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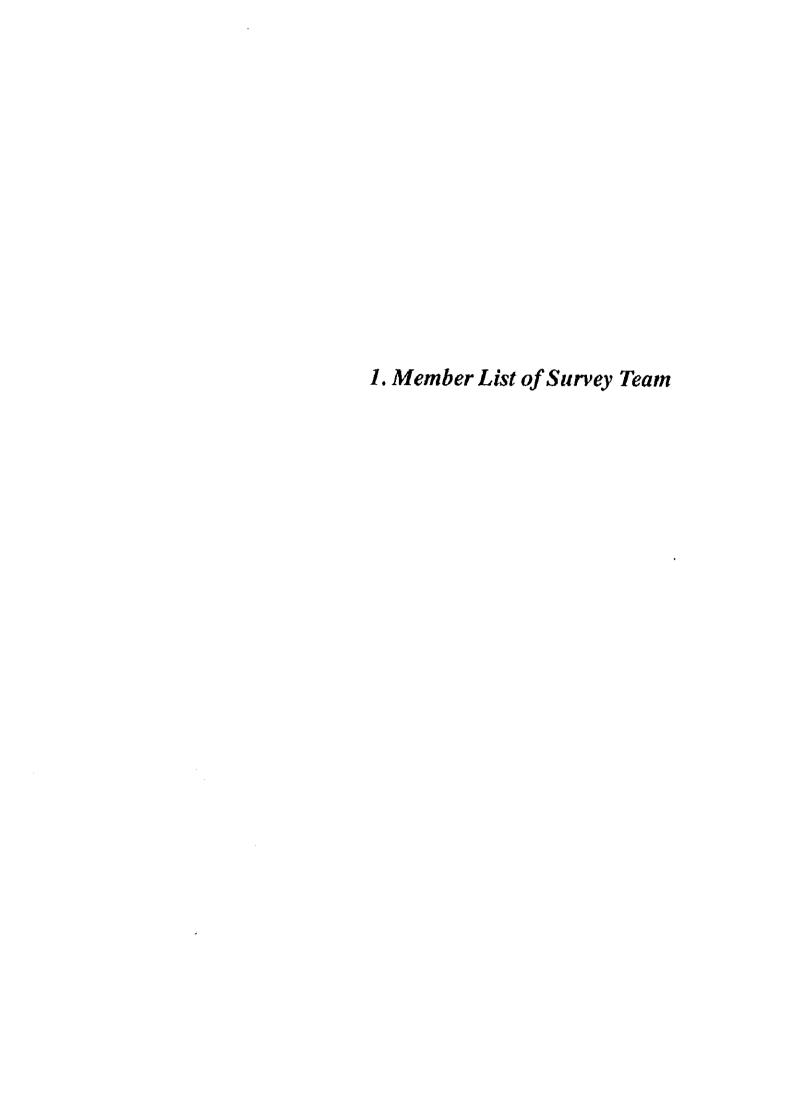
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APPENDICES

Member List of Survey Team
 Survey Itinerary
 List of Party Concerned in Kenya
 Minutes of Discussion
 References



1. Member List of Survey Team

Inception Report Explanation and Fields Survey Team (Jul/13/1998~Aug/26/1998)

Team Leader Yuji MARUO Development Specialist

Japan International Cooperation Agency

Project Coordinator Yuichi MATSUSHITA Coordination and Appraisal Division, Grant

Aid Project Study Department, Japan

International Cooperation Agency

Project Manager / Operation &

Hitoshi SHIMAZAKI

Nippon Koei Co.,Ltd

Maintenance Planner

Yukishi TOMITA

Nippon Koei Co., Ltd

Hydrogeologist II

Hydrogeologist I

Atsushi SAKATA

Nippon Koei Co.,Ltd

Physical Prospector I

Seikou UCHISAWA

Nippon Koei Co.,Ltd

Physical Prospector II

Tadashi HATAKEYAMA

Nippon Koei Co.,Ltd

Water Supply Planner

Masayuki OGINO

Nippon Koei Co.,Ltd

Procurement Planner

Tokuji OKADA

Nippon Koei Co.,Ltd

The Mission for the Explanation of Draft Basic Design Study Report (Dec/26/1998~Nov/6/1998)

Team Leader Keiko YAMAMOTO Development Specialist

Japan International Cooperation Agency

Project Coordinator Yuichi MATSUSHITA Coordination and Appraisal Division, Grant

Aid Project Study Department, Japan International Cooperation Agency Project Manager / Operation & Hitoshi SHIMAZAKI Nippon Koei Co.,Ltd

Maintenance Planner

Hydrogeologist I Yukishi TOMITA Nippon Koei Co.,Ltd

Water Supply Planner Masayuki OGINO Nippon Koei Co.,Ltd

2. Survey Itinerary

2. Survey Itinerary Inception Report Explanation and Fields Survey Team (Jul/13/1998~Aug/26/1998)

No.	Date	Move	Station	Activities
1	7/13	Maruo/Matsushita/Shimazaki/Tomita	On board	Move
	Mon	/Uchizawa/Hatakeyama/Ogino		
		Tokyo~London~Nairobi	·	
2	14 Tue	Nairobi	Nairobi	Courtesy Call to Embassy & JICA & Water Resource
3	15		Nairobi	Discussion with Ministry of Water Resource
	Wed			
4	16	Maruo/Matsushita/Shimazaki/Tomita	Nanyuki	Visiting Laikipia District Water Office, Helds Survey
	Thu	/Ogino		
		Nairobi~Nanyuki		
		Uchizawa/Hatakeyama	Nairobi	Check the Points of Electric Soundings
5	17	Maruo/Matsushita/Shimazaki/Tomita	Samburu	Fields Survey
	Fri	/Ogino		
		Nanyuki∼Samburu		
		Uchizawa/Hatakeyama	Nairobi	Check the Points of Electric Soundings
6	18	Maruo/Matsushita/Shimazaki/Tomita	Nyahururu	Visiting Samburu District Office, Fields Survey
j	Sat	/Ogino		
		Samburu~Maralal~Nyahururu		
		Uchizawa/Hatakeyama	Nairobi	Check the Points of Electric Soundings
7	19	Maruo/Matsushita/Shimazaki/Tomita	Nairobi	Discussion Member of Staff in Baringo and Koibatel
	Sun	/Ogino		District , Fields Survey
		Nyahururu~Marigat~Nairobi	 	
		Uchizawa / Hatakeyama	Nairobi	Check the Points of Electric Soundings
8	20	Maruo/Matsushita/Shimazaki/Tomita	Nairobi	Discussion with Ministry of Water Resource
	Mon	/Ogino Uchizawa/Hatakeyama	Nairobi	Check the Points of Electric Soundings
9	21	Maruo/Matsushita/Shimazaki/Tomita	Nairobi	Discussion with Ministry of Water Resource
7	21	/Ogino	IVALUEVE	Discussion with training of training to the testing
	Tue	Uchizawa/Hatakeyama	Nanyuki	Move
		Nairobi ~ Nanyuki	′	
10	22	Maruo/Matsushita/Shimazaki/Tomita	Nairobi	Signing on the Minutes
		/Ogino		
	Wed	Uchizawa/Hatakeyama	Nanyuki	Electric Soundings (Laikipia)
11	23	Maruo/Matsusbita	On board	Team Meeting, Move
	İ	Nairobi~London		
	Thu	Shimazaki/Tomita/Ogino	Nairobi	Team Meeting
		Uchizawa/Hatakeyama	Nanyuki	Electric Soundings (Laikipia)
				•
12	24	Maruo / Matsushita	On board	Move
12	24 Fri	Maruo/Matsushita London~Tokyo	On board	Move
12	l .	1	On board Nairobi	Move Collecting References
12	l .	London~Tokyo		
12	l .	London~Tokyo Shimazaki/Tomita/Ogino	Nairobi	Collecting References
	Fri	London~Tokyo Shimazaki/Tomita/Ogino Uchizawa/Hatakeyama Maruo/Matsushita Tokyo	Nairobi	Collecting References Electric Soundings (Laikipia)
	Fri 25	London~Tokyo Shimazaki/Tomita/Ogino Uchizawa/Hatakeyama Maruo/Matsushita	Nairobi	Collecting References Electric Soundings (Laikipia)
	Fri 25	London~Tokyo Shimazaki/Tomita/Ogino Uchizawa/Hatakeyama Maruo/Matsushita Tokyo	Nairobi Nanyuki	Collecting References Electric Soundings (Laikipia) Move
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13	Fri 25 Sat	London~Tokyo Shimazaki/Tomita/Ogino Uchizawa/Hatakeyama Maruo/Matsushita Tokyo Shimazaki/Tomita/Ogino Uchizawa/Hatakeyama	Nairobi Nanyuki Nairobi Nanyuki	Collecting References Electric Soundings (Laikipia) Move Collecting References Electric Soundings (Laikipia)
13	25 Sat	London~Tokyo Shimazaki/Tomita/Ogino Uchizawa/Hatakeyama Maruo/Matsushita Tokyo Shimazaki/Tomita/Ogino Uchizawa/Hatakeyama Shimazaki/Tomita/Ogino	Nairobi Nanyuki Nairobi Nanyuki Nairobi	Collecting References Electric Soundings (Laikipia) Move Collecting References Electric Soundings (Laikipia) Collecting References

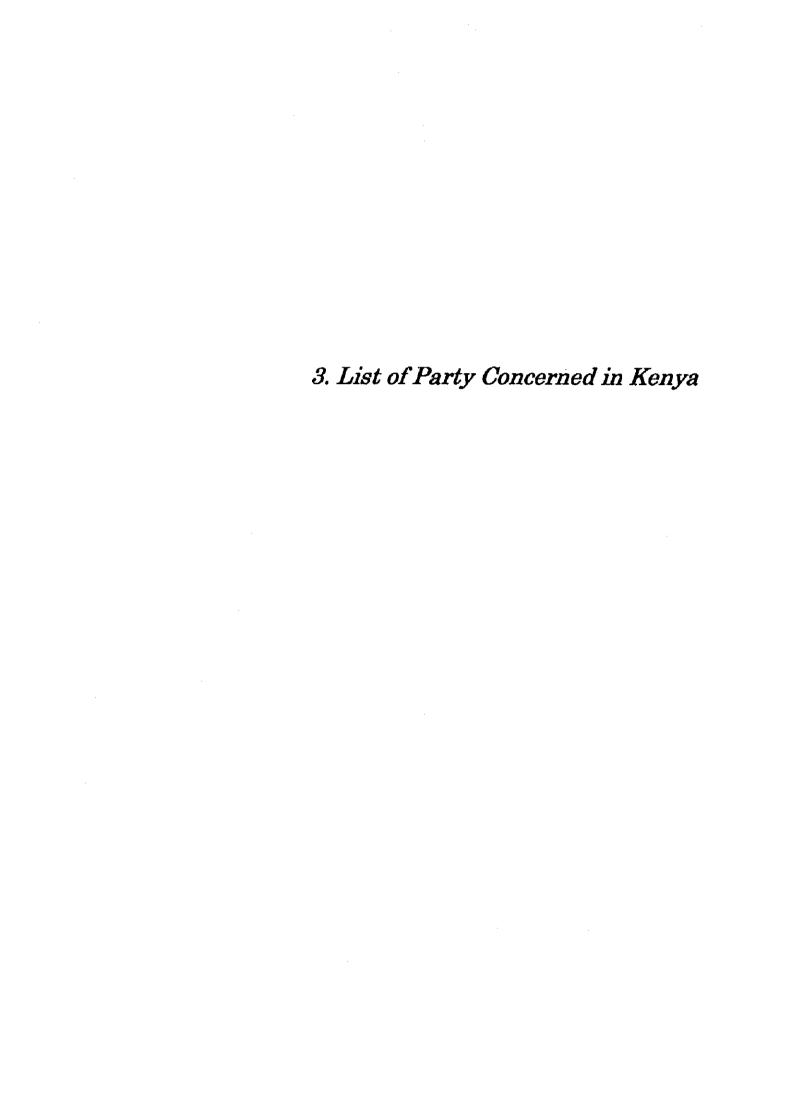
No.	Date	Move	Station	Activities
16	28	Shintazaki/Tomita/Ogino	Nairobi	Collecting References
1	Tue	Uchizawa/Hatakeyama	Nanyuki	Electric Soundings (Laikipia)
		Sakata/Okada	Qa board	Move
		Tokyo~London~Nairobi		
17	29	Shimazaki/Tomita/Ogiao	Nairobi	Collecting References, Team Meeting
	Wed	Uchizawa/Hatakeyama	Nanyuki	Electric Soundings (Laikipia)
		Sakata/Okada	Nairobi	Team Meeting
		Nairobi		Mary Carrier Deleka Wali
18	30	Shimazaki/Ogino	Nanyuki	Move, Survey to Existing Well (Laikipia)
	Thu	Nairobi~Nanyuki		Move, Hydrogeologic Survey, Sampling Water, Interview
		Tomita/Sakata Nairobi~Maralal	Maralal	Survey (Samburu)
		Uchizawa/Hatakeyama	Nanyuki	Electric Soundings (Laikipia)
_		Okada	Nairobi	Collecting References
19	31 Fri	Shimazaki/Ogino	Nanyuki	Survey to Existing Well (Laikipia)
		Tomita/Sakata	Maralal	Hydrogeologic Survey, Sampling Water, Interview Survey (Samburu)
	 	Uchizawa/Hatakeyama	Naoyuki	Electric Soundings (Laikipia)
		Okada	Nairobi	Collecting References
20	8/1	Shimazaki/Ogino	Nairobi	Survey to Existing Well
	Sat	Nanyuki∼Nairobi		(Laikipia), Move
		Tomita/Sakata	Maralal	Hydrogeologic Survey, Sampling Water, Interview Survey (Samburu)
		Uchizawa/Hatakeyama Nanyuki~Nyahururu	Nyahururu	Move, Electric Soundings (Laikipia)
		Okada	Nairobi	Adjusting References
	2	Shimazaki/Ogino/Okada	Nairobi	Adjusting References
21		Tomita/Sakata	Samburu	Hydrogeologic Survey, Sampling Water, Interview Survey
	Sun	Maralal~7>/1~Samburu	Samouru	(Samburu)
	1	Uchizawa/Hatakeyama	Nyahururu	Electric Soundings (Laikipia)
	 	Shisrazaki/Ogino		Move, Survey to Existing Well
22	3	Nairobi~Maralal	Marala)	(Samburu)
	Mon	Tomita/Sakata	Maralal	Hydrogeologic Survey, Sampling Water, Interview Survey
		Samburu~ワンバ~Maralal	Mararar	(Samburu)
		Uchizawa / Hatakeyama	Nyahoruru	Electric Soundings (Laikipia)
			Nairobi	Investigation Price
	 	Okada Stirre Vi (Orien	Maralal	
23	4	Shimazaki/Ogino	Maraiai	Survey to Existing Well (Samburu)
1	Tue	Tomita/Sakata	Baringo	Move
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1	1	Uchizawa/Hatakeyama	Nairobi	Move
		Nyahururu~Nairobi	11001	
ļ		Okada	Nairobi	Investigation Price
24	5	Shimazaki/Ogino	Maralal	Survey to Existing Well
~]	Wed		1.7	(Samburu)
		Tomita/Sakata	Baringo	Hydrogeologic Survey, Sampling Water, Interview Surve (Baringo)
		Uchizawa/Hatakeyama	Nairobi	Adjusting References
1	1	Okada	Nairobi	Investigation Price

No.	Date	Move	Station	Activities
25	6	Shimazaki/Ogioo	Bariago	Move
- 1	Thu	Maralal~Baringo		
ĺ		Tomita/Sakata	Baringo Maralal	Hydrogeologic Survey, Sompling Water, Interview Survey (Baringo)
		Uchizawa/Hatakeyama	141010101	Move
		Nairobi~Marajal		
		Okada	Nairobi	Investigation Price
26	7	Shimazaki/Ogino	Baringo	Survey to Existing Well
	Fri			(Bariago)
		Tomita/Sakata	Baringo	Hydrogeologic Survey, Sampling Water, Interview Survey (Baringo)
		Uchizawa/Hatakeyama	Maralal	Electric Soundings (Samburu)
		Okada	Nairobi	Investigation Price
27	8	Shimazaki/Ogino	Baringo	Survey to Existing Well
	Sat	Baringo~Nairobi		(Koibatek)
		Tomita/Sakata	Baringo	Hydrogeologic Survey, Sampling Water, Interview Survey (Baringo)
		Uchizawa/Hatakeyama	Maralal	Electric Soundings (Samburu)
		Okada	Nairobi	Adjusting References
28	9	Shimazaki/Ogino/Okada	Nairobi	Adjusting References
	Sun	Tomita/Sakata	Nairobi	Hydrogeologic Survey, Sampling Water, Interview Survey
	**-	Baringo~Nairobi		(Koibatek), Move
ļ		Uchizawa/Hatakeyama	Maralal	Electric Soundings (Sambaru)
29	10	Shimazaki / Ogino / Tomita / Sakata / Okada	Nairobi	Discussion with Ministry of Water Resource
	Mon	Uchizawa/Hatakeyama	Maralal	Electric Soundings (Samburu)
30	11	Shimazaki/Ogino/Okada	Nairobi	Arrangement of the Results of Field Survey, Investigation
•	Tue	Tomita/Sakata	Nanyuki	Move
		Nairobi∼Nanyuki		
		Uchizawa/Hatakeyama	Maralal	Electric Soundings (Samburu)
31	12	Shimazaki/Ogino/Okada	Nairobi	Arrangement of the Results of Field Survey, Investigation
				Price
	Wed	Tomita/Sakata	Nanyuki	Hydrogeologic Survey, Sampling Water, Interview Surve (Laikipia)
		Uchizawa/Hatakeyama Maralal~Nairobi	Nairobi	Move
32	13	Shimazaki	Nairobi	AdditionalCollecting References
36	Thu	Ogino/Okada	Baringo	Additional Field Survey
		Nairobi~Baringo	L	
	i	Tomita/Sakata	Nanyuki	Hydrogeologic Survey, Sampling Water, Interview Surve
				(Laikipia)
_	<u> </u>	Uchizawa/Hatakeyama	Nairobi	Adjusting References
33	14	Shimazaki	Nairobi	AdditionalCollecting References
	Fri	Ogino/Okada	ポゴリア	Additional Field Survey
		Tomita/Sakata	Nanyuki	Hydrogeologic Survey, Sampling Water, Interview Surve
		Uchizawa/Hatakeyama Nairobi~Baringo	Baringo	Move, Team Meeting

No.	Date	Move	Station	Activities
34	15	Shimazaki	Nairobi	Adjusting References
	Sat	Ogino/Okada	Nairobi	Move
i		Bariago~Nairobi		
		Tomita/Sakata	Nanyuki	Hydrogeologic Survey, Sampling Water, Interview Survey (Laikipia)
		Uchizawa/Hatakeyama	Baringo	Electric Soundings (Baringo)
35	16	Shimazaki/Ogico/Okada	Nairobi	Adjusting References
	Sun	Tomita/Sakata	Nairobi	Hydrogeologic Survey, Sampling Water, Interview Survey
		Nanyuki~Nairobi	ļ	(Laikipia), Move
		Uchizawa/Hatakeyama	Baringo	Electric Soundings (Baringo)
36	17	Shimazaki / Tomita / Sakata / Ogino / Okada	Nairobi	Discussion with Ministry of Water Resource
	Mon	Uchizawa/Hatakeyama	Baringo	Electric Soundings (Baringo)
37	18	Shimazaki/Tomita/Ogino/Okada	Nairobi	Arrangement of the Results of Field Survey
	Tue	Sakata Nairobi~Nanyuki	Nanyuki	Additional Field Survey
		Uchizawa/Hatakeyama	Baringo	Electric Soundings (Baringo)
38	19	Shimazaki/Tomita/Ogino/Okada	Nairobi	Arrangement of the Results of Field Survey
	Wed	Sakata	Nanyuki	Additional Field Survey
		Uchizawa/Hatakeyama	Baringo	Electric Soundings (Baringo)
39	20	Shimazaki/Tomita/Ogiqo/Okada	Nairobi	Arrangement of the Results of Field Survey
	Thu	Sakata Nanyuki~Baringo	Baringo	Additional Field Survey
		Uchizawa/Hatakeyama	Baringo	Electric Soundings (Baringo)
40	21	Shimazaki/Tomita/Ogino/Okada	Nairobi	Arrangement of the Results of Field Survey
•	Fri	Sakata Baringo~Maralal	Maralal	Additional Field Survey
		Uchizawa/Hatakeyama	Baringo	Electric Soundings (Koibatek)
41	22	Shimazaki/Tomita/Ogino/Okada	Nairobi	Adjusting References
	Sat	Sakata Maralal~Nairobi	Nairobi	Move
		Uchizawa / Hatakeyama Baringo ~ Nairobi	Nairobi	Move
42	23	Shimazaki/Tomita/Sakata/Uchizawa	Nairobi	Team Meeting
	Sea	/Hatakeyama/	Ì	
	<u> </u>	Ogino/Okada		
43	24 Mon	Nairobi~London	On board	Discussion with Ministry of Water Resource, Reporting to Embassy & IICA, Move
44	25 Tue	London~Tokyo	On board	Move
45	26 Wed	Tokyo	Tokyo	Move

The Mission for the Explanation of Draft Basic Design Study Report (Dec/26/1998~Nov/6/1998)

No.	Date	Move	Station	Activities
1	10/26 Mon	Yamamoto / Matsushita / Shimazaki / Tomita / Ogino Tokyo ~ Amsterdam	Amsterdam	Move
2	27 Tue	アムステルダム~Nairobi	Nairobi	Move
3	28 Wed	Nairebi	Nairobi	Courtesy Call to Embassy & JICA
4	29 Thu	Nairobi	Nairobi	Courtesy Call to Water Resource, Explanation & Discussion of Draft Basic Design Study Report
5	30 Fri	Nairobi	Nalrobi	Courtesy Call to Water Resource, Explanation & Discussion of Draft Basic Design Study Report
6	31 Sat	Nairobì	Nairobi	Team Meeting
7	11/1 Sua	Nairobi	Nairobi	Team Meeting
8	2 Mon	Nairobi	Nairobi	Discussion of the Minutes
9	3 Tue	Nairobi	Naîrobi	Signing on the Minutes
10	4 Wed	Nairobi~London	On board	Reporting to Embassy & JICA Move
11	5 Thu	London~	On board	Move
12	6 Fri	~Tokyo		Move



3. List of Party Concerned in Kenya

Japanese Embassy in Kenya

Morihisa AOKI

Ambassador

Hideki KAWATO

Second Secretary

JICA Kenya Office

Minoru TAGAMI

Resident Representative

Atsushi MATSUMOTO

Ass. Resident Representative

Takeshi NARUSE

Ass. Resident Representative

Satoru MATSUYAMA

Ass. Resident Representative

Heihachiro ISHIHARA

JICA Expert (Development Plan in Water Supply)

E. Kinyangi

Administration Officer

Ministry of Water Resources

E. K. Mwongera

Permanent Secretary

P. N. Machiri

Director of Water Development

M. K. Migwi

Senior Deputy Director, Water Development

D. N. Stower

Senior Deputy Director, Water Development

S. M. Wambua

Deputy Director, Water Development

G. W. Gichuki

Assistant Director, Water Development

S. C. M. Ochieng

Deputy Director, Groundwater Investigation

F. K. Mwango

Deputy Director, Groundwater Investigation

F. O. Donde

Deputy Director, Operation and Maintenance

G. J. Anyango

Deputy Chief Economist

T. W. Kibaki

Assistant Director, PP

K. Wathobio

Engineer

E. F. A. Onyuna

Deputy Secretary Development

P. L. Ombogo

Deputy Director, CO

P. K. Njuromba

Deputy Director, WC

Laikipia Water Office

(District Water Office, Laikipia District)

J. M. Wainaina

District Water Engineer, Laikipia District

J. B. Kariuki

J. Nderito

Geologist, Laikipia District

Samburu District Water Office

K. Mutua

District Water Engineer, Samburu District

H. K. Gitau

Geologist, Samburu District

W. K. Karani

Water Officer, Wamba Division, Samburu District

Baringo District Water Office, District

J. K. Tomno

District Water Engineer, Baringo District

I. G. Kimani

Geologist, Baringo District

Kiplagat

Koibatek District Water Office

I. K. Chesire

District Water Engineer, Koibatek District

J. M. Wawrem

Geologist, Koibatek District

ASAL Development Programme Laikipia District

T. A. J. Hendriksen

Programme Adviser

Drought Preparedness Intervention and Recovery Programme, Samburu District

M. N. Lesoloyia

4. Minutes of Discussion

Minutes – 1

Minutes of Discussions of Basic Design Study on the Project for Groundwater Development in Laikipia and the Surrounding Areas of Samburu, Koibatek, and Baringo Districts

MINUTES OF DISCUSSIONS OF BASIC DESIGN STUDY

ON

THE PROJECT FOR GROUNDWATER DEVELOPMENT IN LAIKIPIA AND THE SURROUNDING AREAS OF SAMBARU, KOIBATEK AND BARINGO DISTRICTS

> IN THE REPUBLIC OF KENYA

In response to a request from the Government of Republic of Kenya, the Government of Japan decided to conduct a basic design study on the Project for Groundwater Development in Laikipia and the Surrounding Areas of Samburu, Koibatek and Baringo Districts (hereinafter referred to as "the Project") and entrusted the study to the Japan International Cooperation Agency (JICA).

JICA dispatched to Kenya the Basic Design Study Team (hereinafter referred to as "the Team"), which is headed by Dr. Yuji MARUO, Senior Development Specialist, Institute for International Cooperation, JICA, and is scheduled to stay in the country from July 14 to August 25, 1998.

The Team had a series of discussions with concerned officials of the Government of Kenya and conducted a preliminary field survey in the Project area.

In the course of discussions and field survey, both sides have confirmed the main items described on the attached sheets. The Team will proceed with further works and prepare the Basic Design Study Report.

Nairobi, July 22, 1998

Dr. Yuji MARUO

Leader,

Basic Design Study Team,

ЛСА

ENG. E. K. MWONGERA, E.B.S., O.G.W.

Permanent Secretary,

Ministry of Water Resources

ATTACHMENT

1. Objective

The objective of the Project is to supply safe drinking water for peoples living in Laikipia and the surrounding areas of Samburu, Koibatek and Baringo Districts with groundwater.

2. Project area

The project area covers Laikipia District and the surrounding areas of Samburu, Koibatek and Baringo Districts in the Rift Valley Province.

3. Responsible and Executing Agency

Ministry of Water Resources (hereinaster referred to as "MWR") is responsible for the administration of the Project.

The Director of Water Development, MWR (hereinafter referred to as "DWD") is responsible for the implementation of the Project.

4. Items Requested by the Government of Kenya

The items requested by the Government of Kenya are as follows;

(1) Facility Construction

Construction of 100 boreholes (Type-B:Hand pump)

(2) Equipment Supply

a) Geophysical equipment 2sets

b) Station wagon type vehicle 2nos.

c) Pickup 2nos.

The Supply of equipment, background of the request and other information and data such as availability and capability of the local drilling contractors, conditions of MWR's equipment, etc. will be studied and confirmed for further consideration and discussion.

The final components of the Project, both quantity and specifications, will be decided after further studies.

MM

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5. Japan's Grant Aid System

- (1) Government of Kenya has understood the system of Japan's Grant Aid Scheme explained by the Team, as described in ANNEX-1.
- (2) Government of Kenya will take necessary measures, described in ANNEX-II for smooth implementation of the Project on condition that the Grant Aid by Government of Japan is extended to the Project.

6. Schedule of the Basic Design Study

- (1) The Team will proceed with further works in Kenya until August 25, 1998.
- (2) Based upon the Minutes of Discussions and technical explanation of the study results, JICA will prepare the draft report in English and dispatch a mission to Kenya in order to explain its contents in the middle of October, 1998.
- (3) If the contents of the report are accepted in principle by Government of Kenya, JICA will complete the final report and send it to Government of Kenya by February, 1999.

7. Other Relevant Issues

(1) Types and Number of Wells

As requested by Kenyan side, the Team will investigate one possible site per respective district for wells with motorized pump in addition to 100 sites requested by Kenyan side. They will be implemented, only if they are proved to have sufficient groundwater potential, enough capacity for operation and maintenance and cost-effectiveness.

Kenyan side also requested the Team to consider installation of windmills in those sites where wind prevails and where there are good records of operation for certain period in the close vicinity to the proposed sites. The Team will scrutinize the possibility of windmill installation in various aspects during the course of the study.

As wells with motorized pumps and windmills are usually more expensive than the ones with handpumps, the total number of sites to be implemented may be reduced accordingly, since the funds for this Project are limited.

(2) Rehabilitation

Although it is Japan's general principle that no rehabilitation will be undertaken without conducting pumping tests or without having confirmed data and information that a borehole is able to be rejuvenated, several selected sites will be visited by the Team and be examined for possible to rehabilitation.

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(3) Types and Number of Vehicles

The Team will investigate the proper types and number of vehicles which are necessary for the execution of the Project.

(4) Geophysical Exploration Equipment

The Team will scrutinize the past utilization records of previously donated geophysical equipment and define the plan of operation to utilize the requested equipment for justifying the request.

Kenyan side made a new request for the provision of electric logging equipment in addition to the originally proposed electric resistivity equipment and electro-magnetic survey equipment. Although the Team explained that they have no capacity to answer the request and have no idea on the probability of acceptance by the Government of Japan, the Team however will convey the request to Tokyo.

(5) Standard Water Consumption Rate

The most appropriate standard water consumption rate will be set in the respective area during the course of the study, taking into account the existing standards as stipulated in the design manual.

(6) Criteria for Successful Borehole Construction

Criteria for successful borehole construction will be set in terms of yield, water quality and water level during the course of the study.

(7) Suitable Handpump to be Utilized

Kenyan side advised the Team that Afridev is the most suitable handpump to be utilized in the Project when we consider the present coverage, popularity among the communities, easiness on maintenance and availability of spare parts etc.

(8) Operation and Maintenance Plans

The Team will formulate proper operation and maintenance plans to attain maximum sustainability which should be consistent with the National Water Policy as well as general practice of respective areas. Training programmes for water supply staff and community water committee members will also be formulated, if necessary.

Although the Department of Social Services is responsible for community mobilization for operation and maintenance of water supply facilities, MWR will coordinate activities between the Team and the Department of Social Services.

(9) Counterpart Personnel

MWR has agreed to provide necessary number of counterpart personnel on full time basis to the Team during the period of their investigations in the respective districts.

B-13

Japan's Grant Aid Program

1. Japan's Grant Aid Procedures

- (1) The Japan's Grant Aid is executed by the following procedures.
 - · Application (request made by a recipient country)
 - · Study (Preparatory Study / Basic Design Study conducted by JICA)
 - Appraisal & Approval (Appraisal by the Government of Japan and Approval by the Cabinet of Japan)
 - Determination of Implementation (Exchange of Notes between the Governments of Japan and the recipient country)
 - · Implementation (Implementation of the Project)
- (2) Firstly, an application or a request for a Project submitted by the recipient country is examined by the Government of Japan (the Ministry of Foreign Affairs) to determine whether or not it is suitable for Japan's Grant Aid. If the request is deemed appropriate, the Government of Japan entrusts a study on the request to JICA (Japan International Cooperation Agency).

Secondly, JICA conducts the study (Basic Design Study), using a Japanese consulting firm(s). If the background and objective of the requested project are not clear, a Preparatory Study is conducted prior to a Basic Design Study.

Thirdly, the Government of Japan appraises the project to see whether or not the Project is suitable for Japan's Grant Aid Program, based on the Basic Design Study report prepared by JICA and the results are then submitted for approval by the Cabinet.

Fourthly, the Project approved by the Cabinet becomes official when pledges by the Exchange of Notes signed by the both Governments.

Finally, for the implementation of the Project, JICA assists the recipient country in preparing contracts and so on.

M

2. Basic Design Study

(1) Contents of the Study

The purpose of the Study (Preparatory Study/Basic Design Study) conducted on a project requested by JICA is to provide a basic document necessary for appraisal of the project by the Japanese Government. The contents of the Study are as follows:

- (a) to confirm background, objectives, benefits of the project and also institutional capacity of agencies concerned of the recipient country necessary for project implementation;
- (b) to evaluate appropriateness of the Project for the Grant Aid Scheme from a technical, social and economical point of view;
- (c) to confirm items agreed on by both parties concerning the basic concept of the Project;
- (d) to prepare a basic design of the project,
- (e) to estimate cost involved in the project.

The contents of the original request are not necessarily approved in their initial form as the contents of the Grant Aid project. The Basic Design of the project is confirmed considering the guidelines of Japan's Grant Aid Scheme.

The Government of Japan requests the Government of the recipient country to take whatever measures are necessary to ensure its self-reliance in the implementation of the project. Such measures must be guaranteed even though they may fall outside of the jurisdiction of the organization in the recipient country actually implementing the project. Therefore, the implementation of the project is confirmed by all relevant organizations of the recipient country through the Minutes of Discussions.

(2) Selecting (a) Consulting Firm(s)

For smooth implementation of the study, JICA uses (a) consulting firm(s) registered. JICA selects (a) firm(s) through proposals submitted by firms which are interested. The firm(s) selected carry(ies) out a Basic Design Study and write(s) a report, based upon terms of reference made by JICA.

The consulting firm(s) used for the study is(are) recommended by JICA to a recipient country after Exchange of Notes, in order to maintain technical consistency.

MM

A.

3. Japan's Grant Aid Scheme

(1) What is Grant Aid?

The Grant Aid provides a recipient country with non-reimbursable funds needed to procure facilities, equipment and services for economic and social development of the country under the following principles in accordance with relevant laws and regulations of Japan. The Grant Aid is not in a form of donation as such.

(2) Exchange of Notes (E/N)

The Japan's Grant Aid is extended in accordance with the Exchange of Notes by both Governments, in which the objectives of the Project, period of execution, conditions and amount of the Grant Aid, etc., are confirmed.

- (3) "The period of the Grant Aid" means Japanese single fiscal year which the Cabinet approves the Project for. Within the fiscal year, all procedure such as Exchange of Notes, concluding contracts with (a) consulting firm(s) and (a) contractor(s) and a final payment to them must be completed. However in case of delays in delivery, installation or construction due to unforeseen factors such as weather, the period of the Grant Aid can be further extended for a maximum of single fiscal year at most by mutual agreement between the two Governments.
- (4) Under the Grant, in principle, products and services of origins of Japan or the recipient country are to be purchased.

When the two Governments deem it necessary, the Grant may be used for the purchase of products or services of a third country origin.

However the prime contractors, namely, consulting, construction and procurement firms, are limited to "Japanese nationals". (The term "Japanese nationals" means Japanese physical persons or Japanese juridical persons controlled by Japanese physical persons.)

MW

(5) Necessity of the "Verification"

The Government of the recipient country or its designated authority will conclude into contracts in Japanese yen with Japanese nationals. Those contracts shall be verified by the Government of Japan. The "Verification" is deemed necessary to secure accountability to Japanese tax payers.

(6) Undertakings required to the Government of the recipient country

In the implementation of the Grant Aid, the recipient country is required to undertake necessary measures such as the following:

- (a) to secure land necessary for the sites of the project and to clear and level the land prior to commencement of the construction work,
- (b) to provide facilities for distribution of electricity, water supply and drainage and other incidental facilities in and around the sites,
- (c) to secure buildings prior to the installation work in case the Project is providing equipment,
- (d) to ensure all the expenses and prompt execution for unloading, customs clearance at the port of disembarkation and internal transportation of the products purchased under the Grant Aid.
- (e) to exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which will be imposed in the recipient country with respect to the supply of the products and services under the Verified Contracts,
- (f) to accord Japanese nationals whose services may be required in connection with the supply of the products and services under the Verified Contracts, such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work.

MW

(7) Proper Use

The recipient country is required to maintain and use facilities constructed and equipment purchased under the Grant Aid properly and effectively and to assign staff necessary for their operation and maintenance as well as to bear all expenses other than those to be borne by the Grant Aid.

(8) Re-export

The products purchased under the Grant Aid shall not be re-exported from the recipient country.

(9) Banking Arrangement (B/A)

- (a) The Government of the recipient country or its designated authority shall open an account in the name of the Government of the recipient country in an authorized foreign exchange bank in Japan (hereinafter referred to as "the Bank"). The Government of Japan will execute the Grant Aid by making payments in Japanese yen to cover the obligations incurred by Government of the recipient country or its designated authority under the contracts verified.
- (b) The payments will be made when payment requests are presented by the Bank to the Government of Japan under an Authorization to Pay issued by the Government of the recipient country or its designated authority.

MM

Necessary measures to be taken by the Government of Republic of Kenya in case Japan's Grant Aid is executed.

- 1. To secure the site for the Project.
- 2. To clear, level and reclaim the site prior to commencement of the construction.
- 3. To provide data and information necessary for the Project.
- 4. To provide the land for access road, a temporary site office, warehouse and stock yard during implementation of the Project.
- 5. To provide necessary facilities for the Project such as warehouse for spare parts and other incidental facilities.
- 6. To undertake incidental outdoor works such as security of the sites, fencing, gates and exterior lighting in and around the site.
- 7. To construct the access road to the site prior to commencement of the construction, if necessary.
- 8. To bear commissions to the Japanese foreign exchange bank for the banking services based upon Banking Arrangement.
- 9. To exempt taxes and to take necessary measures for customs clearance of the materials and equipment brought for the Project at the port of disembarkation.
- 10. To ensure prompt unloading and customs clearance at a port of disembarkation in Kenya and facilitate internal transportation therein of the products purchased under the Grant,
- 11. To exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which may be imposed in Kenya with respect to the supply of the products and services under the Verified Contracts.
- 12. To accord Japanese nationals whose services may be required in connection with supply of the products and services under the verified contracts, such facilities as may be necessary for their entry into Kenya and stay therein for the performance of their work.

MM



- 13. To assign the necessary staff and secure the necessary budget for operation and maintenance of the equipment purchased under the Grant Aid.
- 14. To maintain and use properly and effectively the equipment procured under the Grant Aid.
- 15. To bear all the expenses other than those to be borne by the Grant Aid necessary for construction of the facilities as well as for the transportation and installation of the equipment.
- 16. To maintain the control of tools and spare parts purchased under the Grant Aid.

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Confirmation - 2

Operation and Maintenance Plans for Boreholes to be Drilled in Laikipia and the Surrounding Areas of Samburu, Koibatek, and Baringo Districts under Japanese Grant Aid



MINISTRY OF WATER RESOURCES

Telegrams: "WATER", Naligon

Fag:

Telephone: Namabi 716103 Natrobi 717622

Ref. No.

WBH/96 - 01/28

Dale.

24th August 1998

Mr. H. Ishihara. JICA Expen.

Ministry of Water Resources.

Maji House, NAIROBI.

Dear Mr. Ishihara,



PERMANENT SECRETARY MAJEHOUSE NGONG ROAD P.O Bux 30521

NAIRORE

OPERATION AND MAINTENANCE PLANS FOR BOREHOLES TO BE DRILLED IN LAIKIPIA AND THE SURROUNDING AREAS OF SAMBURU. KOIBATEK AND BARINGO DISTRICTS UNDER JAPANESE GRANT AID

Further to the discussions on the above named project during the meeting held this morning Monday, 24th August, 1998 in your office between the IICA study team and the Kenya personnel, I wish to confirm the Ministry's commitment in ensuring sustainability of this project for its success. This will be approached in three ways as follows:-

- (i) That the beneficiaries will be empowered to have the capacity to carry out operation and maintenance through their by laws under which there will be a Management Committee for each borehole. They will set their own tariffs, open bank account and procure the necessary spares. For minor servicing of the borehole pumps, each borehole will have a gantry or a tripod to avoid any delay.
- That for any major breakdown which may include the pump and pipes (ii) dropping into the borehole, the Ministry is finalizing plans to set up a special unit (including a drilling rig) for intervention purposes and that communication on same will be made known to the beneficiaries to avoid any delays and inconveniences.
- That the Ministry will continue to monitor and evaluate the operation and (iii) maintenance of these boreholes and give technical advice where necessary. Besides this, the water levels of the boreholes will also be measured regularly to monitor any fluctuations and take corrective measures.

2. From the foregoing, I wish to reiterate the Ministry's commitment to the success of this project and also take this opportunity to thank you for the cooperation and support.

Yours Sincerely

5, C. M. OCHIEN'C

FOR:-DIRECTOR OF WATER DEVELOPMENT

Minutes – 3

Minutes of Discussions of Basic Design Study on the Project for Groundwater Development in Laikipia and the Surrounding Areas of Samburu, Koibatek, and Baringo Districts (Consultation on Draft Report)



MINUTES OF DISCUSSIONS OF BASIC DESIGN STUDY ON

THE PROJECT FOR GROUNDWATER DEVELOPMENT IN LAIKIPIA AND THE SURROUNDING AREAS OF SAMBURU, KOIBATEK AND BARINGO DISTRICTS

IN

THE REPUBLIC OF KENYA (CONSULTATION ON DRAFT REPORT)

In July 1998, the Japan International Cooperation Agency (hereinafter referred to as "JICA") dispatched a basic design study team on the Project for Groundwater Development in Laikipia and the Surrounding Areas of Samburu, Koibatek and Baringo Districts (hereinafter referred to as "the Project") to the Republic of Kenya (hereinafter referred to as "Kenya"), and through discussion, field survey, and technical examination of the results in Japan, JICA has prepared a Draft Report of the Study.

In order to explain and to consult officials of the Government of Kenya on the components of the Draft Report, JICA dispatched to Kenya the Draft Report Explanation Team (hereinafter referred to as "the Team"), which is headed by Ms. Keiko YAMAMOTO, Development Specialist, Institute for International Cooperation, JICA, and is scheduled to stay in the country from October 28 to November 4, 1998.

As a result of discussions, both sides have confirmed the main items described on the attached sheets.

Nairobi, November 3, 1998

Ms. Čeiko YAMAMOTO

Leader.

The Explanation Team, for the Draft Basic Design,

JICA

ENG. E. K. MWONGERA, E.B.S., O.G.W.

Permanent Secretary,

Ministry of Water Resources

ATTACHMENT

1. Components of the Draft Report

The Government of Kenya has agreed and accepted in principle the components of the Draft Report proposed by the Team.

2. Japan's Grant Aid System

- (1)The Government of Kenya has understood the Japan's Grant Aid System as described in Annex-I.
- (2) The Government of Kenya will take necessary measures, as described in Annex-II for smooth implementation of the Grant Aid, on condition that the Grant Aid by the Government of Japan is extended to the Project.

3. Further Schedule

JICA will make the Basic Design Study Report in accordance with the confirmed items and send it to the Government of Kenya around February, 1999.

4.Monitoring

Each Executing Agency has the responsibility in monitoring and reporting the activity and condition of the equipment by the Project.

Content of the monitoring will be presented by the Basic Design Study Report.

5. Other Relevant Issues

(1)Both sides confirmed main components of the Draft Report:

- 1) Construction of 90 boreholes equipped with hand-pumps with appurtenant structures.
- Supply of 4 nos. of 4WD double pickup and 1 lot. of electric sounding equipment for use by 4 District Water Offices (DWOs).
- 3) Community Training.
- (2) The Government of Kenya will undertake the following prior to commencement of construction works:
 - 1) Construction of access roads and arrangement of lands necessary for the Project.
 - 2) Establishment of the Self-Help Water Groups (water communities) for 90 boreholes.
 - 3) Necessary budget arrangement for the "Kenya/Japan Water and Sanitation Programme Unit (K/JWSPU) under the Water Resources Development Branch in the Ministry of Water Resources (MWR), aiming at the smooth implementation of the Project, and the Project sustainability.

B

M.

Japan's Grant Aid Program

1. Japan's Grant Aid Procedures

- (1) The Japan's Grant Aid is executed by the following procedures.
 - · Application (request made by a recipient country)
 - · Study (Preparatory Study / Basic Design Study conducted by JICA)
 - · Appraisal & Approval (Appraisal by the Government of Japan and Approval by the Cabinet of Japan)
 - Determination of Implementation (Exchange of Notes between the Governments of Japan and the recipient country)
 - · Implementation (Implementation of the Project)
- (2) Firstly, an application or a request for a Project submitted by the recipient country is examined by the Government of Japan (the Ministry of Foreign Affairs) to determine whether or not it is suitable for Japan's Grant Aid. If the request is deemed appropriate, the Government of Japan entrusts a study on the request to JICA (Japan International Cooperation Agency).

Secondly, JICA conducts the study (Basic Design Study), using a Japanese consulting firm(s). If the background and objective of the requested project are not clear, a Preparatory Study is conducted prior to a Basic Design Study.

Thirdly, the Government of Japan appraises the project to see whether or not the Project is suitable for Japan's Grant Aid Program, based on the Basic Design Study report prepared by JICA and the results are then submitted for approval by the Cabinet.

Fourthly, the Project approved by the Cabinet becomes official when pledges by the Exchange of Notes signed by the both Governments.

Finally, for the implementation of the Project, JICA assists the recipient country in preparing contracts and so on.



2. Basic Design Study

(1) Contents of the Study

The purpose of the Study (Preparatory Study/Basic Design Study) conducted on a project requested by JICA is to provide a basic document necessary for appraisal of the project by the Japanese Government. The contents of the Study are as follows:

- (a) to confirm background, objectives, benefits of the project and also institutional capacity of agencies concerned of the recipient country necessary for project implementation;
 - (b) to evaluate appropriateness of the Project for the Grant Aid Scheme from a technical, social and economical point of view;
 - (c) to confirm items agreed on by both parties concerning the basic concept of the Project;
 - (d) to prepare a basic design of the project,
 - (e) to estimate cost involved in the project.

The contents of the original request are not necessarily approved in their initial form as the contents of the Grant Aid project. The Basic Design of the project is confirmed considering the guidelines of Japan's Grant Aid Scheme.

The Government of Japan requests the Government of the recipient country to take whatever measures are necessary to ensure its self-reliance in the implementation of the project. Such measures must be guaranteed even though they may fall outside of the jurisdiction of the organization in the recipient country actually implementing the project. Therefore, the implementation of the project is confirmed by all relevant organizations of the recipient country through the Minutes of Discussions.

(2) Selecting (a) Consulting Firm(s)

For smooth implementation of the study, JICA uses (a) consulting firm(s) registered. JICA selects (a) firm(s) through proposals submitted by firms which are interested. The firm(s) selected carry(ies) out a Basic Design Study and write(s) a report, based upon terms of reference made by JICA.

The consulting firm(s) used for the study is(are) recommended by JICA to a recipient country after Exchange of Notes, in order to maintain technical consistency.

B

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3. Japan's Grant Aid Scheme

(1) What is Grant Aid?

The Grant Aid provides a recipient country with non-reimbursable funds needed to procure facilities, equipment and services for economic and social development of the country under the following principles in accordance with relevant laws and regulations of Japan. The Grant Aid is not in a form of donation as such.

(2) Exchange of Notes (E/N)

The Japan's Grant Aid is extended in accordance with the Exchange of Notes by both Governments, in which the objectives of the Project, period of execution, conditions and amount of the Grant Aid, etc., are confirmed.

- (3) "The period of the Grant Aid" means Japanese single fiscal year which the Cabinet approves the Project for. Within the fiscal year, all procedure such as Exchange of Notes, concluding contracts with (a) consulting firm(s) and (a) contractor(s) and a final payment to them must be completed. However in case of delays in delivery, installation or construction due to unforeseen factors such as weather, the period of the Grant Aid can be further extended for a maximum of single fiscal year at most by mutual agreement between the two Governments.
- (4) Under the Grant, in principle, products and services of origins of Japan or the recipient country are to be purchased.

When the two Governments deem it necessary, the Grant may be used for the purchase of products or services of a third country origin.

However the prime contractors, namely, consulting, construction and procurement firms, are limited to "Japanese nationals". (The term "Japanese nationals" means Japanese physical persons or Japanese juridical persons controlled by Japanese physical persons.)



(5) Necessity of the "Verification"

The Government of the recipient country or its designated authority will conclude into contracts in Japanese yen with Japanese nationals. Those contracts shall be verified by the Government of Japan. The "Verification" is deemed necessary to secure accountability to Japanese tax payers.

(6) Undertakings required to the Government of the recipient country

In the implementation of the Grant Aid, the recipient country is required to undertake necessary measures such as the following:

- (a) to secure land necessary for the sites of the project and to clear and level the land prior to commencement of the construction work,
- (b) to provide facilities for distribution of electricity, water supply and drainage and other incidental facilities in and around the sites.
- (c) to secure buildings prior to the installation work in case the Project is providing equipment,
- (d) to ensure all the expenses and prompt execution for unloading, customs clearance at the port of disembarkation and internal transportation of the products purchased under the Grant Aid.
- (e) to exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which will be imposed in the recipient country with respect to the supply of the products and services under the Verified Contracts,
- (f) to accord Japanese nationals whose services may be required in connection with the supply of the products and services under the Verified Contracts, such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work.



(7) Proper Use

The recipient country is required to maintain and use facilities constructed and equipment purchased under the Grant Aid properly and effectively and to assign staff necessary for their operation and maintenance as well as to bear all expenses other than those to be borne by the Grant Aid.

(8) Re-export

The products purchased under the Grant Aid shall not be re-exported from the recipient country.

(9) Banking Arrangement (B/A)

- (a) The Government of the recipient country or its designated authority shall open an account in the name of the Government of the recipient country in a bank in Japan (hereinafter referred to as "the Bank"). The Government of Japan will execute the Grant Aid by making payments in Japanese yen to cover the obligations incurred by Government of the recipient country or its designated authority under the contracts verified.
- (b) The payments will be made when payment requests are presented by the Bank to the Government of Japan under an Authorization to Pay issued by the Government of the recipient country or its designated authority.



Necessary measures to be taken by the Government of Republic of Kenya in case Japan's Grant Aid is executed.

- 1. To secure the site for the Project.
- 2. To clear, level and reclaim the site prior to commencement of the construction.
- 3. To provide data and information necessary for the Project.
- 4. To provide the land for access road, a temporary site office, warehouse and stock yard during implementation of the Project.
- 5. To provide warehouse for storage of spare parts and other equipment procured by the Project at District Water Office (DWO).
- 6. To undertake incidental outdoor works such as security of the sites, fencing, gates and exterior lighting around

sites, if necessary.

- 7. To construct the access road to the site prior to commencement of the construction, if necessary.
- 8. To bear commissions to the Japanese bank for the banking services based upon Banking Arrangement.
- 9. To except taxes and to take necessary measures for customs clearance of the materials and equipment brought for the Project at the port of disembarkation.
- 10. To ensure prompt unloading and customs clearance at a port of disembarkation in Kenya and facilitate internal transportation therein of the products purchased under the Grant.
- 11. To exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which may be imposed in Kenya with respect to the supply of the products and services under the Verified Contracts.
- 12. To accord Japanese nationals whose services may be required in connection with supply of the products and services under the verified contracts, such facilities as may be necessary for their entry into Kenya and stay therein for the performance of their work.



- 13. To assign the necessary staff and secure the necessary budget for operation and maintenance of the equipment purchased under the Grant Aid.
- 14. To maintain and use properly and effectively the equipment procured under the Grant Aid.
- 15. To bear all the expenses other than those to be borne by the Grant Aid necessary for construction of the facilities as well as for the transportation and installation of the equipment.
- 16. To maintain the control of tools and spare parts purchased under the Grant Aid.





5. References

5. References

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3	BARINGO District Development Plan 1997-2001		Ministry of Planning and National Development
4	KOIBATEK District Development Plan 1997- 2001		Ministry of Planning and National Development
5	SAMBURU District Development Plan 1997-2001		Ministry of Planning and National Development
6	LAIKIPIA District Development Plan 1997- 2001		Ministry of Planning and National Development
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12	Water Users Associations Support / Project Document	Dec-1994	Ministry of Land Reclamation
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14	Training Course on Basic Management for	Aug-1998	Ministry of Water Resources
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16	Refresher Course for Pumn/Chemical	Jan-1998	Ministry of Water Resources
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30	Water Analysis Report	Dec-1995	Ministry of Water Resources
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 $(x,y) = \frac{1}{2} \left(\frac{1}{2} \left(\frac{x^2 + y^2}{2} \right) + \frac{y^2 + y^2}{2} \right) = \frac{1}{2} \left(\frac{y^2 + y^2}{2} \right)$

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