

## 付 属 資 料

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1. Minutes of Meetings (事前評価調査時)

MINUTES OF MEETINGS  
BETWEEN JAPANESE PREPARATORY STUDY TEAM AND  
AUTHORITIES CONCERNED OF THE GOVERNMENT OF THE KYRGYZ REPUBLIC  
ON THE PROJECT FOR THE CAPACITY BUILDING OF ROAD MAINTENANCE IN THE KYRGYZ REPUBLIC

The Japanese Preparatory Study Team (hereinafter referred to as "the Team") organized by the Japan International Cooperation Agency (hereinafter referred to as "JICA") and headed by Mr. Hiroshi Takeuchi, had a series of meetings with the Ministry of Transport and Communications (hereinafter referred to as "MOTC") for the purpose of discussing the details of the technical cooperation concerning the Project for the Capacity Building of Road Maintenance in the Kyrgyz Republic (hereinafter referred to as "the Project").

The Team exchanged views and had a series of discussions with MOTC in respect of the desirable measures to be taken by both Governments for the successful implementation of the Project.

As a result of the discussions, the Team and MOTC agreed to recommend to their respective Governments the matters referred to in the documents attached hereto.

Bishkek, November 2, 2007

竹内 博史

Mr. Hiroshi Takeuchi  
Leader  
Preparatory Study Team  
Japan International Cooperation Agency

A. Abdyrahman

Mr. Abdyrahman Mamataliev  
Head of Administration  
Ministry of Transport and Communications

(Witnessed by)

Ms. Ainura

Ms. Ainura Mavlyanova  
Head of External Technical and Program Ai  
Unit, Department of External Aid  
Ministry of Finance

I. PROJECT TITLE

Both sides have agreed that the Project title is “the Project for the Capacity Building of Road Maintenance in the Kyrgyz Republic”.

II. PROJECT DESIGN MATRIX (PDM) and PLAN OF OPERATION (PO)

Both sides had a series of discussions and have agreed with the tentative Project Design Matrix (PDM) and Plan of Operations (PO) for the Project as shown in ANNEX I and ANNEX II. The PDM and PO are to be flexibly revised by the discussion and agreement between MOTC and JICA in the form of Minutes of Meetings, reference to the Record of Discussions.

III. ORGANIZATION OF PROJECT IMPLEMENTATION

1. Joint Coordination Committee

For the effective and successful implementation of technical cooperation for the Project, the Joint Coordination Committee will be established in order to fulfill the following functions:

- 1) To approve the annual work plan of the Project based on the PO within the framework of the Record of Discussions.
- 2) To evaluate the result of the annual work plan and the overall progress of the Project.
- 3) To review and exchange opinions on major issues that arise during the implementation of the Project.

The Joint Coordinating Committee will be held at least once a year. The Chairperson will be the Permanent Secretary of MOTC and will bear overall responsibility for the administration and implementation of the Project. Other members of the Joint Coordinating Committee are as stated in the ANNEX III.

2. Executive Committee

For the effective and successful implementation of technical cooperation for the Project, the Executive Committee will be established in order to fulfill the following functions:

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- 1) To formulate the quarterly work plan of the Project in line with the annual work plan of the Project.
- 2) To review the progress of the Project as well as the quarterly work plan.
- 3) To exchange views on issues arising in connection with the Project.

The Executive Committee will be held at least once a quarter of a year. The Chairperson will be the Director of the Main Road Department of MOTC and will be responsible for managerial and technical matters of the Project. Other members of the Executive Committee are as stated in the ANNEX III.

### 3. Organization Chart

The Organization Chart of the Project is given in ANNEX III.

## IV. TERM OF COOPERATION

The duration of technical cooperation for the Project would be three (3) years.

## V. INPUT TO THE PROJECT BY THE KYRGYZ SIDE

### 1. Assignment of Personnel

The Kyrgyz side has agreed to assign counterpart personnel at each organization for each Japanese expert.

### 2. Allocation of Counterpart Budget

The Kyrgyz side agreed to allocate necessary budget for implementation of the Project, including Kyrgyz Officers' personnel cost and other recurrent cost.

### 3. Land, Building, Facilities and Equipment

The Kyrgyz side has agreed to provide necessary land, office, office facilities for implementation of the Project.

### 4. Undertakings

MOTC will provide a letter regarding tax/fees exemption and necessary assistance to the experts where required for work related items/equipment.

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## VI. INPUT TO THE PROJECT BY THE JAPANESE SIDE

### 1. Dispatch of Long-Term and Short-Term Experts

The Japanese side will dispatch experts in the following field to ensure the smooth implementation of the Project. Composition of the fields may be changed in the process of detail designing the Project.

- 1) Chief Advisor / Road Maintenance Policy
- 2) Road Engineer for Road Inventory
- 3) Road Engineer for Road Standard
- 4) Structure Specialist
- 5) Road Maintenance Management Specialist

### 2. Training of Kyrgyz Counterpart Personnel in Japan

For improvement of the knowledge on Road Maintenance, maximum two counterparts per year will be trained in Japan. The participants and the contents of the training are to be decided upon the basis of purpose of the Project.

### 3. Provision of Machinery and Equipment

If both sides agree that provision of small scale training equipment and tools are necessary for effective implementation of the Project, MOTC and JICA will confirm the details in the form of Minutes of Meetings, reference to the Record of Discussions within the budget allocated for the Project.

## VII. RECORD OF DISCUSSIONS

The Record of Discussions will be signed between the JICA Kyrgyz Republic Office and MOTC to determine the framework of the Project. The Record of Discussions would include the contents of this Minutes of Meetings.

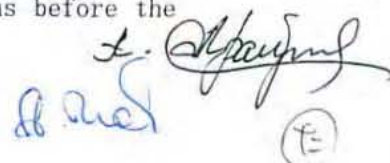
## VIII. OTHERS

### 1. Evaluation by Joint Coordination Committee

The Periodical Evaluation of the Project will be conducted by the Joint Coordination Committee.

### 2. Final Evaluation

The Final Evaluation of the Project will be conducted six months before the

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completion of the cooperation term jointly by the Kyrgyz authorities and JICA in order to examine the level of achievement.

3. Mutual consultation

There will be mutual consultation between MOTC and JICA on any major issues arising from or in connection with the Project.

4. Claims against Japanese Experts

The Government of the Kyrgyz Republic undertakes to bear claims, if any, arises against the Japanese experts engaged in the Project resulting from or occurring in the course of or otherwise connected with the discharge of their official functions in the Kyrgyz Republic except for those arising from the willful misconduct or gross negligence of the Japanese experts.

5. Measures to promote understanding of and support for the Project

For the purpose of promoting support for the Project among the people of the Kyrgyz Republic, MOTC will take appropriate measures to make the Project widely known to the people of the Kyrgyz Republic.

6. Pilot Project Site

Both sides agreed that the candidate pilot project site is Kochkor under Regional Maintenance Office 955.

ANNEX:

- I. Design Matrix (PDM)
- II. Plan of Operations (PO)
- III. Organization Chart of the Project

*t. Oshayimul*  
*A. Oshayimul*  
(E)

Project Design Matrix (Draft)  
 The Project for the Capacity Building of Road Maintenance in the Kyrgyz Republic  
 Target Group: Ministry of Transport and Communications (MOTC), Main Department of Roads

Project Implementation Period: From February or March 2008 (36 months)

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption
<p><b>Overall Goal</b>                      Road network is properly maintained and economic activities and accessibility to public infrastructure are improved.</p>	<p>1. Annual damaged distance of road is decreased. (Annual damaged distance : P, T )                      2. Annual maintenance distance of road is increased. (Annual maintenance distance : P, T )                      3. Highway is trafficable year-roundy. (P annual trafficable period : )</p>	<p>1-1 Changes in cost of RM.                      1-2 PASSPORT, Annual road condition report                      2-1 Changes in cost of RM.                      2-2 PASSPORT, Annual road condition report                      3-1 Changes in cost of RM.</p>	<p>- Budget for MOTC is not decreased.</p>
<p><b>Project Purpose</b>                      Road maintenance capacity management, (institution, technique) is improved.</p>	<p>1. Planning technique is established for RM and repair.                      2. Information management is established for RM.                      3. Inspection system on quality assurance is established for RM and repair.                      4. The necessary condition t is provided for contract out RM works.                      5. Monitoring system and evaluation method are established for completed works.</p>	<p>1-1 RM manual                      2-1 PASSPORT 2-2 Organization flow                      3-1 Quality assurance manual                      3-2 Work evaluation report, Monitoring report                      4-1 Contract out manual                      4-2 Tender evaluation report                      5-1 Work evaluation report, Monitoring report</p>	
<p><b>Output</b></p>			
<p>1. Revised Road Inventory</p>	<p>1-1 PASSPORT is provided at the model site.                      1-2 PASSPORT information is renewed periodically. (Annual renewals : P, T )                      1-3 PASSPORT in no-model sites are provided. (Completion T : )                      1-4 New PASSPORT format is revised and finalized by MOTC staff.</p>	<p>1-1 PASSPORT                      1-5 Road design guideline and manual</p>	<p>- PASSPORT has been utilized as a tool for road maintenance management.                      - Instructed staff through the Project will take root in MOTC.</p>
<p>2. Revised Design Standard</p>	<p>2-1 Road design guideline and manual is revised and/or provided for actual operation.                      2-2 Provided guideline and manual gains widespread use. (Penetration rate : )                      2-3 Road design is made by the staff of MOTC. (No. of cases : )                      2-4 No. of engineer who is able to design is increased. (P : , T )</p>	<p>2-1 Road design guideline and manual                      2-2 Interview analysis for each office                      2-3 Design report                      2-4 Technical instruction record, Evaluation record at the workshop on design</p>	<p>- Budget for road maintenance and equipment maintenance will be secured.                      - Foreign standards, such as AASHTO, will be approved.</p>
<p>3. Enhanced Road Maintenance Management</p>	<p>3-1 The necessary documents for RM management, such as Plan for RM and repair management, Execution plan, Estimation, is provided by the staff of local road maintenance office.                      3-2 RM budget planning is standardized                      3-3 No. of engineer who is able to plan the RM and supervise the works.                      3-4 RM manual and Quality assurance manual are revised and/or provided. (No. of office with manual: P, T )                      3-5 Private contractors are categorized into their ability.                      3-6 Guidelines of contract out are provided. (No. of office with manual: P, T ) (No. of contract out: P, T ) (No. of completed works as scheduled: P, T )                      3-7 Guidelines of contract out are reviewed by MOTC staff.</p>	<p>3-1 Plan for road maintenance and repair management, Execution plan, Estimation                      3-2 Estimation                      3-3 Technical instruction record, Evaluation record at the workshop on design                      3-4 RM manual and Quality assurance manual, Monitoring record of Pilot Project                      3-5 Categorized rating                      3-6 Guidelines of contract out                      3-7 Guidelines of contract out</p>	<p>- Budget for road maintenance and equipment maintenance will be secured.                      - Foreign standards, such as AASHTO, will be approved.</p>

 *A. R. ...* *A. ...*



Activities	Inputs (Japanese side)	(Kyrgyz side)	Preconditions
<b>1. Renewal of Road Inventory (PASSPORT)</b> 1-1 Produce human resources development plan 1-2 Site survey (conference of PASSPORT and current road) 1-3 Drafting new PASSPORT format 1-4 Data collection 1-5 Input data to the new format 1-6 Revise and finalization of the new format 1-7 Apply new PASSPORT format in non-model site Road Maintenance Offices  <b>2. Preparation of Design Manual &amp; Guideline</b> 2-1 Produce human resources development plan 2-2 Study of present standard 2-3 Collection of information of applied standard to donor's project 2-4 Draft design manual and guideline 2-5 Design for pilot project section 2-6 Training in non-model site Road Maintenance Offices  <b>3. Strengthening of Management on Maintenance Work</b> 3-1 Site survey 3-2 Drafting of Maintenance Manuals 3-3 Maintenance Workshop 3-4 Pilot Project 1 and 2 (easy & middle scale repair) 3-5 Categorizing of local contractors 3-6 Preparation for guidelines of contract out 3-7 Workshop for contract out 3-8 Pilot Project 3 (Capital repair by contract out) 3-9 Technical transfer of construction management 3-10 Evaluation of Pilot Projects 3-11 Training of maintenance manuals in non-model site Road Maintenance Offices	<b>1. Dispatch of Japanese Experts</b>  Fields of Experts - Chief Adviser/Road Maintenance Policy - Road Engineer for Road Inventory - Road Engineer for Road Standard - Structure Specialist - Road Maintenance Management Specialist  <b>2. Counterpart training in Japan</b>  Training course on the road maintenance management for the cool region	<b>1. Arrangement of counterpart personnel</b>  <b>2. Provision of facilities for the Project implementation : Project office</b>  <b>3. Other necessary budget</b>	<b>Preconditions</b> - Materials and equipment are ready to use for the Project. - Involved stakeholders, especially, the Police will cooperate to the Project implementation.

N.B. Abbreviations: MOTC: Ministry of Transport and Communications, RM: Road Maintenance, No.: Number, P: Present, T: Target

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ANNEX-2

Plan of Operation (PO) [Draft]

The Project for the Capacity Building of Road Maintenance in the Kyrgyz Republic

- Overall Goal**
- Road network is properly maintained and economic activities and accessibility to public infrastructure are improved
- Project Purpose**
- Road maintenance capacity (institution, management, technique) is improved
- Output**
- Revised Road Inventory
  - Revised Design Standard
  - Enhanced Road Maintenance Management

Activity	Fiscal Year Time Schedule																									
	YEAR 1			YEAR 2			YEAR 3			YEAR 4																
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12		
1. Renewal of Road Inventory (PASSPORT)																										
1-1 Produce human resources development plan																										
1-2 Site survey (coherence of PASSPORT and current road)																										
1-3 Drafting new PASSPORT format																										
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1-5 Input data to the new format																										
1-6 Revise and Finalization of the new format																										
1-7 Apply new PASSPORT format in non-model site Road Maintenance Offices																										
2. Preparation of Design Manual & Guideline																										
2-1 Produce human resources development plan																										
2-2 Study of present standard																										
2-3 Collection of information of applied standard to donor's project																										
2-4 Draft design manual and guideline																										
2-5 Design for pilot project section																										
2-6 Training in non-model site Road Maintenance Offices																										
3. Strengthening of Management on Maintenance Work																										
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3-11 Training of maintenance manuals in non-model site Road Maintenance Office																										
Pilot project																										
Evaluation of the pilot projects																										

*S. Elbayram*

*A. R. Uel*

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Organization Chart

	the Kyrgyz Side	the Japanese Side
Joint Coordinating Committee (Chairman: Permanent Secretary, MOTC)	<ul style="list-style-type: none"> <li>• Permanent Secretary, MOTC</li> <li>• Permanent Secretary, Ministry of Finance</li> <li>• Agency for Construction and Architecture</li> <li>• Director, Main Department of Roads</li> <li>• Other persons recommended by the Kyrgyz side or JICA</li> </ul>	<ul style="list-style-type: none"> <li>• Japanese Experts</li> <li>• Resident Representative of JICA Kyrgyz Republic Office</li> <li>• Other persons recommended by the Kyrgyz side or JICA</li> </ul>
Executive Committee (Chairman: Director, Main Department of Roads)	<ul style="list-style-type: none"> <li>• Director, Main Department of Roads</li> <li>• Head of Regional Maintenance Office of the pilot site</li> <li>• Relevant MOTC officers</li> <li>• Other persons recommended by the Kyrgyz side or JICA</li> </ul>	

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2. Record of Discussions (実施協議調査時)

RECORD OF DISCUSSIONS  
BETWEEN THE JAPAN INTERNATIONAL COOPERATION AGENCY AND  
AUTHORITIES CONCERNED OF THE GOVERNMENT OF KYRGYZ REPUBLIC  
ON JAPANESE TECHNICAL COOPERATION  
FOR THE PROJECT FOR THE CAPACITY BUILDING OF ROAD MAINTENANCE  
IN THE KYRGYZ REPUBLIC

The Japan International Cooperation Agency (hereinafter referred to as "JICA") and the Kyrgyz authorities concerned had a series of discussions with respect to desirable measures to be taken by JICA and the Kyrgyz Government for the successful implementation of "the Project for the Capacity Building of Road Maintenance in the Kyrgyz Republic" (hereinafter referred to as "the Project").

As a result of the discussions, and in accordance with the provisions of the Agreement on Technical Cooperation between the Government of Japan and the Government of the Kyrgyz Republic, signed in Bishkek on October 6, 2004 (hereinafter referred to as "the Agreement"), JICA and the Kyrgyz authorities concerned agreed on the matters referred to in the document attached hereto.

Bishkek, January 9, 2008

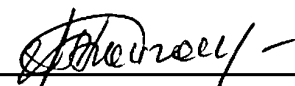


Mr. Satoshi Nakano  
Resident Representative  
JICA Kyrgyz Republic Office



Mr. Kubanychbek Mamaev  
Permanent Secretary  
Ministry of Transport and Communications  
Kyrgyz Republic

(Witnessed by)



Mr. Mirlan Baigonchokov  
Head  
External Financial Aid Department  
Ministry of Finance  
Kyrgyz Republic

## THE ATTACHED DOCUMENT

### I. COOPERATION BETWEEN JICA AND THE KYRGYZ GOVERNMENT

1. The Government of the Kyrgyz Republic will implement the Project for the Capacity Building of Road Maintenance in the Kyrgyz Republic (hereinafter referred to as "the Project") in cooperation with JICA.
2. The Project will be implemented in accordance with the Master Plan, which is given in Annex I.

### II. MEASURES TO BE TAKEN BY JICA

In accordance with the laws and regulations in force in Japan and the provisions of Article 3 of the Agreement, JICA, as the executing agency for technical cooperation by the Government of Japan, will take, at its own expense, the following measures according to the normal procedures of its technical cooperation scheme.

#### 1. DISPATCH OF THE JAPANESE EXPERTS

JICA will provide the services of the Japanese experts as listed in Annex II. The provision of Article 5 of the Agreement will be applied to the above-mentioned experts.

#### 2. PROVISION OF MACHINERY AND EQUIPMENT

JICA will provide such machinery, equipment and other materials (hereinafter referred to as "the Equipment") necessary for the implementation of the Project as listed in Annex III. The provision of Article 7 of the Agreement will be applied to the Equipment.

#### 3. TRAINING OF THE KYRGYZ PERSONNEL IN JAPAN

JICA will receive maximum two Kyrgyz personnel connected with the Project for technical training in Japan.

### III. MEASURES TO BE TAKEN BY THE GOVERNMENT OF KYRGYZ REPUBLIC

1. The Government of the Kyrgyz Republic will take necessary measures to ensure that the self-reliant operation of the Project will be sustained during and



after the period of Japanese technical cooperation, through full and active involvement in the Project by all related authorities, beneficiary groups and institutions.

2. The Government of the Kyrgyz Republic will ensure that the technologies and knowledge acquired by the Kyrgyz nationals as a result of the Japanese technical cooperation will contribute to the economic and social development of the Kyrgyz Republic.
3. In accordance with the provisions of Article 5 of the Agreement, the Government of the Kyrgyz Republic will grant in the Kyrgyz Republic privileges, exemptions and benefits to the Japanese experts referred to in II-1 above and their families.
4. In accordance with the provisions of Article 7 of the Agreement, the Government of the Kyrgyz Republic will take the measures necessary to receive and use the Equipment provided by JICA under II-2 above and equipment, machinery, and materials carried in by the Japanese experts referred to in II-1 above.
5. The Government of the Kyrgyz Republic will take necessary measures to ensure that the knowledge and experience acquired by the Kyrgyz personnel from technical training in Japan will be utilized effectively in the implementation of the Project.
6. In accordance with the provision of Article 5 of the Agreement, the Government of the Kyrgyz Republic will provide the services of the Kyrgyz counterpart personnel and administrative personnel as listed in Annex IV.
7. In accordance with the provision of Article 5 of the Agreement, the Government of the Kyrgyz Republic will provide the buildings and facilities as listed in Annex V.
8. In accordance with the laws and regulations in force in the Kyrgyz Republic, the Government of the Kyrgyz Republic will take necessary measures to supply or replace at its own expense machinery, equipment, instruments, vehicles, tools, spare parts and any other materials necessary for the implementation of the Project other than the Equipment provided by JICA under II-2 above.
9. In accordance with the laws and regulations in force in the Kyrgyz Republic, the



Government of the Kyrgyz Republic will take necessary measures to meet the running expenses necessary for the implementation of the Project.

#### IV. ADMINISTRATION OF THE PROJECT

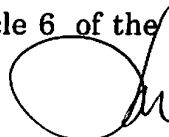
1. Permanent Secretary of the Ministry of Transport and Communications of the Kyrgyz Republic (hereinafter referred to as "MOTC"), as the Project Director, will bear overall responsibility for the administration and implementation of the Project.
2. Head of the Main Department of Roads, MOTC, as the Project Manager, will be responsible for the managerial and technical matters of the Project.
3. The Japanese Team Leader will provide necessary recommendations and advice to the Project Director and the Project Manager on any matters pertaining to the implementation of the Project.
4. The Japanese experts will give necessary technical guidance and advice to the Kyrgyz counterpart personnel on technical matters pertaining to the implementation of the Project.
5. For the effective and successful implementation of technical cooperation for the Project, a Joint Coordinating Committee and Executive Committee will be established, whose functions and composition are described in Annex VI.

#### V. JOINT EVALUATION

1. Periodical evaluations of the Project will be conducted by the Joint Coordinating Committee and Executive Committee.
2. Evaluation of the Project will be conducted jointly by JICA and the Kyrgyz authorities concerned, at the last six months of the cooperation term in order to examine the level of achievement.

#### VI. CLAIMS AGAINST JAPANESE EXPERTS

In accordance with the provision of Article 6 of the Agreement, the Government





of the Kyrgyz Republic undertakes to bear claims, if any arises, against the Japanese experts engaged in technical cooperation for the Project resulting from, occurring in the course of, or otherwise connected with the discharge of their official functions in the Kyrgyz Republic except for those arising from the willful misconduct or gross negligence of the Japanese experts.

## VII. MUTUAL CONSULTATION

There will be mutual consultation between JICA and the Kyrgyz Government on any major issues arising from, or in connection with this Attached Document.

## VIII. MEASURES TO PROMOTE UNDERSTANDING OF AND SUPPORT FOR THE PROJECT

For the purpose of promoting support for the Project among the people of the Kyrgyz Republic, the Government of Kyrgyz Republic will take appropriate measures to make the Project widely known to the people of the Kyrgyz Republic.

## IX. TERM OF COOPERATION

The duration of the technical cooperation for the Project under this Attached Document will be three (3) years from March 15, 2008.

- ANNEX I MASTER PLAN
- ANNEX II LIST OF JAPANESE EXPERTS
- ANNEX III LIST OF MACHINERY AND EQUIPMENT
- ANNEX IV LIST OF KYRGYZ COUNTERPART AND ADMINISTRATIVE PERSONNEL
- ANNEX V LIST OF BUILDINGS AND FACILITIES
- ANNEX VI JOINT COORDINATING COMMITTEE AND EXECUTIVE COMMITTEE



## ANNEX I MASTER PLAN

### 1. Overall Goal

Road network is properly maintained and economic activities and accessibility to public infrastructure are improved.

### 2. Project Purpose

Road maintenance capacity (institution, management, technique) is improved.

### 3. Outputs of the Project

- (1) Revised Road Inventory: Standard format of new road inventory is prepared
- (2) Appropriate implementation of road design standard
- (3) Enhanced Road Maintenance Management

### 4. Activities of the Project

#### (1) Renewal of Road Inventory (PASSPORT)

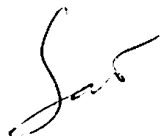
- 1-1 Produce human resources development plan
- 1-2 Site survey (coherence of PASSPORT and current road)
- 1-3 Draft new PASSPORT format
- 1-4 Data collection and Data input at model site
- 1-5 Revise and finalize the new format through consultations with relevant organizations / donors
- 1-6 Apply new PASSPORT format at non-model site of Road Maintenance Offices

#### (2) Preparation of Design Manual & Guideline

- 2-1 Produce human resources development plan
- 2-2 Study present standard and collect information on standards applied in the government's and donor projects
- 2-3 Produce mid-term revision plan of Design Standard
- 2-4 Identify the topics, which require practical manual
- 2-5 Draft manual for the topics identified in 2-4
- 2-6 Design Pilot Project section using new manual
- 2-7 Training for Road Maintenance Offices at non-model site

#### (3) Strengthening of Management on Maintenance Work

- 3-1 Site survey
- 3-2 Maintenance Manuals
  - Drafting of Maintenance Manual
  - Maintenance Workshop
  - Training for DEPs at non-model site



**3-3 Contract Out Guideline**

- Categorizing of local contractors
- Drafting of guidelines for contract out
- Contract out Workshop

**3-4 Technical transfer of construction management**

**3-5 Pilot Projects**

- Project 1 and 2 (easy & middle scale repair)
- Pilot Project 3 (Capital repair by contract out)
- Evaluation of Pilot Projects

**Notes:** In case if the Master Plan needs to be modified according to the changes in preconditions for the project, both sides will agree upon and confirm such modifications by exchanging the Minutes of Meetings.



## ANNEX II LIST OF JAPANESE EXPERTS

1. Chief Adviser/Road Maintenance Policy
2. Road Engineer for Road Inventory
3. Road Engineer for Road Standard
4. Structure Maintenance Specialist
5. Road Maintenance Management Specialist

Notes: The Japanese side is planning to dispatch experts in the above field to ensure the smooth implementation of the Project. The composition of the fields may be changed in the process of detailed design of the Project.



ANNEX III LIST OF MACHINERY AND EQUIPMENT

1. Necessity will be discussed at the Joint Coordinating Committee or Executive Committee

Notes: The details of the machinery and equipment will be determined at the Joint Coordinating Committee.

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ANNEX IV LIST OF KYRGYZ COUNTERPART AND ADMINISTRATIVE PERSONNEL

1. Project Director: Permanent Secretary of the Ministry of Transport and Communications (MOTC) of the Kyrgyz Republic
2. Project Manager: Head, Main Department of Roads, MOTC
3. Counterpart Personnel

Suitably qualified personnel will be continuously assigned to work with JICA experts as a Counterpart Personnel as given in 3(1), 3(2) and 3(3), and as a Contact Persons as described in 3(4) below:

(1) MOTC

K. A. Mamaev	Team Leader
Z. K. Aidarov	Road Engineer for Road Inventory
N. B. Kainbaev	Road Engineer for Road Standard
A. Ashimov	Structure Maintenance Specialist
N. A. Milovitskaya	Road Maintenance Management Specialist
I. Seitbekov	Road Maintenance Management Specialist

(2) Road Maintenance Office 955 in Kochkor

N. S. Subanbekov	Team Leader
K. D. Egemberdiev	Road Engineer for Road Inventory
N. Berdibekov	Road Engineer for Road Standard
T. N. Beishebaev	Structure Management Specialist
K. K. Amanov	Road Maintenance Management Specialist

(3) "Kyrgyzdortransproject" Design Institute

R. U. Rakhmatulin	Team Leader
A. S. Kim	Road Engineer for Road Standard

(4) State Agency on Architecture and Construction under the Government of the Kyrgyz Republic

M. E. Miyarov	Team Leader
G. E. Asanova	Road Engineer for Road Standard

## ANNEX V LIST OF BUILDINGS AND FACILITIES

1. Land, buildings, and facilities necessary for the implementation of the Project.
2. Office space and necessary facilities (desk, chair, etc.) for the JCIA experts and the Kyrgyz counterpart personnel at MOTC.
3. Construction equipment, repair tool and spare parts necessary for maintenance trainings, pilot projects and other workshops.
4. Land construction equipment, survey equipment, accommodation, labor and any personnel costs necessary for execution of maintenance trainings, pilot projects, and other workshops.
5. Data / information necessary for preparation of road inventory and revision of road standard, which are available in MOTC.
6. Buildings, facilities and space necessary for the installation and operation of the equipment and tools to be provided by JICA.
7. Other facilities mutually agreed upon as necessary for the implementation of the Project.



## ANNEX VI JOINT COORDINATING COMMITTEE AND EXECUTIVE COMMITTEE

### 1. JOINT COORDINATING COMMITTEE

#### (1) Functions

The Joint Coordinating Committee will be held at least once a year to discuss the following:

- 1) To approve the annual work plan of the Project based on the Plan of Operations (PO) within the framework of the Record of Discussions.
- 2) To evaluate the result of the annual work plan and the overall progress of the Project.
- 3) To review and exchange opinions on major issues, which arise during the implementation of the Project.

#### (2) Chairperson: Minister, MOTC

#### (3) Members

Kyrgyz Side	Japanese Side
<ul style="list-style-type: none"><li>• Minister, MOTC</li><li>• Permanent Secretary, Ministry of Finance</li><li>• State Agency on Architecture and Construction under the Government</li><li>• Director, Main Department of Roads, MOTC</li><li>• Other persons recommended by the Kyrgyz side</li></ul>	<ul style="list-style-type: none"><li>• Japanese Experts</li><li>• Resident Representative of JICA Kyrgyz Republic Office</li><li>• Other persons recommended by JICA</li></ul>

### 2. EXECUTIVE COMMITTEE

#### (1) Functions:

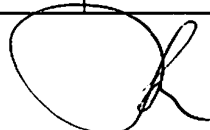
The Executive Committee will be held at least once a quarter of a year to discuss the following:

- 1) To formulate the quarterly work plan of the Project in line with the annual work plan of the Project.
- 2) To review the progress of the Project as well as the quarterly work plan.
- 3) To exchange views on issues arising in connection with the Project.

#### (2) Chairpersons: Permanent Secretary, MOTC

#### (3) Members

Kyrgyz Side	Japanese Side
<ul style="list-style-type: none"><li>• Permanent Secretary, MOTC</li><li>• Director, Main Department of Roads, MOTC</li><li>• Head of Regional Maintenance Office of the pilot site</li><li>• Relevant MOTC officers</li></ul>	<ul style="list-style-type: none"><li>• Japanese Experts</li><li>• Resident Representative of JICA Kyrgyz Republic Office</li><li>• Other persons recommended by JICA</li></ul>





<ul style="list-style-type: none"><li>• Relevant MOTC officers</li><li>• Other persons recommended by the Kyrgyz side</li></ul>	
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### 3. 舗装マニュアル (案)

No	項目
1	交通量調査法
2	軸重調査法
3	地域区分
4	地質調査法及びその整理法
5	交通荷重設定法
6	路床設計
7	軟弱地盤処理法
8	新設舗装設計法(アスファルト、簡易舗装)
9	新設舗装設計法 (グラベル舗装)
10	舗装補修設計
11	特殊地域の舗装設計
12	アスファルト合材の設計
13	舗装材料試験法 (品質管理)
14	施工管理法 (計測管理・工程管理)



#### 4. 試験器材リスト (案)

No.	品名	仕様	数量	単位
1	熱風循環式恒温乾燥機(棚板:2枚) 1,000×800mm 三相 200V22A	Natural Convection Laboratory Oven	1	台
2	電子天秤 21kg~0.1g AC220V(フック・吊り金 具, 水槽を含む)	Electronic Digital Balances	1	台
3	天秤台(スチール製)	Aniti-Vibration Table	1	台
4	デジタル温度計	Digital Thermometer(-60-400°C)	3	台
5	針金センサーJB-15		3	台
6	表面センサーST-23		3	台
7	土の自動突き固め装置		1	台
8	100KN 電動万能圧縮試験機 三相 200V (自記装置含む)		1	台
9	CBR モールドシリンダー, カラーおよび底板		1	式
10	スぺーサーディスク		1	個
11	荷重板 1.25kg		1	個
12	軸付有孔板		1	個
13	ダイヤルゲージ		1	個
14	ダイヤルゲージホルダー		1	個
15	ろ紙(φ150:100枚)		1	箱
16	現場密度測定装置一式		1	式
17	けい砂6号		1	袋
18	ロータップ式フルイ振とう機	Mechanically Operated Sieve Shaker	1	台
19	ステンレスふるい 31.5mm	31.5mm-8" dia. Brass Sieve	2	個
20	ステンレスふるい 26.5mm	26.5mm-9" dia. Brass Sieve	2	個
21	ステンレスふるい 25mm	25.0mm-8" dia. Brass Sieve	2	個
22	ステンレスふるい 19.0mm	19.0mm-8" dia. Brass Sieve	2	個
23	ステンレスふるい 13.2mm	13.2mm-8" dia. Brass Sieve	2	個
24	ステンレスふるい 12.5mm	12.5mm-8" dia. Brass Sieve	2	個
25	ステンレスふるい 9.5mm	9.5mm-8" dia. Brass Sieve	2	個
26	ステンレスふるい 4.75mm	4.75mm-8" dia. Brass Sieve	2	個
27	ステンレスふるい 2.36mm	2.36mm-8" dia. Brass Sieve	2	個
28	ステンレスふるい 2.00mm	2.00mm-8" dia. Brass Sieve	2	個
29	ステンレスふるい 1.7mm	1.70mm-8" dia. Brass Sieve	2	個
30	ステンレスふるい 1.18mm	1.18mm-8" dia. Brass Sieve	2	個
31	ステンレスふるい 0.6mm	0.6mm-8" dia. Brass Sieve	2	個
32	ステンレスふるい 0.425mm	0.425mm-8" dia. Brass Sieve	2	個
33	ステンレスふるい 0.3mm	0.3mm-8" dia. Brass Sieve	2	個

No.	品名	仕様	数量	単位
34	ステンレスふるい 0.15mm	0.15mm-8" dia. Brass Sieve	2	個
35	ステンレスふるい 0.075mm	0.075mm-8" dia. Brass Sieve	2	個
36	ステンレスふるい 0.075mm(水洗い用)	0.075mm-8" dia. Brass Sieve wet washing sieve	2	個
37	ふたおよび受け皿		2	個
38	メスフラスコ 500ml	Vol. Flasks, 500ml	6	個
39	広口耐圧ビン		4	個
40	フローコーン		1	台
41	すり減り試験機(ロサンゼルス試験機クラッチ付)	Los Angles Abrasion Test Machine	1	台
42	液性限界試験機	Liquid Limit Test Set with counter	1	式
43	CBR 試験器 手動式		1	台
44	マーシャルオートランマーAC100V	Automatic compacter (4.535kg)	1	台
45	マーシャル安定度試験器(リング 35kN 球座付)	Marshall Stability Testing Machine-50kN	1	台
46	マーシャル安定度試験器用台		1	台
47	マーシャルモールド底板+カラー	Marshall mould(Mould,Collar,Base plate)	33	式
48	マーシャル載荷ヘッド	Marshall breking head	1	枚
49	フロー計	Dial gauge 10mm travel	4	個
50	アスファルト抽出試験機 ソックスレー(溶剤は含まない)	Bitumen Extraction	1	式
51	ストップウォッチ	Stopwatch	3	個
52	ホーローバット 573X363X85mm	Pans(550mm×360mm×100mm)	30	枚
53	ホーローバット 355X265X50mm	Pans(360mm×260mm×80mm)	30	枚
54	ホーローバット 235X190X35mm	Pans(250mm×180mm×60mm)	50	枚
55	ノギス 300mm ディプス付	Vernier caliper(300mm)	3	個
56	スパチュラ(へら) 200mm	Spatula, 200mm	10	個
57	ストレートエッジ 30cm		10	本
58	練りさじ		10	本
59	計量スコップ(角)		10	個
60	計量スコップ(丸)		10	個
61	マーシャル用練なべ(小)	Round Bowls	3	枚

5. 標準舗装厚カタログ

DRAFT CODE OF PRACTICE FOR THE DESIGN OF ROAD PAVEMENTS より

CHART D1 : Granular base / granular subbase Dry Regions

