

## 添付資料2 回収済アンケート調査票

1. ジンバブエ共和国 地方電気通信網整備計画（フィージビリティ調査）
2. ジンバブエ共和国 インテルサット標準A地球局建設計画（フィージビリティ調査）
3. ジンバブエ共和国 マシング州中規模灌漑計画（フィージビリティ調査）
4. ジンバブエ共和国 ニヤコンバ地方灌漑計画（フィージビリティ調査）
5. ケニア共和国 ビクトリア湖周辺地域総合開発計画（マスタープラン調査）
6. ケニア共和国 ムエア地区灌漑開発計画（フィージビリティ調査）
7. ケニア共和国 マレワダム建設計画（フィージビリティ調査）
8. ケニア共和国 ナイロビバイパス建設計画（フィージビリティ調査／詳細設計）
9. ケニア共和国 全国水資源開発計画（マスタープラン調査）
10. ケニア共和国 南部地区国土基本図作成（地図作成）

1. ジンバブエ共和国 地方電気通信網整備計画  
(フィージビリティ調査)

QUESTIONNAIRE B - 2

(1) Please state steps and actions which are being taken (or have been taken) to facilitate the implementation of the project/program proposed by the said JICA development study.

(a) About preparations to conduct a detailed design (requests for external assistance, preparation of contract documents, etc.) NIL

(b) About preparations to secure finance (negotiations with possible donors, budget appropriations, etc.) - P.T.C. to request Grant Aid from Japan

(c) About preparations to start the implementation / construction (preparation of tender documents, etc.) - NIL

(2) Please state major reasons / factors which call for and/or facilitate the realization of the proposed project/program, referring to the (national /sectoral /regional) policy framework of priority and strategy, socio-economic impacts, etc.

To stimulate economic activities and improve living standards in rural areas. To expand telecommunication services to Growth Points/District Service Centres designated by the Ministry of Local Government based on the National Development Plan.

(3) Concerning the said development study, please put an X mark in the applicable bracket below.

- i) Study Period ( ) too long (X) appropriate ( ) too short  
ii) Technology Transfer ( ) very useful (X) useful ( ) useless

a) What kind of technology transfer did you receive during the study period, and how have you benefited from it?

- (X) On-the-job training (X) One through the preparation of the study report  
(X) Training in Japan ( ) Instructions for equipment or materials donated upon  
( ) Special seminars/lectures the completion of the study

Methods used by JICA to determine study areas are now being used for establishing priorities for expansion in all exchange areas of Zimbabwe.

b) Please state any comments and /or suggestions on possible improvement of JICA Development Studies.

Solutions arrived at as the result of a Study should give all options considered and the reason for their rejection.

2. ジンバブエ共和国 インテルサット標準A地球局建設計画  
(フィージビリティ調査)

QUESTIONNAIRE B - 1

(1) Please state steps and actions which were (or are being) taken leading to the implementation of the project/program proposed by the said JICA development study.

(a) Of the detailed design (specify the particular stage/component, if more than one)

Period of implementation: from <sup>1982</sup> November to December 1982  
Undertaken by: JICA - Mr H. Sigobe  
Financed by: Government of Japan

Period of implementation: from N/A to  
Undertaken by:  
Financed by:

The project design /components of the JICA study were (or will be) changed regarding :

for the reason (s) that :

regarding :

for the reason (s) that : N/A

regarding :

for the reason (s) that :

(b) Of the finance (specify the particular stage/component)

Source (s) : The Overseas Economic Cooperation Fund (OECF)  
Amount : Yen 2 536 000 000  
Pledged, or Approved in : April of 1984

Source (s) : N/A  
Amount :  
Pledged, or Approved in : of 19

Source (s) : N/A  
Amount :  
Pledged, or Approved in : of 19

(c) Of the Implementation/construction (specify the particular stage/component)

Began (or scheduled to begin) in : June of 1984  
Ended (or scheduled to end) in : August of 1985  
Investment costs at :  
foreign currency at : Yen 1 898 992 000  
local currency at : Z\$ 2 127 600

Form II  
 (feasibility studies, detailed design studies)

Began (or scheduled to begin) in : \_\_\_\_\_ of 19\_\_\_\_  
 Ended (or scheduled to end) in : \_\_\_\_\_ of 19\_\_\_\_  
 Investment costs at : \_\_\_\_\_  
 foreign currency at : \_\_\_\_\_  
 local currency at : \_\_\_\_\_

Began (or scheduled to begin) in : \_\_\_\_\_ of 19\_\_\_\_  
 Ended (or scheduled to end) in : \_\_\_\_\_ of 19\_\_\_\_  
 Investment costs at : \_\_\_\_\_  
 foreign currency at : \_\_\_\_\_ N/A  
 local currency at : \_\_\_\_\_

Total investment costs at : \_\_\_\_\_  
 foreign currency at : \_\_\_\_\_  
 local currency at : \_\_\_\_\_

(2) Please state major reasons / factors which contributed to the realization of the proposed project/program, referring to the (national/sectoral/regional) policy framework of priority and strategy, socio-economic impacts, etc.

- o Political - Independence from South Africa from a telecommunications perspective
- o Financial - Project analysis shows high IRR, i.e. very viable project.
- o Economic - Savings in international transit charges and a spur to international traffic growth.
- o Social - Catalyst for the general economic development in Zimbabwe.

(3) Concerning the said development study, please put an X mark in the applicable bracket below.

- i) Study Period ( ) too long (X) appropriate ( ) too short  
 ii) Technology Transfer (X) very useful ( ) useful ( ) useless

a) What kind of technology transfer did you receive during the study period, and how have you benefited from it?

- (X) On-the-job training ( ) One through the preparation of the study report  
 (X) Training in Japan (X) Instructions for equipment or materials donated upon  
 ( ) Special seminars/lectures the completion of the study

- (a) Availability of Frequency Co-ordination Data
- (b) Calculation of Skyline Profiles
- (c) Training courses in Japan on Advanced Satellite Communications.

b) Please state any comments and /or suggestions on possible improvement of JICA Development Studies.

OUTGOING TELEPHONE TRAFFIC

COUNTRY	ROUTE	1990	1991	1992	1993
ANGOLA	ITALY	3			19
	UK	3243	893	553	733
	PORTUGAL	29556	33046	49372	62241
	TOTAL	32802	33939	49925	62993
AUSTRALIA	DIRECT	491619	622828	534256	369672
	UK	27766	30835	20864	17258
	AUSTRIA	257			
	ITALY	41	215		
	TOTAL	519683	653878	555120	386930
HONG KONG	ITALY	5327	855	76	2178
	UK	36176	50372	54593	15923
	TOTAL	41503	51227	54669	18101
INDIA	ITALY	6100	1942	201	10022
	UK	179365	199004	213258	97723
	TOTAL	185465	200946	213459	107745
JAPAN	ITALY	4055	1575	315	4572
	UK	67611	116002	163396	40352
	TOTAL	71666	117577	163711	44924
NEW ZEALAND	ITALY	878	756	83	2056
	UK	46150	57996	53083	19141
	TOTAL	47028	58752	53166	21197
NIGERIA	ITALY	67	38	11958	5338
	UK	41088	51070	38010	12109
	TOTAL	41155	51108	49968	17447
SINGAPORE	ITALY	1242	648	66	997
	UK	17520	34016	30266	6458
	TOTAL	18762	34664	30332	7455

NB: 1993 FIGURES ARE FROM JAN TO NOV ONLY

QUESTIONNAIRE B - 1

(1) Please state steps and actions which were (or are being) taken leading to the implementation of the project/program proposed by the said JICA development study.

(a) Of the detailed design (specify the particular stage/component, if more than one)

Period of Implementation: from November <sup>1982</sup> to December 1982  
Undertaken by: JICA - Mr H. Sigobe  
Financed by: Government of Japan

Period of Implementation: from N/A to  
Undertaken by:  
Financed by:

The project design /components of the JICA study were (or will be) changed regarding :

for the reason (s) that :

regarding : N/A

for the reason (s) that :

regarding :

for the reason (s) that :

(b) Of the finance (specify the particular stage/component)

Source (s) : The Exim Bank of Japan  
Amount : Yen 935,048,000  
Pledged, or Approved in : Nov. of 19 92

Source (s) : Sumitomo  
Amount : Yen 165,009,000  
Pledged, or Approved in : Nov. of 19 92

Source (s) : N/A  
Amount :  
Pledged, or Approved in : of 19

(c) Of the implementation/construction (specify the particular stage/component)

Began (or scheduled to begin) in : May of 19 93

Ended (or scheduled to end) in : August of 19 94

Investment costs at :  
foreign currency at : Yen 1,099,669,000  
local currency at : Z\$ 1,056,956



Form B  
(feasibility studies, detailed design studies)

Began (or scheduled to begin) in : \_\_\_\_\_ of 19 \_\_\_\_\_

Ended (or scheduled to end) in : \_\_\_\_\_ of 19 \_\_\_\_\_

Investment costs at : \_\_\_\_\_

foreign currency at : \_\_\_\_\_

local currency at : \_\_\_\_\_

Began (or scheduled to begin) in : \_\_\_\_\_ of 19 \_\_\_\_\_

Ended (or scheduled to end) in : \_\_\_\_\_ of 19 \_\_\_\_\_

Investment costs at : \_\_\_\_\_

foreign currency at : \_\_\_\_\_ N/A

local currency at : \_\_\_\_\_

Total investment costs at : \_\_\_\_\_

foreign currency at : \_\_\_\_\_

local currency at : \_\_\_\_\_

(2) Please state major reasons / factors which contributed to the realization of the proposed project/program, referring to the (national/sectoral/regional) policy framework of priority and strategy, socio-economic impacts, etc.

- o Economic - Savings in the transiting charges of international traffic to IOR, countries, since traffic will be direct. The tariff rates for digital carriers is much less.
- o Financial - Project is very viable and will have very negligible recurring cost.

(3) Concerning the said development study, please put an X mark in the applicable bracket below.

i) Study Period ( ) too long (X) appropriate ( ) too short

ii) Technology Transfer (X) very useful ( ) useful ( ) useless

a) What kind of technology transfer did you receive during the study period, and how have you benefited from it?

(X) On-the-job training

( ) One through the preparation of the study report

(X) Training in Japan

(X) Instructions for equipment or materials donated upon

( ) Special seminars/lectures

the completion of the study

(a) Availability of Frequency Co-ordination Data

(b) Calculation of Skyline Profiles

(c) Training Courses in Japan on Advanced Satellite Communications.

b) Please state any comments and /or suggestions on possible improvement of JICA Development Studies.

3. ジンバブエ共和国 マシング州中規模灌漑計画  
(フィージビリティー調査)

Form B  
(feasibility studies, detailed design studies)

SS 4556

8/17

SOURCE: M.O. Agric.  
Dept. Water Dev't  
22 Feb. 1994

QUESTIONNAIRE B - 1

(1) Please state steps and actions which were (or are being) taken leading to the implementation of the project/program proposed by the said JICA development study.

(a) Of the detailed design (specify the particular stage/component, if more than one)

Period of implementation: from 12/1989 to 12/1991 *Phase I*  
Undertaken by: SANYU CONSULTANTS  
Financed by: JICA

Period of implementation: from JULY 1990 to JAN 1991 *Phase II*  
Undertaken by: SANYU CONSULTANT  
Financed by: JICA

The project design /components of the JICA study were (or will be) changed regarding: NOT CHANGED

for the reason (s) that: \_\_\_\_\_

regarding: N/A

for the reason (s) that: \_\_\_\_\_

regarding: N/A

for the reason (s) that: \_\_\_\_\_

(b) Of the finance (specify the particular stage/component)

Source (s): JICA *Phase I*  
Amount: ¥ 1,251,000,000  
Pledged, or Approved in: 14/10/1989

Source (s): JICA *Phase II*  
Amount: ¥ 998,000,000  
Pledged, or Approved in: 10/7/1990

Source (s): \_\_\_\_\_  
Amount: \_\_\_\_\_  
Pledged, or Approved in: \_\_\_\_\_ of 19\_\_

(c) Of the implementation/construction (specify the particular stage/component)

Began (or scheduled to begin) in: 4/12/1989 *Phase I*

Ended (or scheduled to end) in: OCTOBER 1990

Investment costs at:  
foreign currency at: ¥ 1,251,000,000  
local currency at: NIL

Form B  
(feasibility studies, detailed design studies)

QUESTIONNAIRE B - 1

(1) Please state steps and actions which were (or are being) taken leading to the implementation of the project/program proposed by the said JICA development study.

(a) Of the detailed design (specify the particular stage/component, if more than one)

Period of implementation: from 29/07/91 to <sup>JAN</sup> 31/3/92 PHASE III  
Undertaken by: SANYU CONSULTANTS  
Financed by: JICA

Period of implementation: from 9/07/92 to <sup>Dec</sup> 31/3/93 PHASE IV  
Undertaken by: SANYU CONSULTANTS  
Financed by: JICA

The project design /components of the JICA study were (or will be) changed regarding: NOT CHANGED

for the reason (s) that:

regarding: N/A

for the reason (s) that:

regarding: N/A

for the reason (s) that:

(b) Of the finance (specify the particular stage/component)

Source (s): JICA PHASE III  
Amount: ¥ 536 000 000  
Pledged, or Approved in: 29/07/1991 16/07/91

Source (s): JICA PHASE IV  
Amount: ¥ 985 000 000  
Pledged, or Approved in: 9/07/ of 1992

Source (s): JICA PHASE V  
Amount: ¥ 665 000 000  
Pledged, or Approved in: 27/07/ of 1993

(c) Of the implementation/construction (specify the particular stage/component)

Began (or scheduled to begin) in: APRIL of 1992  
Ended (or scheduled to end) in: MARCH of 1993. PHASE III

Investment costs at: ¥ 536 000 000  
foreign currency at: ¥ 665 000 000 + \$450 000  
local currency at: ¥ 536 000 000 2 000 450 000

Form B  
(feasibility studies, detailed design studies)

Began (or scheduled to begin) in: JANUARY of 1991 Phase II  
Ended (or scheduled to end) in: MARCH of 1992  
Investment costs at: ¥998 000 000 + ZWD 3200000  
foreign currency at: ¥998 000 000  
local currency at: ZWD 3 200 000

Began (or scheduled to begin) in: \_\_\_\_\_ of 19\_\_\_\_  
Ended (or scheduled to end) in: \_\_\_\_\_ of 19\_\_\_\_  
Investment costs at: \_\_\_\_\_  
foreign currency at: \_\_\_\_\_  
local currency at: \_\_\_\_\_

Total investment costs at: ¥998 000 000 + ZWD 3 200 000  
foreign currency at: ¥998 000 000  
local currency at: ZWD 3 200 000

(2) Please state major reasons / factors which contributed to the realization of the proposed project/program, referring to the (national/sectoral/regional) policy framework of priority and strategy, socio-economic impacts, etc.

MASVINGO IS VERY DRY PROVINCE SO THAT PRIORITY IS GIVEN TO THE DEVELOPMENT OF WATER RESOURCES SUCH AS CONSTRUCTION OF DAMS.

(3) Concerning the said development study, please put an X mark in the applicable bracket below.

- i) Study Period      ( ) too long      (X) appropriate      ( ) too short
- ii) Technology Transfer      ( ) very useful      (X) useful      ( ) useless

a) What kind of technology transfer did you receive during the study period, and how have you benefited from it?

- ( ) On-the-job training
- (X) Training in Japan
- ( ) Special seminars/lectures
- ( ) One through the preparation of the study report
- ( ) Instructions for equipment or materials donated upon the completion of the study

2 Engineers for approximately 3 months  
2 Mechanics for approximately 1 month

b) Please state any comments and /or suggestions on possible improvement of JICA Development Studies.

TAKE JUNIOR STAFF TO BE TRAINED ON THE JOB DURING THE STUDY PERIOD. (~~DESIGN~~ AND ~~FEASIBILITY~~ INVESTIGATION, ~~FEASIBILITY~~ DESIGN PHASE)

Form D  
(feasibility studies, detailed design studies)

Began (or scheduled to begin) in: April of 1993 Phase IV  
Ended (or scheduled to end) in: December of 1993  
Investment costs at: 4985 000 000 + ZWD 1000000  
foreign currency at: 4985 000 000  
local currency at: ZWD 1 000 000

Began (or scheduled to begin) in: January of 1994 Phase V  
Ended (or scheduled to end) in: January of 1995  
Investment costs at: \_\_\_\_\_  
foreign currency at: 2665 000 000  
local currency at: ZWD 5 00 000

Total investment costs at: \_\_\_\_\_  
foreign currency at: \_\_\_\_\_  
local currency at: \_\_\_\_\_

(2) Please state major reasons / factors which contributed to the realization of the proposed project/program, referring to the (national/sectoral/regional) policy framework of priority and strategy, socio-economic impacts, etc.

MASINGO IS A VERY DRY PROVINCE SO THAT PRIORITY IS GIVEN TO THE DEVELOPMENT OF WATER RESOURCES SUCH AS CONSTRUCTION OF DAMS.

(3) Concerning the said development study, please put an X mark in the applicable bracket below.

- i) Study Period ( ) too long (X) appropriate ( ) too short
- ii) Technology Transfer ( ) very useful (X) useful ( ) useless

a) What kind of technology transfer did you receive during the study period, and how have you benefited from it?

- ( ) On-the-job training
- (X) Training in Japan
- ( ) Special seminars/lectures
- ( ) One through the preparation of the study report
- ( ) Instructions for equipment or materials donated upon the completion of the study

b) Please state any comments and /or suggestions on possible improvement of JICA Development Studies.

TAKE JUNIOR STAFF TO BE TRAINED ON THE JOB DURING THE STUDY PERIOD. (INVESTIGATION, FEASIBILITY & DESIGN PHASE)



4. ジンバブエ共和国 ニヤコンバ地方灌漑計画  
(フィージビリティ調査)



Form B  
(feasibility studies, detailed design studies)

SOURCE: M.O. Agric  
Dir. Water Devt  
03 Feb 1994

QUESTIONNAIRE B - 2

(1) Please state steps and actions which are being taken (or have been taken) to facilitate the implementation of the project/program proposed by the said JICA development study.

(a) About preparations to conduct a detailed design (requests for external assistance, preparation of contract documents, etc.)

DONE

(b) About preparations to secure finance (negotiations with possible donors, budget appropriations, etc.)

DONE

(c) About preparations to start the implementation / construction (preparation of tender documents, etc.)

DONE

(2) Please state major reasons / factors which call for and/or facilitate the realization of the proposed project/program, referring to the (national /sectoral /regional) policy framework of priority and strategy, socio-economic impacts, etc.

MASUNGO IS VERY DRY PROVINCE SO THAT PRIORITY IS GIVEN TO THE DEVELOPMENT OF WATER RESOURCES SUCH AS DAMS.

(3) Concerning the said development study, please put an X mark in the applicable bracket below.

- i) Study Period      ( ) too long      (X) appropriate      ( ) too short
- ii) Technology Transfer      ( ) very useful      (X) useful      ( ) useless

a) What kind of technology transfer did you receive during the study period, and how have you benefited from it?

- ( ) On-the-job training      ( ) One through the preparation of the study report
- (X) Training in Japan      ( ) Instructions for equipment or materials donated upon the completion of the study
- ( ) Special seminars/lectures

b) Please state any comments and /or suggestions on possible improvement of JICA Development Studies.

TAKE JUNIOR STAFF TO BE TRAINED ON THE JOB DURING THE STUDY PERIOD:  
( INVESTIGATE FEASIBILITY OF DESIGN AND )

REF: H/258/1

MINISTRY OF AGRIC.  
AGRITEC

03 Feb. 1974

FOLLOW-UP STUDY OF COMPLETED JICA DEVELOPMENT STUDY :  
NYAKOMBA IRRIGATION PROJECT

NYAKOMBA IRRIGATION PROJECT

Priority: Top priority. The project has been on top priority for the past three years.

Progress: Request for Japanese Grant-Aid made. Request for construction of power-line to the Scheme made to ZESA.

Changes/Modifications to Original Plans

Nil

Necessity for further Co-operation

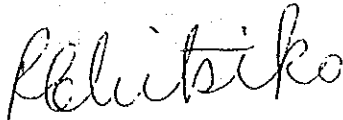
Japanese Grant Aid still needed to implement this very important project. Assistance is also needed for detailed designs and preparation of tender documents. Co-operation is also needed in Construction Supervision, Training opportunities in Japan for our staff on irrigation project planning, Implementation and Management.

QUESTIONNAIRE B- 2

1. (a) Request for funding made to the Government of Japan. Detailed designs and contract documents to be prepared once funding has been secured.
  - (b) Request made to Government of Japan. The project has been included in the government's Public Sector Investment Programme (PSIP).
  - (c) Preparation of Tender Documents and subsequent implementation to come soon after funds are secured.
2. The project has a very high priority since it is situated in a very low rainfall area. Farmers can only be assured of producing their own food by providing irrigation infra-structure. Currently the farmers depend on food hand-outs while a reliable water source flows through this area and there is good land for irrigation. It is government policy to provide irrigation facilities to the very poor in order for them to help themselves.

3. (a) Some of the ideas on engineering and technical options in water supply and irrigation technology are being applied in irrigation projects under study elsewhere.
- (b) JICA Development Study Teams in future to include some local experts.

Compiled by:-



R.J. CHITSIKO (DEPUTY DIRECTOR)

and

E.E. CHIDENGA (Chief Irrigation Officer)  
for: DIRECTOR OF AGRITEX

/st

5. ケニア共和国 ビクトリア湖周辺地域総合開発計画  
(マスタープラン調査)

LBDA DEVELOPMENT BRIEF. ON STUDIES UNDERTAKEN BY JICA

1985 - 1990

Two major development studies have been undertaken by the JICA for LBDA in the recent past years:

1. Integrated Regional Development  
Master Plan : 1985 - 1987
2. Kano Plain Irrigation Project  
1990 - 1990

3.1 The Integrated Regional Development Master plan which was completed over six years ago needs to be updated, and the priority projects identified at the time be advanced to full feasibility studies leading to final implementation:

In this regard, the following projects should be given immediate attention:-

1. Lake Shore Irrigation project.
2. Pig Industry Complex project.
3. Animal Feed Industry project

3.2 The economic growth of LBDA region relies heavily on the enhancement of productivity on the existing farm lands as a first phase, followed by active measure to re-structure the economy. The agricultural growth will increase income levels which will create a growing domestic market and investment opportunities for industrialization. This phase calls for the provision of infrastructure and utilities and the expansion of the region's resource base consisting of development capital, energy and human resources:

This phase will lead to the introduction of new element for development aimed at opening up the international connection and penetration of the interland:

Finally the region must strive to be self sufficient in its food supply, and the above projects will foster this goal.

### 3.3 Lamu Plain Irrigation Project

The implementation, monitoring and control of this project depends mainly on the implementation of the Lamu Plain multipurpose development project. The realization of the integrated development project is dependent on the following:

(a) The availability of funds for the project from the Government of Kenya and the donor community.

(b) The availability of staff and equipment for the project. The Government of Kenya should provide the necessary staff and equipment for the project. The donor community should provide the necessary staff and equipment for the project.

### 4. Conclusions

In order to implement the above projects, the Government of Kenya and the Authority should consider the involvement of the donor community in the project. The donor community should provide the necessary funds and equipment for the project. The Government of Kenya should provide the necessary staff and equipment for the project.

The donor community should also consider the feasibility studies for the project. The Government of Kenya should provide the necessary staff and equipment for the project.

This will also call for donor participation in conjunction with the Government of Kenya. The LPPA is therefore, appealing to JICA to consider the requests - including the updating of the Integrated Regional Development Master Plan.

Projects under Integrated Development Master Plan which have already been implemented are:-

#### Roads:

- Eldoret - Mahuye - Malaba road - A 100
- Kisumu - Keru Bay
- Kisumu - Kericho
- Kisumu - Eldoret Road
- Kisii - Setit
  
- Eldoret municipality water supply
- RTPC - at Sunaba, Kimilili
- Oil pipeline extended to Kisumu and Eldoret
- Transshipment station - inland container depot in Kisumu, Malaba, Truck terminal at Busia.
- Grain storage silos - Kisumu, and Kericho bridge.
- Rural electrification - Vihiga, Nakuru, Busia, Moyale, Kisii and Nyamira districts - on-going.



6. ケニア共和国 ムエア地区灌漑開発計画  
(フィージビリティ調査)



QUESTIONNAIRE B-1

(1) Please state steps and actions which were (or are being) taken leading to the implementation of the project/program proposed by the said JICA development study.

(a) Of the detailed design (specify the particular stage/component, if more than one)

Period of Implementation: from JULY 1989 to FEBRUARY 1990  
Undertaken by: NIPPON KOEI  
Financed by: (GOVERNMENT OF JAPAN)

Period of Implementation: from \_\_\_\_\_ to \_\_\_\_\_  
Undertaken by: \_\_\_\_\_  
Financed by: \_\_\_\_\_

The project design /components of the JICA study were (or will be) changed regarding : \_\_\_\_\_

for the reason (s) that : \_\_\_\_\_

regarding : \_\_\_\_\_

for the reason (s) that : \_\_\_\_\_

regarding : \_\_\_\_\_

for the reason (s) that : \_\_\_\_\_

(b) Of the finance (specify the particular stage/component)

Source (s) : (GOVERNMENT OF JAPAN)  
Amount : YEN 2,754,000,000  
Pledged, or Approved in : of 19

Source (s) : \_\_\_\_\_  
Amount : \_\_\_\_\_  
Pledged, or Approved in : of 19

Source (s) : \_\_\_\_\_  
Amount : \_\_\_\_\_  
Pledged, or Approved in : of 19

(c) Of the implementation/construction (specify the particular stage/component)

Began (or scheduled to begin) in : APRIL of 19 90  
Ended (or scheduled to end) in : APRIL of 19 93  
Investment costs at : March  
foreign currency at : YEN 2,754,000,000  
local currency at : N/A

... studies, data and design studies.

Began (or scheduled to begin) in \_\_\_\_\_ of 19\_\_\_\_  
 Ended (or scheduled to end) in \_\_\_\_\_ of 19\_\_\_\_  
 Investment costs at: \_\_\_\_\_  
 foreign currency at: \_\_\_\_\_  
 local currency at: \_\_\_\_\_

Began (or scheduled to begin) in \_\_\_\_\_ of 19\_\_\_\_  
 Ended (or scheduled to end) in \_\_\_\_\_ of 19\_\_\_\_  
 Investment costs at: \_\_\_\_\_  
 foreign currency at: \_\_\_\_\_  
 local currency at: \_\_\_\_\_

Total investment costs at: YEN 2,754,000,000  
 foreign currency at: YEN 2,754,000,000  
 local currency at: N/A.

(2) Please state major reasons / factors which contributed to the realization of the proposed project/program, referring to the (national/sectoral/regional) policy framework of priority and strategy, socio-economic impacts, etc.

GOVERNMENT'S LONG TERM STRATEGIES SET OUT IN THE  
 SESSIONAL PAPER NO 1 OF 1986 WHICH PUTS A LOT  
 OF EMPHASIS ON DEVELOPMENT OF THE RURAL  
 SECTOR.  
 AGRICULTURAL SECTOR SET TO GROW BY 5% PER  
 ANNUM FOR 1984 - 2000.

(3) Concerning the said development study, please put an X mark in the applicable bracket below.

- I) Study Period            ( ) too long            (X) appropriate            ( ) too short
- II) Technology Transfer    ( ) very useful        (X) useful                ( ) useless

a) What kind of technology transfer did you receive during the study period, and how have you benefited from it?

- ( ) On-the-job training
- (X) Training in Japan
- ( ) Special seminars/lectures
- (X) One through the preparation of the study report
- ( ) Instructions for equipment or materials donated upon the completion of the study

b) Please state any comments and /or suggestions on possible improvement of JICA Development Studies.

■ Supplemental Questionnaire for the Interview to the selected JICA studies

Mwea Irrigation Development Project

(Feasibility Study 1987-'88, Preliminary Design 1989, Grant aid 1989-present)

- Present situation and status of the proposed priority projects.
  - \* JICA Grant aid project for pilot farm and major infrastructure improvement for 8,800ha on existing irrigation area - COMPLETED
  - \* Construction of Water Reservoir and expansion of irrigation area (2,800ha) - PROCESS OF APPOINTMENT OF CONSULTANT
- Progress and effect of the completed project on the grant aid project
- Progress on the water reservoir and irrigation area expansion project
- Any change and/or modification on the proposed plan (planning Criteria, general plan, proposed projects and implementation schedule) NONE
- Necessity of further technical cooperation and financial assistance for the projects of pilot farm and improvement on the existing irrigation area
- Constraints and/or bottlenecks for the implementation of Reservoir and Irrigation Network
  - \* National economic and financial conditions
  - \* International political situation
  - \* Possibility to get multi and by-lateral financial resources
  - \* Possibility of financial arrangement for the project (past and further programs)

7. ケニア共和国 マレワダム建設計画  
(フィージビリティ調査)

QUESTIONNAIRE B - 3

(1) Please describe the circumstances of the delay or suspension in implementing the project/program proposed by the said JICA development study.

(a) About procedures to be followed, i.e. to conduct a detailed design and/or to secure finance (negotiations with possible donors, budget appropriations, etc.)

(b) About major causes / factors which delayed the implementation

e.g.  Changes in development policy / priority / urgency

Problems in the proposed project site

Problems internal to the project/program (design, cost estimates, etc.)

Problems of coordination with other related projects

PROBLEMS ON PROPOSED PROJECT SITE - i.e. LAKE NAKURY  
IN CASE OF MALEWA DAM.

(2) Please state the possibility of, and the requirements for, facilitating the implementation of the proposed project/program.

(3) Concerning the said development study, please put an X mark in the applicable bracket below.

I) Study Period ( ) too long (X) appropriate ( ) too short

II) Technology Transfer (X) very useful ( ) useful ( ) useless

a) What kind of technology transfer did you receive during the study period, and how have you benefited from it?

( ) On-the-job training

( ) One through the preparation of the study report

(X) Training in Japan

( ) Instructions for equipment or materials donated upon

(X) Special seminars/lectures

the completion of the study

b) Please state any comments and /or suggestions on possible improvement of JICA Development Studies.

JICA ... should have some local people attached to the study team either from the Client Ministry or from local firms.

SS 959 2/21

- Financial arrangement for the project-implementation (past expenditure, further programs and problems)

Apart from the Feasibility study by IICA, there has been no further financial arrangement for implementation

- Necessity of review, up-dating and/or further studies for the project of Kafemba Dam.

STUDY OF LAKE NAICURU BASIN  
REQUIRED

2) Study on Construction of Dam In Malewa River System for Greater Nakuru Water Supply Project (Feasibility Study 1990)

- Present situation and status of the proposed projects (Present situation and status of related water treatment project)

*NO progress*

- Progress of the project after JICA feasibility study

*NONE*

- Any change and/or modification of the proposed plan (design, design standards, general plan, proposed projects and implementation schedule)

*NO*

- Constraints and/or bottlenecks for the project implementation

✓ Density and sensitivity of the natural resources, ecology and environment on Nakuru lake

✓ Activities of NGO for natural environment conservation related to the project

*Ecological/environmental repercussions on lake Nakuru led to suspension of the project.*

8. ケニア共和国 ナイロビバイパス建設計画  
(フィージビリティ調査／詳細設計)



■ Supplemental Questionnaire for the Interview relate to the Project

- Present situation and status of the proposed projects

\* Priority of the project

High priority

- Progress of the project after JICA Detailed Design study(1992)

In June 1993, GOK applied for finance from the Japanese Government for construction of the road.  
- Any change and/or modification of the proposed plan (general network plan with junctions and related roads, design, design standards, implementation schedule, etc.)

No change.

- Present road and traffic conditions in Nairobi and its surroundings

\* Number of vehicle, traffic generation, mode of traffic, traffic volume, traffic congestion, etc.

This is as per assumptions in the feasibility study report

- Constraints and/or bottlenecks for the project implementation

\* Density and sensitivity of the natural resources, ecology and environment along the proposed road alignment

\* Activities of NGO for natural environment conservation related to the project

\* Planned alternative road alignment (Possibility to accept)

An NGO wants to fence off Ngong forest from the road once the road reserve is marked.

- Financial arrangement for the project implementation (past expenditure, further programs(OECF lone and other) and problems)

As above GOK has applied for finance from Japanese Government.

- Necessity of further studies relate to the project

None.

QUESTIONNAIRE B - 1

(1) Please state steps and actions which were (or are being) taken leading to the implementation of the project/program proposed by the said JICA development study.

(a) Of the detailed design (specify the particular stage/component, if more than one)

Period of implementation: from 1987 to 1990  
Undertaken by: JICA Study Team  
Financed by: JICA

} Feasibility Study

Period of implementation: from 1990 to August 1992  
Undertaken by: JICA Study Team  
Financed by: JICA

} Detailed Design

The project design /components of the JICA study were (or will be) changed regarding : \_\_\_\_\_

for the reason (s) that : \_\_\_\_\_

regarding : \_\_\_\_\_

for the reason (s) that : \_\_\_\_\_

regarding : \_\_\_\_\_

for the reason (s) that : \_\_\_\_\_

} No change is expected

(b) Of the finance (specify the particular stage/component)

Source (s) : \_\_\_\_\_

Amount : \_\_\_\_\_

Pledged, or Approved in : \_\_\_\_\_ of 19 \_\_\_\_\_

Source (s) : \_\_\_\_\_

Amount : \_\_\_\_\_

Pledged, or Approved in : \_\_\_\_\_ of 19 \_\_\_\_\_

Source (s) : \_\_\_\_\_

Amount : \_\_\_\_\_

Pledged, or Approved in : \_\_\_\_\_ of 19 \_\_\_\_\_

} No response has been received on financing.

(c) Of the implementation/construction (specify the particular stage/component)

Began (or scheduled to begin) in : JUNE of 1994

Ended (or scheduled to end) in : November of 1996

Investment costs at : Kshs. 1.64 Billion (1992 Estimates)

foreign currency at : Kshs. 868,400,000

local currency at : Kshs. 635,600,000 + VAT Kshs. 130,430,000

Form B  
(feasibility studies, detailed design studies)

Began (or scheduled to begin) in : \_\_\_\_\_ of 19\_\_\_\_\_  
Ended (or scheduled to end) in : \_\_\_\_\_ of 19\_\_\_\_\_

Investment costs at : \_\_\_\_\_  
foreign currency at : \_\_\_\_\_  
local currency at : \_\_\_\_\_

Began (or scheduled to begin) in : \_\_\_\_\_ of 19\_\_\_\_\_  
Ended (or scheduled to end) in : \_\_\_\_\_ of 19\_\_\_\_\_

Investment costs at : \_\_\_\_\_  
foreign currency at : \_\_\_\_\_  
local currency at : \_\_\_\_\_

Total investment costs at : \_\_\_\_\_  
foreign currency at : \_\_\_\_\_  
local currency at : \_\_\_\_\_

(2) Please state major reasons / factors which contributed to the realization of the proposed project/program, referring to the (national/sectoral/regional) policy framework of priority and strategy, socio-economic impacts, etc.

- ① Traffic Congestion in Nairobi
- ② Need to give through traffic easy passage through Nairobi
- ③ Time and cost savings through ② above

(3) Concerning the said development study, please put an X mark in the applicable bracket below.

- i) Study Period                      ( ) too long      (X) appropriate      ( ) too short  
ii) Technology Transfer              ( ) very useful    (X) useful              ( ) useless

a) What kind of technology transfer did you receive during the study period, and how have you benefited from it?

- (X) On-the-job training                      (X) One through the preparation of the study report  
(X) Training in Japan                          ( ) Instructions for equipment or materials donated upon  
( ) Special seminars/lectures                the completion of the study

b) Please state any comments and /or suggestions on possible improvement of JICA Development Studies.

- ① Studies, design and documentation should be done locally so as to enhance transfer of knowhow.
- ② Local Staff should be given more short courses to Japan to increase technology transfer.
- ③ Seconding Engineers to Japanese firms carrying in Japan (Senior Engineer)

9. ケニア共和国 全国水資源開発計画  
(マスタープラン調査)

QUESTIONNAIRE A - 2

(1) Concerning the plans / programs / recommendations proposed by the said development study, please give major reasons why no subsequent steps or actions have been taken to date.

Steps have been made to implement the recommendations proposed under the study but the major problem has been the lack of funding. Relevant agencies are using the documents in their planning activities

Or,

(1) Concerning the outputs (e.g. maps, basic data, guidelines, etc.) of the said development study, please give major reasons why they have not been utilized to date for some development purposes.

These are being used and will continue to be used for development and also for reference.

(2) Concerning the said development study, please put an X mark in the applicable bracket below.

i) Study Period ( ) too long (X) appropriate ( ) too short

ii) Technology Transfer ( ) very useful ( ) useful ( ) useless

↳ This was not successful and improvements are necessary  
a) What kind of technology transfer did you receive during the study period, and how have you benefited from it?

(X) On-the-job training

( ) One through the preparation of the study report

(X) Training in Japan

( ) Instructions for equipment or materials donated upon the completion of the study

( ) Special seminars/lectures

The Study Team more or less did their work alone and only produced reports for comments. The local Staff was therefore not actually involved in carrying out the study.

b) Are there any comments or suggestions on ways to facilitate the utilization of the plans / programs / recommendations, or of the outputs, of the said development study?

Under the Kenya / Japan Technical cooperation follow up of the study could be made as one of the tasks of the JICA Experts attached to the Ministry.

c) Please state any other comments and /or suggestions on possible improvement of JICA Development Studies.

Involvement of the local Staff more in the actual carrying out the studies. It should therefore have a stronger local Staff participation to ensure the building up of technical capacity within the Ministry -92-

■ Supplemental Questionnaire for the Interview to the selected JICA studies

1) The Study on the National Water Master Plan (Master Plan Study 1992)

- Present situation and status of the proposed priority projects.
  - Urban(150) and rural water supply projects
  - Urban(150) sewage water treatment projects
  - Major(18) and small scale(140) irrigation projects
  - Livestock and wildlife conservation
  - Feasible hydro power stations(8) projects
  - River and flood control(5), urban stormwater drainage(47) projects

FUNDS BEING SOUGHT FROM DONORS TO IMPLEMENT THE PROJECTS.
- Progress on the proposed project after the Master Plan study.
  - Compare with the proposed further study required  
STUDIES FOR INDIVIDUAL PROJECTS REQUIRED
- Any change and/or modification of the proposed plan (planning Criteria, general plan, proposed projects and Implementation schedule)
 

NO NE
- Present conditions and effect of the completed project
 

EFFECTS HAVE BEEN HIGHLY BENEFICIAL TO THE WELFARE OF KENYA
- Financial arrangement for the project implementation (past expenditure, further programs and problems)
- Necessity of further studies for the realization of the proposed master plan and projects
 

THESE ARE REQUIRED FOR REALIZATION OF MASTER PLAN



10. ケニア共和国 南部地区国土基本図作成  
(地図作成)



TOPOGRAPHICAL MAPPING IN SOUTH KENYA - SCALE 1:50,000

NO	SHEET NO	TOTAL MAPS RECEIVED	TOTAL MAPS SOLD	TO WHOM AND FOR WHAT PROJECTS	UNSOLD MAPS	REMARKS
1	188/2	1,000	70	Various Organization: Main Usage :  (1) Planning (2) Research (3) Education (4) Water Permits	930	
2	188/4	1,000	75		925	
3	189/1	1,000	82		918	
4	189/2	1,000	338		662	
5	189/3	1,000	80		920	
6	189/4	1,000	212		788	
7	190/1	1,000	170		830	
8	190/2	1,000	61		939	
9	190/3	1,000	193		807	
10	190/4	1,000	63		937	
11	191/1	1,000	58		942	
12	191/2	1,000	87		913	
13	191/3	1,000	56		944	
14	191/4	1,000	58		942	
15	192/1	1,000	57		943	
16	192/2	1,000	331		669	
17	192/3	1,000	168		832	
18	192/4	1,000	337		663	
19	193/1	1,000	346		654	
20	193/3	1,000	306		694	
21	195/1	1,000	323		677	
22	195/2	1,000	318		682	
23	196/1	1,000	313		687	

NO	SHEET NO	TOTAL MAPS RECEIVED	TOTAL MAPS SOLD	TO WHOM AND FOR WHAT PROJECTS	UNSOLD MAPS	REMARKS
24	196/1	1,000	326	Various Organization: Main Usage :	674	
25	196/2	1,000	327		673	
26	196/3	1,000	329		671	
27	196/4	1,000	348		652	
28	197/1	1,000	314	(1) Planning (2) Research (3) Education (4) Water Permits	686	
29	197/2	1,000	315		685	
30	197/3	1,000	620		380	
31	197/4	1,000	434		566	
32	198/1	1,000	324	West Mombasa	675	
33	198/2	1,000	556		444	
34	198/3	1,000	466		534	
35	198/4	1,000	131		869	
36	199/2	1,000	324		676	
37	200/1	1,000	333		667	
38	200/2	1,000	365		635	
39	200/3	1,000	340		660	
40	200/4	1,000	849	South Mombasa	151	
41	201/1	1,000	368	Si	682	
42	201/3	1,000	350		650	
43	202/2	1,000	338		662	

TOTAL

11,860

31,140

  
**J.C. Ragunya**  
**BULK MAP STORE**

8th February, 1994



### 添付資料ー3 ジンバブエ国現地委託フォローアップ調査結果

国立ジンバブエ大学コンピューターサイエンス科講師のMr. Yasuhiro CHIBAに対し、現地サイドからみた各案件の効果発現状況の調査を、以下の4案件について委託した。

- ・マシング州中規模かんがい計画
- ・ニヤコンバ地方灌漑計画
- ・インテルサット標準A地球局建設計画
- ・地方電気通信網整備計画

以下に、英文報告書の概要を整理する。

#### (1) マシング州中規模かんがい計画

1) 目的：本案件は、コミユナルランドにおける黒人居住者の生活スタンダードの向上を図るため、年間降水量が450mm以下の地域を対象に、灌漑施設の整備を推進することを目指している。

2) 背景：本案件のF/S調査は、JICAにより1986年6月にはじめられ、1987年3月に最終報告書が取りまとめられた。調査で提案された、以下の5期にわたる事業の進捗を整理する。

第1期：建設資機材の供与（12.51億円）－ 1990年完了

第2期：ムサベレマ（灌漑面積44ha）・マグドウ（灌漑面積70ha）2地区のダム建設と関連施設整備（9.98億円）－ 1991年完了

第3期：チニヤマツムワ（灌漑面積50ha）地区のダム建設と関連施設整備（5.36億円）－ 1992年完了

第4期：マショコ（灌漑面積21ha）・マプテ（灌漑面積100ha）2地区のダム建設と関連施設整備（9.85億円）－ 1994年2月現在建設中

第5期：ムンジャンガンジャ（灌漑面積51ha）地区のダム建設と関連施設整備（6.65億円）－1994年2月現在建設中

#### 3) 計画目標の実現に対し寄与した要因

当初計画にそった提案事業の実現化、調査団とジ側関係者間の密接な協力関係の構築、ジ側担当機関への技術移転が進められ、なんらの問題もなく調査・事業の実施が進んでいる。

第1期で供与された十分な建設用資機材により順調に事業が進んでいる。

Critical Path Method(CPM)が本事業に導入され、順調に建設が進んでいる。

#### 4) 提言

・F/S調査完了から事業実施までの期間の短縮

・アグリテックでは、灌漑事業への今後のJICA協力の可能性を打診している。

また、灌漑計画・設計、アグロノミストの日本での研修を要請している。

・現地調査・踏査時には、カウンターパート（エンジニア/技師）を同行させ

ることにより、技術移転がよりの確に進む。

- ・日本の人件費が高い上に、ジンバブエのスタンダードと異なる基準が用いられ、ダム建設費が高くなっている。今後は、地元の基準について検討を行い、建設コストの低減と共に、基準の適用などについての技術移転を進めることが望まれる。

## (2) ニヤコンバ地方灌漑計画

本案件は、乾燥地のコミユナルランドにおける小規模共同営農方法を商業営農方式に変換するための最初の灌漑モデル事業である。

F/S調査の報告書が1990年に取りまとめられ、US\$15,776,000の事業が提案された。これを受け、ジンバブエ政府は、1990年に無償資金協力を日本政府に要請し、資金協力の実現化を待っている。

今後は、次のような観点から協力が望まれている。

- ・日本の専門的な灌漑に対する意見と技術のバックアップ
- ・水源からの揚水用ポンプのための電源は、電力公社（ZESA）の幹線配電網が整備されるまでの期間、ディーゼル発電機の導入で代替することを提案している。また、発電機は、今後のコミユナルランドにおける灌漑整備に、順次、移転・活用でき、有効な対応策として無償資金援助の一環とすることを期待している。
- ・建設用資機材の適切な調達
- ・建設作業計画へのCPMの導入
- ・ニヤコンバ地方は乾燥状態が激しく、その他の乾燥コミユナルランドの灌漑プロジェクトのモデル事業として寄与することが期待される。
- ・アグリテックでは、灌漑事業への今後のJICA協力の可能性の打診と灌漑計画・設計、アグロノミストの日本での研修を要請している。
- ・次の干魃が来る前に、無償資金協力による本案件の実現化が期待されている。

## (3) インテルサット標準A地球局建設計画

調査において提案された3期にわたる事業の進捗状況を以下に示す。

第1期：大西洋地域（A.O.R.）地球局及び関連ネットワーク整備

- ・A.O.R.地球局の設備一式：高出力増幅機、低雑音増幅機、地上通信設備サブシステム、アンテナサブシステム、給電サブシステム、MUXサブシステム。
  - ・ハラレ中央交換局：地上マイクロ波リンク・システム、インターフェース、MUX機器及びテレビ調整・受像機器。
  - ・局舎、アンテナ基礎舎、マイクロ波通信用アンテナ鉄塔等の施設
- 本地上局の建設は、OECDより円借款を受け、予定どおり1985年に完了し、英国・アメリカ合衆国・フランス・ドイツ・ギリシャ・ベルギー・イタリア・マラウイ・ナイジェリア・レソト・スイスとの国際通信をカバーしている。

## 第2期：インド洋地域（I.O.R.）地球局及び関連施設

- ・基本的にA.O.R.地球局と同様のサブシステムのセットを整備すると共に、既存の局舎等の拡張事業を含む。
- ・本地上局は、1989年の開局が計画されたが、日本輸出入銀行の資金協力により1994年内に竣工・供用を開始し、日本・オーストラリア・ニュージーランド・ホンコン・パキスタン・アラブ首長国連邦・ケニア・タンザニアとの国際通信をカバーすることを予定している。

## 第3期：市外電話交換設備・施設

- ・ハラレ：Trunk & Junction Tandem交換機（6,300端子、交換台20座席）  
OECSFよりの円借款が1989年11月に承認され、現在、80%の事業実施状況にある。
- ・ブラワヨ：Trunk交換機（2,100端子、交換台2座席）  
OECSFよりの円借款が1993年6月に承認され、近々に事業が開始される状況にある。

## 1) 計画目標の実現に対し寄与した要因

- ・本調査では、1980年4月のジンバブエ独立後、国際通信の南ア依存体制からの早期における変換の重要性が上げられ、新たなジンバブエの国際通信体制の確立のため、衛星通信が提案された。  
また、経済・財務評価においても、FIRRが21.62%と高い財務上の妥当性が推計された。同時に、増大する国際通信需要に対し、既存の国際通信幹線の利用を衛星通信に置き換えることにより、営業利益の増加が見込まれた。
- ・A.O.R.及びI.O.R.地上局の適地の選定は、電波障害の頻度の観点やハラレからのアクセス性にも優れている、マゾエ地区が選定された。
- ・A.O.R.地上局では、有効で優れた技術協力をJICA専門家より受けることが出来た。また、4名の地元エンジニア・技術者が日本での研修を受けた。
- ・日本から信頼性の高い機材の導入と技術的バックアップを受けることが出来た。
- ・1988年度の円借款の中に、車輛及び管理サービス予算が見込まれ、A.O.R.地上局の建設・運営に大きく寄与した。今後のI.O.R.地上局の建設においても、これら予算配分への配慮が期待されている。

## 2) 問題点

- ・A.O.R.地上局の給電サブシステムは、通常の給電システムとバックアップの発電システムとの配電システムのデザインの関係より、給電サブシステムが4度打撃を受けが、適切な対応により問題点が改善された。
- ・以前より、ハラレ中央交換局に入れられているフィリップスの180V lightning arresterは、局のシステムへの適応性に問題があり、Channel MUX Cardsにダメージを受けた。
- ・地元の訓練されたエンジニアや技術者の転出が多く、今後のI.O.R.地上局の建設・運営に影響することが危惧されている。

### 3) 技術移転の成果

- ・ A.O.R.地上局では、1988年の事業当初において、関係者に対し何が重要かつ中枢となる機器で、どのように信頼性の確保と維持を図るかを教育され、マゾエ地球局は、最も信頼性の高い地球局として99.999.....%を誇っている。

### 4) 提言

- ・ ジンバブエのエンジニアや技術者への日本におけるJICA研修は、通信・デジタル技術の新たな分野に着目した研修項目の設定が望まれる。
- ・ 同時に、日本における研修と当地でのオンザジョブトレーニングを、適宜選択できるようにしてほしい。
- ・ JICAの研修等に関する案内は、マゾエの地球局には回覧されることがないと推測されるので、別途配布するよう配慮してほしい。適切な情報が入手できないと、PTCの本局において適切でない研修員を選定し、マゾエ地上局の保守・管理要員として配属される可能性がある。
- ・ 技術・情報紙の供与を日本より受け、地上局の保守・管理に関連する知識の向上を図る必要がある。

## (4) 地方電気通信網整備計画

本調査では、地方電気通信網の整備が、地方の経済の活性化と生活水準の向上、社会開発に大きく寄与するものとして、US\$31,449,000の無償資金協力の導入が提案された。

現時点では、具体的な事業の展開が見られず、計画目標の達成状況などに関する評価を行うことが難しい。

### 1) 問題点

- ・ 本調査に参加したPTCの一部のエンジニアの中には、計画作業の中で通信網整備の選択肢を除外したことに対する理由を知りたいとの要望が残されている。  
(調査参加者全員の理解が行き届かない状況下で、計画の結論を出している。)

### 2) 提言

- ・ PTCのカウンターパートに対し、早期に調査の結論について理解を得ることが肝要と考えられる。









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