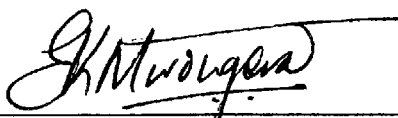


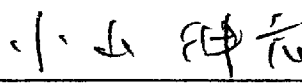
(2) S/W及びM/M

SCOPE OF WORK
FOR
STUDY ON ROAD MAINTENANCE SYSTEM
UNDER THE FRAMEWORK OF THE KENYA ROADS BOARD
IN
THE REPUBLIC OF KENYA

AGREED UPON BETWEEN
MINISTRY OF ROADS AND PUBLIC WORKS
OF THE REPUBLIC OF KENYA
AND
JAPAN INTERNATIONAL COOPERATION AGENCY

NAIROBI, July 28th, 2000


Eng. Erastus K. Mwangera, EBS. OGW
Permanent Secretary
Ministry of Roads and Public Works
The Republic of Kenya


Mr. Nobuhiro KOYAMA
Leader
Preparatory Study Team
Japan International Cooperation
Agency

countersigned by

Permanent Secretary
Ministry of Finance and Planning
The Republic of Kenya

I. INTRODUCTION

In response to the request of the Government of the Republic of Kenya (hereinafter referred to as "GOK"), the Government of Japan has decided to conduct the Study on Road Maintenance System under the Framework of the Kenya Roads Board in the Republic of Kenya (hereinafter referred to as "the Study") in accordance with the relevant laws and regulations in force in Japan.

Accordingly, the Japan International Cooperation Agency (hereinafter referred to as "JICA"), the official agency responsible for the implementation of the technical cooperation programs of the Government of Japan, will undertake the Study in close cooperation with the GOK authorities concerned.

II. OBJECTIVES OF THE STUDY

The objectives of the Study are to:

1. propose a road maintenance system for all types of roads under the framework of Kenya Roads Board through clarifying major issues and constraints of routine and periodic road maintenance,
2. develop a set of road maintenance standards and manuals for routine and periodic road maintenance with an emphasis on contracting out maintenance works to the private sector, and
3. help strengthen planning, managing and monitoring capacity of the Kenyan counterparts in routine and periodic road maintenance works with an emphasis on contracting out.


III. STUDY AREA

The Study will cover both of the classified and unclassified roads in whole territory of the Republic of Kenya.

IV. SCOPE OF THE STUDY

In order to achieve the objectives mentioned above, the Study shall cover the following items:

1. Review of road maintenance system for all types of roads to clarify major issues and constraints of routine and periodic road maintenance with special reference to:
 - (i) legal and institutional setup for road maintenance



- (ii) funds for road maintenance
 - (iii) performance of road maintenance works
 - (iv) road maintenance capacity of force account
 - (v) involvement of private sector in road maintenance
 - (vi) international cooperations in road maintenance
2. Analysis of the new framework of Kenya Roads Board (KRB) and the road agencies (Roads Department (RD), District Road Committees (DRCs) and Kenya Wildlife Service (KWS)) to manage road maintenance
- (i) Mandate and responsibilities of KRB and the road agencies
 - (ii) Institutional setup and organization of KRB and the road agencies
 - (iii) Funds availability for KRB and the road agencies
 - (iv) Relationship of KRB and the road agencies with the Ministry of Roads & Public Works (MORPW), local authorities and others
3. Analysis of future road maintenance scenarios for all types of roads inclusive of force account versus contracting out as well as labor-based versus equipment-based methods
- (i) Future trend of traffic by road classification
 - (ii) Future funds availability for road maintenance
 - (iii) Comparison of force account and contracting out for road maintenance works by road classification
 - (iv) Comparison of labor-based and equipment-based methods for road maintenance works by road classification
 - (v) Plausible road maintenance scenario in the future
4. Proposal of a road maintenance system for all types of roads
- (i) General framework for road maintenance system
 - (ii) Road design and traffic regulations
 - (iii) KRB and road maintenance management
 - (iv) The road agencies and road maintenance management
 - (v) MORPW, local authorities and others
5. Development of a set of road maintenance standards/manuals for road maintenance with an emphasis on contracting out maintenance works
- (i) Road Inventory
 - (ii) Road maintenance standards
 - (iii) Road inspection manual
 - (iv) Routine maintenance manual

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(v) Periodic maintenance manual

V. STUDY SCHEDULE

The Study will be carried out in accordance with the attached tentative study schedule (see APPENDIX).

VI. REPORTS

JICA shall prepare and submit the following reports in English to the GOK in accordance with the attached tentative work schedule.

(1) Inception Report

Twenty (20) copies at the commencement of the Study

(2) Progress Report

Twenty (20) copies within four (4) months after the commencement of the Study

(3) Interim Report

Twenty (20) copies within seven (7) months after the commencement of the Study

(4) Draft Final Report

Thirty (30) copies within ten (10) months after the commencement of the Study.

The written comments on the Draft Final Report from the GOK shall be submitted to JICA within one (1) month after submission of the report.

(5) Final Report

Sixty (60) copies together with One(1) set of CD-R, within one (1) month after the receipt of the comments on the Draft Final Report

VII. UNDERTAKINGS BY THE GOK

1. To facilitate smooth and effective execution of the Study, the GOK shall take necessary measures:

(I) to secure the safety of the Japanese Study Team (hereinafter referred to as "the Study Team");

(II) to permit the members of the Study Team to enter, leave and sojourn in the Republic of Kenya for the duration of

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their assignment therein, and exempt them from alien registration requirements and consular fees;

- (III) to exempt the members of the Study Team from taxes, duties and other charges on equipment, machinery and other materials brought into and out of the Republic of Kenya for the conduct of the Study;
 - (IV) to exempt the members of the Study Team from income tax and charges of any kind imposed on or in connection with any emoluments or allowances paid to the members of the Study Team for their services in connection with the implementation of the Study;
 - (V) to provide the necessary facilities to the Study Team for remittance as well as utilization of the funds introduced into the Republic of Kenya from Japan in connection with the implementation of the Study;
 - (VI) to secure permission for the Study Team to enter into private properties or restricted areas for the implementation of the Study;
 - (VII) to secure permission for the Study Team to take all data and documents including maps, photographs, related to the Study out of the Republic of Kenya to Japan; and
 - (VIII) to provide medical services as needed. Its expenses will be chargeable on members of the Study Team.
2. The GOK shall bear claims, if any arises, against the members of the Study Team resulting from, occurring in the course of, or otherwise connected with the discharge of their duties in the implementation of the Study, except when such claims arise from gross negligence or willful misconduct on the part of the members of the Study Team,
3. The Ministry of Roads & Public Works of the GOK shall act as counterpart agency to the Study Team and also as a coordinating body in relation with other governmental and non-governmental organizations concerned for the smooth implementation of the Study.
4. The Ministry of Roads & Public Works of the GOK shall, at its own expense, provide the Study Team with the following, in cooperation with other organizations concerned:

(1) available data and information related to the Study,



- including aerial photographs and maps;
- (II) counterpart personnel;
- (III) suitable office space with necessary office equipment in Nairobi;
- (IV) appropriate number of vehicles with drivers; and
- (V) credentials or identification cards

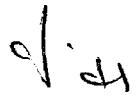
VIII. UNDERTAKING OF JICA

For the implementation of the Study, JICA shall take the following measures:

1. to dispatch, at its own expense, the Study Team to the Republic of Kenya, and
2. to pursue technology transfer to the Kenyan counterpart personnel in the course of the Study.

IX. CONSULTATION

JICA and MORPW of the GOK shall consult with each other in respect of any matter that may arise from or in connection with the Study.



APPENDIX

TENTATIVE SCHEDULE OF THE STUDY

month	1	2	3	4	5	6	7	8	9	10	11	12
Work in Kenya												
Work in Japan												
Report	△ IC/R			△ P/R			△ IT/R			△ DF/F		△ F/R

ABBREVIATION IC /R : Inception Report
 P/R : Progress Report
 IT /R : Interim Report
 DF/R : Draft Final Report
 F / R : Final Report

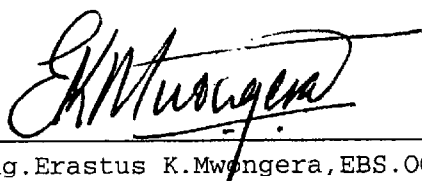
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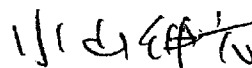
MINUTES OF MEETING
ON
SCOPE OF WORK
FOR
STUDY ON ROAD MAINTENANCE SYSTEM
UNDER THE FRAMEWORK OF THE KENYA ROADS BOARD
IN
THE REPUBLIC OF KENYA

AGREED UPON BETWEEN
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Leader
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Japan International Cooperation
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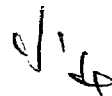
The Japanese Preparatory Study Team (hereinafter referred to as "the Preparatory Team"), organized by Japan International Cooperation Agency (JICA) and headed by Mr. Nobuhiro Koyama, visited Republic of Kenya from 19th to 28th of July, 2000 to discuss the Scope of Work for "Study on Road Maintenance System under the Framework of the Kenya Roads Board in the Republic of Kenya (hereinafter referred to as "the Study").

During its stay in Kenya, a series of meetings on the Study were held between the Preparatory Team and the officials from the Government of the Republic of Kenya (hereinafter referred to as "the GOK") and other organizations concerned. Through these meetings, both sides agreed and signed the Scope of Work for the Study. The attendants of the meetings are listed in Appendix.

The following points are confirmed by both sides:

1. The Kenyan side explained the reform of the road sector expected in a couple of years, by citing that the Ministry of Roads and Public Works (MORPW) would become responsible for developing the national road policy, and that the Roads Department (RD) would become an agency responsible for executing road works. The RD as an agency will include the functions of the existing Road Department, Material Department, Mechanical and Transport Department and Kenya Institute of Highways and Building Technology.
2. The Kenyan side explained that the RD would execute road works not by force account only but also by contracting out to the private sector in some years later after a transitional period.
3. The Kenyan side explained that there are three agencies of executing road works under the Kenya Roads Board (KRB), namely, RD, DRCs and KWS.
4. Counterpart Personnel: MORPW will appoint counterpart personnel in accordance with the formation of the Japanese Study Team. The members of counterpart personnel includes at least two persons on full-time basis and several persons on part-time basis.
5. Steering Committee: For the smooth implementation of the Study, both sides agreed that the GOK will establish a Steering Committee, consisting of members from following ministries and organizations:

(1) Ministry of Roads and Public Works;



- (II) Office of the President;
- (III) Ministry of Information, Transport and Communication;
- (IV) Ministry of Local Government;
- (V) Ministry of Finance;
- (VI) Ministry of Tourism, Trade and Industry;
- (VII) Kenya Wildlife Service;
- (VIII) Kenya Roads Board

In addition, international organizations and international donor agencies such as World Bank, European Union, Danida, USAID and so on, might be invited to the meeting of the Steering Committee as observers, if needed.

6. As regards the undertakings of the GOK in the Scope of Work: The Kenyan side requested JICA to provide appropriate office space with necessary office equipment in Nairobi, as well as appropriate number of vehicles with drivers for the Japanese Study Team. The Preparatory Team promised to convey this request to JICA Headquarters in Tokyo.

7. Disclosure of the Final Report: Both sides agreed that the Final Report of the Study shall be open to the public.



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List of Attendants

Kenyan Side

1. Ministry of Roads and Public Works

Erastus K. Mwongera	Permanent Secretary
J. H. G. Wambura	Engineer in Chief
P. M. Wakori	Chief Engineer Roads
M. M. Kuria	Chief Finance Officer
B. G. Ariga	Principal, Kenya Institute of Highways and Building Technology
J. N. Ndakayo	Chief Superintending Engineer (Engineer Registration Board)
N. N. Gekonge	Chief Superintending Engineer (Planning)
J. Ogango	Chief Superintending Engineer (Construction of Unpaved Road)
J. K. Nyamiobo	Chief Economic Planner
C. K. Muhia	Under Secretary Finance

Japanese Side

1. JICA Preparatory Study Team

Nobuhiro Koyama	Leader of Team
Tomoyuki Adachi	Member of Team (Road Management)
Takayuki Oyama	Member of Team (Study Planning)

2. JICA Kenya Office

Mitsuo Yoshitoku	Ass. Resident Representative
Japhet M. Sabai	Programme Officer (Economic Infrastructure)



(3) 主要面談者リスト

(ケニア側関係者)

ケニア国道路公共事業省

Erastus K. Mwongera	Permanent Secretary
J. H. G. Wambura	Engineer in Chief
P. M. Wakori	Chief Engineer Roads
M. M. Kuria	Chief Finance Officer
B. G. Ariga	Principal, Kenya Institute of Highways and Building Technology
J. N. Ndakayo	Chief Superintending Engineer(Engineer Registration Board)
N. N. Gekonge	Chief Superintending Engineer(Planning)
J. Ogango	Chief Superintending Engineer(Construction of Unpaved Road)
J. K. Nyamiobo	Chief Economic Planner
C. K. Muhia	Under Secretary Finance

(国際機関等)

世界銀行(本部)

Simon Thomas	Senior Transport Economist, Transport 1
Yoshimichi Kawasumi	Senior Highway Engineer(道路公団から出向)

D a n i d a

Eric Goss	Project Coordinator
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European Union

Hans-Joachim Buse	First Councillor
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U S A I D

James Kagathi	Engineer
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(日本側関係者)

在ケニア日本国大使館

青木 盛久	特命全権大使
川戸 英騎	一等書記官

J I C A ケニア事務所

橋本 栄治	所長
松本 淳	次長
吉徳 光男	所員

(4) 収集資料リスト

番号	書名	発行年	編著者名	言語	備考
1	Inauguration of the Kenya Roads Board	2000	Daily Nation	E .	新聞紙上から
2	Implementation of the Kenya Roads Board	2000	Daily Nation	E .	新聞紙上から
3	District Road Committees Rules and Regulations	?	(N.A.)	E .	
4	Kenya Roads Board Implementation Report	2000	Interim Steering Group	E .	表紙のみ(本体は JICA 事務所保管)
5	Kenya Roads Board Implementation Workshop Report	-	Ministry of Roads and Public Works	E .	表紙のみ(本体は JICA 事務所保管)
6	The Kenya Roads Board Act, 1999	2000	(N.A.)	E .	
7	List of Registered Road Contractors	?	Ministry of Roads and Public Works	E .	
8	Strategic Plan for the Roads Sector	1997	Republic of Kenya	E .	
9	Road Design Manual Part3	1987	Ministry of Transport and Communications	E .	表紙のみ(本体は JICA 事務所保管)
10	Standard Specification for Road and Bridge Construction	1986	Ministry of Transport and Communications	E .	表紙のみ(本体は JICA 事務所保管)
11	Road Design Manual Part1	1979	Ministry of Works	E .	表紙のみ(本体は JICA 事務所保管)
12	The 8th National Development Plan 1997-2001	?	Republic of Kenya	E .	
13	Roads 2000 Maintenance Strategy - A Brief on the Strategy	2000	Ministry of Roads and Public Works	E .	
14	The Roads 2000 Programme / Strategy	?	Ministry of Roads and Public Works	E .	
15	サブサハラアフリカにおける道路政策	1997	(N.A.)	J .	
16	The 11th RMI/RTTP Co-ordinating Committee Meeting / Country Status Report	1996	Ministry of Public Works and Housing	E .	
17	SSATP / RMI Prospective to Year 2000 and Program for 1996-1998	1996	(N.A.)	E .	
18	Roads 2000 Works Manual	1996	Ministry of Public Works and Housing	E .	
19	The Road Management Initiative (RMI)	1999	The World Bank	E .	
20	Africa Transport Technical Note No.26	1999	The World Bank	E .	
21	Africa Transport Technical Note No.20	1999	The World Bank	E .	
22	Review of the Road Sector in Customs and Economic Union of Central African State (UDEAC)	1999	The World Bank	E .	
23	RMI Rural Travel and Transport Program 13th Coordinating Committee Meeting Summary Proceedings	1998	The World Bank	E .	
24	Road Safety in Africa	1998	The World Bank	E .	
25	Promoting Intermediate Means of Transport Approach Paper	1996	The World Bank	E .	
26	Rural Transport Planning Approach Paper	1996	The World Bank	E .	
27	Review of the Road Sector in Selected Common Market for Eastern and Southern Africa Countries	1996	The World Bank	E .	表紙のみ(本体は JICA 図書館所蔵)
28	Rural Roads in Sub-Saharan Africa Lessons from World Bank Experience	1991	The World Bank	E .	
29	Commercial Management and Financing of Roads	1998	The World Bank	E .	
30	Options for Managing and Financing Rural Transport Infrastructure	1998	The World Bank	E .	
31	Management and Financing of Roads	1995	The World Bank	E .	
32	Roads 2000 Coast - GOK / Danida road maintenance project	2000	Danida	E .	
33	Project Document Roads 2000 Project, Coast Province	1998	Danida	E .	
34	Interim Poverty Reduction Strategy Paper for the Period 2000-2003	2000	Government of Kenya	E .	
35	Investigation of Failures of Flexible Pavements Case Study of Nairobi-Thika Road	2000	Dr. E. Asano (JICA 専門家)	E .	
36	Economy Survey 2000	2000	Ministry of Finance and Planning	E .	
37	ケニア西部地区地方道路整備計画調査ファイナルレポート和文要約編	1999	JICA	J .	
38	ケニア共和国道路網整備マスタープラン調査最終報告書要約編	1995	JICA	J .	

言語：J：日本語、E：英語

