count to 1,221 (51.8%) out of 2,358 studies in total. This is followed by studies in the Mining and Industrial Development area with 710 studies (30.1%), and the Agriculture, Forestry, and Fishery area with 427 studies (18.1%).

By regions, 1,361 studies (57.7%) out of 2,358 studies were conducted in Asia region, followed by Central and South American region with 351 studies (14.9%), and African region with 285 studies (12.1%). With JICA setting forth a policy to focus on African region, number of the Development Studies to be conducted is increasing in African region.

By the study types, 805 studies (34.1%) out of 2,358 studies are F/S followed by 776 M/P studies (32.9%). These 2 types of studies account for over two-thirds of all the Development Studies conducted. The above said studies are followed by M/P+F/S with 410 studies (17.4%) studies conducted. As these figures show, majority of the Development Studies conducted consists from F/S and M/P (and combination of both) studies. However, in recent years, number of F/S conducted has been decreasing. Therefore, in the near future, there is a possibility for the cumulative total number of M/P studies to overcome the number of F/S to be conducted.

By the field of the study, there are 484 studies (account for 20.5% of 2,358 studies in total) in the field of Transportation, 334 in Agriculture (14.2%), 320 in Industry (13.6%), 306 in Social Infrastructure (12.9%), and 298 in Energy (12.6%). The studies in these 5 sectors exceed 70% of studies in total.

Although there are 320 studies in the field of Industry, this figure includes 117 studies of the Chinese Factory Study, implemented in relation to the Japanese foreign policy. Thus, by excluding this study, number of studies in the Industry field will decrease.

Secondly, by briefly looking at the situation of utilization or realization of the development studies, the utilization rate is highest in the Social Development area (81.4%), followed by the Agriculture, Forestry, and Fishery area (74.7%), and the Mining and Industrial Development area (66.8%). Low realization/utilization rate in the Mining and Industrial Development area in comparison to the Social Development or the Agriculture, Forestry, and Fishery area can be affected by relatively large project scale, which requires certain amount of time in procuring funds.

	Number of Studies	Number of Studies In Progress of In Use	Realization / Utilization Rate
Social Development	1,221	994	81.4%
Agriculture, Forestry and Fisheries Development	427	319	74.7%
Mining and Industrial Development	710	474	66.8%
Total	2,358	1,787	75.8%

Table 4-1 Realization / Utilization Rate of Development Studies by sector

Result of the analysis, dividing all of the Development Studies into M/P type studies or F/S type studies, based on information acquired from the questionnaire will be presented in the next section.

4.2 M/P Studies Group

This Status Survey covers 2,358 development studies, of which 1,092 studies consisted by M/P Studies Group (46.3% of Development Studies in total). The M/P Studies Group consists from 776 M/P studies (71.1% of M/P Studies Group), 131 Basic studies (12.0%), 117 Studies on the Factories Modernization Program in China (10.7%¹), and 68 Other Studies (6.2%). Situations of utilization of the output of Development Studies is satisfactory, with 978 studies accounting for 89.6% of all the studies conducted to be utilized in realization of the proposed project, and formulation of national development plan.

By study types, the M/P Studies is most utilized with utilization rate of 91.1% followed by the Basic Studies (91.6%), the Other Studies (85.3%), and the Chinese Factory Studies (79.5%), which shows high utilization in general.

Comparing regional implementation, 609 studies have been conducted in Asian region, accounting for 55.8% of 1,092 M/P type studies conducted, which 354 studies accounting for 32.4% conducted in ASEAN countries. Following Asia, Central and South America, African, and Middle East area large in numbers of studies conducted. For the regional utilization rate, every region exceeds 80% with 90.3% for Asia, 89.6% for Central and South America, 87.7% for Africa, and 85.6% for Middle East. The rates of Oceania, Europe, and multiple countries are not analyzed because few development studies have been conducted in these regions, resulted in the analytical difficulty due to the large fluctuation of utilization rates.

By sectors, the utilization rate is 93.1% for the Social Development area, 93.3% for the Agriculture, Forestry and Fishery Development area, and 83.8% for the Mining and Industrial Development area, which requires certain amount of time in realization of the project, shows relatively low rate of utilization. In the Social

¹ The so-called Chinese Factory Studies have been finished. Thus the rate will be in decrease every year.

Development area, the Social Infrastructure, Transportation, Public Utilities, and the Planning and Administration sub-sectors occupy large portion of the studies conducted. In the Agriculture, Forestry and Fishery Development area, the Agriculture is the largest sub-sector. In the Mining and Industrial Development area, the Industry is the largest sub-sector. The utilization rates of each sub-sectors are; 89.9% in the Social Infrastructure, 92.1% in the Transportation, 96.5% in the Planning and Administration, 94.2% in the Agriculture and 81.8% in the Industry sub-sectors, which shows satisfactory utilization of the studies.

By comparing studies with realized project and unrealized project in the Social Development and the Agriculture, Forestry, and Fishery area, important factors in realizing the proposed projects seems to be timely implementation of subsequent studies after completion of the Development Studies, and timely availability of fund. In most of the studies whose proposed projects were realized smoothly, subsequent study has been conducted within 5 years, where Yen Loan or Yen Grant Aid was acquired at roughly the same time. Thus, it is important for the counterpart country to realize the proposed project in 5 years period after completion of the Development Study.

4.3 F/S Group

Out of 2,358 Development Studies in total, F/S type study consist 1,266 of the studies, which account for 53.7%. The F/S type study consists from 410 M/P+F/S (account for 32.4%), 814 F/S (64.3%, including Other(F/S type) studies), and 42 D/D studies (3.3%). Although 809 studies (63.9%) are categorized into "Completed or In Progress", it can be said that results of the F/S Group have been realized in relatively effective manner. It is, however, expected that realization rate should improve in the future since there are 163 (12.9%) studies prepared for realization.

By study types, the realization rates for M/P + F/S and for F/S (including Other F/S-type studies) were 72.0% and 59.1% respectively. Since a large portion of studies in these 2 areas has been designated in the "Under Promotion" category, 18.5%, 10.1% respectively for each study type, their realization rates ought to be improved in the near future. The realization rate of D/D studies marks the highest at 78.6%. This reflects the nature of D/D studies: the study will be conducted on the premises of realizations and fund procurements.

In terms of regional comparison of the numbers, 752 (account for 59.4% of 1,266 F/S Type Studies) out of the whole studies were conducted in Asia, which is the largest of all, and 526 (41.5%) were conducted particularly in ASEAN countries. Next to Asia, the numbers are larger in Central and South America, Middle East, and Africa. The utilization rate is 68.0% in Asia, 53.5% in Central and South America, 67.1% in Middle East, and 54.2% in Africa. The realization rates of Oceania, Europe, and multiple countries are not analyzed because few development studies have been conducted in these regions.

Analysis by area shows a difference in realization rates. The realization rates in the Social Development area, in the Agriculture, Forestry, and Fishery Development area, and in the Mining and Industrial Development area are 73.1%, 63.1%, and 41.9% respectively. The largest sub-sector in Social Development area is the Transportation with a realization rate of 72.2%. In the Agriculture, Forestry, and Fishery Development area, nearly all the studies were in the Agriculture

sub-sector, whose realization rate is 63.2%. In the Mining and Industrial Development area, the Energy sub-sector was the largest with the realization rate of 44.1%.

Judging from the comparison between materialized and immaterialized proposed projects in the Social Development and the Agriculture, Forestry, Fishery areas, one of important factors in utilizing study results is the existence of Japanese financial assistance. In most studies whose results were realized smoothly, Japanese ODA loans, Grant Aid, or own funds had been utilized.

4.4 Conclusion

This study confirmed that the development studies since FY2003 have produced continuous impacts to a certain degree with respect to the utilization of findings after the completion of development studies as well as regarding the adoption of proposed projects. In addition, slight increases in the percentages can be confirmed in recent years.

Fiscal Year	Utilization Rate of M/P	Utilization Rate of F/S
Fiscal Teal	and Related Studies	and Related Studies
2003	87.6%	59.6%
2004	88.2%	59.2%
2005	89.1%	61.0%
2006	89.8%	61.6%
2007	89.3%	62.2%
2008	89.6%	62.8%
2009	89.6%	62.9%
2012	89.7%	63.5%
2013	89.9%	63.6%
2014	89.6%	63.8%
2015	89.6%	63.9%

Table 4-2 Realization / Utilization Rate of Development Studies by type of study

Especially in M/P studies, the increase of utilization of visible findings seems to contribute to the improvement of the rate of utilization of findings and promotion of adoption of proposed projects. As one example, the aggressive development of project activities, as evidenced by the efforts to disseminate the experience and knowledge obtained and accumulated in the original target regions where the experimental studies were conducted to other regions or nationwide, has proved to be very successful. In addition, the number of development studies has recently reduced and, as a result, the projects of higher priority are selected in both Japan and counterpart countries. This also influenced to the above contribution.

On the other hand, in order to maintain the definite results and improve them in the future, the followings need to be fully considered; 1) to commit to the studies which shows little progress with regard to the utilization of study findings and promotion of adoption of proposed projects, and 2) to improve the rate of utilization of study findings and promotion of adoption of new projects. Regarding the M/P study, careful examination is a must based on the current status of

target projects. However, the review of the projects, which were not materialized and long left and the reexamination of the proposed projects, which are possible to be implemented, through the study for next stage correspondent to the current situation is one of the measures to improve the rate of utilization. As to F/S, it is necessary to select the ones which are less likely to be materialized though a certain period passed after the completion of the studies for analyzing the hindering factors for promotion of the proposed projects and examining the measures for its promotion. Also, it is valuable to discuss on the concrete measures such as complement studies necessary for the promotion of proposed projects for the possible studies.

Appendix

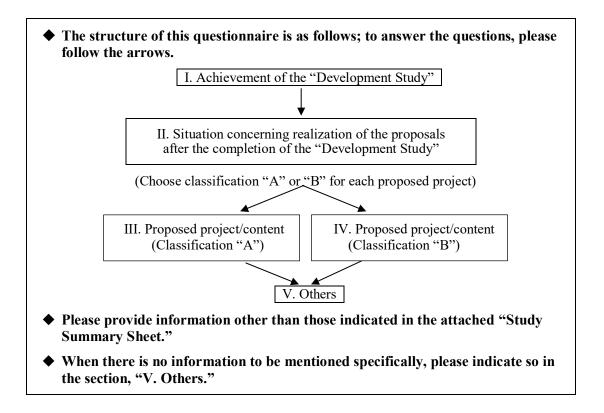
Questionnaire for the "Ex-Post Situation Study"

• Information of the "Development Study" at issue

Name of country	Type of study
	FS
Study no.	Situation until the previous fiscal year
Consultants	
1)	2)
Name of "Development Study"	

• Respondent

Name	Title
Telephone	Email



I. Overview of the "Development Study"

Overall Goal	
Project Objective	

I-1: Achievement of the Project Objective

I-1-1:	the a				gle choice] and describe the reasons of ease assess the achievement following
⊡Well ach	nieved	□Generally achieved	□Not well achieved	□Unachieved	□No project objective was set
Detail:					

I-2: Achievement of the Overall Goal

I-2-1:	Please answer how well the project objective was achieved [single choice] and describe the reasons of the assessment. (In case detailed indicators are set in PDM, please assess the achievement following those indicators.)
⊡Well ach	nieved □Generally achieved □Not well achieved □Unachieved □No project objective was set
Detail:	
100	
I-2-2:	Please describe other achievements or impacts of the "Development Study."

I-3: Study Results and Report

I-3-1:		. Please provide specific exa	and report were utilized by rele mples if they were utilized; if not,	0 0
□Well utili	ized	□Generally utilized	□Not well utilized	□Unutilized
Detail:				
I-3-2:	agencies [sing		and report are still being utilize becific examples if they are still ut	

Detail:					
I-3-3:		wer whether the quality nts that need to be made			ngle choice]. Please describe any phly evaluated.
(Report as a whole)		□Very satisfied	□Satisfied	□Neither	□Unsatisfied
(Analyses)	□Very satisfied	□Satisfied	□Neither	□Unsatisfied
(Proposal))	□Very satisfied	□Satisfied	□Neither	□Unsatisfied
Detail:					

I-4: Technical Transfer

I-4-1:	Study" [single of	hoice]. Please describe the	points that were conside	hile implementing the "Development red during the implementation and/or nt, please describe the reason.	
□Sufficiently transferred □Generally transferred □Not well transferred □Not transferred at all					
Detail:					
I-4-2:	technical transf	er [single choice]. Please p	rovide specific achieveme	C/P was developed as a result of the ents and examples of capacity and/or nt, please describe the reason.	
□Sufficier	tly developed	□Generally developed	□Not well developed	□Not developed at all	
Detail:					

I-5: Implementation of the "Development Study"

I-5-1:	development s	strategies and whether the se	cope of the "Development	appropriately related to the national t Study" was suitable [single choice]. points that should be highly evaluated
□Certainly	y appropriate	□Generally appropriate	□Slightly appropriate	□Not appropriate at all
Detail:				
I-5-2:				Development Study" [single choice]. becific points that should be highly
□Very sat	isfied	□Satisfied	□Neither	□Unsatisfied
Detail:				

I-5-3:	relevant organ		e, etc.) was appropriate [s	ntation (Cooperating system among single choice]. Please describe any highly evaluated.
□Certainly	/ appropriate	□Generally appropriate	□Slightly appropriate	□Not appropriate at all
Detail:				
I-5-4:				ects were appropriate [single choice]. ecific points that should be highly
□Certainly □No pilot Detail:	/ appropriate project	□Generally appropriate	□Slightly appropriate	□Not appropriate at all

II. Situation concerning realization of the proposals after the completion of the "Development Study"

II-1: Names of Proposed Projects or Proposal Contents

The list below shows the names of projects or contents proposed in the "Development Study" (based on the attached Study Summary Sheet or the final report of the "Development Study"). Please answer "A" or "B" in the "Classification" column for the situation of realization of the proposals after the completion of the "Development Study," according to the classification and definition of the situation of realization indicated below.

Project No	Names of proposed projects or contents of the proposal	Classification
1		
2		
3		

XPlease insert additional rows if there are more proposed projects and contents.

%For "Development Studies" that did not make proposals, such as studies that develop topographical maps, please provide relevant information in "V. Others."

→ <Classification "A"> → Questions III & V → <Classification "B"> → Questions IV & V

For an example, if there are 3 proposed projects/contents with classifications "A", "A" and "B," respectively, answer the questions as follows.

- Project 1: Classification "A"
- \rightarrow Answer questions III and V
- Project 2: Classification "A" \rightarrow
- Answer questions III and V
- Project 3: Classification "B" \rightarrow Answer questions IV and V

Classification and Definition of the Realization of Proposals

Classifi cation		Realization Situation	Questions to answer					
	Cases where	The proposed project has already been completed and has begun providing its services. The proposed project has been partially completed and is beginning to provide its services.						
A c p p	progress has been seen concerning	The proposed project is at the implementation stage. The bidding for the proposed project has been completed, and the project is undergoing preparation.	Questions					
	proposed	The funding of the proposed project has been finalized.	III & V					
	project/ content	Implementation design (hereinafter subsequent study) that is formulated as the subsequent step of the F/S survey has been conducted with funding provided by own country, other governments and international organizations. There is a high possibility of project realization.						
		For other reasons, there is a high possibility of project realization.						
							Funding requests have been made to other governments and international organizations.	
	Cases where	Based on the proposals, implementation design and subsequent studies have been carried out.						
	not enough	The counterpart governments are working proactively for project realization.						
В	progress has been seen	Even after the "Development Study" has been completed, the C/P has not taken concrete action towards the implementation of development projects.	Questions					
	concerning proposed	Although the realization of proposals has been considered, they have been shelved for a variety of reasons.	IV & V					
	project/	Proposal realization has been officially discontinued by the government.						
	content	Projects have been realized in significantly different forms that are inconsistent with proposal contents.						
		Realization of the proposal has been postponed for a long time (Over 10 years).						

III. Proposed project/content classified as "A"

Please answer the following questions for the proposed project/content classified as "A" in Question II-1. %Please provide information that is <u>not</u> mentioned in the "Study Summary Sheet." %When answering questions for multiple proposed projects, please copy the pages (III) for each proposed project.

Project No.	Name of proposed projects	
(No. of II-1)	or contents of the proposal	

III-1: Factors which stimulated the realization of proposed project/content

Please indicate the factors which stimulated the realization of proposed project/content.

III-1-1:	Please select the fac and describe the deta		e realiza	ation of proposed project/content [multiple choices]			
Consisten Development	cy with the National Plan	☐High benefits		□High priority			
☐High urger		Relationship with prioritized projects	other	□Organized resources			
□Favorable	financial conditions			□Other			
Details:							
III-1-2:	Please select the situ	ation of the realization of	f propos	sed project/content [single choice].			
□The subse project/con		anned/in preparation/ong	going (o	r was implemented) for the realization of proposed			
☐The subse	quent study has been o	conducted, and the follow	ing proj	ect is being planned/in preparation/ongoing (or was			
implemente □No subsec	,	conducted, but a proiect t	based o	on the proposed project/content is being planned/in			
preparation	n/ongoing (or was imple			· · · · · · · · · · · · · · · · · · ·			
□Other Details:							
Details:							

III-2: Implementation of proposed project

Please answer the following questions regarding the proposed project.

III-2-1:	Pleas	se select the progre	ess status of the pro	pject [single choice]	ŀ	
Completed		□In pro <go i<="" td="" to=""><td></td><td>□Tender conduct <go iii-2-2="" to=""></go></td><td>ted (date of tender:</td><td>)</td></go>		□Tender conduct <go iii-2-2="" to=""></go>	ted (date of tender:)
□In preparat	tion (co	ontents are decided) <go iii-2-2="" to=""></go>	□In preparation (<go iii-2-17="" to=""></go>	contents are not ye	et decided)
III-2-2:	Pleas	e indicate the nam	e of the project.			
III-2-3:	Pleas	e indicate the obje	ctive of the project.			
III-2-4:				ect. If there are re ct, please indicate t		s, etc. that illustrate the v.
Reference na Website URL						
III-2-5:	Pleas choic		r any change has	been made to the	e content of the p	proposed project [single
Changes	made	<go iii-2-6="" to=""></go>		□ No changes	<go iii-2-7="" to=""></go>	
III-2-6:	Pleas	e answer the type	of change(s) made	and describe the c	hange(s) in detail	[multiple choices].
□Funding pl	an	□Schedule	□Content	□Scale	□Operating o	org. DOther
Details:						
III-2-7:	Pleas	e indicate the impl	ementation period	of the project.	From	То
III-2-8:		se list the name(s) o ucted.	of implementing or	ganization(s) of the	country where the	project is being (or was)
III-2-9:	Pleas proje		of implementing or	ganization(s) of cou	ntries supporting th	ne implementation of the

III-2-10:	Please indicate the beneficiaries of th process/completed.	e project, if the implementation of the project is	in
III-2-11:	If the project has already been implemented achieved by the project, such as the number	ed or completed, please quantitatively describe the benefi r of people, area, transportation volume.	its
III-2-12:	If the project has already been completed, p	lease describe the degree of utilization of the project.	
III-2-13:		ed or completed, please answer whether there is (was) ar nitting/receiving orders for construction works [single choice	
	is (was) some participation of Japanese s <go iii-2-14="" to=""></go>	□No, there is (was) no participation of Japanese companies <go iii-2-15="" to=""></go>	
III-2-14:	If there is (was) participation of Japanese	companies in submitting/receiving orders for construction Development Study"), please list the companies' names ar	
	describe their involvement.		u
	f company(s): nvolvement:		
III-2-15:		ed or completed, please answer whether there is (was) an ementing and utilizing the project [single choice].	ny
	is (was) some participation of Japanese <go iii-2-16="" to=""></go>	□No, there is (was) no participation. <go iii-2-17="" to=""></go>	
III-2-16:		ompanies in the implementation and utilization of the proje ment Study"), please describe in detail below.	ct
ImplementName of contract	ation Stage of Proposed Project		
Details of i			
Completion • Name of co	n Stage of Proposed Project】		
Details of i			
III-2-17:	Please answer whether any official requ organizations for financial assistance [single	uest has been made to other countries or internation e choice].	al
□ Official re	equest has been made <go iii-2-18="" to=""></go>	□ No official request has been made <go iii-2-19="" to=""></go>	
III-2-18:	If official request has been made, please inc	licate the type of financial assistance [multiple choices].	
☐ Yen loan	(Requested date:)	☐ Yen Grant aid (Requested date:))
-	nization (Requested date:)	Private fund (Requested date:))
Other cou			
•	equested date: ,	Detail:)
III-2-19:	Please indicate the fund procurement status		
Procured	<go iii-2-20="" to=""></go>	Planned to be procured <go iii-2-21="" to=""></go>	

Appendix No.

III-2-20:	Please indicate	Please indicate the type of fund procured [multiple choices].					
□ Yen loan	(Date of E/N cond	clusion:)	☐ Yen Grant Aid (Date of L/A conclusion:)		
Other cou	untry (Name of co	ountry:)	□ Intl. organization (Name of org.:			
Private fu	ınd (Detail:)		
Own countries' fund				Unknown:			
□ Other (Detail:)		
III-2-21: Please answer whether official request implementation [single choice].			est has	been made for Japanese technical assistance	for project		
□ Official request has been made <go iii-2-22="" to=""></go>				□ No official request has been made <go iii-<="" td="" to=""><td>-2-23></td></go>	-2-23>		
III-2-22:	22: Please indicate the type of technical as			ce requested [multiple choices].			
☐ Tech. cooperation project (Requested date:)				
🛛 Training (orogram	(Requested date:)				
Dispatch	of experts	(Requested date:)				
□ Other		(Requested date:	,	Detail)		
III-2-23:	Please answer project [single c	•	chnical	assistance has been realized for the implementa	tion of the		
□ Japanese	e Tech. assistance	e is realized <go iii-<="" td="" to=""><td>2-24></td><td>□ No Japanese Tech. assistance is realized <g< td=""><td>o to III-3></td></g<></td></go>	2-24>	□ No Japanese Tech. assistance is realized <g< td=""><td>o to III-3></td></g<>	o to III-3>		
III-2-24: Please select the type of realized Japanese tech. assistance and describe in de			ech. assistance and describe in detail [multiple ch	oices].			
Tech. coc	operation project	(Detail:)		
□ Training program (Detail:)		
Dispatch	of experts	(Detail:)		
□ Other		(Detail:)		

III-3: Subsequent Studies

Please answer the following questions for the subsequent studies related to the proposed projects.

III-3-1:	Please select the current progress of	of the subs	equent study [single choice]	
	eted <go <<="" in="" progress="" td="" to=""><td></td><td>In preparation <go (casta="" dana="" td="" to="" v)<=""><td></td></go></td></go>		In preparation <go (casta="" dana="" td="" to="" v)<=""><td></td></go>	
III-3-2>			I-3-8>	
III-3-2:	Please indicate the title of subseque	ent study.		
III-3-3:	Please describe the objective and the	ne reason(s) for conducting the subsequent study.	
	Please indicate the implement	ation per	iod of the	
III-3-4:	subsequent study.	allon per	From To	
III-3-5:	Please select the type of the subsec	quent study	/ [multiple choices].	
□ F/S	□ B/D □ D/D		E/S Review study Unknown	
D Other (D	etail:)
III-3-6:	Please indicate the name(s) of or conducted.	ganization	(s) of the country where the subsequent study is being	ng
				_
III-3-7:	Please indicate the name(s) of or subsequent study.	organizatio	n(s) of countries supporting the implementation of t	he
	Please answer whether any offi	cial reque	st has been made to other countries or internatior	nal
III-3-8:	organizations to implement subsequ			
Official re	equest has been made <go iii-3-9<="" td="" to=""><td>></td><td>□ No official request has been made <go to="" v=""></go></td><td></td></go>	>	□ No official request has been made <go to="" v=""></go>	
III-3-9:	If official request has been made, p	lease indic	ate the type of requested study [multiple choices].	
□ F/S	(Requested date:)	B/D (Requested date:)	
D/D	(Requested date:)	E/S (Requested date:)	
Review s	study (Requested date:)	Unknown	
□ Other	(Requested date:	,	Detail:)	
L			→Proceed to "V. Other	rs"

IV. Proposed project/content classified as "B"

Please answer the following questions for the proposed project/content classified as "B" in Question II-1. %Please provide information that is <u>not</u> mentioned in the "Study Summary Sheet." %When answering questions for multiple proposed projects, please copy the pages (III) for each proposed project.

Project No.	Name of proposed projects	
(No. of II-1)	or contents of the proposal	

IV-1 : Factors hampering the realization of proposed projects

Please answer the following questions on the factors that have hampered the realization of proposed projects.

IV-1-1:	Please select the factors [multiple choices].	which have	hindered the realization of	proposed projects and describe in detail
Politics	Economy	Policy	Public administration	Public security Disaster
	feasibility	□ Inappro	priate project scale	Postponement of related project
Difficulty other countrie	in securing funding from es	🛛 Unknov	vn	□ Other
Detail:				
IV-1-2:	(e.g., the point to be reco	nsidered to		any. s, the point to be reconsidered in terms of l procurement, or so –, etc.)
Detail:	<u> </u>	·• •		· · · · /

IV-2 : Situation of the official request to other countries and international organizations to realize proposed projects

IV-2-1:	Please select the status of realization of proposed projects [single choice].						
Being pre	pared/Considered	□Unde	cided/	/Unkn	own	□Postponed/Canceled	
IV-2-2:		nether official request l tion of the proposed pr				untries or international org e]	anization for
Official re	equest has been n	nade <go iv-2-4="" to=""></go>		□ No official request has been made <go iv-2-3="" to=""></go>			
IV-2-3:		s been made, please anizations [single choic		t the	situation regard	ing the request to other c	ountries and
	□ Decision has been made to make no official request <go iv-3="" to=""> □ Decision has been made to make an official request</go>						al request
□ In discus <go iv-3="" to=""></go>		ake an official request			Unknown/ Unde o to IV-3>	ecided	
IV-2-4:		uest to other countries quest [multiple choices		nterna	tional organizati	ons has been made, pleas	e answer the
<u>Funding</u>							
□ Yen loan	(Request	ed date:)		Yen Grant Aid	(Requested date:)
□ Intl. org		(Requested date:)		Private fund	(Requested date:)
Other co	untries (Request	ed date:)				
□ Other	(Request	ed date:	,	Deta	ail:)
Japanese Te	chnical Assistance	<u>e</u>					
🗆 Tech. Co	operation Project	(Requested date:)	□ Training Pr	ogram (Requested date:)
Dispatch	of experts	(Requested date:)			
□ Other		(Requested date:		,	Detail)
Detail:							

IV-3: Subsequent Studies

Please answer the following questions for the subsequent studies related to the proposed projects.

IV-3-1:	Please select the current progress of the	subseque	nt study	[sinale (choice	el		
		•	n prepai			to		<u> </u>
III-3-2>	III-3-2>	111-3-8					None <	Go to V>
IV-3-2:	Please indicate the title of subsequent s	udy.						
IV-3-3:	Please describe the objective and the re	ison(s) fo	^c conduct	ing the	subse	equent sti	udy.	
	· _ · · · · · · · · · · · · · · · · · ·				_		- T	Γ
IV-3-4:	Please indicate the implementation subsequent study.	period	of the	From			То	
IV-3-5:	Please select the type of the subsequen	study [mi	Itiple cho	oices].	1			I
□ F/S			E/S		🗆 R	eview stu	dy	Unknown
D Other (D	etail:)
IV-3-6:	Please indicate the name(s) of organi conducted.	ation(s)	of the co	ountry w	/here	the sub	sequer	nt study is being
IV-3-7:	Please indicate the name(s) of organ subsequent study.	ization(s)	of cour	itries su	lpbor	ting the	imple	mentation of the
IV-3-8:	Please answer whether any official organizations to implement subsequent				to o	other cou	untries	or international
Official re	equest has been made <go iii-3-9="" to=""></go>		No offic	ial requ	est h	as been r	nade <	<go to="" v=""></go>
IV-3-9:	If official request has been made, please	indicate t	he type c	of reque	sted s	study [mu	ltiple c	hoices].
□ F/S	(Requested date:)	B/D	Reques	ted d	late:)
D/D	(Requested date:) 🗆	E/S	Reques	sted d	late:)
Review s	study (Requested date:) 🗆	Unknow	vn				
□ Other	(Requested date:	, De	etail:)
						→Pro	ceed	to "V. Others"

V. Others

Please describe any other information not answered in the above questions regarding the "Development Study". For "Development Studies" that did not make proposals, please provide any relevant information concerning the output of the study. If there is no new information to add, please indicate so below.

%Please provide information that is not mentioned in the "Study Summary Sheet" yet.

Details

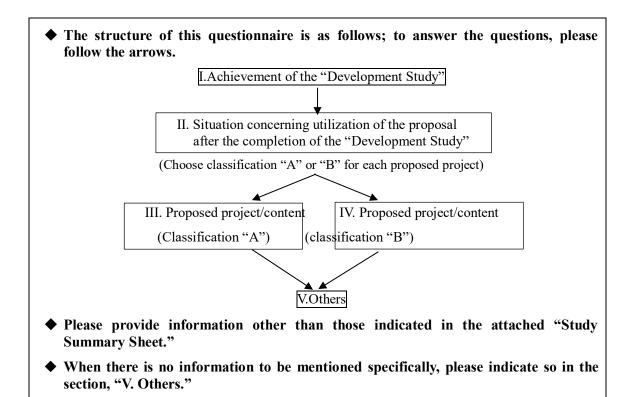
Questionnaire for the "Ex-Post Situation Study"

• Information on the "Development Study" at issue

Name of country:	Type of study:
	M/P
Study no.:	Situation until the previous fiscal year:
	-
Consultants:	
1)	2)
Name of "Development Study":	

Respondent

Name	Title
Telephone	Email



I. Achievement of the "Development Study"

Overall Goal	
Project Objective	

I-1: Achievement of the Project Objective

I-1-1:	of the				le choice] and describe the reasons e assess the achievement following
□ Well ach	nieved	□Generally achieved	□Not well achieved	Unachieved	No project objective was set
Detail:					

I-2: Achievement of the Overall Goal

I-2-1:	Please answer how well the overall goal has been achieved[single choice] and describe the reasons of the assessment. (In case detailed indicators are set in PDM, please assess the achievement following those indicators.)							
□ Well ach	nieved	□Generally achieved	□Not well achieved	Unachieved	No overall goal was set			
Detail:								
I-2-2:	Pleas	e describe otherachieve	ments or impacts in the	"Development S	Study".			

I-3: Study Results and the Report

I-3-1:	e choice]. Please provid	udy results and the report were utilized by relevant governmental agencies e the specific example if they were utilized; if not, please describe the

Detail:							
I-3-2:	agencies					utilized by relevant governme and are still utilized; if not, p	
Still well	l utilized	Still generally ut	ilized	Not well utiliz	zed now	Not utilized anymore	
Detail:							
I-3-3:		nswer whether the object the beimproved or the			cient or not [si	ngle choice]. Please describ	e the
(Report as	points to s a whole)	be improved or the □ Very satisfied	appreciations.	□Neither	□ Unsatisf	fied	e the
(Report as (Analyses	points to s a whole)	be improved or the □ Very satisfied □ Very satisfied	appreciations. □Satisfied □Satisfied	□Neither □ Neither	□ Unsatisf □ Unsatis	fied	e the
(Report as	points to s a whole)	be improved or the □ Very satisfied	appreciations.	□Neither	□ Unsatisf	fied	e the
(Report as (Analyses (Proposals	points to s a whole)	be improved or the □ Very satisfied □ Very satisfied	appreciations. □Satisfied □Satisfied	□Neither □ Neither	□ Unsatisf □ Unsatis	fied	be the
(Report as (Analyses (Proposals	points to s a whole)	be improved or the □ Very satisfied □ Very satisfied	appreciations. □Satisfied □Satisfied	□Neither □ Neither	□ Unsatisf □ Unsatis	fied	e the
(Report as (Analyses (Proposals	points to s a whole)	be improved or the □ Very satisfied □ Very satisfied	appreciations. □Satisfied □Satisfied	□Neither □ Neither	□ Unsatisf □ Unsatis	fied	e the

I-4: Technical Transfer

I-4-1:	Study" [single cl		oints that were considered	ementation of the "Development during the implementation and/or lease describe the reason.				
□ Sufficiently transferred □ Generally transferred □ Not well transferred □ Not transferred at all								
Detail:								
	Please answer	how well the nersonal and in	stitutional canacity of the C	/Pwas developed as the result of				
I-4-2:	the technical tra	ansfer [single choice]. Pleas	se provide specific achieve	ements or examples of capacity ent, please describe the reason.				
□Sufficien	tly developed	Generally developed	Not well developed	Not developed at all				
Detail:								

I-5: Implementation of the "Development Study"

I-5-1:	Please answer whether the "Development Study" was clearly and appropriately related to the national development strategies and whether the scope of the "Development Study" was suitable [single choice]. Please describe any improvements that need to be made or specific points that should be highly evaluated.						
□Certainly	y appropriate	Generally appropriate	Slightly appropriate	Not appropriate at all			

Detail:		
	Please indicatethequality of the consultants who conducted the "Development Study" [single choice].	
I-5-2:	Please describe any improvements that need to be made or specific points that should be high evaluated.	hly
Very sat	tisfied Satisfied Neither Unsatisfied	
Detail:		
	Please indicate whether the institutional arrangement for implementation (the cooperating system amo	na
	relevant organizations, the steering committee, etc.) was appropriate [single choice].	ng
I-5-3:	Please describe any improvements that need to be made or specific points that should be high	hly
	evaluated.	
Certainly	y appropriate 🛛 🗆 Generally appropriate 🔅 🗅 Slightly appropriate 👘 Not appropriate at all	
Detail:		
	Please answer whether the selection and implementation of the pilot projects were appropriate [sing	alo
1-5-4:	choice]. Please describe any improvements that need to be made or specific points that should be high	
	evaluated.	,
	y appropriate □Generally appropriate □ Slightly appropriate □ Not appropriate at all	
□ No pilot	projects	
Detail:		

II. Situation concerning utilization of the proposal after the completion of the "Development Study"

II-1: Name of Proposed Projects or Proposal Contents

The list below shows the name of projects or contents proposed in the "Development Study" (based on the attached Study Summary Sheet or the final report of the "Development Study"). Please answer "A" or "B" in the "Classification" column for the situation of the realization after the completion of the "Development Study" according to the classification and definition of the situation of utilization stated below.

Project No	Name of proposed projects or contents of the proposal	Classification
1		
2		
3		

* Please add rows if there are more proposed projects/contents.

For "Development Study" which did not make proposals, such as studies to develop topographical map, please provide relevant information in "V. Others."

→ <Classification "A">→ Questions III & V →<Classification "B">→ Questions IV & V

For an example, if there are 3 proposed projects/contents with classifications "A", "A", and "B" respectively, questions to answer are as follows.

- Project 1: classification "A"
- \rightarrow answer questions III and V
- Project 2: classification "A" \rightarrow
 - answer questions III and V
- Project 3: classification "B" \rightarrow an
- \rightarrow answer questions IV and V

Classification and Definition of the Utilization of Proposals

Classifi cation	Situation of Utilization			
A	Cases where progress has been seen concerning proposed project/content	Studies related to the "Development Study" have been conducted after the completion of the study (hereafter subsequent study). Or outcome of the "Development study" has been utilized. Technical Cooperation has been conducted other than the "Development Study" according to the proposal made in the "Development Study" Result of the "Development Study" has been adapted to policies or development plan. Or, the result of the "Development Study" has been utilized in preparing policies, plans, and etc. Actions have been taken to realize proposals made in the "Development Study". Concrete actions have not yet been made, having less than 2 years of time after completion of the "Development Study".	to answer Questions III & V	
В	Cases where not enough progress has been seen	 However, measures for proposals are under consideration. No actions have been taken after completion of the "Development Study". Or, no utilizations have been made concerning the proposal. Realizations of the proposals have been shelved after consideration due to some reasons. Realizations of the proposals have been officially discontinued by the government. Alternative plans proposed in other studies have been adopted or utilized. Realization of the proposal is postponed for a long term (Over 10 years). 	Questions IV & V	

III.Proposed project/content classified as "A"

Please answer questions below for the proposed project/content classified as "A" in question II-1.

- * Please provide information NOT mentioned in the "Study Summary Sheet".
- * Please copy the pages (III.), when answering the questions for more than one proposed projects.

Project No.	Name of proposed projects or
(No. of II-1)	contents of the proposal

III-1: Factors which stimulated utilization of the proposed project/content

Please answer the actors which stimulated utilization of the project/content.

III-1-1:	Please select the fact the details.	ors which stimulated utilization of the project/co	ontent [multiple choices] and describe
 Consister Developn 	t with the National nent Plan	□High benefits	□High priority
□ High Urger		□Relationship with other prioritized project	□Organized resources.
□ Favorable	financial condition	□Unknown	□Others
Details:			
	Please select the sit	uation of implementation and utilization of t	he proposed project/content (single
III-1-2:	choice]	·	
proposed	project/content.	planned/in preparation/ongoing (or was imp	,
□The subsect implemente		ucted and the following project is being plar	nned/in preparation/ongoing (or was
□ No subse		ucted, but a project based on the proposed	project/content is being planned/in
□ Others			
Details			

III-2: Implementation of the project

Please answer questions below for proposed project which is completed/ongoing/in preparation.

		1						
III-2-1:	Please select the progress of the project. [single choice]							
□Completed	Completed <go iii-2-2="" to=""> In progress <go iii-2-2="" to=""> Tender conducted (date of tender: Sept - 2016) <go iii-2-2="" to=""></go></go></go>							
□ In preparat	□ In preparation (contents are decided) <go iii-2-2="" to=""> □ In preparation (contents are not yet decided) <go iii-2-17="" to=""></go></go>							
III-2-2:	Plea	ase answer the name	e of the project.					
III-2-3:	Plea	ase answer the objec	tive of the project.					
III-2-4:	Plea	ase answer the sumn	nary of the project.					
T								
Title of refere URL of webs								
III-2-5:			changes have been r				t propos	sed. [single choice]
□Changed <	- -					go to III-2-7>		
III-2-6:		1	of changes made and		e the deta			I
□Funding pla	an	□Schedule		□Scale		□Operating o	rg.	Others
Details:								
III-2-7:		ase answer the perioproject.	od of implementatio	n of fro	om		to	
III-2-8:	Plea	ase list the name of ducted.	implementing organ	izations of	of the co	untry where th	ie projec	t is being (or was)
	CON	Jucled.						
	Plea	ase list the name of	implementing organ	nizations	of countr	ies supporting	the im	plementation of the
III-2-9:	proj							

						No.
III-2-10:	Please indicate the beneficiaries process/completed.	of th	e project, if the	implementation of	the project i	is in
III-2-11:	Please quantitatively describe the be capacity, and etc, if the implementation				ber ofpeople,	area,
			le project is process	scompleted.		
III-2-12:	Please describe the degree of utilizati	on of	the project if the imp	plementationof the proj	ect is complete	ed.
				of longnood commo	ning in guland	ittin a/
III-2-13:	Please answer whether there is (o receiving orders for construction wo [single choice]					
	is (was) some participation of Japanese	;		as) not any participatio	on.	
company.	<go iii-2-14="" to=""> If there is (or was) participation of J</go>	anane	<pre><go iii-2-15<="" pre="" to=""></go></pre>		ers for constru	iction
III-2-14:	(excepttheir participation in the "Devel involvement in detail.	opme	nt Study"), please li	st the companies' name	e and describe	their
Name of c	ompany:					
Contents of	f the participation:					
III-2-15:	Please answer whether there is (or w utilizing the project, if the implementation	tion of				g and
	s (was) some participation of Japanese <go iii-2-16="" to=""></go>	•	□ No, there is (w	as) not any participatio	on. <go iii-2-<="" td="" to=""><td>-17></td></go>	-17>
III-2-16:	If there is (or was) participation of , project (except their participation in describe their involvement in detail.					
	mentation phase]					
Name of contents of conte	ompany: f the participation:					
Contents e						
[In theutiliza	tion phase l					
Name of c						
Contents of	f the participation:					
III-2-17:	Please answer whether official reque for a financial assistance. [single choi		been made to othe	er countries or internal	tional organiza	ations
Official req	uest has been made <go iii-2-18="" to=""></go>		□ No official requ	est has been made <دِ	go to III-2-19>	
III-2-18:	Please indicate the type of financial a	ssista	nce, if official reque	st has been made. [mu	Iltiple choices]	
Yen loan	(Requested date:)	Yen Grant aid	(Requested date:)
□Intl. organiz	ation (Requested date:)	□Private fund	(Requested date:)
□Other count	ry (Requested date:)				
□Others (R	equested date:	,	Detail:)

M/P

III-2-19: Please answer the fund procurement status of the proposed project. [single choice] □ Procured (go to III-2-20) □ Planned to be procured (go to III-2-21) III-2-20: Please indicate the type of fund procured. [multiple choices] □ Yen loan (date of L/A conclusion:) □ Yen Grant Aid (date of L/A conclusion:) □ Other country (name of country:) □ Intl. organization (Name of org.:) □ Private fund (Detail:) □ Unknown:) □ Other countries' fund □ Unknown:) □ Other (Detail:)) □ Official request has been made (go to III-2-22) □ No official request has been made (go to III-2-23) III-2-22: Please indicate the type of technical assistance requested. [multiple choices] □ Training program (Requested date:)) □ Dispatch of experts (Requested date:)) □ Dispatch of experts (Requested date:)) □ Japanese Tech. assistance is realized (go to III-2-24) □ No Japanese Tech. assistance is realized (go to III-3) <tr< th=""><th></th><th></th><th></th><th></th><th></th><th>INO.</th></tr<>						INO.	
III-2-20: Please indicate the type of fund procured. [multiple choices] IVenIoan (date ofE/Nconclusion:) \Pen Grant Aid (date of L/A conclusion:) IOther country (name of country:) Intl. organization (Name of org.:) Private fund (Detail:) Intl. organization (Name of org.:) Own countries' fund Unknown:)) Others (Detail:))) III-2-21: Please answer whether official request has been made for Japanese technical assistance for project implementation. [single choice]) Official request has been made (go to III-2-22) In No official request has been made (go to III-2-23) III-2-22: Please indicate the type of technical assistance requested. [multiple choices] ITraining program (Requested date:) III-2-23: Please answer whether Japanese technical assistance has been realized for the implementation of the project. [single choice] III-2-23: Please answer whether Japanese technical assistance and describe the details. [multiple choices] III-2-23: Please select the type of realized Japanese Tech. assistance is realized (go to III-2-24) III-2-24: Please select the type of realized Japanese Tech. assistance is realized (go to III-3) III-2-24:	III-2-19:	Please answer the fund procurement status of the proposed project. [single choice]					
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Other country (name of country:) Intl. organization (Name of org.:) Private fund (Detail:) Other countries' fund Unknown: Others (Detail:) Unknown:) Others (Detail:)) No official request has been made for Japanese technical assistance for project implementation. [single choice]) III-2-21: Please answer whether official request has been made for Japanese technical assistance for project implementation. [single choice] No official request has been made (go to III-2-23) III-2-22: Please indicate the type of technical assistance requested. [multiple choices]) Training program (Requested date:)) Dispatch of experts (Requested date:) Others (Requested date:) III-2-23: Please answer whether Japanese technical assistance has been realized for the implementation of the project. [single choice] Japanese Tech. assistance is realized (go to III-2-24) INo Japanese Tech. assistance is realized (go to III-3) III-2-24: Please select the type of realized Japanese Tech. assistance and describe the details. [multiple choices] ITech. coopertion project (Detail:) III-2-24: Please select the type of realized Japanese Tech. assi	III-2-20:	Please indicate th	e type of fund procure	ed. [m	ultiple choices]		
Private fund (Detail:) ○ Own countries' fund □ Unknown: ○ Others (Detail:) □ Official request has been made for Japanese technical assistance for project implementation. [single choice] □ No official request has been made (go to III-2-23) III-2-21: Please indicate the type of technical assistance requested. [multiple choices] □ Training program (Requested date:) □ Dispatch of experts (Requested date:) □ Dispatch of experts (Requested date:) □ Japanese Tech. assistance is realized (go to III-2-24) □ No Japanese Tech. assistance is realized (go to III-2-24) □ Japanese Tech. cooperation project (Detail:) III-2-23: Please answer whether Japanese technical assistance has been realized for the implementation of the project. [single choice] □ Japanese Tech. assistance is realized (go to III-2-24) □ No Japanese Tech. assistance is realized (go to III-3) III-2-24: Please select the type of realized Japanese Tech. assistance and describe the details. [multiple choices] □ Training program (Detail:) □ Japanetor = wroth the type of realized Japanese Tech. assistance is realized (go to III-3)) □ Japanetor = wroth the type of realized Japanese Tech. assistance and describe	□Yenloan (da	te ofE/Nconclusior	:)	□Yen Grant Aid (date of L/A conclusion:)	
Own countries' fund □ Unknown: ○ Others (Detail:) III-2-21: Please answer whether official request has been made for Japanese technical assistance for project □ Official request has been made (go to III-2-22) □ No official request has been made (go to III-2-23) III-2-22: Please indicate the type of technical assistance requested. [multiple choices] □ Tech. cooperation project (Requested date:) □ Dispatch of experts (Requested date:) □ Others (Requested date:) □ Others (Requested date:) □ Dispatch of experts (Requested date:) III-2-23: Please answer whether Japanese technical assistance has been realized for the implementation of the project. [single choice] □ Japanese Tech. assistance is realized (go to III-2-24) □ No Japanese Tech. assistance is realized (go to III-3) III-2-24: Please select the type of realized Japanese Tech. assistance and describe the details. [multiple choices] □ Tech. cooperation project (Detail:) □ Training program (Detail:) □ Training program (Detail:)	□Other count	ry (name of country	/:)	□ Intl. organization (Name of org.:)	
□ Others (Detail:) III-2-21: Please answer whether official request has been made for Japanese technical assistance for project implementation. [single choice] □ Official request has been made (go to III-2-22) □ No official request has been made (go to III-2-23) III-2-22: Please indicate the type of technical assistance requested. [multiple choices] □ Tech. cooperation project (Requested date:) □ Training program (Requested date:) □ Others (Requested date:) □ Dispatch of experts (Requested date:) □ Japanese Please answer whether Japanese technical assistance has been realized for the implementation of the project. [single choice] □ Japanese Please select the type of realized Japanese Tech. assistance is realized (go to III-2-24) No Japanese Tech. assistance is realized (go to III-3) III-2-24: Please select the type of realized Japanese Tech. assistance and describe the details. [multiple choices] □ Training program	Private fundamente	d (Detail:)	
III-2-21: Please answer whether official request has been made for Japanese technical assistance for project implementation. [single choice] Official request has been made (go to III-2-22) No official request has been made (go to III-2-23) III-2-22: Please indicate the type of technical assistance requested. [multiple choices] Training program (Requested date:) Training program (Requested date:) Others (Requested date:) III-2-23: Please answer whether Japanese technical assistance has been realized for the implementation of the project. [single choice] Japanese Tech. assistance is realized (go to III-2-24) No Japanese Tech. assistance is realized (go to III-2-24) III-2-24: Please select the type of realized Japanese Tech. assistance and describe the details. [multiple choices] Training program (Detail:) Official requester) No Japanese Tech. assistance is realized (go to III-2-24) III-2-24: Please select the type of realized Japanese Tech. assistance and describe the details. [multiple choices] Tech. cooperation project (Detail:) Training program (Detail:)	Own countries' fund				Unknown:		
III-2-21: implementation. [single choice] Official request has been made (go to III-2-22) No official request has been made (go to III-2-23) III-2-22: Please indicate the type of technical assistance requested. [multiple choices] Tech. cooperation project (Requested date:) Training program (Requested date:)) Dispatch of experts (Requested date: , Detail:) Official request experts (Requested date: , Detail:) III-2-23: Please answer whether Japanese technical assistance has been realized for the implementation of the project. [single choice] Japanese Japanese Tech. assistance is realized (go to III-2-24) No Japanese Tech. assistance is realized (go to III-2-24) III-2-24: Please select the type of realized Japanese Tech. assistance and describe the details. [multiple choices] III-2-24: Please select the type of realized Japanese Tech. assistance is realized (go to III-3) III-2-24: Please select the type of realized Japanese Tech. assistance and describe the details. [multiple choices] III-2-24: Official request (Detail:) III-2-24: (Detail:) III-2-24: (Detail:) III-2-24: (Detail:) III-2-24: (Detail:)	Others (De	tail:)	
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□ Tech. cooperation project (Requested date:) □ Training program (Requested date:) □ Dispatch of experts (Requested date:) □ Others (Requested date:) □ Others (Requested date:) □ III-2-23: Please answer whether Japanese technical assistance has been realized for the implementation of the project. [single choice] □ Japanese Tech. assistance is realized (go to III-2-24) □ No Japanese Tech. assistance is realized (go to III-3) III-2-24: Please select the type of realized Japanese Tech. assistance and describe the details. [multiple choices] □ Tech. cooperation project (Detail:) □ Training program (Detail:) □ Dispatch of experts (Detail:)	Official required	uest has been mad	e (go to III-2-22)		$\hfill\square$ No official request has been made (go to III-2-	-23)	
Training program (Requested date: Dispatch of experts (Requested date: Others (Requested date: Others (Requested date: Please answer whether Japanese technical assistance has been realized for the implementation of the project. [single choice] Japanese Please answer whether Japanese technical assistance has been realized for the implementation of the project. [single choice] Japanese Please select the type of realized Japanese Tech. assistance is realized (go to III-3) III-2-24: Please select the type of realized Japanese Tech. assistance and describe the details. [multiple choices] Training program (Detail: Obtail:)	III-2-22:	Please indicate th	e type of technical as	sistar	nce requested. [multiple choices]		
□ Dispatch of experts (Requested date:) □ Others (Requested date: , Detail:) □ Others (Requested date: , Detail:) □ III-2-23: Please answer whether Japanese technical assistance has been realized for the implementation of the project. [single choice]) □ Japanese Tech. assistance is realized (go to III-2-24) □ No Japanese Tech. assistance is realized (go to III-3) □ III-2-24: Please select the type of realized Japanese Tech. assistance and describe the details. [multiple choices] □ Tech. cooperation project (Detail:) □ Training program (Detail:) □ Dispatch of experts (Detail:)	□Tech. coope	eration project	Requested date:)		
□ Others (Requested date: , Detail:) III-2-23: Please answer whether Japanese technical assistance has been realized for the implementation of the project. [single choice] □ Japanese Tech. assistance is realized (go to III-2-24) □ No Japanese Tech. assistance is realized (go to III-3) III-2-24: Please select the type of realized Japanese Tech. assistance and describe the details. [multiple choices] □ Tech. cooperation project (Detail:) □ Training program (Detail:) □ Dispatch of experts (Detail:)	Training pre	ogram (Requested	d date:)		
III-2-23: Please answer whether Japanese technical assistance has been realized for the implementation of the project. [single choice] III-2-23: Please answer whether Japanese technical assistance has been realized for the implementation of the project. [single choice] Japanese Tech. assistance is realized (go to III-2-24) Implementation of the project. [single choice] III-2-24: Please select the type of realized Japanese Tech. assistance and describe the details. [multiple choices] ITech. cooperation project (Detail: Implementation Operation Implementation Implementation Implementation Implementation <t< td=""><td>Dispatch of</td><td>experts</td><td>(Requested date:</td><td></td><td>)</td><td></td></t<>	Dispatch of	experts	(Requested date:)		
III-2-23. project. [single choice] Japanese Tech. assistance is realized (go to III-2-24) No Japanese Tech. assistance is realized (go to III-3) III-2-24: Please select the type of realized Japanese Tech. assistance and describe the details. [multiple choices] Tech. cooperation project (Detail: Training program (Detail: Dispatch of experts (Detail:	Others		(Requested date:		, Detail:)	
III-2-24: Please select the type of realized Japanese Tech. assistance and describe the details. [multiple choices] □Tech. cooperation project (Detail: □Training program (Detail: □Dispatch of experts (Detail:	III-2-23:			nnical	assistance has been realized for the implementa	tion of the	
Tech. cooperation project (Detail:) Training program (Detail:) Dispatch of experts (Detail:)	□ Japanese Tech. assistance is realized (go to III-2-24) □ No Japanese Tech. assistance is realized (go to III-3)						
Training program(Detail:)Dispatch of experts(Detail:)	III-2-24:	Please select the	type of realized Japa	nese ⁻	Tech. assistance and describe the details. [multiple	e choices]	
Dispatch of experts (Detail:)	□Tech. coope	eration project	(Detail:)	
	□Training pro	gram	(Detail:)	
	□Dispatch of	experts	(Detail:)	
Dothers (Detail:)	□Others		(Detail:)	

III-3: Subsequent Studies

Please answerquestions below for subsequent study which is completed/ongoing/in preparation related to the proposal.

III-3-1:	Please select the current progress of subs	seque	nt study	. [single	choice]		
Completed	d (go to III-3-2) □ In progress (go to III-3-2	2)	🗆 In pre	paration	(go to III-3-8) □I	None	(go to V)
III-3-2:	Please indicate the title of subsequent stu	dy.					
III-3-3:	Please describe the objective and the reas	son(s) for coi	nducting	the subsequent st	udy.	
III-3-4:	Please answer the period of implem subsequent study.	entati	on of	From		То	
III-3-5:	Please select the type of subsequent stud	y. [mi	ultiple c	noices]			
□F/S	□B/D □D/D		□E/S		□Review study		🗆 Unknown
□ Others (De	etail:)
III-3-6:	Please indicate the name of organization conducted.	isof tl	ne cour	try where	e the subsequent	study	is being (or was)
III-3-7:	Please indicate the name of organizations study.	s of c	ountries	support	ing the implemen	tation	of the subsequent
III-3-8:	Please answer whether any official re organizations in order to implement subse					untrie	s or international
□ Official req	uest has been made (go to III-3-9)				quest has been m	ade (g	go to V)
III-3-9:	Please indicate the type of requested stud	dy if c	fficial re	quest ha	s been made. [mi	ultiple	choices]
□F/S	(Requested date:)	□B/D	(Red	quested date:)
□D/D	(Requested date:)	□E/S	(Red	quested date:)
Review stu	udy (Requested date:)	□ Unk	nown			
Others	(Requested date:	,	Detail)
						→C	Go to "V. Others"

IV. Proposed project/content classified as "B"

Please answer the question below for the proposed project/content classified as "B" in question II-1.

* Please provide information NOT mentioned in the "Study Summary Sheet".

* Please copy the pages (III.), when answering the questions for more than one proposed projects.

Project No.	Name of proposed projects	
(No. of II-1)	or contents of the proposal	

IV-1 : Factors hampering the proposals

Please answer the questions below for the factors which hampered the proposals.

IV-1-1:	Please select the fa choices]	actors which hind	dered the utilization of the pr	oposals and describe i	n detail. [multiple
Politic	Economy	□ Policy	Public administration	Public security	Disaster
□ Lowered f	easibility	Inappropriat	e project scale	Postponement of re	lated project
Difficulty in	n securing fund from o	ther countries	Unknown	□Others	
Detail:					
IV-1-2:	(e.g., the point to be	e reconsidered to	onsidered in the proposal, if a o correspond the new policies sing anothermeans for capital	, the point to be reconsi	
Detail:					

IV-2: Situation of official request to other countries and international organization to utilize/realize to proposal

	Please select whether official request has been made to other countries or international organization for utilization/realization of the proposed project/content. [single choice]						
□ Official request has been made (go to IV-2-3)					$\hfill\square$ No official request has been made (go to IV-2-2)		
	Please select the situation regarding the request to other countries and international organization, i official request has been made. [single choice]						
 Decision has toV) 	been made to	make no official requ	uest (go	De to	cision has been made to make an offici ⁄)	al request (go	
□ In discussion	whether to mal	e an official request ((go toV)	□Unl	nown/ Undecided (go to V)		
IV-2-3: PI	Please answer the content of the request, if an official request has been made. [multiple choices]						
Subsequent Stu	ıdy						
□F/S	(Requested date:)	□B/D (Requested date:)	
□D/D	(Requested date:)	□E/S	(Requested date:)	
□ Review study (Requested date:		ted date:)	□Unknown)			
□Others	(Requested date:		,	Detai	:)	
Funding							
□ Yen loan (Reques		ted date:)	□Yen Grant Aid (Requested date:)	
□ Intl. org (Requested date:)	🗆 Priv	rate fund (Requested date:)	
Other countries (Reques		ted date:)				
□ Others	(Requested date:		,	Detai	:)	
Japanese Techr	nical Assistanc	e					
Tech. Cooperation Project		(Requested date:)	Training Program (Requested date:)	
Dispatch of experts		(Requested date:)			
□Others		(Requested date:		,	Detail)	
Others (detail)							

 \rightarrow Go to "V. Others"

V. Others

Please describe any other information not answered in the above questions regarding the "Development Study". For "Development Study" which did not make proposals, please provide any relevant information concerning the output of the study

If there is no new information to add, please indicate so below.

* Please provide information NOT mentioned in the "Study Summary Sheet" yet.

Details