

Q1M1	DIA1M1	DIST	DMS	LOCATION	SUBLOC	VILLAGE	GEOSER	Q1INTOC	Q1AGE	Q1SEX	Q1RES1	Q2M1DOC	Q2WOC	Q2FHS	Q2POPN	Q2FAMILY	Q2WOF	Q2FINC	Q2RNSOU	Q2VFR
1	2	1	1	3	1	1	3	7	22	1	22	6	10	100	2000	8	3	1	2	2
2	2	1	1	7	2	2	3	7	48	1	48	6	10	800	1500	10	8	1	2	2
3	2	1	2	44	3	3	1	8	39	1	30	8	10	500	6000	10	5	1	2	2
4	1	1	2	44	4	4	1	3	33	2	33	6	7	1000	4000	10	10	4	2	4
5	2	1	1	4	5	5	2	1	45	1	45	8	10	88	480	8	5	2	2	4
6	1	1	2	45	6	3	3	3	31	1	6	8	8	300	10	8	1	3	8	4
7	1	1	2	7	7	78	1	6	82	1	24	8	5	300	3000	10	6	1	4	2
8	2	1	2	48	7	7	3	1	38	1	38	1	5	400	2500	8	4	1	9	5
9	2	1	2	7	8	8	3	1	47	1	8	1	5	200	870	6	4	2	2	2
10	2	1	2	47	9	8	2	2	28	1	28	1	5	400	2000	8	5	1	2	4
11	2	1	3	10	10	10	2	7	37	1	30	1	9	100	4000	8	5	3	9	4
12	2	1	3	49	11	11	3	7	20	1	20	8	10	40	1000	8	4	2	2	4
13	1	1	3	6	13	13	1	6	31	1	2	5	8	2000	10000	5	3	2	9	6
14	2	1	3	6	14	13	1	2	30	1	2	1	5	600	1000	10	5	2	8	7
15	1	1	3	6	15	15	2	7	58	1	8	1	9	500	5000	10	6	1	2	7
16	2	1	1	54	16	17	2	1	35	1	30	6	5	300	800	10	5	4	2	4
17	2	2	10	81	18	18	2	1	43	1	30	8	8	344	2938	8	6	2	8	4
18	1	2	10	45	19	19	3	2	21	1	18	8	9	55	600	10	7	1	8	2
19	1	2	8	21	20	20	1	7	80	1	80	8	10	100	1500	10	5	1	2	4
20	2	2	4	50	21	21	1	1	42	1	42	8	5	800	4000	7	5	2	2	4
21	2	2	4	50	22	22	1	1	34	1	34	8	5	500	2000	10	6	2	8	4
22	2	2	10	19	23	23	1	1	37	1	37	8	7	250	2500	8	2	2	8	4
23	1	2	9	51	25	24	2	1	27	1	27	8	10	200	1657	10	6	2	8	5
24	1	2	9	16	26	25	1	1	43	1	43	8	5	250	8500	12	9	1	2	4
25	1	2	8	12	27	26	3	1	52	1	52	1	5	200	2400	12	9	1	2	4
26	1	2	8	52	28	27	3	7	37	1	37	8	9	300	4000	10	5	3	2	4
27	1	2	4	50	21	24	1	2	40	1	40	7	5	300	1000	10	5	3	2	4
28	2	2	7	53	28	30	2	2	25	1	25	6	5	400	2500	8	5	2	2	4
29	1	2	7	53	28	31	2	7	22	1	22	6	5	400	1800	8	5	2	2	4
30	2	2	5	54	29	32	3	1	32	1	10	1	5	250	3800	10	6	3	2	4
31	2	2	8	12	27	29	1	1	52	1	24	1	5	1500	6000	10	6	3	2	4
32	2	2	5	55	30	33	2	7	25	1	25	8	10	200	2000	10	4	2	9	3
33	1	2	5	54	31	34	3	7	19	2	13	1	5	150	800	10	7	3	8	4
34	1	2	5	14	32	35	1	7	25	1	3	8	7	100	1000	8	6	1	8	4
35	1	2	7	53	33	36	2	2	25	1	25	8	10	300	1000	8	6	1	8	4
36	2	2	7	53	33	37	2	3	25	1	25	6	9	44	500	10	6	2	8	4
37	1	3	14	64	37	41	1	2	29	1	8	2	10	300	2000	7	7	1	1	3
38	1	3	13	63	35	39	3	2	39	1	1	2	2	400	2400	8	6	2	6	1
39	2	3	20	24	36	40	1	9	38	1	3	6	5	300	5000	9	5	2	9	5
40	1	4	15	33	38	44	1	1	50	1	50	1	5	500	1550	9	3	3	8	2
41	1	4	15	52	39	45	3	7	25	1	25	1	5	200	2000	10	5	1	8	4
42	1	4	15	33	39	44	3	7	42	1	14	1	5	250	2500	10	6	3	2	4
43	2	4	15	55	40	45	2	1	37	1	30	1	5	800	4000	10	4	4	8	2
44	2	4	15	52	41	46	3	7	58	1	58	1	5	200	2000	10	8	2	2	4
45	1	4	15	31	42	47	2	6	48	1	48	1	5	800	7000	8	5	1	2	7
46	2	4	15	57	43	48	3	7	38	1	38	1	5	150	3000	10	6	3	2	4
47	1	4	15	59	44	49	3	7	34	1	34	8	10	150	1500	10	6	1	2	2
48	2	4	59	32	45	50	3	7	28	1	28	1	5	200	2000	10	6	3	2	4
49	1	4	19	27	46	51	1	7	29	1	29	2	10	300	2500	9	3	2	8	2
50	2	4	19	30	47	52	1	2	34	1	5	8	10	800	8000	8	5	2	10	5
51	1	4	19	30	47	53	1	7	40	1	20	8	2	500	2700	12	4	1	10	6
52	1	4	18	29	48	54	3	7	35	1	15	8	10	1000	5000	5	2	1	5	4
53	2	4	18	29	49	55	3	7	21	1	7	8	10	350	3000	10	5	2	8	4
54	1	4	18	28	50	56	3	7	30	2	30	6	10	800	8000	10	4	2	8	4
55	2	4	18	29	50	57	3	2	48	2	5	6	11	150	2000	10	5	2	2	4
56	1	4	18	28	48	58	2	7	35	1	20	6	10	500	5000	10	3	1	8	4
57	2	4	18	29	51	59	3	6	49	1	4	6	11	300	1500	5	2	2	8	2
58	1	4	18	28	51	54	3	7	30	1	8	6	10	300	2000	9	4	1	8	4
59	2	4	18	29	48	60	1	7	40	1	27	8	10	1000	5000	5	3	2	8	2
60	2	4	18	29	52	61	1	7	42	1	19	1	10	300	2400	8	3	2	2	4
61	2	4	18	29	53	62	1	7	20	1	19	6	11	300	2000	8	4	2	8	3
62	1	4	18	26	54	63	3	7	20	1	14	6	10	2000	10000	9	4	2	8	4
63	1	4	15	32	55	64	3	7	35	1	35	1	5	200	1800	8	3	1	2	4
64	2	4	15	32	55	78	3	7	30	2	30	8	11	200	1500	8	6	2	2	4
65	2	4	19	30	56	79	2	7	36	1	5	9	11	100	1500	10	5	2	8	2
66	1	4	19	25	57	86	1	7	42	1	18	8	5	300	3000	10	4	3	10	7
67	2	4	19	27	58	80	3	7	40	1	8	2	10	150	1000	8	3	1	1	4
68	1	4	19	25	59	81	2	7	50	2	11	6	6	400	4000	10	4	1	8	2
69	1	4	18	26	54	82	2	7	48	1	20	8	8	500	5000	10	5	2	8	4
70	2	4	17	41	60	53	2	2	30	1	8	8	11	150	1500	6	3	2	1	1
71	1	4	17	41	60	84	2	2	31	2	4	2	10	2000	20000	10	5	1	1	4
72	2	4	17	43	61	85	1	7	32	1	12	6	11	2000	8000	4	2	1	9	1
73	1	4	17	43	61	86	3	2	31	2	2	8	2	2000	10	3	1	1	7	1
74	2	4	17	43	61	87	2	7	49	1	20	6	11	100	1500	10	5	2	8	7
75	1	4	17	43	62	72	1	7	50	2	10	2	10	350	2500	8	4	2	10	8
76	2	4	17	43	66	85	2	7	58	1	8	8	11	200	2000	8	4	3	8	4
77	1	4	16	42	69	73	1	7	37	1	26	6	10	1000	10000	10	5	3	8	4
78	2	4	17	42	64	74	1	7	32	1	10	6	10	800	8000	10	5	2	8	4
79	1	4	17	43	62	88	2	7	32	2	32	2	2	300	2000	10	5	2	1	4
80	2	4	16	34	65	90	2	2	53	1	10	2	10	500	3000	10	6	2	1	7
81	1	4	16	34	65	89	2	2	43	1	6	2	10	1000	5000	5	2	1	8	2









## ***APPENDICES***

- 1 . Member List of Survey Team***
- 2 . Survey Itinerary***
- 3 . List of Party Concerned in Kenya***
- 4 . Minutes of Discussion***
- 5 . References***

## ***1. Member List of Survey Team***





## 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 & Maintenance Planner	Hitoshi SHIMAZAKI	Nippon Koei Co.,Ltd
Hydrogeologist I	Yukishi TOMITA	Nippon Koei Co.,Ltd
Hydrogeologist II	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 &  
Maintenance Planner**      **Hitoshi SHIMAZAKI**      **Nippon Koei Co.,Ltd**

**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 Mon	Maruo/Matsushita/Shimazaki/Tomita /Uchizawa/Hatakeyama/Ogino Tokyo~London~Nairobi	On board	Move
2	14 Tue	Nairobi	Nairobi	Courtesy Call to Embassy & JICA & Water Resource
3	15 Wed		Nairobi	Discussion with Ministry of Water Resource
4	16 Thu	Maruo/Matsushita/Shimazaki/Tomita /Ogino Nairobi~Nanyuki	Nanyuki	Visiting Laikipia District Water Office, Fields Survey
		Uchizawa/Hatakeyama	Nairobi	Check the Points of Electric Soundings
5	17 Fri	Maruo/Matsushita/Shimazaki/Tomita /Ogino Nanyuki~Samburu	Samburu	Fields Survey
		Uchizawa/Hatakeyama	Nairobi	Check the Points of Electric Soundings
6	18 Sat	Maruo/Matsushita/Shimazaki/Tomita /Ogino Samburu~Maralal~Nyabururu	Nyahururu	Visiting Samburu District Office, Fields Survey
		Uchizawa/Hatakeyama	Nairobi	Check the Points of Electric Soundings
7	19 Sun	Maruo/Matsushita/Shimazaki/Tomita /Ogino Nyahururu~Marigat~Nairobi	Nairobi	Discussion Member of Staff in Baringo and Koibatek District, Fields Survey
		Uchizawa/Hatakeyama	Nairobi	Check the Points of Electric Soundings
8	20 Mon	Maruo/Matsushita/Shimazaki/Tomita /Ogino	Nairobi	Discussion with Ministry of Water Resource
		Uchizawa/Hatakeyama	Nairobi	Check the Points of Electric Soundings
9	21 Tue	Maruo/Matsushita/Shimazaki/Tomita /Ogino	Nairobi	Discussion with Ministry of Water Resource
		Uchizawa/Hatakeyama Nairobi~Nanyuki	Nanyuki	Move
10	22 Wed	Maruo/Matsushita/Shimazaki/Tomita /Ogino	Nairobi	Signing on the Minutes
		Uchizawa/Hatakeyama	Nanyuki	Electric Soundings (Laikipia)
11	23 Thu	Maruo/Matsushita Nairobi~London	On board	Team Meeting, Move
		Shimazaki/Tomita/Ogino	Nairobi	Team Meeting
		Uchizawa/Hatakeyama	Nanyuki	Electric Soundings (Laikipia)
12	24 Fri	Maruo/Matsushita London~Tokyo	On board	Move
		Shimazaki/Tomita/Ogino	Nairobi	Collecting References
		Uchizawa/Hatakeyama	Nanyuki	Electric Soundings (Laikipia)
13	25 Sat	Maruo/Matsushita Tokyo		Move
		Shimazaki/Tomita/Ogino	Nairobi	Collecting References
		Uchizawa/Hatakeyama	Nanyuki	Electric Soundings (Laikipia)
14	26 Sun	Shimazaki/Tomita/Ogino	Nairobi	Collecting References
		Uchizawa/Hatakeyama	Nanyuki	Electric Soundings (Laikipia)
15	27 Mon	Shimazaki/Tomita/Ogino	Nairobi	Collecting References, Discussion with Ministry of Water Resource
		Uchizawa/Hatakeyama	Nanyuki	Electric Soundings (Laikipia)

No.	Date	Move	Station	Activities
16	28 Tue	Shimazaki/Tomita/Ogino	Nairobi	Collecting References
		Uchizawa/Hatakeyama	Nanyuki	Electric Soundings (Laikipia)
		Sakata/Okada Tokyo~London~Nairobi	On board	Move
17	29 Wed	Shimazaki/Tomita/Ogino	Nairobi	Collecting References, Team Meeting
		Uchizawa/Hatakeyama	Nanyuki	Electric Soundings (Laikipia)
		Sakata/Okada Nairobi	Nairobi	Team Meeting
18	30 Thu	Shimazaki/Ogino Nairobi~Nanyuki	Nanyuki	Move, Survey to Existing Well (Laikipia)
		Tomita/Sakata Nairobi~Maralal	Maralal	Move, Hydrogeologic Survey, Sampling Water, Interview 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	Nanyuki	Electric Soundings (Laikipia)
		Okada	Nairobi	Collecting References
20	8/1 Sat	Shimazaki/Ogino Nanyuki~Nairobi	Nairobi	Survey to Existing Well (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
21	2 Sun	Shimazaki/Ogino/Okada	Nairobi	Adjusting References
		Tomita/Sakata Maralal~ワンバ~Samburu	Samburu	Hydrogeologic Survey, Sampling Water, Interview Survey (Samburu)
		Uchizawa/Hatakeyama	Nyahururu	Electric Soundings (Laikipia)
22	3 Mon	Shimazaki/Ogino Nairobi~Maralal	Maralal	Move, Survey to Existing Well (Samburu)
		Tomita/Sakata Samburu~ワンバ~Maralal	Maralal	Hydrogeologic Survey, Sampling Water, Interview Survey (Samburu)
		Uchizawa/Hatakeyama	Nyahururu	Electric Soundings (Laikipia)
		Okada	Nairobi	Investigation Price
23	4 Tue	Shimazaki/Ogino	Maralal	Survey to Existing Well (Samburu)
		Tomita/Sakata Maralal~Baringo	Baringo	Move
		Uchizawa/Hatakeyama Nyahururu~Nairobi	Nairobi	Move
		Okada	Nairobi	Investigation Price
24	5 Wed	Shimazaki/Ogino	Maralal	Survey to Existing Well (Samburu)
		Tomita/Sakata	Baringo	Hydrogeologic Survey, Sampling Water, Interview Survey (Baringo)
		Uchizawa/Hatakeyama	Nairobi	Adjusting References
		Okada	Nairobi	Investigation Price

No.	Date	Move	Station	Activities
25	6 Thu	Shimazaki/Ogino Maralal~Baringo	Baringo	Move
		Tomita/Sakata	Baringo Maralal	Hydrogeologic Survey, Sampling Water, Interview Survey (Baringo)
		Uchizawa/Hatakeyama Nairobi~Maralal		Move
		Okada	Nairobi	Investigation Price
26	7 Fri	Shimazaki/Ogino	Baringo	Survey to Existing Well (Baringo)
		Tomita/Sakata	Baringo	Hydrogeologic Survey, Sampling Water, Interview Survey (Baringo)
		Uchizawa/Hatakeyama	Maralal	Electric Soundings (Samburu)
		Okada	Nairobi	Investigation Price
27	8 Sat	Shimazaki/Ogino Baringo~Nairobi	Baringo	Survey to Existing Well (Koibatek)
		Tomita/Sakata	Baringo	Hydrogeologic Survey, Sampling Water, Interview Survey (Baringo)
		Uchizawa/Hatakeyama	Maralal	Electric Soundings (Samburu)
		Okada	Nairobi	Adjusting References
28	9 Sun	Shimazaki/Ogino/Okada	Nairobi	Adjusting References
		Tomita/Sakata Baringo~Nairobi	Nairobi	Hydrogeologic Survey, Sampling Water, Interview Survey (Koibatek), Move
		Uchizawa/Hatakeyama	Maralal	Electric Soundings (Samburu)
29	10 Mon	Shimazaki/Ogino/Tomita/Sakata/ Okada	Nairobi	Discussion with Ministry of Water Resource
		Uchizawa/Hatakeyama	Maralal	Electric Soundings (Samburu)
30	11 Tue	Shimazaki/Ogino/Okada	Nairobi	Arrangement of the Results of Field Survey, Investigation Price
		Tomita/Sakata Nairobi~Nanyuki	Nanyuki	Move
		Uchizawa/Hatakeyama	Maralal	Electric Soundings (Samburu)
31	12 Wed	Shimazaki/Ogino/Okada	Nairobi	Arrangement of the Results of Field Survey, Investigation Price
		Tomita/Sakata	Nanyuki	Hydrogeologic Survey, Sampling Water, Interview Survey (Laikipia)
		Uchizawa/Hatakeyama Maralal~Nairobi	Nairobi	Move
32	13 Thu	Shimazaki	Nairobi	Additional Collecting References
		Ogino/Okada Nairobi~Baringo	Baringo	Additional Field Survey
		Tomita/Sakata	Nanyuki	Hydrogeologic Survey, Sampling Water, Interview Survey (Laikipia)
		Uchizawa/Hatakeyama	Nairobi	Adjusting References
33	14 Fri	Shimazaki	Nairobi	Additional Collecting References
		Ogino/Okada	ボゴリア	Additional Field Survey
		Tomita/Sakata	Nanyuki	Hydrogeologic Survey, Sampling Water, Interview Survey (Laikipia)
		Uchizawa/Hatakeyama Nairobi~Baringo	Baringo	Move, Team Meeting

No.	Date	Move	Station	Activities
34	15	Shimazaki	Nairobi	Adjusting References
	Sat	Ogino/Okada	Nairobi	Move
		Baringo~Nairobi		
		Tomita/Sakata	Nanyuki	Hydrogeologic Survey, Sampling Water, Interview Survey (Laikipia)
		Uchizawa/Hatakeyama	Baringo	Electric Soundings (Baringo)
35	16	Shimazaki/Ogino/Okada	Nairobi	Adjusting References
		Tomita/Sakata	Nairobi	Hydrogeologic Survey, Sampling Water, Interview Survey (Laikipia), Move
		Nanyuki~Nairobi		
		Uchizawa/Hatakeyama	Baringo	Electric Soundings (Baringo)
36	17	Shimazaki/Tomita/Sakata/Ogino/Okada	Nairobi	Discussion with Ministry of Water Resource
		Uchizawa/Hatakeyama	Baringo	Electric Soundings (Baringo)
37	18	Shimazaki/Tomita/Ogino/Okada	Nairobi	Arrangement of the Results of Field Survey
		Sakata	Nanyuki	Additional Field Survey
		Nairobi~Nanyuki		
		Uchizawa/Hatakeyama	Baringo	Electric Soundings (Baringo)
38	19	Shimazaki/Tomita/Ogino/Okada	Nairobi	Arrangement of the Results of Field Survey
		Sakata	Nanyuki	Additional Field Survey
		Uchizawa/Hatakeyama	Baringo	Electric Soundings (Baringo)
39	20	Shimazaki/Tomita/Ogino/Okada	Nairobi	Arrangement of the Results of Field Survey
		Sakata	Baringo	Additional Field Survey
		Nanyuki~Baringo		
		Uchizawa/Hatakeyama	Baringo	Electric Soundings (Baringo)
40	21	Shimazaki/Tomita/Ogino/Okada	Nairobi	Arrangement of the Results of Field Survey
		Sakata	Maralal	Additional Field Survey
		Baringo~Maralal		
		Uchizawa/Hatakeyama	Baringo	Electric Soundings (Koibatek)
41	22	Shimazaki/Tomita/Ogino/Okada	Nairobi	Adjusting References
		Sakata	Nairobi	Move
		Maralal~Nairobi		
		Uchizawa/Hatakeyama	Nairobi	Move
		Baringo~Nairobi		
42	23	Shimazaki/Tomita/Sakata/Uchizawa/Hatakeyama/Ogino/Okada	Nairobi	Team Meeting
43	24	Nairobi~London	On board	Discussion with Ministry of Water Resource, Reporting to Embassy & JICA, Move
44	25	London~Tokyo	On board	Move
45	26	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	Nairobi	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	Nairobi	Courtesy Call to Water Resource, Explanation & Discussion of Draft Basic Design Study Report
6	31 Sat	Nairobi	Nairobi	Team Meeting
7	11/1 Sun	Nairobi	Nairobi	Team Meeting
8	2 Mon	Nairobi	Nairobi	Discussion of the Minutes
9	3 Tue	Nairobi	Nairobi	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***

### 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. Mwangera	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. Mwangi	Deputy Director, Groundwater Investigation
F. O. Donda	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. Njurumba	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**

<b>K. Mutua</b>	<b>District Water Engineer, Samburu District</b>
<b>H. K. Gitau</b>	<b>Geologist, Samburu District</b>
<b>W. K. Karani</b>	<b>Water Officer, Wamba Division, Samburu District</b>

**Baringo District Water Office, District**

<b>J. K. Tomno</b>	<b>District Water Engineer, Baringo District</b>
<b>I. G. Kimani</b>	<b>Geologist, Baringo District</b>
<b>Kiplagat</b>	

**Koibatek District Water Office**

<b>I. K. Chesire</b>	<b>District Water Engineer, Koibatek District</b>
<b>J. M. Wawrem</b>	<b>Geologist, Koibatek District</b>

**ASAL Development Programme Laikipia District**

<b>T. A. J. Hendriksen</b>	<b>Programme Adviser</b>
----------------------------	--------------------------

**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.

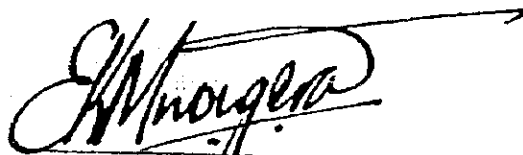
The Team had a series of discussions with concerned officials of the Government of Kenya and conducted a preliminary field survey in the Project area.

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

丸尾祐治

Dr. Yuji MARUO  
Leader,  
Basic Design Study Team,  
JICA



ENG. E. K. MWONIGERA, 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 (hereinafter 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.



## 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-I.
- (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.

*mm*

*AM.*

### (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.



## 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.

*mm*



## 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*



### 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. )

*mm*



(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.

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(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

JM.

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.





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**





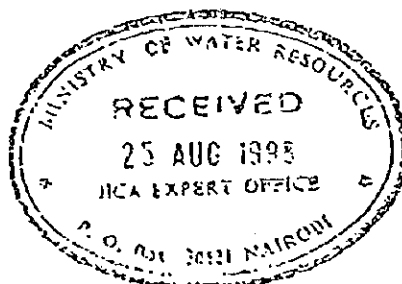
## MINISTRY OF WATER RESOURCES

Telegrams: "WATER", Nairobi  
Telephone: Nairobi 716103  
Fax: Nairobi 727622

Ref. No. WBH/96 - 01/28

Date. 24<sup>th</sup> August, 1998

PERMANENT SECRETARY  
MAJI HOUSE  
NGONG ROAD  
P.O. Box 30521  
NAIROBI



Mr. H. Ishihara,  
JICA Expert,  
Ministry of Water Resources,  
Maji House,  
NAIROBI

Dear Mr. Ishihara,

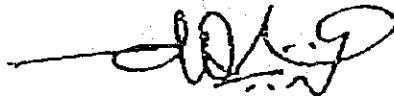
**OPERATION AND MAINTENANCE PLANS FOR BOREHOLES TO BE  
DRILLED IN LAIKIPLA AND THE SURROUNDING AREAS OF SAMBURU,  
KOIBATEK AND BARINGO DISTRICTS UNDER JAPANESE GRANT AID**

Further to the discussions on the above named project during the meeting held this morning Monday, 24<sup>th</sup> August, 1998 in your office between the JICA 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.
- (ii) That for any major breakdown which may include the pump and pipes 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.
- (iii) That the Ministry will continue to monitor and evaluate the operation and 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



S. C. M. OCHIEN'G

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.

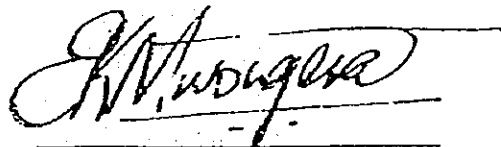
In order to explain and to consult officials of the Government of Kenya on the components of the Draft Report, JICA dispatched to Kenya the Draft Report Explanation Team (hereinafter referred to as "the Team"), which is headed by Ms. Keiko YAMAMOTO, Development Specialist, Institute for International 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. Keiko 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.
- 2) 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.

## 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.



### 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 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.





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.

A handwritten signature in black ink, appearing to be 'J.M.C.', located to the right of the list items.A handwritten mark or signature in black ink, located in the bottom left corner of the page.

## ***5. References***

## 5. References

No.	Name of Documents	Year Issued	Publisher
1	National Development Plan 1997-2001		Ministry of Planning and National Development
2	Welfare Monitoring Survey II / Basic Report	Mar-1996	Ministry of Planning and National Development
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
7	PUBLIC INVESTMENT PROGRAMME 1994/1995-1996/1997	Nov-1993	Ministry of Planning and National Development
8	An Annotated Bibliography on Water Supply and Sanitation , Kenya		Network for Water and Sanitation International
9	Water Supply & Sannitation :a directory of sources of information & documentation in Kenya	-1997	Network for Water and Sanitation International
10	Community Management of Water Supplies Project / Guidelines , Modalities and Selection Criteria for Handing Over Water Supply Schemes / Volume I	Oct-1997	Ministry of Land Reclamation
11	Community Management of Water Supplies Project / Guidelines , Modalities and Selection Criteria for Handing Over Water Supply Schemes / Volume II	Oct-1997	Ministry of Land Reclamation
12	Water Users Associations Support / Project Document	Dec-1994	Ministry of Land Reclamation
13	Training Manual on Basic Knowledge of Simple Hygienic Measures Borehole Operators Course		KEWI-AMREF-CTZ
14	Training Course on Basic Management for Water Users Associations ( Water Schemes Management Team )	Aug-1998	Ministry of Water Resources
15	Training Course on Basic Management for Water Users Associations ( Management Committes )	Aug-1998	Ministry of Water Resources
16	Refresher Course for Pump/Chemical Attendants at MACHAKOS District	Jan-1998	Ministry of Water Resources
17	Water Users Associations Support Project Training Unit / Report on Training Needs Identification for GOK / WUAS Staff and Water Users Committees	Jun-1997	Ministry of Land Reclamation

No.	Name of Documents	Year Issued	Publisher
18	BARINGO DWDP Workshop	Sep-1995	Ministry of Land Reclamation
19	SAMBURU District Water Development Study 1993-2013/Final Draft	Jul-1990	Ministry of Water Resources
20	SAMBURU District Water Development Study 1993-2013/Part 1/Water Demand and Water Resources	Jul-1990	Ministry of Water Resources
21	SAMBURU District Water Development Study 1993-2013/Part 2/Existing Supply,Technology Options and Costs	Feb-1991	Ministry of Water Resources
22	SAMBURU District Water Development Study 1993-2013/Part 1/Water Demand and Water Resources	Jul-1990	Ministry of Water Resources
23	BARINGO District Water Development Plan / Main Report	Jun-1995	Ministry of Land Reclamation
24	Water Development Plan for LAIKIPIA District,Kenya / Final Report	Aug-1990	Ministry of Water Resources
25	Water Development Plan for LAIKIPIA District,Kenya / Appendices	Aug-1990	Ministry of Water Resources
26	Water Resources Information	Dec-1997	Ministry of Land Reclamation
27	Geological Map of Kenya		Ministry of Energy and Regional Developmnet
28	LAIKIPIA District Inventory Report	Mar-1985	LAIKIPIA District Water Office
29	Existing Boreholes in LAIKIPIA District		LAIKIPIA District Water Office
30	Water Analysis Report	Dec-1995	Ministry of Water Resources
31	Summary of Data from the Ministry of Water Development's Borehole Completion Record Forms for BARINGO District		BARINGO District Water Office
32	Kijito Windpump Evaluation for the Overseas Development Administration	Mar-1989	IT Power Ltd
33	Kijito Windpump Monitoring Programme / Main Report	May-1988	IT Power Ltd
34	Wind Energy Development in Kenya / Executive Summary	Nov-1982	Ministry of Energy
35	Wind Energy Development in Kenya / Main Report,Volume I:Past and Present Wind Energy Activities	Nov-1982	Ministry of Energy
36	Wind Energy Development in Kenya / Main Report,Volume III:End Use Analysis	Nov-1982	Ministry of Energy







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