

(2) 基本設計現地調査時テクニカルノート

TECHNICAL NOTE
ON
THE BASIC DESIGN STUDY ON THE PROJECT FOR IMPROVEMENT OF
THE MEDIUM WAVE RADIO BROADCASTING NETWORK FOR
ENHANCEMENT OF EDUCATION, HEALTH AND ENLIGHTENMENT IN
THE REPUBLIC OF UGANDA
CONCLUDED BETWEEN
UGANDA BROADCASTING CORPORATION AND THE CONSULTANT TEAM

Subsequent to the Minutes of Discussions, concluded on September 5, 2005 by and between Uganda Broadcasting Corporation (hereinafter referred to as "UBC") and the Basic Design Study Team headed by Mr. Takehiro SUSAKI, the Resident Representative of JICA Uganda Office, for the Project for Improvement of the Medium Wave Radio Broadcasting Network for Enhancement of Education, Health and Enlightenment in the Republic of Uganda (hereinafter referred to as "the Project"), the Consultant Team (hereinafter referred to "the Consultant") together with UBC has continued the detailed field survey and discussions on main issues and components of the Project. As the results of the detailed field survey and discussions, both the parties agreed as follows;

1. Site Investigation of Existing MW Transmitting Antennas

Detailed site investigation for existing transmitting stations was carried out by UBC and the Consultant from September 6 to 8, 2006 for Mawagga Transmitting Station and from September 9 to 12, 2006 for Kyeriba Transmitting Station, respectively. The Consultant judged that the usage of the existing MW transmitting antennas in both sites is quite difficult and risky due to the following reasons observed commonly in both sites;

- 1) Steel structure is in a condition of aged deterioration.
- 2) Instruments for base insulation materials are damaged seriously or taken out.
- 3) Structural cracks were observed in some of the foundations.
- 4) Almost all the radial earths are taken out from the site.

Based on the above joint investigation, UBC and the Consultant confirmed that new antenna tower should be required for both sites. During the site survey, approximate positions of the new antenna towers were determined.

As the result of above survey, UBC determined the dismantling of the existing antenna towers at their own cost. On the other hand, the Consultant carried out soil investigation test in Kyeriba Transmitting Station from September 18 to 20, 2006, by utilizing the engaged local contractor, Geodetico Limited. The test for Mawagga site is scheduled from September 25 to 27 in the presence of a UBC's engineer.



2. Tentative Building Plan for TX House

Through the site survey, UBC and the Consultant also agreed that utilization of the existing transmitting buildings in the both sites is not proper to accommodate new transmitter equipment, since the building is quite aged and damaged. As described in the Minutes of Discussions, UBC started the study to construct the new TX Houses and Antenna Tuning Huts at their own budget and for UBC's study of the construction cost for new TX Houses, the Consultant examined and prepared tentative floor layout plans of the building as shown in Appedix-1-1 and 1-2 attached hereto. The outline of the building is as follows;

- Structure: reinforced concrete, with brick masonry walls, single storey
- Roof: Roof tiles on wooden roof framing, but the framing is constructed on concrete roof slabs
- Rooms and Area: Transmitter Room, Dummy Load Room, Air-Chamber Room, Equipment Store and Maintenance Room, approx. 112 sq.m. in total
- Building Facility: Ordinary electrical installation comprising A/C terminal box, power distribution board for building facilities, lighting fixtures, switches and socket outlets, etc.
- Others: Foundations of air-conditioners, wall openings with wooden frames for feeder entry, air intake and air chamber, etc.

Based on the drawings and the outlines explained by the Consultant, UBC asked local contractors budgetary estimate of the construction cost for the buildings.

3. Other Information on Works to be Carried out by UBC

Through the site survey, the Consultant reported to UBC the following information necessary for estimation of UBC's initial cost for the Project;

- 1) Boundary chained linked fence to be newly required is approx. 1,600 meters for Mawagga Transmitting Station and 1,350 meters for Kyeriba Transmitting Station, respectively.
- 2) High voltage electrical line is available nearby the site. Although exact location of new TX House is not determined, extension of leading commercial power line to the building is roughly estimated as of 150 meters.
- 3) Demolition of the existing boundary walls and ATU is not essential as well as concrete foundation of the existing antennas, since new antenna tower will be located not to overlap the zone of the existing radial earths.

UBC accepted to involve the above 1) to 2) for his estimate of the initial cost for the Project.

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- 2 -

4. Study on the Power/Fuel Consumption

The Consultant estimated power and fuel consumption when the Project is implemented taking circumstances of present power supply into account. For this purpose, UBC also calculated realistic hours of power failure during broadcasting times, consulting with the electricity supply company located in the districts of the objective sites and the followings are the results of power failure in each site.

Mawagga Transmitting Station : 282 hours/month
Kyeriba Transmitting Station : 93 hours/month

Based on the estimated power consumption of the transmitting equipment as well as such building ancillary equipment as air-conditioners, lighting fixtures, etc., the Consultant reported that the required power and fuel consumption in a year in each station are as follows;

Mawagga Transmitting Station : Power Consumption \approx 278,640 kW
Diesel \approx 33,840 litres
Kyeriba Transmitting Station : Power Consumption \approx 508,680 kW
Diesel \approx 8,280 litres

*Remarks: The above calculation was made on condition that the output is reduced to 10kW at the time of power failure. The condition was set up through discussion with UBC.

5. UBC's Estimate of Initial and Running Cost for the Project

Based on the result of study clarified in the above Item 1 to 4, UBC calculated the required initial and running cost for the Project as follows;

Initial Cost : 391,468,000 Ush. (approx. 25 million Japanese Yen)
Running Cost : 390,822,408 Ush. (approx. 25 million Japanese Yen)

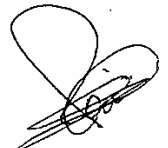
UBC agreed that budget of the above initial cost and running cost should be incorporated in the budget for 2007/08 fiscal year and 2008/09 fiscal year, respectively.

*Remarks: The above is also stated as the attachment (004/a) in the UBC's report submitted to the Basic Design Study Team on September 15, 2006. However, the figures in the list is mistyped and the above figures are correct.

6. Additional Request on Studio Equipment

The following studio equipment is additionally requested by UBC. Through the joint survey of the complicated existing studio facilities repeatedly carried out, the Consultant understood that the request is proper and reasonable and agreed to consider further study in Japan..

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(Additional Request)

1. On-Air Studio Equipment
 - (1) Three (3) sets of audio recorder (Solid State)
 - (2) Two (2) sets of audio test sets
 - (3) Spare parts for one year operation
2. Production Studio Equipment
 - (1) Six (6) sets of microphones including accessories in addition to the original nine (9) sets
 - (2) 24CH Audio mixers instead of the original 16CH's one.
 - (3) Three (3) sets of CD recorders in addition to the original three (3) sets
 - (4) Three (3) sets of the audio recorders (solid state).
 - (5) Digital audio work station (DAW) with LAN interfaces
 - (6) Spare parts for one year operation
 - (7) One (1) set of maintenance tool in addition to the original one (1) set

7. UBC's Report dated September 15, 2006

In accordance with the Minutes of Discussions, UBC submitted the Report to the Basic Design Study Team on September 15, 2006, indicating strategic plan, personnel allocation plan and budgetary allocation plan. The Consultant, however, pointed out the followings and requested to submit the revised report at the earliest;

(Comments by the Consultant)

1. Explanation of the personnel allocation and budgetary allocation is insufficient.
2. Figures of Attachment (004/a) shall be corrected accordingly, and the fiscal year for the disbursement shall be clearly stated.
3. Attachment (004/c) is not Income Generation Plan but explanation of the 2006/07 years budget. As long as strategic plan explains until 2010/11, the plan shall include perspective income generation plan by that time.

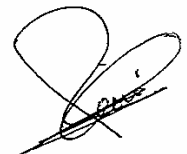
UBC accepted the Consultant's request and promised to submit the revised plan to JICA office by middle of October, 2006.

8. Remaining Portion of Answers to Questionnaire

The Consultant pointed out the following answers to Questionnaire was not yet given by UBC. UBC promised to send all the remaining answers by the end of September, 2006 to the E-mail address of the leader of the Consultant.

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- 4 -



(Remaining Part of the Questionnaire which Answers have not yet given)

Page 4-5, 1.1 (4) to (6) : About wages, wages comparison, staff training and training organization

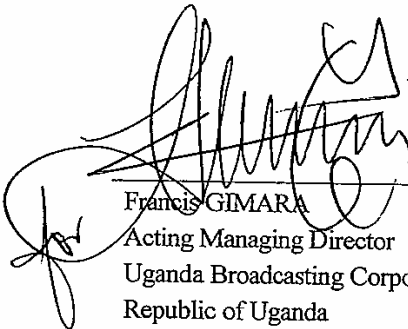
Page 17, 2.1 (6) : Categories of programs on weekly basis

Page 21 to 25, 3,2 to 3,3 : Circumstances and general information on construction

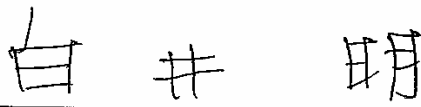
9. Purpose of this Technical Note

Both the parties agreed that purpose of this Technical Note was prepared only in order to prevent unfruitful discrepancies between the parties, which may disturb smooth implementation of the Basic Design. Both the parties also understood that all the descriptions will become effective subject to approval by the Government of Japan.

September 21, 2006

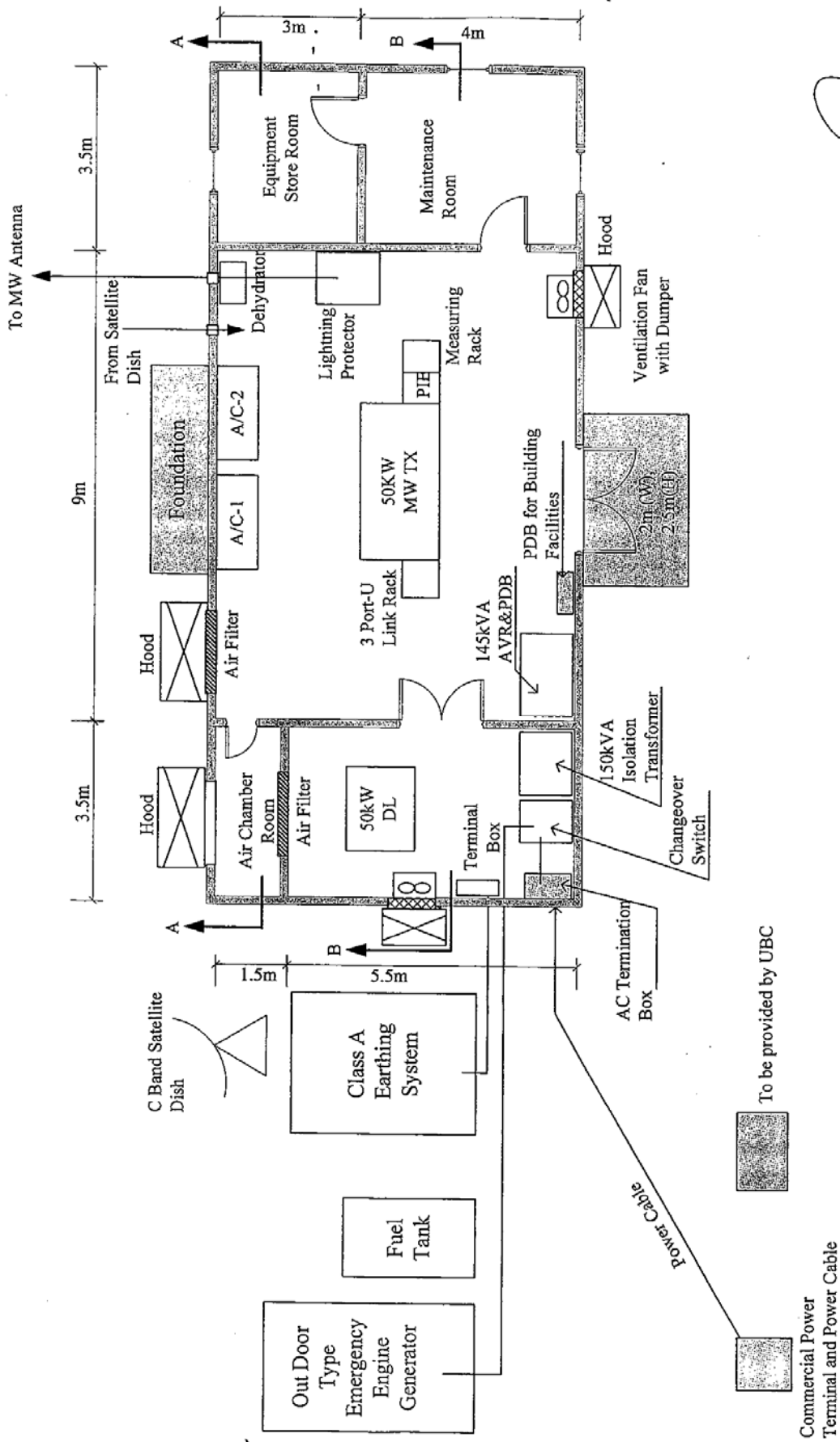


Francis GIMARA
Acting Managing Director
Uganda Broadcasting Corporation
Republic of Uganda



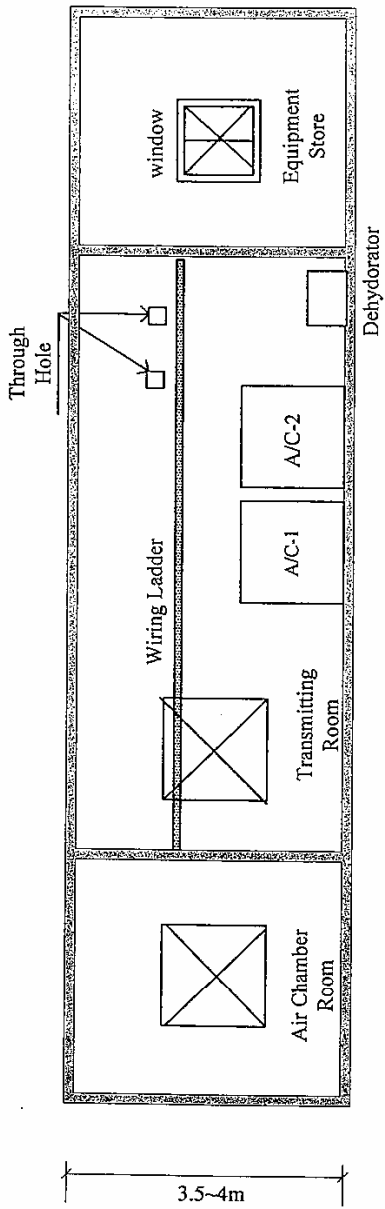
Akira SHIRAI
Leader of the Consultant
Basic Design Study Team
NHK Integrated Technology Inc.

Appendix 1-1

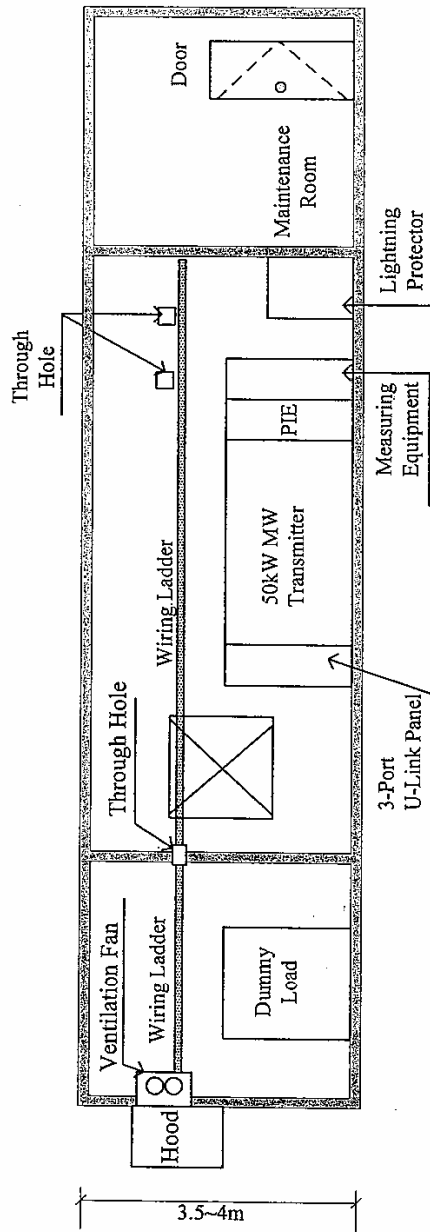


TENTATIVE FLOOR LAYOUT FOR MAWAGGA & KYERIBA TX HOUSE

Appendix 1-2



Section A -A



Section B-B

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(3) 基本設計概要書説明時討議議事録


Minutes of Discussions
on the Basic Design Study on the Project for
Improvement of the Medium Wave Radio Broadcasting Network for
Enhancement of Education, Health and Enlightenment
in the Republic of Uganda
(Explanation of Draft Final Report)

In September 2006, the Japan International Cooperation Agency (hereinafter referred to as “JICA”) dispatched the Basic Design Study Team on “The Project for Improvement of the Medium Wave Radio Broadcasting Network for Enhancement of Education, Health and Enlightenment” (hereinafter referred to as “the Project”) to the Republic of Uganda, and through discussions, field survey and technical examination of the results in Japan, JICA prepared a draft final report of the study.

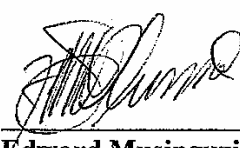
In order to explain and to consult with concerned officials of Uganda on the components of the draft final report, JICA sent to Uganda the Draft Final Report Explanation Team (hereinafter referred to as “the Team”), headed by Mr. Takehiro SUSAKI, the Resident Representative of the JICA Uganda Office, from February 12 to 20, 2007.

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

Kampala, February 20, 2007

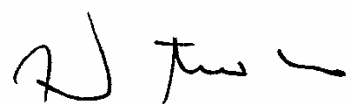


Takehiro SUSAKI
Leader
Draft Final Report Expalanation Team
Japan International Cooperation Agency



for **Edward Musinguzi Mugasa**
Ag. Managing Director/Corporation Secretary
Uganda Broadcasting Corporation
Republic of Uganda

Witness



Martin Odwedo
Permanent Secretary
Office of the Prime Minister/Ministry of
Information and National Guidance
Republic of Uganda

ATTACHMENT

1. Components of the Draft Final Report

The Ugandan side agreed and accepted in principle the components of the draft final report and the draft detailed specifications of the equipment explained by the Team.

2. Japan's Grant Aid Scheme

The Ugandan side understands the Japan's Grant Aid scheme and the necessary undertakings to be taken by Ugandan side as explained by the Team and described in the Minutes of Discussions signed by both sides on September 5, 2006.

3. Schedule of the Study

JICA will complete the final report in accordance with the confirmed items and send it to Uganda by July 2007.

4. Other Relevant Issues

(1) Construction of the Buildings in the Project Sites

It is described, in the draft final report, that construction of such buildings as Transmitting Station Buildings, Main ATU Huts and Sub ATU Huts in two project sites, i.e., Mawagga and Kyeriba MW Transmitting Stations, will be incorporated as the scope of work to be carried out by the Government of Japan, although it was classified as the responsibility of Ugandan side in the previous Minutes of Discussions on September 5, 2006. The Team explained to Ugandan side the circumstances on the decision and design concept of the buildings. The Ugandan side expressed their appreciation and fully accepted the explanations by the Team.

(2) Securing the Budget and Personnel

The Ugandan side agreed and promised that they should secure the necessary budget for initial and running cost required for the Project and allocate the skilled personnel to operate and maintain properly the facilities and the equipment to be procured under the Japan' Grant Aid, in accordance with the description of the draft final report. In this regard, the execution agency of the Project, Uganda Broadcasting Corporation (hereinafter referred to as "UBC") reviewed the draft final report and added the cost for repairs of renovation of studios of Kampala Broadcasting Center and that of staff quarters in Mawagga and Kyeriba MW Transmitting Stations as the initial cost and maintenance cost for all the buildings in the project sites. UBC also reviewed the bank commission on issuance of A/P and maintenance cost for equipment. The results of the study by UBC on the necessary cost to be borne by the Ugandan side are summarized as **Annex-1** attached hereto. Target time of each activity to be carried out by Ugandan side is also clarified in **Annex-1**.

(3) Additional Explanation on Japan's Grant Aid Scheme

The Team explained again the Japan's Grant Aid Scheme referring to the Annex-4 attached in the previous Minutes of Discussions concluded on September 5, 2006. As for the notes on the tendering stage, the Team explained the followings to the Ugandan side;

- 1) The contractor shall be a Japanese firm.
- 2) The tenderer shall be qualified if his offer satisfies the tender specification, in this regard, UBC can not appoint the manufacturer.
- 3) The qualified tenderer who offers lowest price shall be engaged as the contractor.

The Ugandan side understood and accepted the above. However, Ugandan side expressed strongly their desire that transmitters and the related equipment, which are main components of the Project should also be Japanese products. The Team replied that it was the principal condition of the Exchange of Notes.

(4) Confidentiality of the Report and Specifications

Both sides confirmed that the contents of the draft final report and specifications must be kept confidential until the time of tender.

(5) Other Confirmation Items between the Team and UBC

- 1) Data on the Existing Radio Transmission Sites

Through the discussions of the Team and UBC, all the present information regarding UBC's transmission sites have been properly collected as shown in the **Annex-2** attached hereto.

- 2) Project Status of FM Transmission Project

As the referential information on the projects by other donors, the Team asked the present status of the FM transmission sites whose equipment was funded by DFID or World Bank. UBC reported almost all the sites are now in operation and only 4 sites remained for construction of the buildings and they will be completed and operated within the next fiscal year. The status of the sites is also summarized in **Annex-2**.

- 3) UBC's Income and Expenditure in the Last 5 Years

The Team requested UBC to review the combined data of income and expenditure of Radio Uganda and Uganda Television for the year from 2001/2002 to 2005/2006, which was prepared by UBC and given to the basic design team in September 2006. However, UBC explained that it was not possible to accurately extract data of Radio Uganda and Uganda Television from the overall budget of the then parent ministry (office of the president). The Team agreed with the UBC's explanation and decided that the previous data before establishment of UBC should not be utilized in the basic design report.

- 4) Review of Management Accounts for July 2006 to December 2006
Management Accounts which shows UBC's income and expenditure of the first six (6) months in the year of 2006/2007, which was prepared by UBC in this January was requested to review and revised by the Team since there are some ambiguous expenditure items and the Government grant was not exactly incorporated in the table. UBC revised the Management Accounts in accordance with the items of the budget estimates for the financial year 2006/2007 and incorporating all the Government Grant as well as the latest data of January 2007. Revised new Management Accounts for July 2006 to January 2007 are attached hereto as **Annex-3**.
- 5) Responsibility of the Ugandan Side regarding Building Construction
Regarding building construction which is to be incorporated as the scope of works of the Japanese side, both the Team and UBC confirmed that the followings are responsibilities to be carried out by the Ugandan side;
- To obtain the Building Permit
 - Leading-in the Commercial Power to the Buildings
- UBC studied the detailed process of the formalities and reported the followings;
(Building Permit)
Five (5) copies of Architectural Plan shall be submitted to the Ministry of Works and Housing stationed in the office of each District Council at Mityana and Kabale and the approval takes about a month. UBC promised that the application would be submitted to the each authority as soon as after tender documents are finalized in the stage of implementation of the Project.
(Leading-in the Commercial Power to the Buildings)
As for commercial power supply, UMEME Ltd. is the sole distributor in Uganda. Required time span from application to the connection is approx. one (1) month. Detailed process for leading-in the commercial power to the premises is described as **Annex-4** attached hereto.
- 6) Operation and Maintenance Staffs for Project Sites
UBC clarified that deployment of the maintenance staffs for Mawagga and Kyeriba MW Transmitting Stations should be as per the description of the draft final report but the staffs should be 24 hours stationed in the sites, for which repairs and renovation of staff quarters are to be incorporated in the initial cost mentioned in the above (2).
- 7) Licenses Necessary for Implementation of the Project
As for frequency assignments for the two project sites, Uganda Communications Commission approved the permission to use the specified frequency allocated by ITU as shown in the letter dated February 19, 2007 attached hereto as **Annex-5**. As for broadcasting license and construction of antennas, UBC consulted with the relevant authorities and obtained their answers that no further actions were required since they had already been approved by the authorities.

8) Possibility on Procurement of the Equipment from the Third Country

The Team explained that the procurement of the satellite receiving equipment, telephone hybrid and digital audio workstation might be made from United States or other European Countries, in the light of their quality and the cost performance. UBC understood and accepted the possibility.

9) Confirmation on Achievement brought by the Project

The Team and UBC exchanged the opinions regarding achievements of this Project and both parties confirmed that the figures and descriptions in the draft final report were proper and reasonable.

10) Technical Assistance related to the Project

As for technical assistance related to the Project, the Team expressed their opinion that it might not be necessary since the training should be incorporated as the supplier's scope of works. UBC agreed and accepted the Team's opinion, however, expressed to find and propose other general JICA's training programs.

11) Prospective UBC's Project funded by Other Donor

UBC reported that prospective UBC's new project funded by other donor was only Chinese assistance to establish new television and FM radio channel and the Team confirmed there was neither connection nor duplication with the Project.

(End)

Annex-1(1)

13/02/07

PROJECT TENTATIVE COST OUTLINE

BASIC DESIGN STUDY ON THE PROJECT FOR IMPROVEMENT OF MW RADIO NETWORK

1. **Project Name:** Improvement of Medium Wave Radio network for enhancement of Education, Health and enlightenment in the Republic of Uganda.

2. **Project Cost**

2.1 **CAPITAL:**

		QTY	COST	Remarks
I	JAPANESE SIDE		Jap Yen	
	Equipment	3 Sets	1,048,600,000	<ul style="list-style-type: none"> • Mawagga St. • Kyeliba St. • BH Studios
	Consultancy		60,800,000	
	SUBTOTAL FOR JAPANESE SIDE		1,109,400,000	
II	UGANDAN SIDE		Ug.Shs.	Initial costs
	Dismantling of Existing old Antenna Towers by end of March 2008.	2 Sets	53,218,000	<ul style="list-style-type: none"> • Mawagga St. • Kyeliba St.
	Restoration of Power Supply by end of May 2008.	2 Sets	12,000,000	-----do-----
	Civil Works at BH by July 2008	6 Sets	60,000,000	
	Construction of Perimeter fences by end of Jan 2009	2 Sets	165,250,000	-----do-----
	Repairs and Renovation of Staff Quarters by end of Jan 2009	2 Sets	200,000,000	<ul style="list-style-type: none"> • 2 units for Mawagga St. • 3 units for Kyeliba St.
	Bank Commission on issuance of Authorization to pay.		47,546,000	0.27% of the Grant Aid Amount
	SUBTOTAL FOR UGANDAN SIDE		538,014,000	

Annex-1(2)

Please note:

- Project Capital Cost for Japanese side is fully covered under the Grant.
- Equipment Cost covers Equipment, Spare parts, Procurement, Installation, Transmitter building and Tuning Hut.
- Uganda Government financial support/commitment to cover project initial costs for Ugandan side is to be sought in case UBC finds it's self financially incapacitated during the implementation period.
- 1 Ug Shs. = 0.063 J¥
- 1US\$ = 116.45 J¥
- US\$1 = UGSHS 1,839.04

2.2 MAINTENANCE AND RUNNING COST PER YEAR:

		QTY	COST pa Ug. Shs.	Remarks
I	JAPANESE SIDE		NONE	
II	UGANDAN SIDE			
	Commercial power	2 Sets	306,582,000	• Mawagga St. • Kyeliba St.
	Fuel for standby Generators	2 Sets	84,240,000	-----do-----
	Equipment Maintenance	2 Sets	11,111,000	0.1% of the equipment cost
	Building Maintenance		7,000,000	
	TOTAL FOR UGANDAN SIDE		408,933,000	

Please note that 0.1% of equipment price is for maintenance of equipment. The maintenance costs will be very minimal because of the following:

- The transmitter equipment will be from Japanese manufacturing companies with highly qualified and very experienced personnel in the field of broadcasting.
- The transmitter equipment is of modern technology
- The transmitter equipment is of modular configuration and solid-state design. The equipment is therefore easy to operate and very cheap to maintain.
- The station equipment will be protected against power surges and other natural disastrous phenomenon etc by high quality power stabilizers provided under the project.
- A lot of spares are provided under the project.
- UBC technical staff are very skilled and will therefore ensure regular preventative maintenance to avoid actual repairs which are normally very costly and time consuming.

TABLE OF UBC'S BROADCASTING AND TRANSMISSION SITES

Category	No.	Present Status (Existing Stations)	Location	District	Present Deployment			Deployment Plan upto 2010/2011			Geographical Location			MW			TV	SW	Transmission Programme/Remarks
					UBC	Others	Total	UBC	Others	Total	Latitude	Longitude	Altitude (m)	Tower Height (m)	Frequency (KHz)	Output (KW)			
Stations in Operation	1	1A Broadcstg House	Kampala		9	14	23	36	25	61	00°20'13"N 32°35'24"E	1,174							
	2	1A Butabe	Butabe		2	7	9	8	4	10	01°10'36"N 33°52'53"E	1,070	100	729	50	x	x	MW, Butabe	
	3	1A Bugolobi	Kampala		3	4	7	6	4	10	00°18'52"N 32°37'19"E	1,202	82	809	1	x	x	MW, Blue SVT, Red for 4,076 & 7,195MHz and Blue for 5,026 & 7,110 kHz	
	4	1A Kololo	Kampala		2	2	4	4	1	5	00°20'14"N 32°35'23"E	1,310	150, 200	x				FM: Blue 100W(300W) x	
	5	1A Bwala	Masaka		1	0	1	4	4	8	00°21'44"S 31°44'58"E	1,370	150	x	x	x	x	FM: Sbr	
	6	1A Karamurungi	Mbarara		3	0	3	4	2	6	00°44'20"S 30°34'30"E	1,829	150	x	x	x	x	FM: Blue	
	7	1A Kikumiro	Kabale		1	2	3	2	4	4	01°18'29"S 30°09'43"E	2,067	40	x	x	x	x	FM: Blue	
	8	1A Dnyo	Seedi		1	6	7	4	8	10	01°42'44"N 32°39'17"E	881	150	x	x	x	x	FM: Blue	
	9	1B Wanyenge	Jinja		0	4	4	2	8	10	00°26'57"N 33°14'11"E	1,334	50	x	x	x	x	FM: Butabe	
Stations Not Operated	10	1B Bwalesi	Mpalu		0	1	1	4	4	8	01°10'07"N 34°14'10"E	1,450	75	x	x	x	x	FM: Sbr	
	11	1B Odhoniit	Lira		0	1	1	4	2	2	02°15'48"N 32°52'30"E	1,090	150	x	x	x	x	FM: Red	
	12	1B Oruh(Fort Portal)	Kyenjojo		0	1	1	0	2	2	00°38'55"N 30°30'37"E	1,891	40	x	x	x	x	FM: Red	
	13	1C Naguru	Kampara		0	0	0	0	2	2	00°21'57"N 32°38'14"E	1,313	50	x	x	x	x	FM: Blue	
	14	1C Town	Gulu		0	0	0	0	2	2	02°46'24"N 32°18'05"E	1,107	40	x	x	x	x	FM: Red	
	15	1C Moru	Gulu		0	0	0	0	2	2	02°36'15"N 32°28'37"E	1,509	50	x	x	x	x	FM: Mega	
	16	1C Kipulya	Masindi		0	0	0	0	2	2	01°41'22"N 31°49'08"E	1,310	40	x	x	x	x	FM: Mega	
	17	1C Kyungusha	Mungano		0	0	0	0	2	2	00°56'19"S 30°19'48"E	1,877	75	x	x	x	x	FM: Blue	
	18	1C Mugamba	Rukungiri		0	0	0	0	2	2	00°46'08"S 29°58'52"E	1,895	50 (45)	x	x	x	x	U41CH 0.1KW x	
	1	2A Kyabala	Kabale		1	2	3	8	4	12	01°15'00"S 29°59'00"E	2,310	2-75	989	50	x	x	x	Operational but on UTL, site Operating temporarily at UTL, site
	2	2A Oheschi	Arua		1	2	3	3	2	5	03°04'08"N 30°56'07"E	1,170	2-75	989	50	x	x	x	FM: Red, Operation will start from March, 2007
	3	2B Mawegga	Miyana		0	3	3	8	4	12	00°22'42"N 32°08'18"E	1,330	2-130	579	50	x	x	x	FM: Blue
	4	2B Ibamba	Hoima		0	2	2	0	2	2	01°29'37"N 31°24'39"E	1,355	40	x	x	x	x	FM: Blue	
	5	2B Kibaha	Kisero		0	2	2	0	2	2	01°15'28"S 30°41'25"E	1,178	40	x	x	x	x	FM: Blue, Operation will start from April, 2007	
	6	2B Kiboga Hill	Kiboga		0	2	2	0	2	2	00°54'55"N 31°46'24"E	1,322	40	x	x	x	x	FM: Blue, Operation will start from February, 2007	
7	2B Kwaji	Kapchorwa		0	2	2	0	2	2	01°22'43"N 34°27'04"E	2,280	40	x	x	x	x	FM: Butabe, Operation will start from April, 2007		
8	2C Bobi	Gulu		0	0	0	8	4	12	02°32'02"N 32°29'18"E	1,950	83	810	50	x	x	x	FM: Red	
9	2C Oligi	Arua		0	0	0	6	2	8	03°02'57"N 30°50'05"E	1,170	99	758	10	x	x	x	MW: Red	
(Total No. of Staffs)																			
(Planned Stations)																			
Planned Stations	1	3A Kasemer	Meroto		0	0	0	3	4	7	02°30'42"N 34°39'53"E	1,818	30	x	x	x	x	FM: Butabe, Operation will start from January, 2008	
	2	3A Teror Hilltop	Kotido		0	0	0	3	4	7	02°50'05"N 34°19'08"E	1,998	45	x	x	x	x	FM: Butabe, Operation will start from January, 2008	
	3	3A Erta	Moyo		0	0	0	3	4	7	03°38'18"N 31°41'22"E	1,894	45	x	x	x	x	FM: Red, Operation will start from January, 2008	
	4	3A Kigum Hill	Kigum		0	0	0	4	4	8	03°17'20"N 32°52'44"E	827	45	x	x	x	x	FM: Red, Operation will start from January, 2008	
	5	3B Herigait	Bundibugyo		NYD	NYD	NYD	NYD	NYD	NYD	00°40'52"N 30°56'58"E	1,151	30	x	x	x	x	FM: Blue	
	6	3B Nakasongola Hill	Nakasongola		NYD	NYD	NYD	NYD	NYD	NYD	01°07'45"N 32°28'40"E	1,282	45	x	x	x	x	FM: Blue	
	7	3B Nakayama	Mul'eb		NYD	NYD	NYD	NYD	NYD	NYD	00°34'18"N 31°22'25"E	1,875	50	x	x	x	x	FM: Blue	
	8	3B Teror Rock	Teror		NYD	NYD	NYD	NYD	NYD	NYD	00°41'00"N 30°39'37"E	1,891	30	x	x	x	x	FM: Blue	
	9	3B Nyakabingo	Kasere		NYD	NYD	NYD	NYD	NYD	NYD	00°10'00"N 36°02'00"E	1,150	30	x	x	x	x	FM: Butabe	

1A: Operational and UBC Staff Stationed
 1B: Operational but UBC Staff Not Available (Engaged Temporary Staff)
 1C: Operational but No Staff Available
 2A: Not Operational but UBC Staff Stationed
 2B: Not Operational and UBC Staff Not Available
 2C: Not Operational and No Staff Available
 3A: Site Secured and Equipment Available
 3B: Only Site Secured
 NYD: Not Yet Decided

Annex-3

UGANDA BROADCASTING CORPORATION

MANAGEMENT ACCOUNTS FOR JULY 2006 TO JANUARY 2007

Revenue	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06	Jan-07	Total
Rental Income	69,862,000	131,179,700	53,070,000	211,596,620	138,583,500	101,070,855	143,174,351	848,537,026
Tv Sales	109,845,000	54,790,454	142,831,114	157,337,615	122,237,801	81,370,855	159,123,000	827,535,839
Radio Sales	117,000	1,340,000	2,395,000	4,121,300	9,443,137	18,411,000	9,095,500	21,233,737
Other Incomes	110,000	10,480,130	853,184	189,589	93,276	1,525,344	570,000	13,821,523
Government Grant	3,477,417,000	195,569,000	-	-	-	216,000,000	-	3,888,986,000
	3,657,351,000	393,359,284	199,149,298	373,245,124	270,357,714	418,378,054	311,962,851	5,600,114,125

CAPITAL EXPENDITURE

Tv equipment/Relocation	3,477,417,000	45,868,317	-	-	-	-	-	3,523,285,317
Net Work Equipment	-	-	-	-	-	-	-	-
Motor Vehicles Purchase	-	-	-	-	-	57,260,000	-	57,260,000
Office equipment	-	-	-	-	-	-	-	-
Computer and Accessories	-	-	-	-	-	-	-	-
Furniture and Fittings	-	-	-	-	-	-	-	-

REVENUE EXPENDITURE

Board Expenses	-	3,500,000	14,000,000	8,385,000	19,550,000	24,910,000	12,220,000	82,565,000
Staff Costs	98,996,151	95,692,331	92,602,471	94,627,751	95,492,218	95,480,551	87,494,527	660,386,000
Staff Training	-	-	-	-	600,000	-	-	405,000
Travel Expenses	456,000	7,574,600	3,530,000	4,513,570	9,818,650	7,557,940	2,317,000	35,767,760
Allowances	11,603,150	6,453,015	22,995,315	15,550,215	13,375,097	25,680,515	17,520,115	113,177,422
Office General Expenses	2,385,200	4,034,000	1,763,300	4,090,800	4,202,950	1,997,100	3,139,000	21,612,350
Satellite rentals	-	-	-	-	-	-	-	-
Programs	191,000	22,141,000	-	11,590,125	23,292,070	-	18,546,600	75,760,795
Legal Costs	-	-	-	1,065,000	4,575,000	-	150,000	5,790,000
Membership fees	-	300,000	-	6,537,400	128,100	125,000	-	7,090,500
Commission	-	182,100	-	1,325,966	1,597,477	13,018,231	1,524,900	17,648,674
Licences fees	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	5,654,900	35,654,900
Bank Charges	1,680,000	431,261	440,158	705,490	782,194	1,257,994	1,079,053	6,376,150
Interest Payable	9,588,476	11,094,366	8,630,182	8,630,182	8,320,732	8,537,859	7,065,947	61,867,744
Surveyor fees	-	11,867,500	-	5,000,000	5,000,000	10,000	-	21,877,500
Stationary and Printing	1,936,050	4,406,721	5,764,954	1,924,096	4,070,100	413,950	113,600	18,629,471
Newspapers and Magazines	156,356	232,800	153,800	146,000	113,600	85,000	-	887,556
Cleaning Services	1,836,651	1,836,651	1,836,651	1,836,651	1,836,651	1,836,651	1,836,651	12,856,557
PABX wiring expenses	-	-	-	-	-	-	-	-
Maintenance	3,486,500	12,857,500	8,731,100	10,934,700	2,120,250	981,000	11,793,900	50,904,950
M/ Vehicle expenses - Fuel	2,364,500	4,795,900	4,645,257	7,864,600	15,137,520	2,553,820	13,478,828	50,840,425
Utilities	43,304,090	7,563,972	3,148,260	5,508,414	13,053,423	9,275,568	2,455,000	84,308,727
Security	5,020,000	6,965,896	6,987,896	8,005,982	4,408,982	4,158,982	3,708,442	39,254,180
Advertising/ Promotions	-	4,652,000	-	3,039,000	1,553,800	2,950,000	1,530,000	13,724,800
	3,665,421,124	257,449,930	180,229,344	206,280,942	234,028,814	263,088,161	192,033,463	4,998,531,778

Annex-4(1)

DETAILED PROCESS FOR LEADING -IN THE COMMERCIAL POWER TO THE PREMISES.

UMEME Ltd is the sole distributor of electricity in Uganda. The following is the process for obtaining power:

For New Customers with newly constructed premises

Step 1:

Having finished construction of a house, a prospective customer must hire a competent wiring contractor, LICENSED by Umeme to complete the electrical wiring in the house. The customer will receive a genuine Wiring Certificate.

Step 2:

The prospective customer then approaches the nearest Umeme office within his/her location for application

The following are documentation is required:

- Application letter from UBC
- Proof of ownership of the property
- Letter from local authorities (local council)
- Wiring Certificate
- TIN number

Step 3:

The customer will be given an application form to insert details such as name, zone, type of service; whether domestic, commercial or otherwise, telephone number etc. The application letter and the Wiring Certificate will be attached to this form. The customer is also required to sign a declaration form at the back of the application form. This form states the conditions of supply. (Allow up to 2 *working days* for the internal processing of this form). The prospective client will then be required to pay an inspection fee of Shs. 40,000. Where Way-Leaves are required, the letter of consent will be issued and both the person authorizing and the prospective customer will be required to sign on it.

1

Annex-4(2)

Step 4:

The installation inspector/surveyor will visit the site to verify whether the wiring conforms to the requirements of the company. This will take about 3 days.

Step 5:

Once the installation is found to be in conformity with the required standards, internal processing of the customer's application will be effected. This includes but may not be limited to: approval of the application, surveying, drawing sketch maps, and costing.

Step 6:

After 12 working days, the customer will be informed to come and pay for the service. Currently, the fee stands at Shs. 197, 000 (Capital Contribution) and Shs. 100,000 (Security Deposit). **Note. This is only for a No-Pole Service. For One pole service, the amount is Shs. 323,200 (Capital Contribution) and Shs. 100,000 (Security Deposit).** An account number will be issued in respect of the payments.

Step 7:

Upon payment, two receipts will be issued and actual connection will take place within a week's time from the payment date.

Step 8:

However, once the installation is found not to conform to the required standards, the customer will be informed accordingly and rewiring will have to be re-done.

Step 9:

Upon payment of the re-inspection fee, the Installation Inspector will go and verify: If found to be okay, Steps 6-9 will follow.

(End)

2



UGANDA COMMUNICATIONS COMMISSION

12th FLOOR, COMMUNICATIONS HOUSE
PLOT 1 COLVILLE STREET
P.O. BOX 7376, KAMPALA
PHONE: (256) (41) 348 830
(256) (41) 339 000
FAX: (256) (41) 348 832
E-MAIL: ucc@ucc.co.ug

Annex-5

Our Ref: UCC/4003/134

19th February 2007

The Ag. Managing Director,
Uganda Broadcasting Corporation,
P. O. Box 2038,
KAMPALA.

Dear Sir,

Subject: Use of Medium Wave Frequencies by UBC

We acknowledge receipt of your letter dated 8th November 2006 in which Uganda Broadcasting Corporation (UBC) provided the Commission with an update of the frequencies in use for radio and television stations in Uganda.

In regards to the Medium Wave frequency assignments in Mityana and Kabale, the Commission has granted you permission to use the frequencies 576 KHz and 999 KHz for the said locations as follows:

Station Location	Coordinates		Power (KW)	Frequency (KHz)
	Latitude	Longitude		
Mawagga (Mityana district)	00° 22' 42" N	32° 08' 18" E	50	576
Kyeriba (Kabale district)	01° 15' 00" S	29° 55' 00" E	50	999

Yours faithfully,

Patrick Mwesigwa
For: EXECUTIVE DIRECTOR

(4) 首相府兼情報省次官からの書状

TELEPHONE: 232575 / 258741
254307 / 345955 / 254252
EMAIL: psopms@info.com.co.ug
TELEFAX: 341139 / 341923



THE REPUBLIC OF UGANDA

OFFICE OF THE PRIME MINISTER
POST OFFICE BUILDING
YUSUF LULE ROAD
P.O. BOX 341, KAMPALA, UGANDA

In any correspondence on

This subject please quote No.ADM 16/03.....

16 February 2007

The Resident Representative
Japan International Cooperation Agency (JICA)
KAMPALA

GOVERNMENT OF UGANDA SUPPORT TO UGANDA BROADCASTING CORPORATION (UBC) IN EXECUTION OF MEDIUM WAVE RADIO BROADCASTING PROJECT – JANUARY 2007

The Government of Uganda gratefully appreciates Japanese Government's support to Uganda Broadcasting Corporation (UBC) through the Project for Improvement of the Medium Wave Radio Broadcasting Network for Enhancement of Education, Health and Enlightenment in the Republic of Uganda.

The Office of the Prime Minister confirms constant support to UBC in general and in particular will support to start and sustain this project.

We reiterate our appreciation and cooperation with Japan International Cooperation Agency (JICA) for improvement of education, health, and enlightenment in the country.

Martin Odwedo
PERMANENT SECRETARY

cc Permanent Secretary/Secretary to the Treasury, Ministry of Finance
cc Managing Director, Uganda Broadcasting Corporation

5. 事業事前計画表（基本設計時）

1. 案件名
ウガンダ共和国 ラジオ放送網整備計画
2. 要請の背景（協力の必要性・位置付け）
<p>ウガンダ共和国（以下「ウ」国）政府は、1997年に世界銀行指導の下に策定された包括的な国家計画である「貧困撲滅行動計画（Poverty Eradication Action Plan：PEAP）」を策定した。PEAPはその後2000年3月に第1次、続いて2003年に第2次の改定が行われ、2004年3月に5つの重点課題（経済管理、生産・競争力・所得向上、治安・紛争解決・災害管理、グッドガバナンス、人間開発）を定めた第3次PEAPが完成し、最終目標である「2017年までに絶対的貧困率を10%以下にする」ことを達成するために、さまざまな貧困削減施策が実施されている。</p> <p>「ウ」国におけるラジオ受信機の普及台数は約400万台（2002年ITUデータ）で、世帯を対象とした普及率は76.5%と非常に高く、情報媒体としてのラジオ放送の重要性はきわめて高い。一方TV受像機の普及台数は約39万台（2002年ITUデータ）で、世帯を対象とした普及率は7.5%とラジオ受信機普及の10分の1にとどまっており、情報媒体としてのラジオ放送の重要性はきわめて高い。住民にとって唯一の情報媒体となっている地方もある。このため「ウ」国政府は、ラジオ放送が貧困削減施策の効果向上にきわめて大きな役割を果たすと認識し、PEAPに沿った各種貧困削減施策の実施において積極的にラジオ放送を活用して情報の伝播を進めている。PEAPの中では、ラジオ放送の果たす役割として教育への平等のアクセス、農業活動および健康管理の改善、国民意識の啓蒙、様々な分野における技術の習得、などが強調されている。</p> <p>「ウ」国政府は2005年11月新たな放送政策を制定し、それぞれ情報省の傘下でラジオ放送を行っていたラジオウガンダと、テレビ放送を実施していたウガンダテレビを統合・独立させ、ウガンダ放送公社（Uganda Broadcasting Corporation：UBC）を設立した。UBCは「ウ」国唯一の全国ラジオネットワークを有する公共放送機関であり、国民に対する教育・啓蒙活動や地域情報格差の是正などの活動を行う最も効果的なツールとしての役割が期待されている。</p> <p>しかしながらUBCのラジオ放送網の基幹施設である7ヵ所の中波送信所および本部スタジオの機材は、すべて1970年～1980年代に整備されたものであり、内戦や落雷の被害に加え機材の老朽化が著しく、旧式の機材の製造停止に伴うスペアパーツ不足と相まって放送に深刻な障害を与えている。当初7ヵ所の中波送信所により人口の約90%をカバーしていたが、現在稼動している中波送信所はプテボ中波送信所とブゴロビ中波送信所の2送信所であるが、ブゴロビ中波送信所の送信機は落雷による被害を受けており、問題なく稼動しているのはプテボ中波送信所のみで、サービスエリアも人口の約25%に縮小している。</p> <p>このような状況下、「ウ」国政府は、全国的なネットワーク構築に最も適した中波による放送網を復旧させることが重要であると、稼動していない5ヵ所の中波送信所のうち、多くの人口をカバーするマワガ中波送信所（中央地域、ムベンデ県）及びケリバ中波送信所（西部地域、カバレ県）の整備ならびにカンパララジオ放送局のスタジオ機材の整備が急務とされていた。</p>
3. プロジェクト全体計画概要
<p>(1) プロジェクト全体計画の目標（裨益対象の範囲及び規模） 中央地域および西部地域で安定した中波放送が再開され、約25%に縮小している中波放送の人口サービスエリアが約77%に回復する。 裨益対象：中央地域住民約725万人および西部地域住民約690万人（新規中波放送サービスの受信）</p> <p>(2) プロジェクト全体計画の成果 ア <u>UBCマワガ中波送信所ならびにケリバ中波送信所の放送システムが整備される。</u> イ <u>UBCカンパラ放送局のスタジオ機材が整備される。</u> ウ UBCの放送サービス体制が整備される。</p> <p>(3) プロジェクト全体計画の主要活動 ア <u>UBCマワガ中波送信所、ケリバ中波送信所およびカンパラ放送局スタジオの整備に必要な資機材を調達する。</u> イ <u>UBCマワガ中波送信所、ケリバ中波送信所およびカンパラ放送局スタジオの保守管理を行う技術スタッフに対し、初期運用指導を実施する。</u>（新規スタッフの採用は必要なし） ウ 上記施設を使用して放送サービスを実施する。</p>

(4) 投入（インプット）				
ア 日本側：無償資金協力 1109 百万円				
イ ウガンダ国側				
必要な人員：187 名（2006 年度末の雇用計画人員）				
建設資機材：送信所用地の確保、アンテナの撤去、フェンスの建設、スタジオ内装の改修等 運営・維持管理費の確保				
(5) 実施体制				
実施機関：ウガンダ放送公社				
主管官庁：情報省				
4. 無償資金協力案件の内容				
(1) サイト				
ウガンダ国ムベンデ県マワガ中波送信所、カバレ県ケリバ中波送信所、カンパラ放送局				
(2) 概要				
マワガおよびケリバ中波送信所へ中波ラジオ放送システム機材の調達				
●	50kW 中波送信機	：各 1 式、計 2 式		
●	50kW ダミーロード	：各 1 式、計 2 式		
●	出力切替器（3 端子 U-リンクパネル）	：各 1 式、計 2 式		
●	番組入力／監視装置	：各 1 式、計 2 式		
●	50kW 中波指向性アンテナシステム	：各 1 式、計 2 式		
●	衛星受信装置	：各 1 式、計 2 式		
●	耐雷装置	：各 1 式、計 2 式		
●	自動電圧調整装置	：各 1 式、計 2 式		
●	絶縁トランス	：各 1 式、計 2 式		
●	非常用発電装置	：各 1 式、計 2 式		
●	空調・換気設備	：各 1 式、計 2 式		
●	測定装置、交換部品等保守用機材	：各 1 式、計 2 式		
カンパラ本部スタジオへスタジオ機材の調達				
●	オンエアスタジオ（レッド、ブルー、プテボ）用機材	：各 1 式、計 3 式		
●	プロダクションスタジオ（D、E、F）用機材	：各 1 式、計 3 式		
●	オーディオテストセット、交換部品等保守用機材	：1 式		
マワガ及びケリバ中波送信所の施設（送信局舎、主及び副同調舎）を含む据付工事				
(3) 相手国側負担事項				
●	マワガおよびケリバ中波送信所内に新設される送信局舎への商用電源の引込み			
●	マワガおよびケリバ中波送信所の既存アンテナ鉄塔の撤去			
●	マワガおよびケリバ中波送信所のフェンス工事等			
(4) 概算事業費：概算事業費 1143 百万円（日本側 1109 百万円、ウガンダ国側 34 百万円）				
(5) 工期：詳細設計・入札期間を含め約 18.0 ヶ月を予定。				
(6) 貧困、ジェンダー、環境及び社会面の配慮：本プロジェクトは貧困層の多い遠隔地において情報へのアクセスが容易となり保健・衛生、教育、農業、社会・公共福祉などの情報や文化・国際情報の入手が可能となり貧困層の生活環境改善の一助となるものである。また聴衆層の属性に合わせてニーズに応えるプログラムが組まれている。				
5. 外部要因リスク				
治安状況が悪化しない。				
6. 過去の類似案件からの教訓の活用				
特になし				
7. プロジェクト全体計画の事後評価に係る提案				
(1) プロジェクト全体計画の目標達成を示す成果指標				
成果指標		年度	2006 年	2009 年
UBC 中波放送サービスの人口カバレッジエリア			25%	77%
マワガ及びケリバ送信所からの中波放送受信可能人口の増加			0	1415 万人
(2) その他の成果指標				
カンパラ放送局ラジオスタジオにおいて機材のトラブルが減少することにより番組が安定的に制作され、システム化された中波放送設備により安定して放送される。				
(3) 評価のタイミング				
2009 年以降（完工後）				

6. 入手資料リスト

調査名 ウガンダ共和国 ラジオ放送網整備計画 基本設計調査

番号	名 称	形態 図書・ビデオ・ 地図・写真等	机ジナル・ 北	発行機関	発行年
1	2006 Statistical Abstract	CDR	机ジナル	Uganda Bureau of Statistics	2006 年
2	The Income Tax Act CAP.340	図書	机ジナル	LDC (Law Development Center)	1997 年
3	Value Added Tax Act CAP.349	図書	机ジナル	LDC (Law Development Center)	1996 年
4	The Managing Taxation in Uganda	図書	机ジナル	LDC (Law Development Center)	2006 年
5	Labour Union Act 2006	図書	机ジナル	LDC (Law Development Center)	2006 年
6	Uganda Districts Information Handbook (Expanded Edition)	図書	机ジナル	Fountain Publishers	2005 年
7	The Uganda (The Pearl in your Palm) 2005-2006	図書	机ジナル	Infopoint Uganda Ltd.	2005 年
8	Primary Social Studies ATRAS for Uganda	図書	机ジナル	Macmillan	2004 年