

これらプロジェクトの現況は最初の案件は建設、進行中であり、次の案件は遅延の状況にある。また最後の案件は実現・具体化が進行中である。

プロジェクト実現のための資金調達、最初の案件が円借款によっているが、次の案件は担当機関が円借款を要望しているものの外貨借入れシーリングのため中断しており、民間投資によるべきだとされている。

東部工業港開発計画は、タイ国の国家経済社会開発計画の最重点プロジェクトの一つとして実現化が進められているものであり、開発調査から円借款に連携し、また開発事業のための専門家が派遣されており、完成に至っていないが、このように相手国の上位計画の最重点プロジェクトに対してM/P段階からプロジェクトの実現までの一貫した技術協力、資金協力は最も望ましい協力の形態であると言える。

#### (7) 海運・船舶

海運・船舶分野の調査対象案件は2件で、海運、船舶が各1件。いずれもF/Sである。

これらプロジェクトの現況は実現のため進行中のものと遅延のものとの背景は海運不況等の経済情勢やプロジェクトの財務分析の結果等によるものである。なお、資金調達は民間投資を予定している。

### III-3 技術移転

開発調査は、その成果である報告書の作成とともに調査実施の過程を通じての技術移転を目的としている。今回の調査はこのような開発調査の目的に照らしてプロジェクト実現の動向と併せて技術移転も調査項目としてアンケート及びヒアリングを行い、その成果に関する評価と実態について調査を実施した。

今回の調査対象案件22件に関する担当機関の技術移転に係る評価は前述のとおりであるが、その区分に応じた事例を整理すると概ね次のとおりである。

評価が非常に良いとしている事例としては、

- ① 現地での観測、測定あるいは試験施工等に参加することにより、カウンターパートによって新しい技術が移転された。
- ② 現地調査の実施を通じて相手国担当機関が早急に対応を迫られている課題に係る技術が移転された。
- ③ 現地調査の実施を通じて需要予測、計画立案から経済評価までの一連の調査手法に係る技術が移転された。

これらは相手側にとって技術移転を求める背景として切実な問題に直面している場合に移転される技術を習得する必要がある、他方、これに我が方の調査団が適切に対応した結果であるとみられる。

また、良いとしている事例としては、概ね現地調査においてカウンターパートにデータの収集と分析についての技術移転を行うほか、調査の過程で定期的に、または随時に調査の進捗状況と次の調査予定等を説明、協議してカウンターパートの当該案件の調査についての理解を深めたものである。

他方、普通としている事例としては、大量のデータ解析を日本国内の大型電算機で行ったり、また、現地調査が報告書の作成に集中されるなどのため調査団に時間的余裕がないところから、カウンターパートが希望する技術移転に、期待されるほどには応じられなかったものも含まれている。

これらのことから、相手国担当機関との S/W 及びコンサルタントとの業務実施契約の仕様書に技術移転の項目が簡単に記載してあるのみで、その実行は調査団とカウンターパートとの出会いによって如何ようにも変化するという状況から脱却して、相手国担当機関の要望を満たし、かつ実効あるものとするためには、開発調査の準備から実施を経て評価に至る段階までにわたって検討すべき課題が多くある。

## IV 結論と提言

### IV-1 結論

タイ国の運輸交通分野の開発調査実施済み案件を対象として実施した今回のフォローアップ調査の結果、調査団の結論は次の3点に要約される。

- ① フォローアップ調査によって対象分野（中分類）とそれを構成する分野（小分類）について実現化の状況及びプロジェクト実現のための資金調達が多様化の実情が把握された。これらの観点から今後とも主要援助対象国に関するフォローアップ調査は、分野別に体系的かつ継続性をもって実施すべきである。
- ② また、開発調査を効果的効率的に実施するにあたって、プロジェクトの発掘選定から調査成果の内容及び他の技術協力形態並びに資金協力への連携等について実行上留意すべき点が再確認された。
- ③ さらに、開発調査における技術移転の実施にあたっては、その準備、実行及び評価の各段階でとるべき措置について、いくつかの改善策が得られた。

以上について次節に提言を要約して記述する。

### IV-2 提言

#### (1) フォローアップ調査の体系的継続実施

今般、タイ国の社会開発関係の開発調査実施済み案件の過半数を占める運輸交通分野について調査した結果、そのプロジェクトの実現化の状況は前述のように、さらに細分した分野によって顕著な差異がみられた。これは、同国の数次にわたる国家経済社会開発計画の重要目標の施策の変遷あるいは経済・財政事情等に基づくものである。

したがって、開発調査実施済み案件数の多い他の主要援助対象国に対して同一分野で横断的にフォローアップ調査を実施することにより、各開発途上国の経済発展段階、国家開発計画及び経済・財政状況等から共通性や相異点が明らかになり、今後の当該分野に係る案件の発掘選定や調査実施の方法に関する指針となろう。

なお、上記のフォローアップ調査を効果的効率的に実施するには、調査対象の分野、国及び調査の実施時期、方法等について十分に検討のうえ中期的計画を作成し、これに基づいて実施することが必要である。

#### (2) 開発調査実施上の留意点

調査対象案件の実現状況で述べたように、まず、開発調査を効果的効率的に実施する前提としては、当然のことながら、相手国の国家開発計画、セクター計画等、上位計画の重要目

標に基づく優先度、緊急度の高いプロジェクトを発掘選定すべきこと、また、調査成果のうち財務分析、実施計画等はプロジェクト実現にあたっての資金調達が多様化に対応する内容、精度とすること、さらには、これらに伴ってのプロジェクトの管理運営及び法制度、組織確立のための提言並びに必要な応じて実現の指導・助言のための長・短期専門家の派遣によるフォロー等、他の技術協力形態との有機的連携が重要であるところから、これらを調査実施の段階で具体的に実行することが不可欠である。

さらには、プロジェクト実現化のために我が国の資金協力あるいは国際機関の資金協力との効率的連携を図る必要があり、これらの関係機関への調査実施状況及びその成果等の情報伝達を密にすることが肝要である。

### (3) 技術移転の改善策

開発調査の実施における技術移転は、まず受け手である相手国担当機関の組織として、また、その職員であるカウンターパートが個人として、どのような背景、動機から、どのような種類、内容及び程度の技術について移転を望んでいるかを、あらかじめ正確に把握することが、技術移転の成否を決める第一段階である。また、これに併せて適切に実行するには、移転される技術を理解・習得できるよう相手国担当機関の組織的対応及びカウンターパートの知識・資質の確認が不可欠である。

これらの前提条件に基づいて JICA として日本側の調査団が提供し得るコンサルタントのノウハウ、人的、時間的な可能性を調べ、また、その実行にあたって必要とされる経費面についても手当を行うなど態勢を整備し、本格調査にあたって、これを確実に実施し、その結果について調査団から報告を求め、また同時に相手国担当機関からの評価の提供を求めるとなどによって、実績を積み重ねて改善していくことが必要である。

# 資 料 編

1. 主要面会者リスト

2. アンケート様式

(1) M/P

(2) F/S

(3) D/D

(4) その他



1. 主要面会者リスト

Department of Technical and Economic Cooperation  
Office of the Prime Minister

NAME OF STUDY:

| No. | Full Name              | Title | Office | Tel.No.  |
|-----|------------------------|-------|--------|----------|
| 1   | MR.ACHARI YUKTANANDANA |       | DTEC   | 282-8798 |
| 2   | MR.GECHA CHAECHAI      |       | DTEC   | 282-8798 |
| 3   |                        |       |        |          |
| 4   |                        |       |        |          |
| 5   |                        |       |        |          |
| 6   |                        |       |        |          |
| 7   |                        |       |        |          |
|     |                        |       |        |          |

DOH (Department of Highways), Ministry  
of Transport and Communications

NAME OF STUDY:

| No. | Full Name                  | Title                                       | Office                           | Tel.No.  |
|-----|----------------------------|---|----------------------------------|----------|
| 1   | MR. SONGSWASDI DUANGRATANA | Director of Planning<br>Division            | Bangkok                          | 245-5200 |
| 2   | MR. SANTI SHINASHARKEY     | Director of Productivity<br>Road Office     | Bangkok                          | 245-5264 |
| 3   | MR. VICHAI RUANGSAWASDI    | Civil Engineer 6<br>Planning Division       | Bangkok                          | 245-5430 |
| 4   | MR. KITIPOL ASAPARPORN     | Director of Traffic En-<br>gineering Office | Bangkok                          | 245-5268 |
| 5   | *<br>MR. NAOKI SATO        | JICA Expert                                 | Planning Di-<br>vision           | 245-5430 |
| 6   | *<br>MR. TSUNEO KATO       | JICA Expert                                 | Traffic<br>Engineering<br>Office | 246-7760 |
| 7   |                            |   |                                  |          |
|     |                            |   |                                  |          |



The Overseas Economic Cooperation Fund of Japan  
Bangkok Office

NAME OF STUDY:

| No. | Full Name          | Title                 | Office                  | Tel.No.                     |
|-----|--------------------|-----------------------|-------------------------|-----------------------------|
| 1   | MR.TOSHIO FUJINAMI | Senior Representative | Bangkok Office,<br>OECE | 270-1001~3<br>271-2828,4682 |
| 2   | MR.SUSUMU IWAMOTO  | Representative        | Bangkok Office,<br>OECE | 270-1001~3<br>271-2828,4682 |
| 3   |                    |                       |                         |                             |
| 4   |                    |                       |                         |                             |
| 5   |                    |                       |                         |                             |
| 6   |                    |                       |                         |                             |
| 7   |                    |                       |                         |                             |
|     |                    |                       |                         |                             |

Expressway and Rapid Transit System Authority of Thailand

NAME OF STUDY:

| No. | Full Name              | Title                                     | Office | Tel.No.              |
|-----|------------------------|---|--------|----------------------|
| 1   | MR.VICHITR VATCHARINDR | Director, Technical and Planning Division | ETA    | 579-0044             |
| 2   | MR.PACHEARN PIROTESAK  | Chief of Project Planning Section         | ETA    | 579-5380~9<br>Ex.321 |
| 3   | MR.CHAISIT GURURATANA  | Transportation Engineer Grade 6           | ETA    | 579-5170             |
| 4   |                        |   |        |                      |
| 5   |                        |   |        |                      |
| 6   |                        |   |        |                      |
| 7   |                        |   |        |                      |
|     |                        |   |        |                      |

STATE RAILWAY OF THAILAND

|                         |   |
|-------------------------|---|
| Mr. Vanich Pansuwan     | Deputy Chief Civil Engineer<br>Civil Engineering Department |
| Mr. Chatchai Koomsup    | Assistant Engineer  |
| Mr. Prasert Attanandana | Assistant Engineer  |
| Mr. Supawan Sirichai    | Chief, Foreign Section                                      |

LAND TRANSPORT DEPARTMENT

|                    |   |
|--------------------|---|
| Mr. Pinyo Talaenoi | Manager, Technical and<br>Planning Division |
|--------------------|---|

PUBLIC WORKS DEPARTMENT

|                         |  |
|-------------------------|--|
| Mr. Niyom Niyamanusorn  | Director General   |
| Dr. Voravit Lortlaksana | Director, Bridge Construction<br>Office                      |
| Mr. Dongchai Tejasen    | Project Director, New Rama VI<br>Bridge Construction Project |
| Mr. Mana Mahasuverachai | Project Engineer, New Krung<br>Thep Bridge Project           |

MINISTRY OF TRANSPORT AND COMMUNICATION

|                           |  |
|---------------------------|--|
| Mr. Amphon Tiabhorn       | Deputy Permanent Secretary,<br>Marine Affairs                                    |
| Mr. Chaiyos Chaimankong   | Deputy Secretary General<br>Office of the Maritime<br>Promotion Commission       |
| Mr. Sarin Skulratana      | Director, International<br>Affairs Division                                      |
| Mrs. Parichat Kotcharat   | Chief, Foreign Relations<br>Sub-Division   |
| Miss Anong Settanant      | Policy and Planning Analyst<br>Planning Division                                 |
| Miss Jatporn Suwanpargaek | Transport Technical Officer<br>Transport and Communication<br>Economics Division |
| Mr. Puchanee Suksamiti    | Transport Technical Officer<br>Transport and Communication<br>Economics Division |

OFFICE OF THE BOARD OF INVESTMENT

|                             |                                       |
|-----------------------------|---------------------------------------|
| Mr. Pairot Sompouti         | Director<br>Project Analysis Division |
| Mr. Verasak Jittaverayapong | Engineer<br>Project Analysis Division |

HARBOUR DEPARTMENT

Sen.Lt. Chid Ongsuwan REN

Mr. Vichet Rojanadhamkul

Mr.Prawait Rugphan

Miss Cha-On Sawakon

Director General

Director, Technical Division

Dredging Engineer, Coastal

Dredging and Maintenance Div.

Transport Economist

Technical Division

J I C A 派遣専門家

遠藤 健二

タイ国有鉄道

土木工学

石丸 雅之

タイ国有鉄道

電気工学

鳥山

運輸省陸運局

交通工学

田端

Office of the Eastern  
Seaboard Development  
Committee

港湾工学

萩野 満

同上

工業開発

民間コンサルタント

金子 公生

八千代エンジニアリング(株) BMA

島田 宏

PCI

LCBP

2. アンケート様式

(1) M/P

QUESTIONNAIRE  
ON  
JICA ASSISTED DEVELOPMENT STUDIES

February 1989

NAME OF STUDY : THE COMPREHENSIVE STUDIES OF SUBURBAN MASS TRANSIT SYSTEM OF BANGKOK, RAIL COMMUTER SERVICES AND ELEVATED RAILWAY TRACK FOR BANGKOK

EXECUTING AGENCY : Dept. of Technical and Economic Cooperation, Office of the Prime Minister

PERIOD OF STUDY : From year 1978 to year 1979

SUMMARY

Project site : Greater Bangkok Area

Project objective : Establishment of Mass Transit System in GBA

Study result : Construction of new stations and double track lines (6 lines)

The purpose of this Questionnaire is to obtain follow-up information on present status of the JICA assisted Studies as well as to assist improvement of future cooperation including technical transfer.

1. Follow-up Actions and Present Status

(1) Please check one of the following to indicate present progress of the Study:

- a. Integrated into National Plan.
- b. Feasibility Study followed-up by:
  - International Agency
  - Japanese Agency
  - Thai Agency
  - Others
- c. No follow-up action was taken.
- d. Unknown.

(2) For those marked a in Question (1).

Q : In what field of National Plan was the Study integrated? Give name of the plan, if any.

---

---

(3) For those marked b. in Question (1).

Q1 : Give title of the Feasibility Study.

---

---

Q2 : Give name of the Consultants.

---

---

Q3 : Results of the Feasibility Study.

---

---

(4) For those marked c. in Question (1).

Q1 : What is the major reason why the Study was suspended?

---

---

Q2 : What are the possibilities of reviving the project and what factors will contribute?

---

---

Q3 : Give additional information, if any, relevant to realization of the project.

---

---

2. Questions regarding Performance of the Studies Assisted by JICA

(1) How was the Study positioned in developing strategies of Thailand? How is it positioned at present?

---

---

(2) What kind of technical transfer did you receive during the study period?

Indicate performed work items from the following:

- ( ) a. On-the-job training was performed in the course of Study.
- ( ) b. Special seminars and/or lectures were given.
- ( ) c. Individual training was arranged in Japan.
- ( ) d. Technical transfer was effectively performed through preparing Study Reports jointly with the Japanese team.
- ( ) e. Instructions were given for the equipment and materials donated after completion of the Study.
- ( ) f. Others.

(3) Please fill the attached "LIST OF PARTICIPANTS" to indicate performance of the technical transfer.

(4) How have you benefited from technical transfer performed by the Japanese team during the study period? Indicate specific work items for which the transferred technologies were utilized, if any.

---

---

---

3. Questions regarding Further Cooperation by Japan

Regarding the Study, what kind of further technical cooperation do you require?

---

---

---

4. Others

Please give your comments and/or suggestions for further improvement of future studies to be assisted by JICA.

---

---

---

Thank you for your cooperation.

LIST OF PARTICIPANTS IN TECHNICAL TRANSFER PERFORMED REGARDING THE STUDY

| No. | Full Name | Then Post | Present Post | Training in *<br>Japan or not | Specific Technical<br>Skill Transferred | Remarks |
|-----|-----------|-----------|--------------|-------------------------------|---|---------|
| 1   |           |           |              |                               |   |         |
| 2   |           |           |              |                               |   |         |
| 3   |           |           |              |                               |   |         |
| 4   |           |           |              |                               |   |         |
| 5   |           |           |              |                               |   |         |
| 6   |           |           |              |                               |   |         |
| 7   |           |           |              |                               |   |         |
| 8   |           |           |              |                               |   |         |
| 9   |           |           |              |                               |   |         |
| 10  |           |           |              |                               |   |         |

\* Check (X) for applicable participants.  
Please use duplicate of this format for participants exceeding 10 in number.



(2) F/S

QUESTIONNAIRE  
ON  
JICA ASSISTED DEVELOPMENT STUDIES

February 1989

NAME OF STUDY : THE PROJECT OF STRENGTHENING AND/OR REPLACEMENT OF STEEL BRIDGES ON THE STATE RAILWAY OF THAILAND FOR TRANS-ASIAN RAILWAY PROJECT

EXECUTING AGENCY : State Railway of Thailand (No. 1)

PERIOD OF STUDY : Year 1976

SUMMARY : Project site : All railways in Thailand run by S. R. T.  
Project objective : Strengthening and/or replacement of existing steel bridges  
Study result : Rehabilitation of 214 spans (169 bridges)

The purpose of this Questionnaire is to obtain follow-up information on present status of the JICA assisted Studies as well as to assist improvement of future cooperation including technical transfer.

1. Follow-up Actions and Present Status

(1) Please check one of the following to indicate present progress of the Study:

- a. Financial arrangement was made and project implementation is on-going or completed.
- b. Financial arrangement is still awaited for project implementation.
- c. No financial arrangement is expected.
- d. Unknown.

(2) For those marked a. in Question (1).

Q1 : Project proceeded due to the following reasons:

- a. Due to its advantageous economic and/or social effect.
- b. Closely related to other projects.
- c. Domestic financial condition was favorable.
- d. Positioned with high priority in National Plan.
- e. Promoted by agencies concerned.
- f. Others.

Q2 : Give brief information regarding finance and implementation schedule.

Source of finance : \_\_\_\_\_

Amount of investment:

Foreign currency \_\_\_\_\_

Local currency \_\_\_\_\_

Implementation schedule:

Loan agreement \_\_\_\_\_

Detail Design \_\_\_\_\_

Project execution \_\_\_\_\_

Q3 : Any change in project scope from the Feasibility Study and reasons for such change:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(3) For those marked b. in Question (1)

Q1 : Project implementation is delayed for the following reasons:

- ( ) a. Due to delay or change of other related projects.
- ( ) b. On account of postponement of international financing.
- ( ) c. Due to economic or political circumstances within Thailand.
- ( ) d. Others.

Q2 : State perspective regarding realization of the project in the future.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) For those marked c. in Question (1).

Q1 : Project was suspended at the following stage:

- ( ) a. After Feasibility Study was completed.
- ( ) b. After performing re-study.
- ( ) c. After making request for finance (Yen-Credit or others).
- ( ) d. After financial arrangement was made.

Q2 : Project was suspended for the following reasons:

- ( ) a. Economic circumstances including disfavored finance.
- ( ) b. Political or administrative change including alteration in priority.
- ( ) c. Technical or environmental problems.
- ( ) d. Delay or suspension of related projects.
- ( ) e. Others.

Q3 : What is the possibility to revive the project and what factors will contribute?

---

---

---

2. Questions regarding Performance of the Studies Assisted by JICA

(1) How was the Study positioned in developing strategies of Thailand? How is it positioned at present?

---

---

---

(2) What kind of technical transfer did you receive during the study period?

Indicate performed work items from the following:

- ( ) a. On-the-job training was performed in the course of Study.
- ( ) b. Special seminars and/or lectures were given.
- ( ) c. Individual training was arranged in Japan.
- ( ) d. Technical transfer was effectively performed through preparing Study Reports jointly with the Japanese team.
- ( ) e. Instructions were given for the equipment and materials donated after completion of the Study.
- ( ) f. Others.

(3) Please fill the attached "LIST OF PARTICIPANTS" to indicate performance of the technical transfer.

(4) How have you benefited from technical transfer performed by the Japanese team during the study period? Indicate specific work items for which the transferred technologies were utilized, if any.

---

---

---

---

**3. Questions regarding Further Cooperation by Japan**

Regarding the Study, what kind of further technical cooperation do you require?

---

---

---

**4. Others**

Please give your comments and/or suggestions for further improvement of future studies to be assisted by JICA.

---

---

---

Thank you for your cooperation.

LIST OF PARTICIPANTS IN TECHNICAL TRANSFER PERFORMED REGARDING THE STUDY

| No. | Full Name | Then Post | Present Post | Training in *<br>Japan or not | Specific Technical<br>Skill Transferred | Remarks |
|-----|-----------|-----------|--------------|-------------------------------|---|---------|
| 1   |           |           |              |                               |   |         |
| 2   |           |           |              |                               |   |         |
| 3   |           |           |              |                               |   |         |
| 4   |           |           |              |                               |   |         |
| 5   |           |           |              |                               |   |         |
| 6   |           |           |              |                               |   |         |
| 7   |           |           |              |                               |   |         |
| 8   |           |           |              |                               |   |         |
| 9   |           |           |              |                               |   |         |
| 10  |           |           |              |                               |   |         |

\* Check (X) for applicable participants.  
Please use duplicate of this format for participants exceeding 10 in number.

ADDITIONAL INQUIRIES ON SELECTED STUDIES ASSISTED BY JICA (1)

NAME OF STUDY : THE PROJECT OF STRENGTHENING AND/OR REPLACEMENT OF  
STEEL BRIDGE ON THE STATE RAILWAY OF THAILAND FOR  
TRANS-ASIAN RAILWAY PROJECT

EXECUTING AGENCY: STATE RAILWAY OF THAILAND

STUDY PERIOD : 1976

Main Features:

The JICA assisted Study made investigations on existing 214 spans (169 bridges), among which 197 spans were found requiring rehabilitation and 17 bridges to be replaced. Design methods were presented for reinforcement and reconstruction, and the total project cost was estimated to be 16,683 US dollars.

1. To what extent has the rehabilitation project been progressed since the recommendations were given in 1976?
  
  
  
  
  
  
  
  
  
  
2. How was budgetary consideration given by SRT to proceed with the rehabilitation work without allocating international financing?
  
  
  
  
  
  
  
  
  
  
3. How did the technical expert services after the Study contribute to actual implementation of the work?
  
  
  
  
  
  
  
  
  
  
4. In what aspects was the technical transfer through the Study beneficial for proceeding with the rehabilitation work?

(3) D/D

QUESTIONNAIRE  
ON  
JICA ASSISTED DEVELOPMENT STUDIES

February 1989

NAME OF STUDY : RAMA VI BRIDGE REHABILITATION PROJECT

EXECUTING AGENCY : State Railway of Thailand (No. 8)

PERIOD OF STUDY : Year 1982

SUMMARY            Project site        : Rama VI Bridge  
                     Project objective : Rehabilitation of Rama VI Bridge  
                     Study result       : Strengthening of piers C and D

The purpose of this Questionnaire is to obtain follow-up information on present status of the JICA assisted Studies as well as to assist improvement of future cooperation including technical transfer.

1. Follow-up Actions and Present Status

(1) Please check one of the following to indicate present progress of the Study:

- a. Financial arrangement was made and project implementation is on-going or completed.
- b. Financial arrangement is still awaited for project implementation.
- c. No financial arrangement is expected.
- d. Unknown.

(2) For those marked a. in Question (1).

- Q1 : Project proceeded due to the following reasons:
- a. Due to its advantageous economic and/or social effect.
  - b. Closely related to other projects.
  - c. Domestic financial condition was favorable.
  - d. Positioned with high priority in National Plan.
  - e. Promoted by agencies concerned.
  - f. Others.

Q2 : Give brief information regarding finance and implementation schedule.

Source of finance : \_\_\_\_\_

Amount of investment: \_\_\_\_\_

Foreign currency \_\_\_\_\_

Local currency \_\_\_\_\_

Implementation schedule:

Loan agreement \_\_\_\_\_

Detail Design \_\_\_\_\_

Project execution \_\_\_\_\_

Q3 : Any change in project scope from the Feasibility Study and reasons for such change:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(3) For those marked b. in Question (1)

Q1 : Project implementation is delayed for the following reasons:

- ( ) a. Due to delay or change of other related projects.
- ( ) b. On account of postponement of international financing.
- ( ) c. Due to economic or political circumstances within Thailand.
- ( ) d. Others.

Q2 : State perspective regarding realization of the project in the future.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) For those marked c. in Question (1).

Q1 : Project was suspended at the following stage:

- ( ) a. After Feasibility Study was completed.
- ( ) b. After performing re-study.
- ( ) c. After making request for finance (Yen-Credit or others).
- ( ) d. After financial arrangement was made.

Q2 : Project was suspended for the following reasons:

- ( ) a. Economic circumstances including disfavored finance.
- ( ) b. Political or administrative change including alteration in priority.
- ( ) c. Technical or environmental problems.
- ( ) d. Delay or suspension of related projects.
- ( ) e. Others.



Q3 : What is the possibility to revive the project and what factors will contribute?

---

---

---

2. Questions regarding Performance of the Studies Assisted by JICA

(1) How was the Study positioned in developing strategies of Thailand? How is it positioned at present?

---

---

---

(2) What kind of technical transfer did you receive during the study period?

Indicate performed work items from the following:

- ( ) a. On-the-job training was performed in the course of Study.
- ( ) b. Special seminars and/or lectures were given.
- ( ) c. Individual training was arranged in Japan.
- ( ) d. Technical transfer was effectively performed through preparing Study Reports jointly with the Japanese team.
- ( ) e. Instructions were given for the equipment and materials donated after completion of the Study.
- ( ) f. Others.

(3) Please fill the attached "LIST OF PARTICIPANTS" to indicate performance of the technical transfer.

(4) How have you benefited from technical transfer performed by the Japanese team during the study period? Indicate specific work items for which the transferred technologies were utilized, if any.

---

---

---

---

**3. Questions regarding Further Cooperation by Japan**

Regarding the Study, what kind of further technical cooperation do you require?

---

---

---

**4. Others**

Please give your comments and/or suggestions for further improvement of future studies to be assisted by JICA.

---

---

---

Thank you for your cooperation.

LIST OF PARTICIPANTS IN TECHNICAL TRANSFER PERFORMED REGARDING THE STUDY

| No. | Full Name | Then Post | Present Post | Training in *<br>Japan or not | Specific Technical<br>Skill Transferred | Remarks |
|-----|-----------|-----------|--------------|-------------------------------|---|---------|
| 1   |           |           |              |                               |   |         |
| 2   |           |           |              |                               |   |         |
| 3   |           |           |              |                               |   |         |
| 4   |           |           |              |                               |   |         |
| 5   |           |           |              |                               |   |         |
| 6   |           |           |              |                               |   |         |
| 7   |           |           |              |                               |   |         |
| 8   |           |           |              |                               |   |         |
| 9   |           |           |              |                               |   |         |
| 10  |           |           |              |                               |   |         |

\* Check (X) for applicable participants.  
Please use duplicate of this format for participants exceeding 10 in number.

ADDITIONAL INQUIRIES ON SELECTED STUDIES ASSISTED BY JICA (8)

NAME OF STUDY : RAMA VI BRIDGE REHABILITATION PROJECT

EXECUTING AGENCY: State Railway of Thailand

STUDY PERIOD : 1982

Main features:

The JICA assisted engineering services rendered rehabilitation design for the existing structures and studied future extension to implement double tracking of the railway to strengthen transport capacity.

1. How was the rehabilitation design utilized in actual implementation of the Project?
  
  
  
  
  
  
  
  
  
  
2. What results were obtained in railway operations through actual rehabilitation work so far performed?
  
  
  
  
  
  
  
  
  
  
3. What is the future perspective of the Project including double tracking in relation to the New Rama VI Bridge construction?
  
  
  
  
  
  
  
  
  
  
4. What fields in the technical transfer conducted were effective for enhancing capabilities of the sector concerned?

(4) OTHERS

QUESTIONNAIRE  
ON  
JICA ASSISTED DEVELOPMENT STUDIES

February 1989

NAME OF STUDY : ROAD IMPROVEMENT, REHABILITATION AND TRAFFIC SAFETY  
IN BANGKOK

EXECUTING AGENCY : Bangkok Metropolitan Administration

PERIOD OF STUDY : From year 1985 to year 1987

SUMMARY                      Project site        : Inside of Middle Ring Road in Bangkok  
                                 Project objective : Road improvement and rehabilitation for  
   traffic safety  
                                 Study result        : 11 locations recommended for improvement  
   Technical guidelines formulated

The purpose of this Questionnaire is to obtain follow-up information on present status of the JICA assisted Studies as well as to assist improvement of future cooperation including technical transfer.

1. Follow-up Actions and Present Status

(1) Give brief information regarding financial arrangements for respective road improvement plans recommended by the Study.

---

---

---

(2) What are implementation schedules for the above improvement projects recommended by the Study?

---

---

---

(3) What are the major changes in scope, costs and other aspects compared to the original Study?

---

---

---

---

(4) State perspective regarding realization of the remaining projects in the future.

---

---

---

---

(5) How are the technical guidelines given in the Study utilized in proceeding with road planning?

---

---

---

---

2. Questions regarding Performance of the Studies Assisted by JICA

(1) How was the Study positioned in developing strategies of Thailand? How is it positioned at present?

---

---

---

(2) What kind of technical transfer did you receive during the study period?

Indicate performed work items from the following:

- ( ) a. On-the-job training was performed in the course of Study.
- ( ) b. Special seminars and/or lectures were given.
- ( ) c. Individual training was arranged in Japan.
- ( ) d. Technical transfer was effectively performed through preparing Study Reports jointly with the Japanese team.
- ( ) e. Instructions were given for the equipment and materials donated after completion of the Study.
- ( ) f. Others.

- (3) Please fill in the attached "LIST OF PARTICIPANTS" to indicate performance of the technical transfer.
- (4) How have you benefited from technical transfer performed by the Japanese team during the study period? Indicate specific work items for which the transferred technologies were utilized, if any.

---

---

---

3. Questions regarding Further Cooperation by Japan

Regarding the Study, what kind of further technical cooperation do you require?

---

---

---

4. Others

Please give your comments and/or suggestions for further improvement of future studies to be assisted by JICA.

---

---

---

Thank you for your cooperation.

LIST OF PARTICIPANTS IN TECHNICAL TRANSFER PERFORMED REGARDING THE STUDY

| No. | Full Name | Then Post | Present Post | Training in *<br>Japan or not | Specific Technical<br>Skill Transferred | Remarks |
|-----|-----------|-----------|--------------|-------------------------------|---|---------|
| 1   |           |           |              |                               |   |         |
| 2   |           |           |              |                               |   |         |
| 3   |           |           |              |                               |   |         |
| 4   |           |           |              |                               |   |         |
| 5   |           |           |              |                               |   |         |
| 6   |           |           |              |                               |   |         |
| 7   |           |           |              |                               |   |         |
| 8   |           |           |              |                               |   |         |
| 9   |           |           |              |                               |   |         |
| 10  |           |           |              |                               |   |         |

\* Check (X) for applicable participants.  
Please use duplicate of this format for participants exceeding 10 in number.









JICA