

#### 4-5 ESTIMATED COST OF THE THAI PORTION OF THE PROJECT

(1) Total Cost

23,386,000 Baht

(2) Breakdown of Cost

1) Removal of Existing Floors	293,000 Baht
2) Drainage Installation Around Site	459,000
3) Ground Preparation	363,000
4) Fence Erection	2,229,000
5) Roads	300,000
6) Staff Housing Construction	16,116,000
7) Electrical Power Supply	500,000
8) Telephone Trunk Line	1,029,000
9) Water Supply	<u>2,097,000</u>
Total	23,386,000 Baht

(3) Detailed Breakdown

1) Removal of Existing Floors

a. Conditions

1. Removal of Existing Concrete Floors and Building on Site Subject  
Area - 3,000 m<sup>2</sup>
2. Concrete Floor (13 Places)  
1 Reinforced Concrete Building
3. Expected Removal Volume - 750 m<sup>3</sup>

b. Cost Calculation

1. Demolishing and Removal Cost of Reinforced Concrete Building  
5m<sup>3</sup> x B600/m<sup>3</sup> 3,000 Baht

2. Demolishing and Removal Cost of Concrete Floor	
745 m <sup>3</sup> x B328.85/m <sup>3</sup>	245,000 Baht
3. Disposal of Broken Glass	
750m <sup>3</sup> x B60/m <sup>3</sup>	45,000 Baht
Total	293,000 Baht

2) Drainage Installation around Site

a. Conditions

1. The provision of a reservoir of 10m wide, 220 m long and 1.5m deep to the north side of the site.
2. The provision of the following ditches and their connection to the above-described reservoir.

East Side: 2m (W) x 500m (L) x 1m (D)

West Side: 2m (W) x 550m (L) x 1m (D)

3. The provision of a connecting channel from the reservoir to the existing culvert.
4. The earth volume of 5,400 m<sup>3</sup> excavated to form the reservoir and ditches will be moved to the lower parts of the site and used in the ground preparation work to level the site.

b. Cost Calculation

Ditch Excavation

5,400m<sup>3</sup> x B85/m<sup>3</sup> 459,000 Baht

### 3) Ground Preparation

#### a. Conditions

1. The existing 4 banks on the eastern side of the site will be flattened to level the entire site.
2. The earth from these flattened banks will be used to fill in the ditches located at the centre of the site.
3. The earth from the newly excavated ditches will be moved to the lower parts of the site to level the entire site.
4. The ground preparation using the above-described earth should cover half of the entire site.

#### b. Cost Calculation

Ground Preparation Cost	
$72,600\text{m}^2 \times \text{B}5/\text{m}^2$	363,000 Baht
(half of the site)	

### 4) Fence Erection

#### a. Conditions

1. Fences will be erected to surround the site.
2. Apart from the work for the main gate, the fence erection cost will be borne by the Thai Government.
3. The total fence length is set at 1,715m.

#### b. Cost Calculation

Fence Erection Cost	
$1,715\text{m} \times \text{B}1,300/\text{m}$	2,229,500 Baht

5) Road Construction

a. Conditions

Roadwork with Staff Housing area, asphalt pavement

b. Cost Calculation

1,500m x B200 300,000 Baht

6) Construction of Staff Housing

a. Conditions

Four (4) grades of staff houses, total number of 75 units are to be constructed in accordance with government regulations.

b. Cost Calculation

Housing for PC5-6	B326,070 x 1	326,070 B
Housing for PC3-4	B227,580 x 47	10,696,260 B
Housing for PC1-2	B212,500 x 16	3,400,000 B
Housing for Permanent Employees		
	B153,970 x 11	<u>1,693,670 B</u>
Total		16,116,000 Baht

7) Electric Power Service Line

a. Conditions

Connections to the site are to be made from a 2,000 KVA power line existing at 500 metres from the site.

b. Cost Calculation

500M x B1,000 500,000 Baht

8) Telephone Service Line

a. Conditions

Connection to the site is to be made from an aerial cable existing along Highway 212 which is 2,570 metres from the site.

b. Cost Calculation

2,572M x B400

1,029,000 Baht

9) Water Supply Service Line

a. Conditions

Connection to the site is to be made from a 250mm main existing along Highway 212 which is 2,570 metres from the site.

b. Cost Calculation

2,576M x B830

2,097,000 Baht



**CHAPTER FIVE**  
**EVALUATION OF THE PROJECT**





## CHAPTER FIVE EVALUATION OF THE PROJECT

The objectives of the Sixth 5 Year Economic and Social Development Plan are to enhance the development of local regions, to create more employment opportunities in local areas by relocation of industries to the local regions, and to correct regional income differences.

For the economic development of Thailand, it is absolutely necessary that the industries are developed, and that its labour force is trained and upgraded. This is especially the case in the Lower Northeastern Region of Thailand.

At present there are 7 regional institutes for skill development under the Department of Labour of the Ministry of Interior. The Khon Kaen Institute for Skill Development (KISD) was constructed under the Japanese Grant Aid Programme, and has hitherto covered the Northeastern Region of Thailand. However, there are 17 provinces in this Region with a population of 17 million. This corresponds to one third of the total national population. The KISD, which is located in the centre of the northern area of the Northeastern Region, has not been able to fulfill the needs of the entire Region.

Through the establishment of this Institute at Ubon Ratchathani, which is the administrative and commercial centre of the lower or southern part of the Northeastern Region, it will become possible to effectively cover the large Northeastern Region by two institutes, and more youths will have opportunities to receive the much needed vocational training.

Successful operation of the UBISD can be expected to have the following economical and social effects.

- (1) Through the implementation of this Project, the youths without special skills in the Region will become able to receive more technical training, and thereby become more qualified to apply for employment in local industries. This will in turn help to increase the income of the Region which is said to be one of the lowest in the country.

- (2) Graduates of this Institute will find employment in local enterprises or contribute to the local economy by self-employed businesses. According to estimates by the Thai Government based on the past achievements of KISD within the same Region, 60% of the graduates will find employment in local enterprises and 5% will be self-employed in repair businesses of agricultural machinery, automobile, radio and television. However, in view of the present scarcity of employment opportunities in the Region, it is inevitable that some 35% of the graduates will, for some time, be compelled to seek employment in the Bangkok area or abroad. This will however be a great improvement in the sense that they have hitherto been forced to seek employment elsewhere as unskilled labourers. The undesirable concentration of population from the regions to the central metropolitan area of the country has been a national problem, but as the problem has been regarding people without skills, graduates of this Institute will pose little problem. The development of the regions through the promotion of local small to large scale enterprises is planned as a national policy. The promotion of self-employed enterprises will be the initial step to such developments, and when employment opportunities are increased in the future due to such developments, graduates of the Institute, as skilled workers, will become a most vital force to the development of the local industry.
- (3) Upgrading training to be provided at the Institute for those who are already employed will raise the skill level and quality of local workers, and thereby contribute to the promotion of the local industries.
- (4) Provision of training courses for women, which is to be one of the characteristics of the UBISD, will increase employment opportunities for women, thereby assisting the alleviation of the income differences. These courses for women consist of pre-employment training (manufacture of ceramics) and non-technical training (secretarial, dressmaking, housemaid, etc.)

- (5) Mobile training aiming at the provision of job training opportunities (small engine maintenance, motorcycle repair, welding and repair of household electrical appliances, etc.) in remote areas will provide various types of pre-employment and upgrading training for those people who have so far been deprived of such opportunities.
  
- (6) Pre-employment and upgrading training at the Institute will turn out skilled workers who will be able to pass national skill certificate examinations. Together with graduates of higher education, with equal knowledge and skills, they will contribute toward a higher social and educational standard of the Region.

As described above, it is believed that training at UBISD will alleviate the present shortage of skilled workers and contribute to the economic development of the Lower Northeastern Region of Thailand. Japanese aid for this Project will therefore be most worthwhile and significant.



**CHAPTER SIX**  
**CONCLUSIONS AND RECOMMENDATIONS**



## CHAPTER SIX CONCLUSIONS AND RECOMMENDATIONS

This Project aims at the establishment of a job training facility to provide technical training for unemployed youth and to improve the technical levels of those already employed. The training of technicians needed by local industries in the Lower Northeast Region of Thailand is in accordance with the objectives of the Thai Government's Sixth 5 Year Economic and Social Development Plan.

In answer to the request of the Government of Thailand, this Project has been planned on the basis that technical cooperation from the Government of Japan is to be provided for its operation. The special needs of local industries have been taken into consideration in determining the contents of the training program and curriculum. Close cooperation between officials of the Government of Thailand and members of technical cooperation teams from Japan have enabled the determination of the direction of training programs which are quite unique in comparison to other existing regional institutes.

In addition, the valuable experience gained through the implementation and operation of the neighbouring Khon Kaen Institute for Skill Development (KISD) (a Japanese grant aid and technical cooperation project) has been applied to the training programme of the UBISD in terms of the provision of new courses and the extension of the training periods so that the UBISD will succeed in fostering the technicians and semi-skilled workers required by local industries. The facility plan and equipment plan of the Basic Design Study have been prepared as a grant aid project.

In consideration of the positive economical and social contribution, this Project by its status, management system, budgetary arrangements and training programmes will make to National Economic and Social Development Plans appropriate to the Ubon area, and that the Project by Japanese grant aid for its realization will be highly significant. It is recommended that this Project be implemented as early as possible.

It is also suggested that the Government of Thailand pay particular attention to the following points in the implementation of the Project.

(1) Cooperation with NISD

The management of the UBISD will be controlled by the National Institute for Skill Development (NISD). Therefore, a system which allows close cooperation with the NISD, in such aspects as the improvement of the capabilities of the instructors, should be established.

(2) Recruitment, Training and Maintaining Staff Members

The successful achievement of the objectives of UBISD will depend upon the willingness and capabilities of the staff. In recruiting the staff for the Institute, those who have strong desires to contribute to the development of the region and Thai economy should be selected, on top of considerations being paid to their capabilities.

(3) Recruitment of Local Personnel

With regard to instructors in particular, local recruitment is recommended in view of the stronger possibility of longer services at the Institute. These instructors can be first trained at the NISD and then assigned to UBISD.

(4) Construction of Staff Housing

As the construction of staff housing is a very important factor for the implementation of the staff recruitment program, it is very important that the present construction schedule of the Thai Government is adhered to.



The present project-type technical cooperation programme being planned by the Japanese Government should be implemented through continuous cooperation between the two Governments. The fruits of discussions held in the past between the Thai Government and the technical cooperation teams should be heeded.



**ATTACHMENTS**



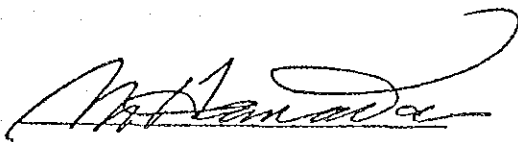
MINUTES OF DISCUSSION  
ON  
THE CONSTRUCTION PROJECT  
OF  
THE UBON INSTITUTE FOR SKILL DEVELOPMENT  
IN  
THE KINGDOM OF THAILAND

In response to the request made by the Government of the Kingdom of Thailand for the construction of the Ubon Institute for Skill Development at Ubon Ratchathani (hereinafter referred to as the "Project"), the Government of Japan decided to conduct a basic design study, and the Japan International Cooperation Agency (hereinafter referred to as "JICA") has sent to the Kingdom of Thailand from 25 November to 17 December 1986 the team headed by Mr. Michio Hamada, Director, Workers' Property Accumulation Department, Employment Promotion Corporation.

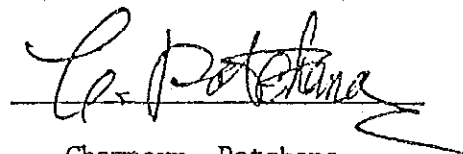
The team has carried out a field survey, held a series of discussions and exchanged views with the authorities concerned of the Government of the Kingdom of Thailand.

As a result of the study and discussion, both parties have agreed to recommend to their respective Governments to examine the results of the study attached herewith towards the realization of the Project.

Bangkok, December 4th, 1986



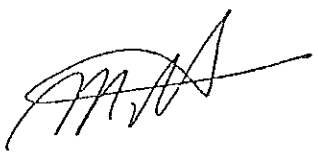
Michio Hamada  
Team Leader  
Japanese Basic Design Study Team  
JICA



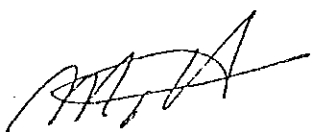
Chamarn Potchana  
Director General  
Department of Labour  
Ministry of Interior

ATTACHMENT

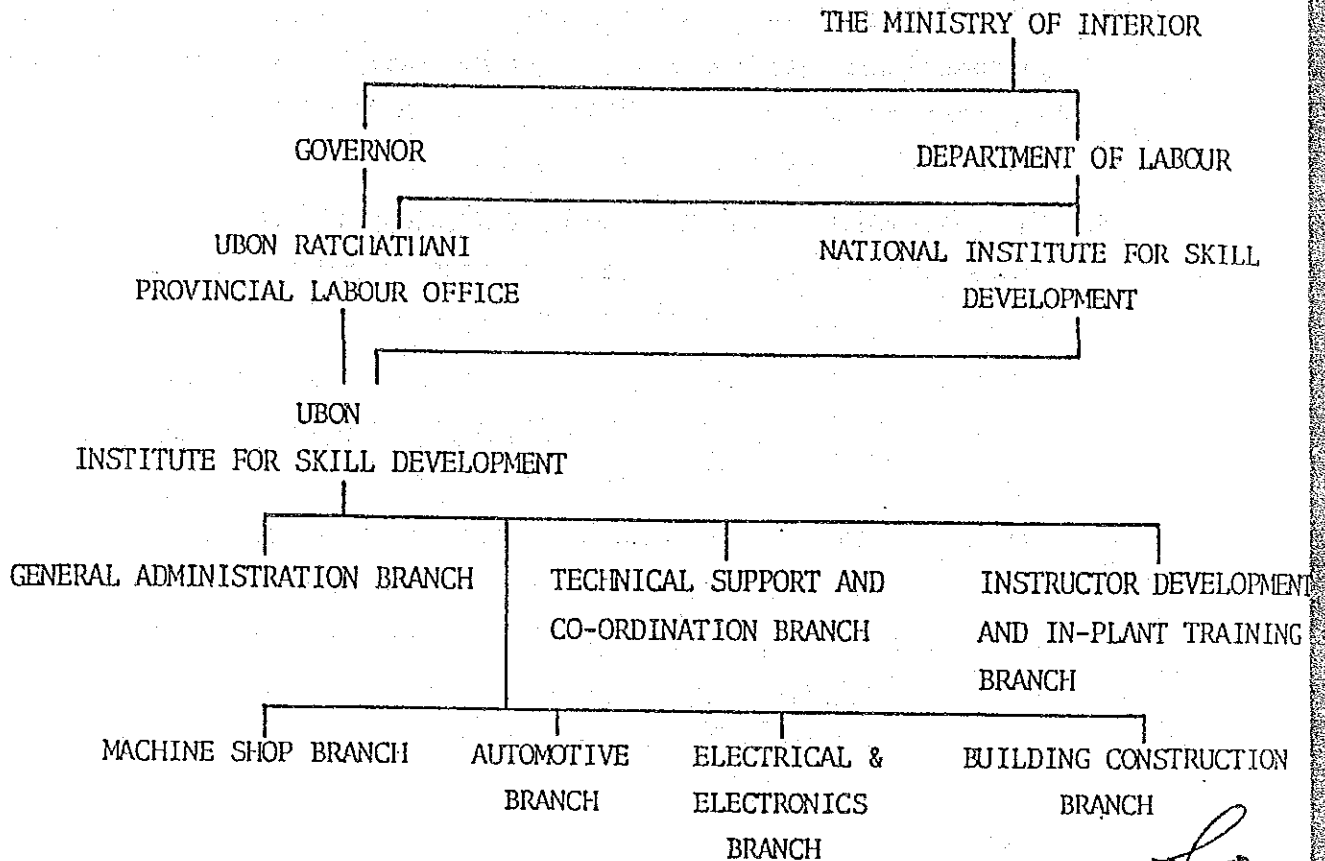
1. The objective of the Project is to construct the Ubon Institute for Skill Development (UBISD) (hereinafter referred to as the "Institute") for the purpose of fostering skilled manpower by providing skill development and training programme for out-of-school youths and others in the lower northeastern region of Thailand, and thus contributing to the improvement of employment opportunities and to the development of human resources and the national economy of Thailand.
2. The Institute is to be a government agency under the supervision of the Department of Labour, Ministry of Interior as shown in Annex I.
3. The proposed site, provided by the Government of the Kingdom of Thailand, is located in Ubon Ratchathani as shown in Annex II.
4. Main functions of the Institute are to be as follows :
  - (1) To provide and conduct Pre-employment Training
  - (2) To provide and conduct Up-grading Training
  - (3) To provide and conduct Non-technical Training
  - (4) To provide and conduct Mobile Training
  - (5) To conduct Trade Testing and Skill Competitions.
5. The Japanese Basic Design Study Team will convey to the Government of Japan the desire of the Government of the Kingdom of Thailand that the former takes necessary measures to cooperate in implementing the Project and provides buildings, facilities and training equipment as listed in Annex III within the scope of the Japanese economic cooperation programme in grant form.



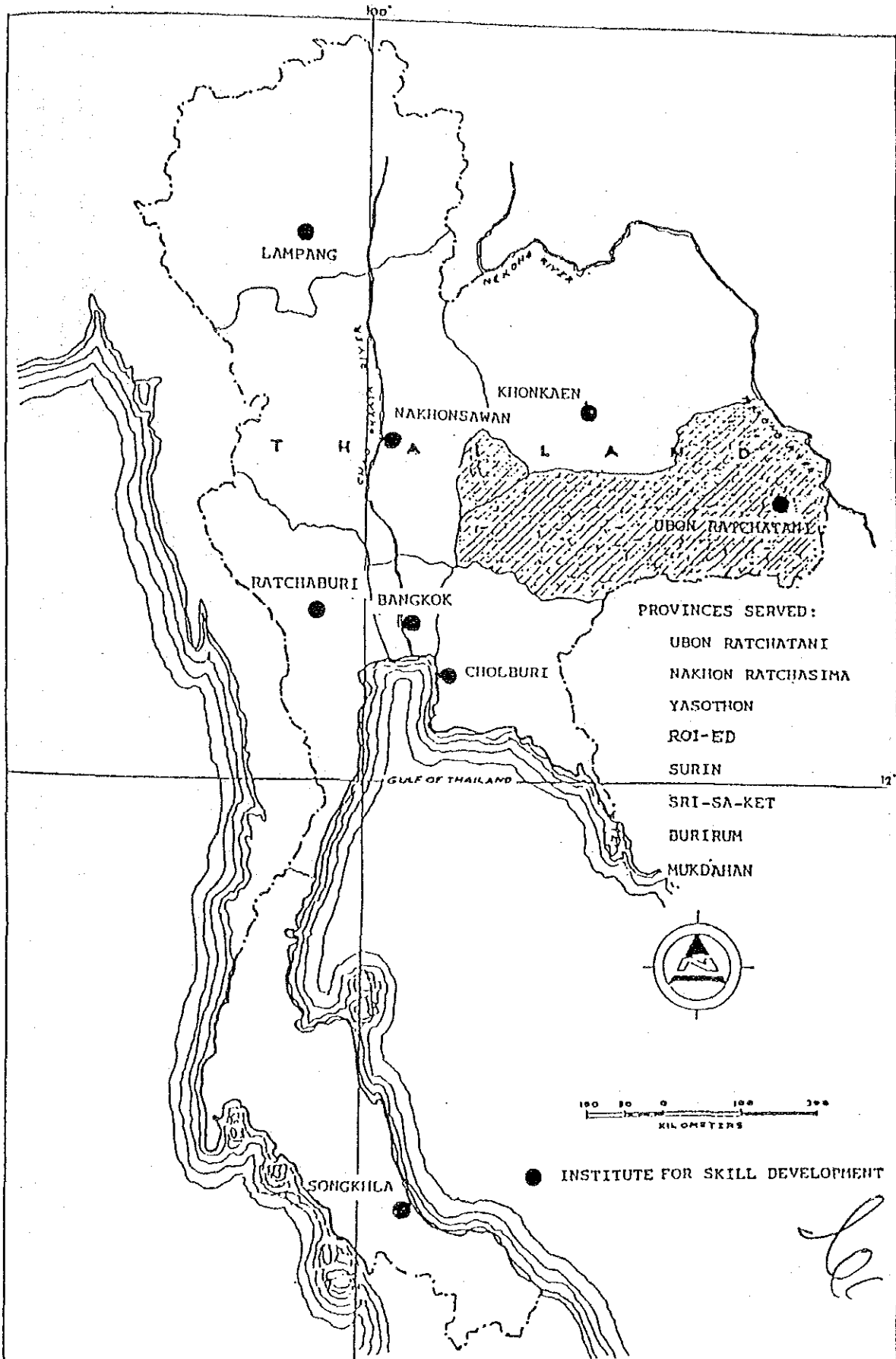
6. The Government of the Kingdom of Thailand will take necessary measures listed in Annex IV including budgetary preparation and personnel recruitment on condition that the grant assistance by the Government of Japan is extended to the Project.
7. Both sides confirmed that the Japanese Basic Design Study Team explained Japan's Grant Aid Programme, including the principle of the use of Japanese consulting firm (s) and Japanese general contractor (s), and that the Thai side understood it.
8. The Government of the Kingdom of Thailand will organize the provincial coordination committee in each province to promote the employment of trainees of the Institute in the Region as much as possible.
9. The Government of the Kingdom of Thailand reiterated the necessity of Technical Cooperation to the National Institute for Skill Development to support the activities of the Institute.
10. The Government of the Kingdom of Thailand confirmed that the staff housing should be provided by the Thai Government as an intergral part of the Institute in time for the start of the training activities of the Institute.



ANNEX I Organisation Chart of the Ubon Institute for Skill Development







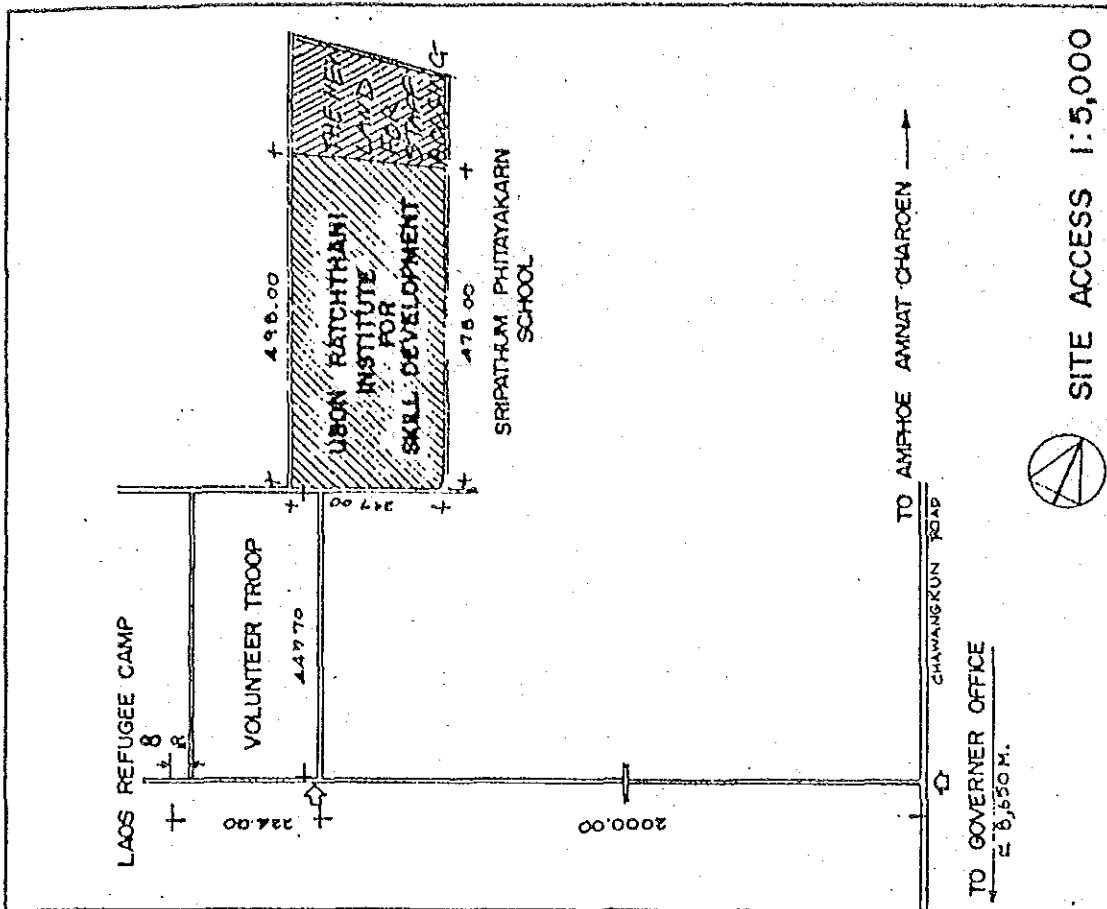
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ANNEX II/C1

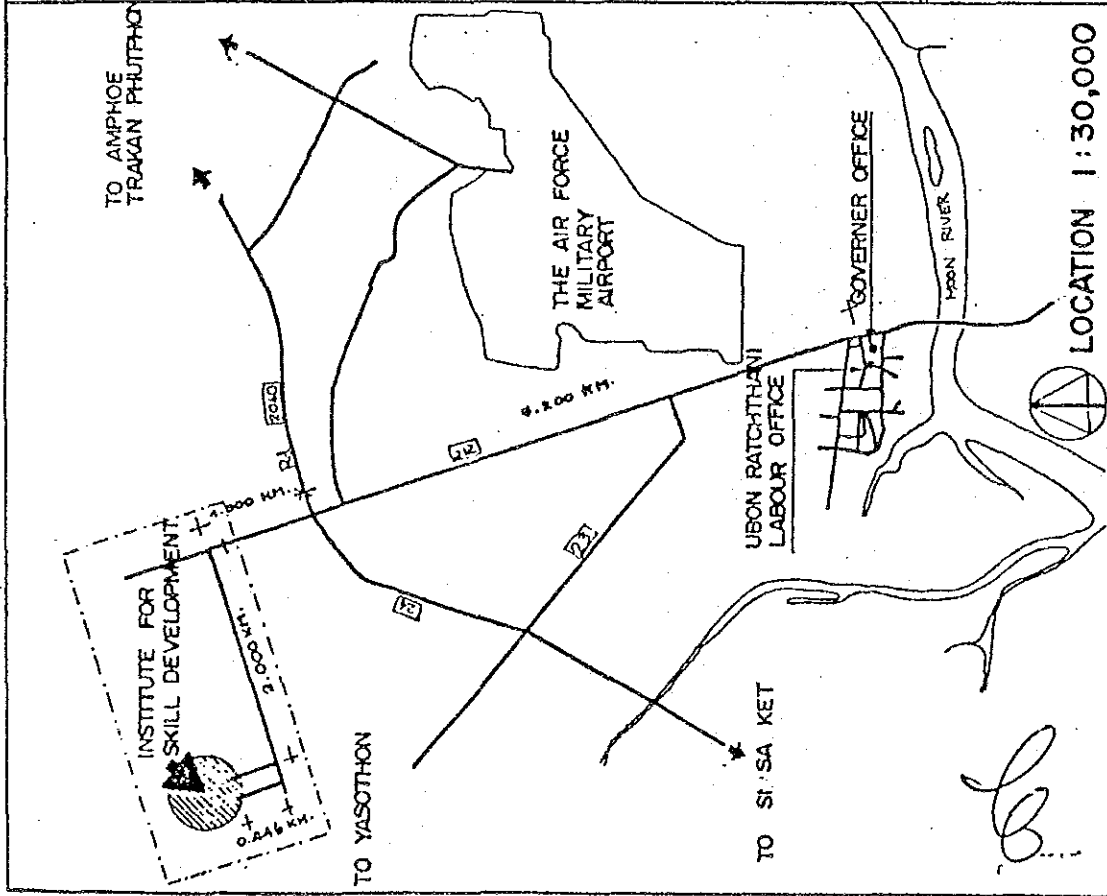
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ANNEX 2/3



ANNEX 2/2



project : UBON RATCHTHANI INSTITUTE FOR SKILL DEVELOPMENT

DEPARTMENT OF LABOUR  
MINISTRY OF INTERIOR

(1)

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ANNEX III ITEMS REQUESTED TO THE GOVERNMENT OF JAPAN BY  
THE GOVERNMENT OF THE KINGDOM OF THAILAND

A. BUILDINGS

1. Administration Building
2. Workshop Buildings
3. Multipurpose Training Building
4. General Storage
5. Canteen
6. Dormitory

B. TRAINING EQUIPMENT

1. Machine, Welding and Sheet Metal
2. Electrical and Electronics
3. Automotive
4. Building Construction
5. Mobile Training
6. Non-Technical Training

*CB*

*MAH*

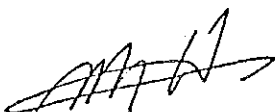
ANNEX IV UNDERTAKINGS BY  
THE GOVERNMENT OF THE KINGDOM OF THAILAND

1. To provide necessary data and information for preparation of basic design, detail design and for construction.
2. To secure land for the project site.
3. To clear and level the site as needed before the start of construction.
4. To connect electricity and city water supply lines up to the site for temporary construction activities.
5. To connect electricity, city water and drainage mains as applicable and necessary up to site in time for the completion of the Project.
6. To connect the telephone line to the MDF (Main Distribution Frame) to be equipped inside the Administration Building.
7. To provide general furniture and materials for daily activities of the Institute.
8. To undertake incidental civil work such as landscaping and fencing.
9. To ensure prompt unloading, tax exemption and custom clearance at port of disembarkation in Thailand, prompt internal transportation therein, of products purchased under the grant aid.

*C.*

*AAH*

10. To exempt Japanese nationals employed specifically on the Project from custom duties, internal taxes and other fiscal levies which may be imposed in Thailand with respect to the supply of products and services under the verified contracts.
11. To maintain and use properly and effectively the buildings, facilities and equipment purchased under the grant aid.
12. To bear all expenses, other than those to be borne by the grant aid, necessary for implementation of the Project.



MINUTES OF DISCUSSIONS

ON

THE PROJECT FOR CONSTRUCTING

THE UBON INSTITUTE FOR SKILL DEVELOPMENT

IN

THE KINGDOM OF THAILAND

In response to the request of the Government of the Kingdom of Thailand for Grant Assistance for the Project for Constructing the Ubon Institute for Skill Development (hereinafter referred to as "the Project"), the Government of Japan decided to conduct a basic design study on the Project and entrusted the study to the Japan International Cooperation Agency (JICA). JICA sent to Thailand the team headed by Mr. Michio HAMADA, Director, Workers' Property Accumulation Department, Employment Promotion Corporation, from 25th November to 17th December, 1986.

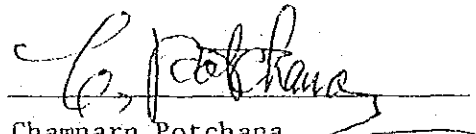
As a result of the study, JICA prepared a draft report and dispatched a team headed by Mr. Koichi IGARASHI, Deputy Director, Overseas Cooperation Division, Ministry of Labour, to explain and discuss it from 19th March to 26th March, 1987.

Both parties had a series of discussions on the Report and agreed to recommend to their respective Governments that the major points of understanding reached between them, attached herewith, should be examined towards the realization of the Project.

Bangkok, 26th March 1987



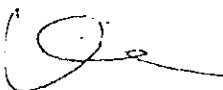
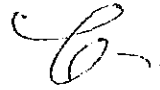
Koichi IGARASHI  
Team Leader  
Japanese Study Team  
JICA



Chamarn Potchana  
Director General  
Department of Labour  
Ministry of Interior

ATTACHMENT

1. The Thai side principally agreed to the basic design proposed in the Draft Final Report.
2. The Final Reports (10 copies in English) on the Project will be submitted to the Government of the Kingdom of Thailand by the beginning of May 1987.
3. The Thai side understood the system of Japan's Grant Aid Programme and confirmed the measures to be taken by the Thai side towards the realization of the Project.
4. The Thai side confirmed that it will take the necessary measures for preparation of the site and its electric power supply, water supply, telephone trunk line and drainage infrastructure in time for the start of construction activities to be performed under the Project, including budgetary provision therefore.
5. The Thai side ensured that the necessary budget for the effective operation and maintenance of the Project to be implemented under the Grant Aid will be provided along with an adequate number of Thai personnel with sufficient knowledge and experience.
6. The Project title is to be changed as "The Project for Constructing the Ubon Institute for Skill Development in the Kingdom of Thailand"



ATTACHMENT III--a BASIC DESIGN STUDY TEAM PARTICIPANTS

<u>Name and Role</u>	
1. Michio Hamada Team Leader	Director Workers' Property Accumulation Department Employment Promotion Corporation
2. Atsumu Funaba Vocational Training	Assistant Director First Training Guidance Division Vocational Training Department Employment Promotion Corporation
3. Hiroshi Manabe Grant Aid Policy Project Coordination	Grant Aid Division Ministry of Foreign Affairs
4. Masao Takahashi Architectural Planning and Coordination	Standing Advisor Matsuda, Hirata & Sakamoto Architects, Planners & Engineers, Inc.
5. Tadamasa Goto Architectural Design	Project Architect Matsuda, Hirata & Sakamoto Architects, Planners & Engineers, Inc.
6. Hisao Fukuda Training Equipment	Advisor Matsuda, Hirata & Sakamoto Architects, Planners & Engineers, Inc.
7. Tatsuya Morita Estimation	Project Engineer Matsuda, Hirata & Sakamoto, Architects, Planners & Engineers, Inc.
8. Noriyuki Matsuzaki Electrical and Mechanical Utilities	Project Engineer Matsuda, Hirata & Sakamoto Architects, Planners & Engineers, Inc.



ATTACHMENT III-b DRAFT REPORT STUDY TEAM PARTICIPANTS

Name and Role

- |   |   |
|---|---|
| 1. Koichi Igarashi<br>Team Leader                                   | Deputy Director<br>Overseas Cooperation Division<br>Ministry of Labour                    |
| 2. Masao Takahashi<br>Architectural<br>Planning and<br>Coordination | Standing Advisor<br>Matsuda, Hirata & Sakamoto<br>Architects, Planners & Engineers, Inc.  |
| 3. Tadamasa Goto<br>Architectural Design                            | Project Architect<br>Matsuda, Hirata & Sakamoto<br>Architects, Planners & Engineers, Inc. |
| 4. Hisao Fukuda<br>Training Equipment                               | Advisor<br>Matsuda, Hirata & Sakamoto<br>Architects, Planners & Engineers, Inc.           |

ATTACHMENT IV--a SCHEDULE OF BASIC DESIGN STUDY TEAM IN THAILAND

November, 1986

- 1 25th Tue Arrival in Bangkok by TG-741
- 2 26th Wed Discussions at JICA and Embassy of Japan  
Courtesy visit to DTEC  
Department of Labour (DOL)
  - Courtesy visit
  - Explanation of Inception Report
  - Discussion of Study Schedule
- 3 27th Thu Bangkok - Ubon Ratchathani by TH-204  
Ubon Ratchathani Provincial Office
  - Courtesy call to the Governor
  - Explanation of Inception ReportSite Survey  
Provincial Electricity Authority, Ubon  
Telecommunication of Thailand, Area 045  
Northeastern Water Supply Department, District-8
- 4 28th Fri Ubon Ratchathani - Khon Kaen by bus  
Ubon Ratchathani Prison
  - Observation of brick making process for UBISD Staff housesKhon Kaen Institute for Skill Development
- 5 29th Sat (A) Khon Kaen - Bangkok by TH-205  
(Hamada, Funaba, Manabe, Takahashi, Goto, Fukuda)  
National Institute for Skill Development
  - Confirmation of responsibilities  
Thai and Japan portions
  - Confirmation of provision of conveniences
  - Confirmation of UBISD operation and administration
  - Confirmation of overall constitution and layout of institute(B) Khon Kaen - Ubon Ratchathani by TH-202  
(Morita, Matsuzaki)  
Survey of construction conditions and local materials  
Collect weather data at the meteorology office
- 6 30th Sun (A) Consolidation of survey and study results  
Drawing of layout plans  
Drafting of minutes of discussions  
  
(B) Survey of construction conditions in Ubon  
Survey of UBISD site

December, 1986

- 7 1st Mon (A) National Institute for Skill Development  
Discussions of  
- UBISD Project policy  
- Constitution and layout of institute  
  
(B) Provincial Electricity Authority, Ubon  
Telecommunication of Thailand, Area 045  
Survey of UBISD site, PC pile manufacturing factory and  
depository of mixing sand
- 8 2nd Tue (A) National Institute for Skill Development  
Discussions of Training Equipment and Facilities  
Drawing of layout plans  
  
(B) Ubon Technical College  
Survey of construction conditions in Ubon
- 9 3rd Wed (A) National Institute for Skill Development  
Discussions of draft minutes of discussions  
Explanation of layout plans  
  
(B) Ubon Ratchathani - Bangkok by TH-205  
Joining to group (A)
- 10 4th Thu Department of Labour (DOL)  
Exchange of Minutes of Discussions  
Embassy of Japan and JICA Bangkok  
Report  
National Institute for Skill Development  
Discussions of Training Equipment
- 11 5th Fri Industrial Rehabilitation Centre, Bangkok  
(Holiday) Machine-Industry Development Institute, Bangkok
- 12 6th Sat Departure to Japan by TG-640  
(Hamada, Funaba, Manabe)  
Bangkok - Songkhla by TH-440  
(Takahashi, Goto, Fukuda, Morita, Matsuzaki)  
Songkhla Institute for Skill Development  
Songkhla - Bangkok by TH-345
- 13 7th Sun Consolidation of survey and study results  
Drawing of floor plans and workshop layout plans
- 14 8th Mon National Institute for Skill Development  
Discussions of  
- Workshop layout plans  
- Additional and changes of training equipment
- 15 9th Tue Bangkok - Nakong Sawan by small bus  
Nakong Sawan Institute for Skill Development  
Nakong Sawan - Bangkok by small bus

- 16 10th Wed Consolidation of survey and study results  
(Holiday) Drawing of floor plans and workshop layout plans
- 17 11th Thu National Institute for Skill Development  
(Takahashi, Goto, Fukuda)  
Discussions of Administration, Multipurpose  
Training and dormitory buildings layout plans  
Departure to Japan by TG-640  
(Morita, Matsuzaki)
- 18 12th Fri Consolidation of survey and study results  
Revision of plans and drawings
- 19 13th Sat Consolidation of survey and study results  
Survey of general construction conditions
- 20 14th Sun Consolidation of survey and study results  
Departure to Japan by JL-476  
(Fukuda)
- 21 15th Mon Survey of general construction condition
- 22 16th Tue Embassy of Japan, JICA Bangkok  
Report  
Department of Labour (DOL), National Institute for Skill  
Development  
visit and report
- 23 17th Wed Departure to Tokyo by TG-740  
(Takahashi, Goto)

ATTACHMENT IV-b SCHEDULE OF DRAFT REPORT STUDY TEAM IN THAILAND

March 1987

- 0 15th Sun Arrival in Bangkok (Koichi Igarashi, Team Leader)
- 1 18th Wed Arrival in Bangkok (M. Takahashi, T. Goto, H. Fukuda)  
JL 473
- 2 19th Thu 09:00 Japan International Cooperation Agency (JICA)  
Discussions on study schedule and Draft Report
- 11:00 Department of Technical and Economic Cooperation  
Explanation of Draft Report
- 14:00 National Institute for Skill Development (NISD)  
Discussions on study schedule  
Submission of Draft Report
- 17:00 Embassy of Japan (Igarashi)  
Explanation of Draft Report
- 3 20th Fri 09:00 NISD  
Discussions (1) Buildings
- 10:00 Embassy of Japan (Igarashi, Takahashi)  
Explanation of Project
- 12:30 Luncheon hosted by Study Team
- 14:00 NISD  
Discussions (2) Training Equipment  
Machine  
Welding and Sheetmetal
- 19:00 Dinner hosted by Department of Labour
- 4 21st Sat Consolidation of Discussions and General Studies
- 5 22nd Sun Consolidation of Discussions and General Studies
- 6 23rd Mon 09:00 NISD  
Discussions (3) Training Equipment  
Auto Mechanics  
Car Body Repair  
Agro Mechnics  
Electric and Electronics  
Audio Visual  
Painting  
Building Construction

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| 7  | 24th Thu | 09:00   | NISD<br>Discussions (4) Training Equipment and Buildings<br>Ceramics<br>Mobile Training<br><br>Main Building<br>Workshops |
| 8  | 25th Wed | 09:00   | NISD<br>Discussions (5) General<br>Sharing of responsibilities<br>Drafting of Minutes of Discussions                      |
| 9  | 26th Thu | 09:00   | Department of Labour<br>Exchange of Minutes of Discussions<br><br>11:00 Embassy of Japan and JICA                         |
| 10 | 27th Fri | Departure to Tokyo<br>CX 750 Bangkok - Hongkong<br>CX 500 Hongkong - Narita |   |

ATTACHMENT V-a LIST OF PERSONS INTERVIEWED (BASIC DESIGN STUDY)

Embassy of Japan

Mr. Kazuyoshi Urabe	Councillor
Mr. Shotaro Nakamura	First Secretary

JICA Bangkok Office

Mr. Norimoto Goto	Representative
Mr. Yukihiisa Sakurada	Deputy Representative
Mr. Yoshifusa Shikama	

Department of Technical and Economic Cooperation (DTEC)

Mr. Suthin Susila	Chief, Japan Subdivision
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Department of Labour, Ministry of Interior

Mr. Chamnarn Potchana	Director General
Mr. Chalong Sawetayong	Deputy Director General
Mr. Ar-nan Siripatana	Labour Affairs Officer
Mr. Hirofumi Hayashi	Advisor on Labour Administration

National Institute for Skill Development

Mrs. Amporn Junenanond	Director
Mrs. Chariya Khanthavit	Chief, Technical & Support Branch
Ms. Panida Thanaporn	Planning & Project Officer
Mr. Santi Bumrungraunakorn	Curriculum Development

Machine, Welding and Sheet Metal Shops

Mr. Prasong Yudee	Machining
Mr. Wuti Thongdee	Welding
Mr. Somkiart Kakonpadapkoorn	Welding

Electrical, Electronics, Air-conditioning and Refrigeration Shops

Mr. Somsak Sumotayakul	Chief, Electric & Electronics
Mr. Somtop Tuppatat	Electrical
Mr. Kumpol Boongong	Electrical
Mr. Santara Gettupan	Electronics

Automotive Shop

Mr. Wichien Chantarasiri	Chief, Automotive
Mr. Narong Tuomvong	Chief, Engine
Mr. Sommai Pondhi-ua	Chief, Car-body Repair

Building Construction Shop

Mr. Somchart Lekhalawan	Chief, Construction
Mr. Somyos Pathumwan	Chief, Plumbing
Mr. Ratchentra Nidhiphabha	Project Coordinator
Ms. Kanungnich Kosalwat	Chief, Drawing & Survey
Ms. Lipda Udomvarakulchai	Drawing
Mr. Taveesak Yuktanantana	Product Designer
	Instructor of Ceramics

Ubon Ratchathani Provincial Office

Mr. Danai Kasiri	Governor
Mr. Narong Chimthanoo	Chief Officer
	Dept of Labour, Ubon
Ms. Duangdhan Chairaj	Deputy Chief Officer
	Dept of Labour, Ubon
Mrs. Porntip Tongalen	Officer, Dept of Labour, Ubon

Northeastern Water Supply Department, District-8 Ubon Ratchathani

Mr. Chavang Chusri	Director
Mr. Sakda Vongsalert	Head of Design Section

Provincial Electricity Authority, Ubon Ratchathani

Mr. Kriangkrai Tantayakul	Chief, Operation Section
Mr. Kasemsant Pipithdugdee	Chief, Planning Section
Mr. Sunti Sukkavee	Assistant, Planning Section
Mr. Thongchun Changarchit	Elec. Engineer
Mr. Nikhon Jintawech	Assistant, Technical Sec.
Mr. Jane Poonpanit	Chief Maintenance
Miss Sukanya	Economist
Mr. Panom	Economist

Telecommunication of Thailand, Area 045 Ubon Ratchathani

Mr. Visnu Svetkunchorn	Chief, Maintenance Centre
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Ubon Ratchathani Technical College

Mr. Charoen Chummuel	Welding
Mr. Pradith Phachuen	Civil Engineering

Khon Kaen Provincial Office

Mr. Wattanov Thongamkeo	Chief, Dept of Labour, Khon Kaen
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Khon Kaen Institute for Skill Development (KISD)

Mr. Sakda Bunyopprakarn	Director
Mr. Paywat Kamnuausin	Building & Construction
Mr. Panich Chitchang	Automotive
Mr. Rasem Viset	Machining
Mr. Wattana Thimamontre	Inplant Training
Miss Kayoon Kanarungrueng	Coordination

Songkhla Institute for Skill Development (SISD)

Mr. Kritsada Somchaipeng	Machining
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Nakong Sawan Provincial Office

Mr. Veera Spivait	Chief, Dept of Labour, Nakong Sawan
Mr. Chitra Heamin	Assistant, Dept of Labour, Nakong Sawan



Nakong Sawan Institute for Skill Development (NSISD)

Mr. Prapass Patanapan	Director
Mr. Thanat Prina	Mechanical & Welding
Mr. Pongtai Musikapong	Special Training
Mr. Chamnansilp Sookying	Building Construction
Mr. Pongsak Chaesida	General Administration
Mr. Pramual Suksathit	Electrical
Mr. Boonprong Ousiri	Mechanical Engineering
Ms. Suvanna Leelarthaephivtr	Coordination & Planning

Industrial Rehabilitation Centre, Bangkok (IRC)

Mr. K. Yonekawa	JICA Team Leader
Mr. Toshimichi Aoki	JICA Coordinator

Metal-Working and Machinery Industries Development Institute (MIDI)

Mr. Tetsuo Watanabe	Resident Engineers Matsuda, Hirata & Sakamoto Architects, Planners & Engineers, Inc.
Mr. Yasuharu Nishimura	Resident Technical Supervisor The Material Process Technology Center of Japan
Mr. Takeshi Shibata	Superintendent Hazama-Gumi, Ltd.

ATTACHMENT V-b LIST OF PERSONS INTERVIEWED (DRAFT REPORT STUDY)

Embassy of Japan

Mr. Akitane Kiuchi	Ambassador
Mr. Shintaro Yamashita	Minister
Mr. Kazuyoshi Urabe	Councillor
Mr. Shotaro Nakamura	First Secretary
Mr. Katsusuke Ihara	First Secretary

JICA Bangkok Office

Mr. Yukihiisa Sakurada	Deputy Representative
Mr. Yoshifusa Shikama	

Department of Technical and Economic Cooperation

Mr. Krisda Piampongsant	Chief, Japan Subdivision
Mr. Thawal Polpuech	Japan Subdivision

Department of Labour, Ministry of Interior

Mr. Chammarn Potchana	Director General
Mr. Chalongsawetayong	Deputy Director General
Mr. Rong Charoensiri	Deputy Director General
Mr. Anan Siripat	Senior Labour Officer, International Labour Affairs Division

National Institute for Skill Development

Ms. Amporn Junenanond	Director
Ms. Chariya Khanthavit	Chief, Technical & Support Branch
Ms. Weena Pakawaong	Chief, Instructor Development
Mr. Udom Kednaratkul	Chief, Planning Division & Project Unit
Ms. Panida Thanaporn	Planning & Project Officer

Machine, Welding and Sheet Metal Shops

Mr. Prasong Yudee	Machining
Mr. Wuti Thongdee	Welding

Electrical, Electronics, Air-conditioning and Refrigeration Shops

Mr. Somsak Sumotayakul	Chief, Electric & Electronics
Mr. Kumpol Boongong	Electric & Electronics

Automotive Shop

Mr. Wichien Chantarasiri	Chief, Automotive
Mr. Narong Tuomvong	Chief, Engine
Mr. Sommai Pondhi-ua	Chief, Car-body Repair

Building Construction Shop

Mr. Somchart Lekhalawan	Chief, Construction
Mr. Somyos Pathumwan	Chief, Plumbing
Mr. Ratchentra Nidhiphabha	Project Coordinator
Ms. Kanungnich Kosalwat	Chief, Drawing & Survey
Mr. Taveesak Yuktanantana	Product Designer
	Instructor of Ceramics







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