

## **Chapter 4.**

### **Project Evaluation and Recommendation**



## **Chapter 4. Project Evaluation and Recommendation**

### **4-1 Project Effect**

#### **(1) Project Effect**

- 1) The Government of Yemen, faced with problems such as differentials in levels of education and knowledge among citizens, education for women, lack of public health information and a low literacy rate, etc., has made the utilization of television broadcasting in transmitting information and providing cultural education to citizens an important issue in order to resolve these problems, and its expectations regarding the Project are high.
- 2) The General Corporation for Radio and Television of Yemen, which controls broadcasting in Yemen, carries out television broadcasting from the Sana'a Station (Channel 1) of the former Northern Yemen and the Aden Station (Channel 2) of the former Southern Yemen. Broadcasting equipment at the Sana'a Station was installed as a result of grant aid from Japan in March 1996, and the beneficial effects of this have been highly significant, in specific terms an approximate doubling of broadcasting time to 16 hours per day, an improvement in the quality of broadcast programs, and so on.
- 3) The broadcasting range of the Aden Station covers approximately 60% of the population, however, the General Corporation has made expansion of the Aden Station's broadcasting district to a level similar to that of the Sana'a Station its immediate goal, and it is hoped that the Aden Station can come to serve approximately 12,000,000 viewers.

In view of the above, it is considered appropriate to supply equipment under the grant aid scheme of Japan in order to expand the supply of cultural and educational programs broadcast by the Aden Station.

(2) Beneficial Effect

1) Qualitative improvement and greater variation of broadcast programs can be anticipated

- Implementation of the Project will raise the functions, ease of use and reliability of broadcasting equipment and enable various program production techniques to be utilized.
- The provision of versatile mini OB vans and outdoor shooting equipment that enable live shooting from outdoor sites will make it easier to cover local features and traditional cultures and thus give greater variety to program contents.

2) The quantitative enhancement of broadcast programs will enable broadcast times to be extended

- Through the provision of mini OB vans and outdoor shooting equipment, opportunities for recording program resources will increase and activities of the program production department will become vitalized.

Moreover, through providing cameras for exclusive use by Studio 1, which previously had to share cameras with the large OB van due to a lack of equipment, this restriction will be removed and more time will be made available for program production.

- Furthermore, in line with the expansion in program production, through providing VTR editing systems, program production capacity will be increased.

3) Program exchange between the Sana'a Station and the Aden Station will become easier and mutual cooperation and linkage between the two stations will be strengthened

- In selecting the equipment for supply under the Project, consideration has been given to compatibility with equipment at the Sana'a Station, so the exchange of program resources will be possible.

Also, regarding the master control room, consideration has been given to resource exchange functions by means of program transmission line.

In this way the provision of broadcasting equipment to the Aden Station will not only enhance the broadcasting functions of the said station, but will also lead to the qualitative improvement and quantitative enhancement of television broadcasting by the General Corporation through a synergistic effect in tandem with the Sana'a Station. Moreover, in its efforts to achieve social and economic development, the Government of Yemen will be able to utilize the effective medium of television broadcasting in order to overcome problems such as education and knowledge differentials among citizens, education for women, a lack of public health information and a low literacy rate, etc. and deepen the unified consciousness and mutual understanding between citizens in the north and south of the country.

As a result of the Project, it is considered that links between the Sana'a Station and the Aden Station will be strengthened and the foundations of the General Corporation will be made firmer than ever before.

## **4-2 Recommendation**

### **(1) Recommendation Concerning Operation**

- 1) New VTR equipment at the Aden Station will basically be the digital type, however, the station will also possess analog VTR (consisting of both existing and newly supplied equipment).

Digital VTR operation shall as a rule be adopted at the Aden Station, and it is desirable that the analog video tapes currently in store be immediately replaced with digital video tapes to ensure easier handling.

- 2) Concerning operation, in addition to expanding the broadcasting range of the Aden Station, it is desirable to clarify the division of roles of the Aden and Sana'a Stations regarding programming and program production and establish an efficient broadcasting setup.

### **(2) Recommended Maintenance**

- 1) Attention to the Environment of Equipment Use

Almost all digital equipment is composed of LSI and other forms of integrated circuit chips, but these chips have one drawback in that they are vulnerable to heat. Because the climate in Yemen is characterized by high temperatures and high humidity, it is necessary to pay attention to the environment in which the equipment is used. It is especially necessary to make sure that air conditioning, etc. is sufficient to counter high temperatures. Furthermore, rooms containing VTR, editing equipment and other instruments that do not respond well to dust should be made off limits to people wearing outdoor shoes.

- 2) Life of Broadcasting Materials

The life (number of years) of broadcasting materials varies with their type and is evaluated in various ways according to countries and users; so it is difficult to give a general definition of it.

The life of broadcasting materials are divided into the following two categories.

a) **Mechanical Life**

It is given as a duration of time beyond which the machine cannot satisfy the criteria of maintenance, and defined differently for each of the models.

For example, the life of transmitters exceeds 15 years, but the cameras and VTRs of portable type may suffer severe wastage, and hardly be able to be used longer than ten years.

b) **Short Life due to being Stereotyped**

Most of broadcasting materials at production sites which promptly introduce technical innovations are stereotyped before arriving at their life. In such cases, the life is deemed to be reached when the model of machine in question loses its marketability in cost saving, and no longer benefits from the supply of parts, and is unable to receive any maintenance. Stereotyping of machines varies with the models, but machines and equipment for production of programs have a five to ten years' cycle of stereotyping.

## **Appendices**

- 1. Member List of the Survey Team**
- 2. Survey Schedule**
- 3. List of Parties Concerned in the Republic of Yemen**
- 4. Minutes of Discussions**
- 5. Cost Estimation Borne by the Recipient Country**
- 6. References**



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

### **(1) Basic Design Study**

<b>Masao YOSHIDA</b>	<b>Leader</b> <b>Development Specialist, JICA</b>
<b>Etsuko ISHIBASHI</b>	<b>Project Coordinator</b> <b>General Affairs Division,</b> <b>Institute for International Cooperation, JICA</b>
<b>Hidetoshi MOCHIDA</b>	<b>Technical Adviser</b> <b>Deputy Director, Tariff Division,</b> <b>Communications Bureau,</b> <b>Ministry of Post and Telecommunications</b>
<b>Susumu TOYODA</b>	<b>Chief Consultant</b> <b>International Dept., NHK ITEC</b>
<b>Kazuo TANAKA</b>	<b>Broadcasting Facilities Planner</b> <b>International Dept., NHK ITEC</b>
<b>Seiichi UEDA</b>	<b>Procurement Planner and Cost Estimation</b> <b>International Dept., NHK ITEC</b>
<b>Takashi MIYAGI</b>	<b>Broadcasting Equipment Planner</b> <b>International Dept., NHK ITEC</b>

(2) Explanation of Draft Report

**Masao YOSHIDA**      **Leader**  
**Development Specialist, JICA**

**Hiroshi SHIRAKAWA**   **Project Coordinator**  
**International and Systems Management Division,**  
**General Affairs Dept., JICA**

**Susumu TOYODA**      **Chief Consultant**  
**International Dept., NHK ITEC**

**Kazuo TANAKA**        **Broadcasting Facilities Planner**  
**International Dept., NHK ITEC**

## 2. Survey Schedule

### (1) Basic Design Study

Date		Activities						
		Official Members			Consultant Members			
		Yoshida	Ishibashi	Mochida	Toyoda	Ueda	Tanaka	Miyagi
1	July 12 (Sat)	Lv. Tokyo/Narita, Ar. Amsterdam						
2	13 (Sun)	Lv. Amsterdam, Ar. Sana'a						
3	14 (Mon)	Courtesy call to Embassy of Japan Courtesy call to Ministry of Planning and Development Courtesy call to Ministry of Information Courtesy call to Yemen Geenal Corporation for Radio and Television (Sana'a Station)						
4	15 (Tue)	Explanation of IC/R, Survey and Discussion with Sana'a Station Personnel						
5	16 (Wed)	Lv. Sana'a, Ar. Aden, Courtesy call to Aden Station, Explanation of IC/R						
6	17 (Thu)	Survey and Discussion with Aden Station Personnel						
7	18 (Fri)	Internal Meeting, Survey and Discussion with Aden Station Personnel						
8	19 (Sat)	Survey and Discussion with Aden Station Personnel						
9	20 (Sun)	Discussion on Minutes of Discussion						
10	21 (Mon)	Lv. Aden, Ar. Sana'a, Discussion on Minutes of Discussion				Aden Site Survey		
11	22 (Tue)	Signing of Minutes of Discussion				Aden Site Survey		
12	23 (Wed)	Report to Embassy of Japan, Lv. Sana'a				Aden Site Survey		
13	24 (Thu)	Ar. Amsterdam, Lv. Amsterdam		Sana'a Site Survey		Aden Site Survey		
14	25 (Fri)	Ar. Tokyo/Narita		Arrangement of Collecting Data		Lv. Aden, Ar. Sana'a		
15	26 (Sat)	\		Arrangement of Collecting Data				
16	27 (Sun)			Hearing on the Questionnaire				
17	28 (Mon)			Collection of Complement Data				
18	29 (Tue)			Collection of Complement Data Report to Embassy of Japan				
19	30 (Wed)			Lv. Sana'a				
20	31 (Thu)			Ar. Amsterdam				
21	Aug 1 (Fri)			Lv. Amsterdam				
22	2 (Sat)			Ar. Tokyo/Narita				

(2) Explanation of Draft Report

Date		Activities	
		Leader	Team Members
1	Oct 18 (Sat)	Lv. Tokyo/Narita, Ar. Amsterdam	
2	19 (Sun)	Lv. Amsterdam, Ar. Sana'a	
3	20 (Mon)	Courtesy call to Embassy of Japan Courtesy call to Ministry of Planning and Development Courtesy call to Ministry of Information Courtesy call to Yemen General Cooperation for Radio and Television	
4	21 (Tue)	Explanation and Discussion of Draft Report	
5	22 (Wed)	Explanation and Discussion of Draft Report	
6	23 (Thu)	Explanation and Discussion of Draft Report	
7	24 (Fri)	Internal Meeting	
8	25 (Sat)	Discussion on Minutes of Discussion	
9	26 (Sun)	Signing of Minutes of Discussion, Report to Embassy of Japan, Lv. Sana'a	
10	27 (Mon)	Ar. Frankfurt Lv. Frankfurt Ar. Ankara	Ar. Amsterdam Lv. Amsterdam
11	28 (Tue)		Ar. Tokyo/Narita

### **3. List of Parties Concerned in the Republic of Yemen**

#### **(1) Ministry of Planning and Development**

**Mr. Hesham Sharaf Abdalla**                      **DG of Economic & Technical Cooperation**

#### **(2) Ministry of Information**

**Mr. Abdul Rahman M. Al Akwa'a**              **Minister**  
**Ms. Amat Al-Aleem Assoowa**                **Under Secretary**  
**Mr. Alawi Al Sakkaf**                            **Assistant Under Secretary**

#### **(3) Yemen General Corporation for Radio and Television**

**Mr. Ali Awadh Bamatraf**                      **Chairman of the Board**  
**Mr. Ali Ahmed Ishaq**                          **Vice Chairman of the Board**  
**Mr. Hussein A. Mogbel**                        **Director General**  
**Mr. Mohammed Al-Samman**                 **Head of Engineering Sector**  
**Mr. Mohammed Al-Jureydi**                 **General Director for Public Relation INT'L**  
**Mr. Nagib Mohammed Hussain**             **Director General for Chairman Office**

#### **Channel I Sector**

**Mr. Ali Ali AL-Mobannen**                      **Director General of TV Channel 1**  
**Mr. Yahya Sowari**                              **General Director (Sana'a)**  
**Mr. Ahamad T. Al-Shaiani**                    **General Manager of TV Program (Sana'a)**  
**Mr. Yahay Sowari**                              **Chief Engineer (Sana'a)**  
**Mr. Al-Kibsi Hussain**                         **General Director of TV Program (Sana'a)**  
**Mr. Ahmed Salem Sheba**                    **General Director of Engineering (Sana'a)**  
**Mr. Ali Al-Kobati**                              **Studio Director (Sana'a)**  
**Mr. Ahmed Al-Shaiba**                         **Vice Chairman of Engineering Director**  
**Mr. Mohammed Salem**                       **Director of TV Engineer (Sana'a)**

Channel 2 Sector

Mr. Abdul-Ghani Naser Al-Shamecri	Director General of Radio & TV Aden Branch
Mr. Yasr Am Matar	Head of TV Sector Ch 2 (Aden)
Mr. Gamil Mohamed	Head of Radio Sector Ch 2 (Aden)
Mr. Mohamed Ghanem	General Director of TV Engineering (Aden)
Mr. Mohsen Yaslem	Director General of Prgrams (Aden)
Mr. Hamed Mohd Ahmed	Engineering Adviser (Aden)
Mr. Abdul Hafeedh Mukred	Engineer (Aden)

(4) Embassy of Japan

Mr. Akira Hoshi	Ambassador Extraordinary and Plenipotentiary
Mr. Masataka Ishida	Counsellor
Mr. Hideaki Yamamoto	Second Secretary
Mr. Atsuo Kishida	Administrative Officer
Mr. Abdulrehman Thabet Al-Faqueh	Senior Assistant

#### **4. Minutes of Discussions**





4. Minutes of Discussions

(1) Basic Design Study

MINUTES OF DISCUSSIONS  
BASIC DESIGN STUDY ON THE PROJECT  
FOR  
UPGRADING OF EDUCATIONAL BROADCASTING EQUIPMENT IN ADEN STUDIO  
IN  
REPUBLIC OF YEMEN


In response to a request from the Government of Republic of Yemen, the Government of Japan decided to conduct a Basic Design Study on the Project for Upgrading of Educational Broadcasting Equipment in Aden Studio (hereinafter referred to as "the Project") and entrusted the study to the Japan International Cooperation Agency (hereinafter referred to as "JICA").

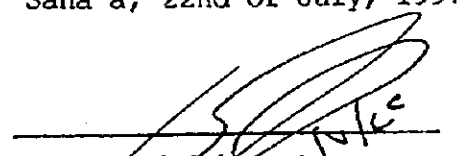
JICA sent to Yemen a study team, which is headed by Mr. Masao YOSHIDA, Education Media Development Specialist, JICA and is scheduled to stay in the country from 14<sup>th</sup> to 30<sup>th</sup> of July, 1997.

The team held a series of discussions with the relevant officials of Yemen and conducted a field survey at the study area. As a result of discussions and field survey, both sides have confirmed the main items described in the attached sheets.

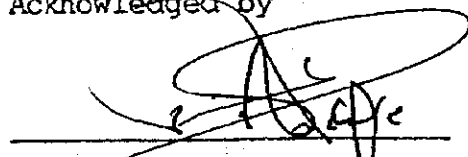
The team will proceed to further works and prepare the Basic Design Study report.

Sana'a, 22nd of July, 1997

  
\_\_\_\_\_  
Masao Yoshida  
Leader  
Basic Design Study Team  
JICA

  
\_\_\_\_\_  
Ali Ahmed Ishaq  
Vice Chairman of the Board  
Yemen General Corporation  
for Radio and Television

Acknowledged by

  
\_\_\_\_\_  
Hisham Sharaf Abdalla  
Director General  
Economic and Technical Cooperation  
Ministry of Planning and Development

## ATTACHMENT

### 1. OBJECTIVE

The objective of the Project is to enable the Aden Broadcasting Station to formulate the same high quality TV programs as the Sana'a Broadcasting Station, focusing on its educational programs, by rehabilitating or upgrading its broadcasting equipment.

### 2. PROJECT SITE

The project site is the existing studio building of Aden Broadcasting Station shown in ANNEX - I.


### 3. EXECUTING AGENCY

Yemen General Corporation for Radio and Television is the responsible organization for the administration and execution of the Project.

### 4. ITEMS REQUESTED BY THE GOVERNMENT OF YEMEN

As a result of the series of discussions, the following items were finally requested by the Yemeni side.

- (1) Studio-1 Equipment
- (2) Studio-2 Lighting Equipment
- (3) Studio-3 Equipment
- (4) Editing System
- (5) Master Control Room System
- (6) Outdoor Shooting System
- (7) Small OB-VAN Equipment
- (8) Large OB-VAN Equipment
- (9) Measurement Equipment
- (10) Computer Graphics
- (11) Mini OB-VAN System
- (12) Microwave Link



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Schematic diagram of the Project is shown in ANNEX-II, and the detail items are shown in ANNEX-III, based on "the List of Equipment" requested by the Yemeni side.

However, the final components of the Project will be decided after further studies.

#### 5. JAPAN'S GRANT AID SYSTEM

The Yemeni side has understood the system of Japan's Grant Aid explained in ANNEX-IV.

#### 6. NECESSARY MEASURES TO BE TAKEN BY THE YEMENI SIDE

The Yemeni side will take necessary measures described in ANNEX-V for smooth implementation of the Project on condition that the Grant Aid by the Government of Japan is extended to the Project.

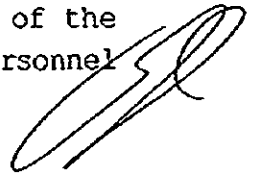
#### 7. THE SCHEDULE OF THE STUDY

- (1) The consultants will proceed to further studies in Yemen until 30<sup>th</sup> of July, 1997.
- (2) Based on the results, JICA will prepare the Draft Basic Design Report in English and dispatch a team in the middle of September 1997 in order to explain and confirm the contents.
- (3) In case that the contents of the report is accepted in principle by the Government of Yemen, JICA will complete the Basic Design Report and forward it to the Yemeni side by the end of November, 1997.

#### 8. TECHNICAL COOPERATION

The Yemeni side requested the Japanese side to allocate training courses in Japan for operation and maintenance of the equipment as well as program production to counterpart personnel of the Project.

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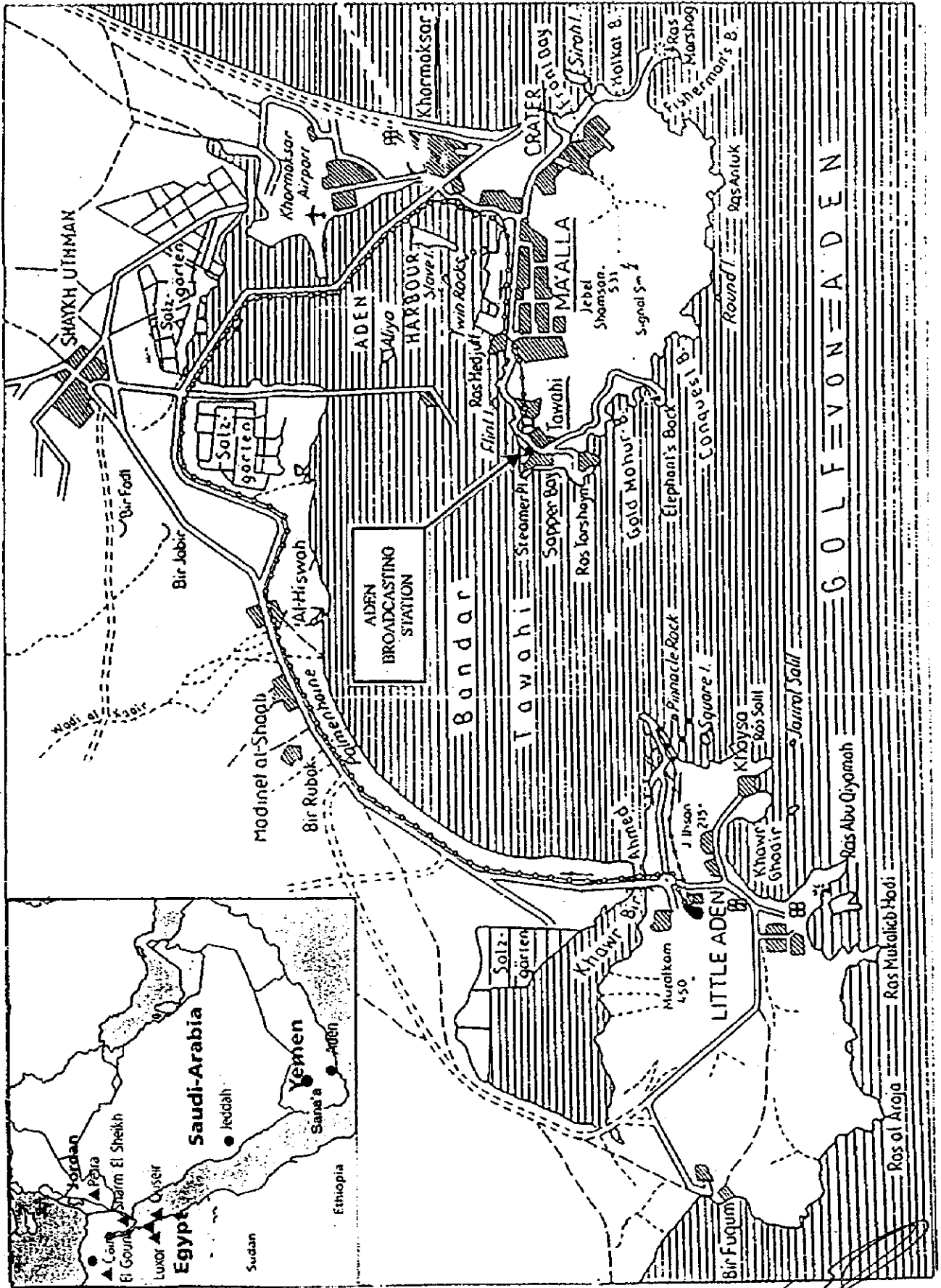


9. OTHER RELEVANT ISSUES

- (1) The Yemeni side shall provide all necessary information and data in case that the Basic Design Team requests.
- (2) The Yemeni side will take all possible measures to secure the safety of the team during the field survey.

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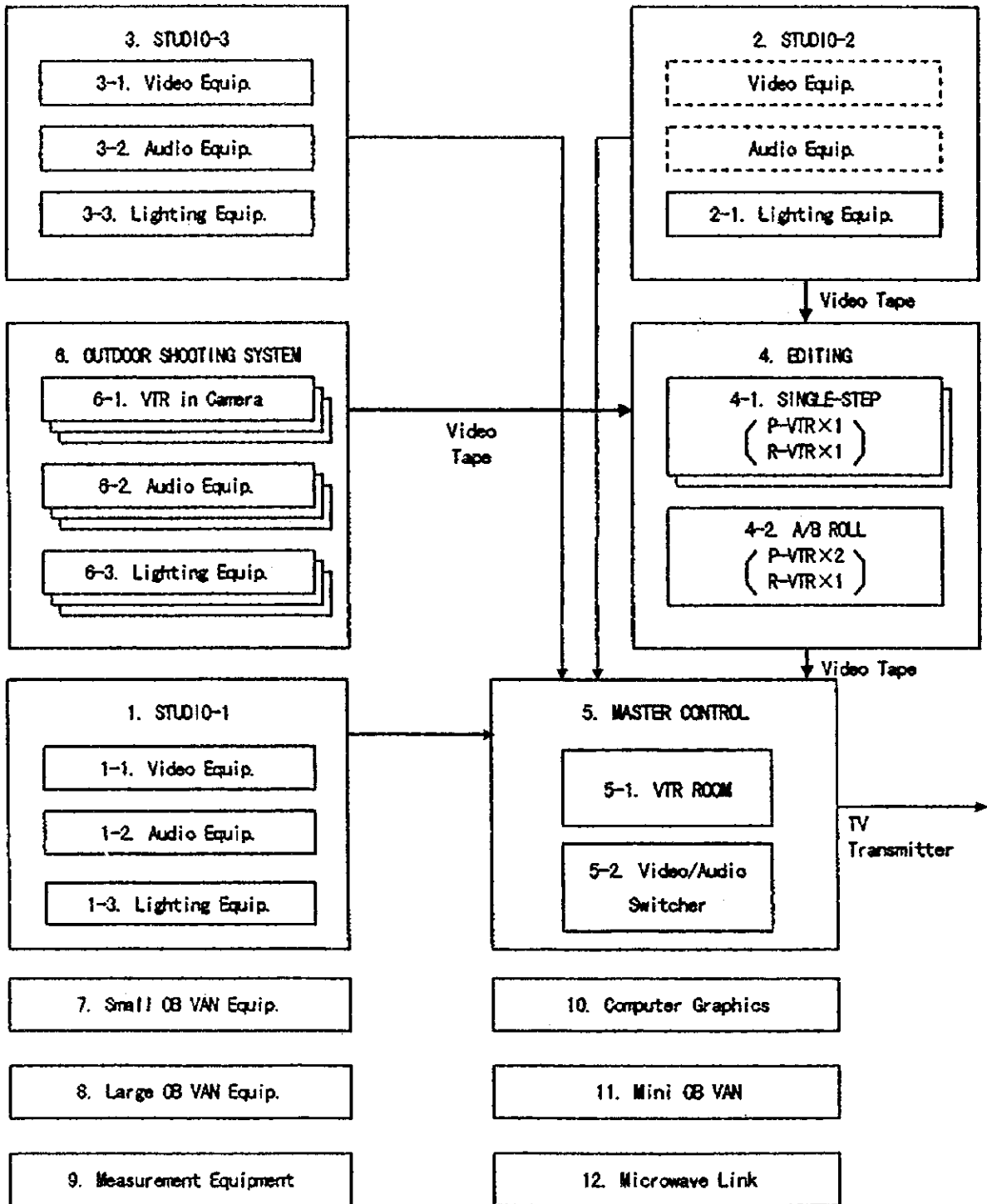




THE PROJECT SITE MAP

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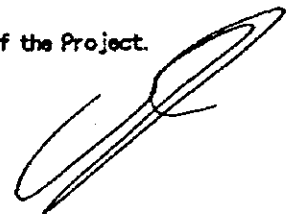
A schematic diagram of the Project is shown below.



Dotted line (--) : Existing equipment to be used continuously after the completion of the Project.

SCHMATIC DIAGRAM OF THE PROJECT

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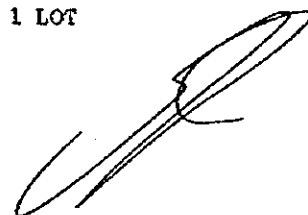


## ITEMS REQUESTED BY THE GOVERNMENT OF YEMEN

ITEM	Q'ty	PRIORITY
1. STUDIO-1 (166m <sup>2</sup> )		
<u>1-1. VIDEO EQUIPMENT</u>	1 SET	A
1-1-1. COLOR CAMERA CHAIN	3 SETS	
1-1-2. PEDESTAL WITH MOUNTING HEAD AND DOLLY	3 SETS	
1-1-3. VIDEO SWITCHER	1 SET	
1-1-4. DIGITAL VIDEO EFFECTOR	1 SET	
1-1-5. 1/2" VCRS (RECORDER/PLAYER)	2 SETS	
1-1-6. CHARACTER GENERATOR (ARABIC/ENGLISH)	1 SET	
1-1-7. SIGNAL GENERATOR	1 SET	
1-1-8. VIDEO MONITORING EQUIPMENT	1 SET	
1-1-9. VIDEO AND PULSE DISTRIBUTION AMPLIFIER	1 SET	
<u>1-2. AUDIO EQUIPMENT</u>	1 SET	A
1-2-1. AUDIO EQUIPMENT	1 SET	
1-2-2. PRODUCTION INTERCOM UNIT	1 SET	
<u>1-3. LIGHTING EQUIPMENT</u>	1 SET	A
1-3-1. FIXED CYC PIPE AND I-BEAM RAIL SYSTEM	1 SET	
1-3-2. LIGHTING CONTROL SYSTEM	1 SET	
1-3-3. LIGHTING EQUIPMENT	1 LOT	
1-3-4. ACCESSORIES	1 SET	
1-3-5. LAMPS	1 LOT	
1-3-6. WIRING AND INSTALLATION EQUIPMENT	1 LOT	
1-3-7. CURTAIN SYSTEM	1 SET	
1-3-8. EFFECT PROJECTION SYSTEM	2 SETS	
<u>1-4. OTHERS</u>	1 LOT	A
1-4-1. CONTROL CONSOLE	1 LOT	
1-4-2. AUDIO DISTRIBUTION AMP	1 LOT	
1-4-3. 19-INCH SYSTEM RACK	2 SETS	
1-4-4. INSTALLATION MATERIALS	1 LOT	

Note A: First Priority (Strongly Requested)  
 B: Second Priority (Requested)  
 C: Third Priority (Requested, if possible)

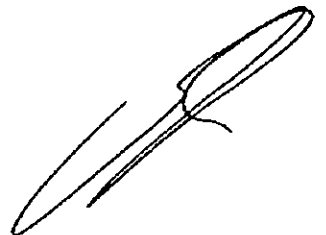
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ITEM	Q'ty	PRIORITY
2. STUDIO-2 (50m <sup>2</sup> )		
2-1. LIGHTING EQUIPMENT	1 SET	A
2-1-1. FIXED CYC PIPE AND I-BEAM RAIL SYSTEM	1 SET	
2-1-2. LIGHTING CONTROL SYSTEM	1 SET	
2-1-3. LIGHTING EQUIPMENT	1 LOT	
2-1-4. ACCESSORIES	1 SET	
2-1-5. LAMPS	1 LOT	
2-1-6. WIRING AND INSTALLATION EQUIPMENT	1 LOT	
2-1-7. CURTAIN SYSTEM	1 SET	

Note     A: First Priority (Strongly Requested)  
            B: Second Priority (Requested)  
            C: Third Priority (Requested, if possible)

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ITEM	Q'ty	PRIORITY
3. STUDIO-3 (33m <sup>2</sup> )		
<u>3-1. VIDEO EQUIPMENT</u>	1 SET	A
3-1-1. COLOR CAMERA CHAIN	2 SETS	
3-1-2. PEDESTAL WITH MOUNTING HEAD AND DOLLY	2 SETS	
3-1-3. VIDEO SWITCHER	1 SET	
3-1-4. DIGITAL VIDEO EFFECTOR	1 SET	
3-1-5. 1/2 " VCRS	2 SETS	
3-1-6. CHARACTER GENERATOR	1 SET	
3-1-7. TELE PROMPTER	1 SET	
3-1-8. SIGNAL GENERATOR	1 SET	
3-1-9. VIDEO MONITORING EQUIPMENT	1 SET	
3-1-10. VIDEO AND PULSE DISTRIBUTION AMPLIFIER	1 SET	
<u>3-2. AUDIO EQUIPMENT</u>	1 SET	A
3-2-1. AUDIO EQUIPMENT	1 SET	
3-2-2. PRODUCTION INTERCOM UNIT	1 SET	
<u>3-3. LIGHTING EQUIPMENT</u>	1 SET	A
3-3-1. FIXED CYC PIPE AND I-BEAM RAIL SYSTEM	1 SET	
3-3-2. LIGHTING EQUIPMENT	1 LOT	
3-3-3. ACCESSORIES	1 SET	
3-3-4. LAMPS	1 LOT	
3-3-5. WIRING AND INSTALLATION EQUIPMENT	1 LOT	
3-3-6. CURTAIN SYSTEM	1 SET	
<u>3-4. OTHERS</u>	1 LOT	A
3-4-1. CONTROL CONSOLE	1 LOT	
3-4-2. AUDIO DISTRIBUTION AMP	1 LOT	
3-4-3. 19-INCH SYSTEM RACK	2 SETS	
3-4-4. INSTALLATION MATERIALS	1 LOT	

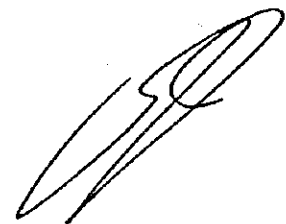
Note A: First Priority (Strongly Requested)  
 B: Second Priority (Requested)  
 C: Third Priority (Requested, if possible)

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ITEM	Q'ty	PRIORITY
4. EDITING SYSTEM		
4-1. <u>SINGLE STEP EDITING SYSTEM</u>	2 SETS	A
4-2. <u>A/B ROLL EDITING SYSTEM</u>	1 SET	A

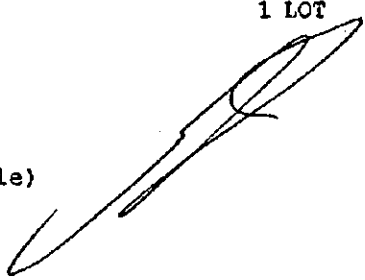
Note    A: First Priority (Strongly Requested)  
           B: Second Priority (Requested)  
           C: Third Priority (Requested, if possible)

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ITEM	Q'ty	PRIORITY
5. MASTER CONTROL ROOM		
<u>5-1. VTR ROOM</u>	1 SET	
5-1-1. BETACAM STUDIO EDITING VTR PAL	4 SETS	A
5-1-2. UMATIC VIDEO SWITCHER PAL	2 SETS	A
5-1-3. 1-INCH VTR PAL	1 SET	C
<u>5-2. VIDEO/AUDIO SWITCHER</u>	1 SET	A
5-2-1. MATRIX SWITCHER 16x16	1 SET	
5-2-2. MASTER SWITCHER	1 SET	
5-2-3. SIGNAL GENERATOR	1 SET	
5-2-4. FRAME SYNCHRONIZER	1 SET	
5-2-5. STATION LOGO GENERATOR	1 SET	
5-2-6. VIDEO TIMER	1 SET	
5-2-7. CLOCK SYSTEM	1 SET	
5-2-8. ROOM TO ROOM COMMUNICATION SYSTEM	1 SET	
5-2-9. TV COMMUNITY RECEIVING SYSTEM	1 SET	
5-2-10. TV SYSTEM CONVERTER	1 SET	
<u>5-3. OTHERS</u>	1 LOT	A

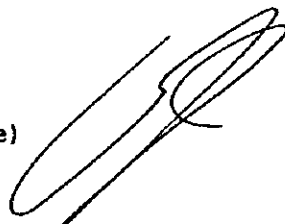
Note      A: First Priority (Strongly Requested)  
              B: Second Priority (Requested)  
              C: Third Priority (Requested, if possible)



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ITEM	Q'ty	PRIORITY
6. OUTDOOR SHOOTING SYSTEM		
<u>6-1. VTR IN CAMERA</u>	3 SETS	A
6-1-1. DIGITAL SIGNAL PROCESSING CAMERA	3 SETS	
6-1-2. BETACAM RECORDER UNIT	3 SETS	
<u>6-2. AUDIO EQUIPMENT</u>	3 SETS	A
6-2-1. PROFESSIONAL PORTABLE AUDIO MIXER	3 SETS	
6-2-2. PORTABLE STEREO CASSETTE	3 SETS	
6-2-3. ELECTRIC CONDENSER MIC	3 PCS	
<u>6-3. LIGHTING EQUIPMENT</u>	3 SETS	A

Note     A: First Priority (Strongly Requested)  
            B: Second Priority (Requested)  
            C: Third Priority (Requested, if possible)




ITEM	Q'ty	PRIORITY
<b>7. SMALL OB-VAN EQUIPMENT</b>		
<u>7-1. VIDEO EQUIPMENT</u>	1 SET	B
7-1-1. CAMERA ACCESSORY	1 SET	
7-1-2. VIDEO PRODUCTION SWITCHER/EFFECTOR	1 SET	
7-1-3. 1/2" VTR EQUIPMENT	2 SETS	
7-1-4. VIDEO MONITOR	1 SET	
<u>7-2. AUDIO EQUIPMENT</u>	1 SET	B
7-2-1. AUDIO MIXER	1 SET	
7-2-2. MICROPHONE & STAND	1 LOT	
7-2-3. AUDIO MONITOR EQUIPMENT	1 SET	
7-2-4. COMPACT CASSETTE TAPE RECORDER	1 SET	
<u>7-3. LIGHTING EQUIPMENT</u>	1 LOT	B
<u>7-4. OTHERS</u>	1 SET	B
7-4-1. SYNC SIGNAL-GENE/VDA/ADA	1 SET	
7-4-2. INTERCOM EQUIPMENT	1 SET	
7-4-3. SYSTEM RACK	1 LOT	
7-4-4. INSTALLATION MATERIALS	1 LOT	

Note      A: First Priority (Strongly Requested)  
              B: Second Priority (Requested)  
              C: Third Priority (Requested, if possible)

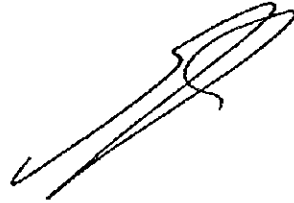
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ITEM	Q'ty	PRIORITY
8. LARGE OB-VAN EQUIPMENT		
<u>8-1. VIDEO EQUIPMENT</u>	1 SET	B
8-1-1. BETACAM STUDIO EDITING VTR PAL	2 SETS	
8-1-2. COLOR VIDEO MONITOR	3 SETS	
<u>8-2. AUDIO EQUIPMENT</u>	1 SET	B
8-2-1. AUDIO MIXER	1 SET	
8-2-2. MICROPHONE & STAND	1 LOT	
8-2-3. CASSETTE TAPE RECORDER	1 SET	
8-2-4. COMPACT DISK PLAYER	1 SET	
8-2-5. 19-INCH SYSTEM RACK	1 SET	
8-2-6. INSTALLATION MATERIALS	1 LOT	

Note A: First Priority (Strongly Requested)  
 B: Second Priority (Requested)  
 C: Third Priority (Requested, if possible)

ITEM	Q'ty	PRIORITY
9. MEASUREMENT EQUIPMENT	1 LOT	B
10. COMPUTER GRAPHICS	1 SET	C

Note    A: First Priority (Strongly Requested)  
          B: Second Priority (Requested)  
          C: Third Priority (Requested, if possible)




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ITEM	Q'ty	PRIORITY
11. MINI OB-VAN	1 SET	
<u>11-1. VIDEO EQUIPMENT</u>	1 SET	A
11-1-1. PORTABLE COLOR CAMERA	2 SETS	
11-1-2. CAMERA ACCESSORY	1 SET	
11-1-3. VIDEO PRODUCTION SWITCHER/EFFECTOR	1 SET	
11-1-4. 1/2" VTR EQUIPMENT	2 SETS	
11-1-5. SYNC SIGNAL-GENE/VDA/ADA	1 SET	
11-1-6. VIDEO MONITOR	1 SET	
<u>11-2. AUDIO EQUIPMENT</u>	1 SET	A
11-2-1. AUDIO MIXER	1 SET	
11-2-2. MICROPHONE & STAND	1 LOT	
11-2-3. AUDIO MONITOR EQUIPMENT	1 SET	
11-2-4. COMPACT CASSETTE TAPE RECORDER	1 SET	
11-2-5. INTERCOM EQUIPMENT	1 SET	
<u>11-3. LIGHTING EQUIPMENT</u>	1 LOT	A
<u>11-4. OTHERS</u>	1 SET	A
11-4-1. COMMUNICATION EQUIPMENT	1 SET	
11-4-2. SYSTEM RACK	1 LOT	
11-4-3. INSTALLATION MATERIALS	1 LOT	
<u>11-5. VEHICLE</u>	1 SET	A
11-5-1. MAIN BODY	1 SET	
11-5-2. AIR CONDITIONER	1 SET	
11-5-3. ENGINE GENERATOR	1 SET	
11-5-4. ACCESSORIES	1 LOT	

Note A: First Priority (Strongly Requested)  
 B: Second Priority (Requested)  
 C: Third Priority (Requested, if possible)

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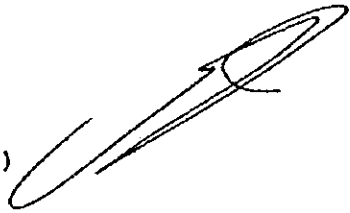




ITEM	Q'ty	PRIORITY
12. MICROWAVE LINK	1 PAIR	A
12-1. TRANSMITTING ANTENNA	1 SET	
12-2. RECEIVING ANTENNA	1 SET	
12-3. TRANSMITTER	1 SET	
12-4. RECEIVER	1 SET	

Note    A: First Priority (Strongly Requested)  
           B: Second Priority (Requested)  
           C: Third Priority (Requested, if possible)

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## 5. Japan's Grant Aid

### 5-1 Japan's Grant Aid System

#### (1) Grant Aid Procedures

- 1) Japan's Grant Aid Program is executed through the following procedures.

Application (request made by a recipient country)

Study (Basic Design Study conducted by JICA)

Appraisal & Approval (Appraisal by the Government of Japan and Approval by Cabinet)

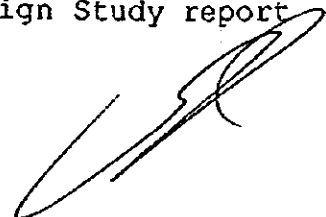
Determination of Implementation (The notes exchanged between the Government of Japan and the recipient country)

- 2) Firstly, the application or request for a Grant Aid project submitted by a recipient country is examined by the Government of Japan (the Ministry of Foreign Affairs) to determine whether or not it is eligible for Grant Aid. If the request is deemed appropriate, the Government of Japan will assign JICA (Japan International Cooperation Agency) to conduct a study on the request.

Secondary, JICA conducts the study (Basic Design Study), using (a) Japanese consulting firm(s).

Thirdly, the Government of Japan appraises the Project to see whether or not it is suitable for Japan's Grant Aid Program, based on the Basic Design Study report

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prepared by JICA, and the results are then submitted to the Cabinet for approval.

Fourthly, the Project, once approved by the Cabinet, becomes official with the Exchange of Notes signed by the Government of Japan and the recipient country.

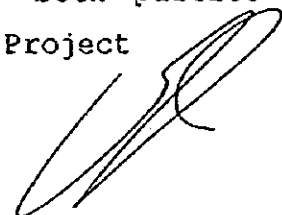
Finally, for the implementation of the Project, JICA assists the recipient country in such matters as preparing tenders, contracts and so on.

## (2) Basic Design Study

### 1) Contents of the Study

The aim of the Basic Design Study (hereinafter referred to as "the Study"), conducted by JICA on a project requested (hereafter referred to as "the Project") is to provide a basic document necessary for the appraisal of the Project by the Government of Japan. The contents of the Study are as follows:

- a) Confirmation of the background, objectives, and benefits of the Project and also institutional capacity of agencies concerned of the recipient country necessary for the Project's implementation
- b) Evaluation of the appropriateness of the Project to be implemented under the Grant Aid Scheme from a technical, social and economic point of view
- c) Confirmation of items agreed on by both parties concerning the basic concept of the Project



d) Preparation of a basic design of the Project

e) Estimation of costs of 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.

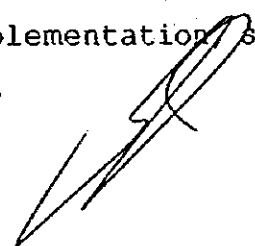
The Government of Japan requests the Government of the recipient country to take whatever measures are necessary to ensure its self-reliance in the implementation of the Project. Such measures must be guaranteed even though they may fall outside of the jurisdiction of the organization in the recipient 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) Selection of Consultants

For smooth implementation of the Study, JICA uses (a) registered consultant firm(s). JICA select (a) firm(s) based on proposals submitted by interested firms. The firm(s) selected carry(ies) out a Basic Design Study and write(s) a report, based upon terms of reference set by JICA.

The consulting firm(s) used for the Study is(are) recommended by JICA to the recipient country to also work on the Project's implementation after the Exchange of Notes, in order to maintain technical consistency and also to avoid any undue delay in implementation should the selection process be repeated.

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### (3) Japan's Grant Aid Scheme

#### 1) What is Grant Aid?

The Grant Aid Program provides a recipient country with non-reimbursable funds to procure the facilities, equipment and services (engineering services and transportation of the products, etc.) for economic and social development of the country under principles in accordance with the relevant laws and regulations of Japan. Grant Aid is not supplied through the donation of materials as such.

#### 2) Exchange of Notes (E/N)

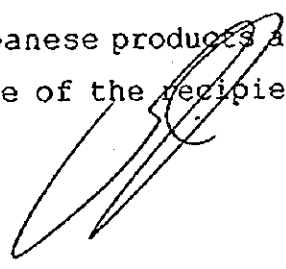
Japan's Grant Aid is extended in accordance with the Notes exchanged by the two Governments concerned, in which the objectives of the Project, period of execution, conditions and amount of the Grant Aid, etc., are confirmed.

#### 3) "The period of the Grant Aid" means the one fiscal year which the Cabinet approves the Project for. Within the fiscal year, all procedures such as exchanging of the Notes, concluding contracts with (a) consultant firm(s) and (a) contractor(s) and 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 one fiscal year at most by mutual agreement between the two Governments.

#### 4) Under the Grant Aid, in principle, Japanese products and services including transport or those of the recipient

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country are to be purchased.

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

However the prime contractors, namely, consulting, constructing and procurement firms, are limited to "Japanese nationals". (The term "Japanese nationals" means persons of Japanese nationality or Japanese corporations controlled by persons of Japanese nationality.)

5) Necessity of "Verification"

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

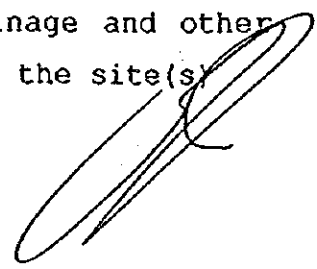
6) Undertakings required of the Government of the Recipient Country

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

a) To secure land necessary for the site(s) of the Project and to clear, level and reclaim the land prior to commencement of the construction

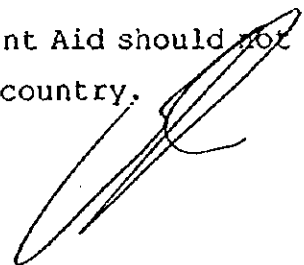
b) To provide facilities for the distribution of electricity, water supply and drainage and other incidental facilities in and around the site(s)

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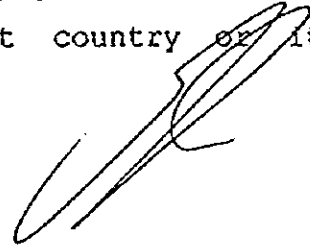
- c) To secure buildings prior to the procurement in case the installation of the equipment
- d) To ensure prompt execution for unloading, customs clearance at the port of disembarkation and internal transportation of the products purchased under the Grant Aid
- e) To exempt Japanese nationals from customs 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
- g) "Proper Use"  
The recipient country is required to maintain and use the facilities constructed and equipment purchased under the Grant Aid properly and effectively, and to assign staff necessary for this operation and maintenance as well as to bear all the expenses other than those covered by the Grant Aid.
- h) "Re-export"  
The products purchased under the Grant Aid should not be re-exported from the recipient country.

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i) Banking Arrangements (B/A)

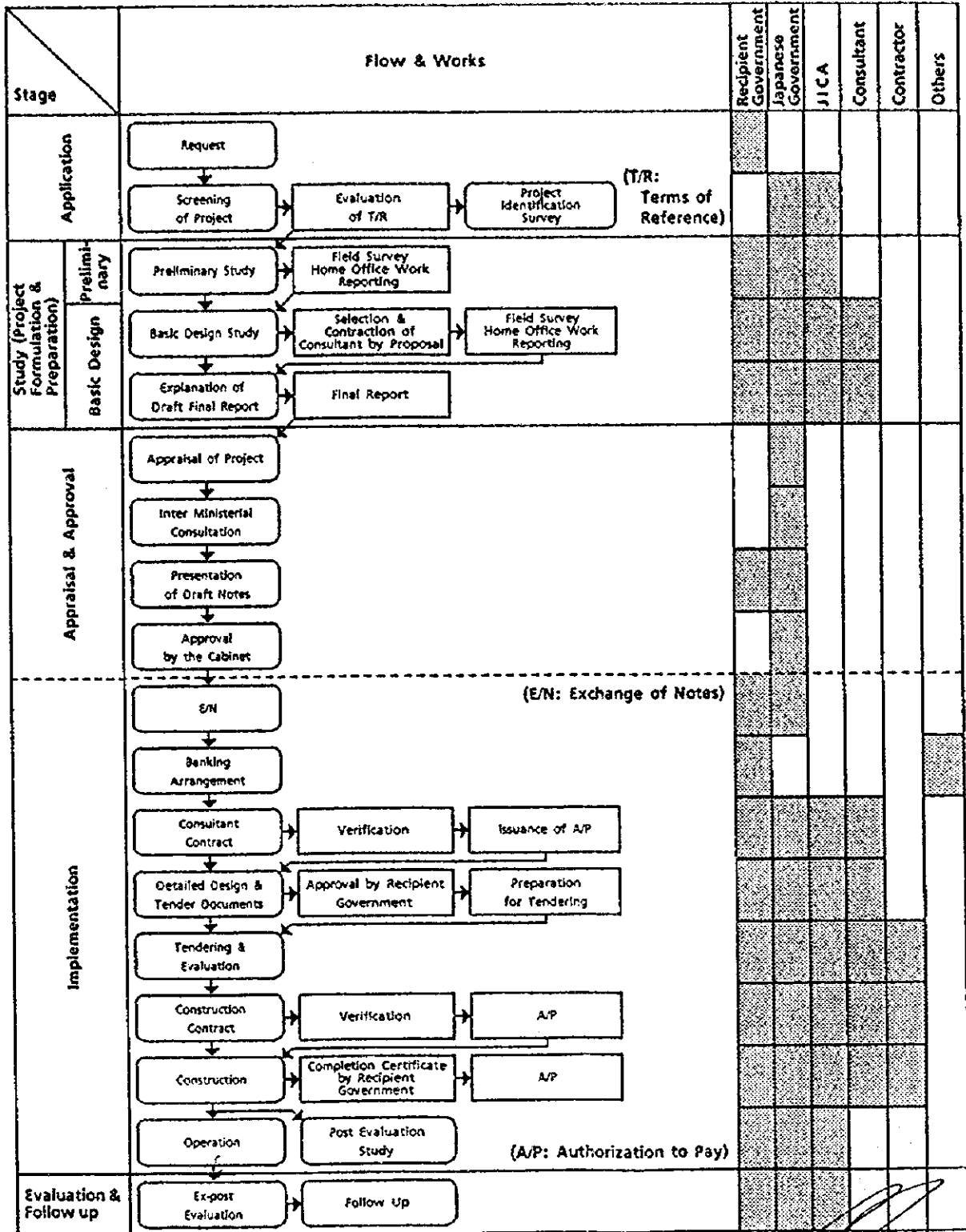
- a. The Government of the recipient country or its designated authority should open an account in the name of the Government of the recipient country in an authorized foreign exchange bank of Japan (hereinafter referred to as "the Bank"). The Government of Japan will execute the Grant Aid by making payments in Japanese yen to cover the obligations incurred by the Government of the recipient country or its designated authority under the Verified Contracts.
  
- 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.

A handwritten signature in black ink, consisting of several overlapping loops and a long horizontal stroke at the bottom.A handwritten signature in black ink, appearing to be the letters 'my' written in a cursive style.



## 5-2 Grant Aid Procedures

Flow Chart of Japan's Grant Aid Procedures



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## Major Undertakings to be taken by Each Government

No.	Items	To be covered by Grant Aid	To be covered by Recipient Side
1.	To secure land		●
2.	To clear, level and reclaim the site when needed		●
3.	To construct gates and fences in and around the site		●
4.	To construct the parking lot	●	
5.	To construct roads		
	1) Within the site	●	
	2) Outside the site		●
6.	To construct the buildings	●	
7.	To provide facilities for the distribution of electricity, water supply, drainage and other incidental facilities		
	1) Electricity		
	a. The distributing line to the site		●
	b. The drop wiring and internal wiring within the site	●	
	c. The main circuit breaker and transformer	●	
	2) Water Supply		
	a. The city water distribution main to the site		●
	b. The supply system within the site (receiving and elevated tanks)	●	
	3) Drainage		
	a. The city drainage main (for storm, sewer and others) to the site		●
	b. The drainage system (for toilet sewer, ordinary waste, storm drainage and others) within the site	●	
	4) Gas Supply		
	a. The city gas main to the site		●
	b. The gas supply system within the site	●	
	5) Telephone System		
	a. The telephone trunk line to the main distribution frame/panel (MDF) of the building		●
	b. The MDF and the extension after the frame/panel	●	
	6) Furniture and Equipment		
	a. General furniture		●
	b. Project equipment	●	
8.	To bear the following commissions to the Japanese foreign exchange bank for the banking services based upon the S/A		
	1) Advising commission of A/P		●
	2) Payment commission		●
9.	To ensure unloading and customs clearance at port of disembarkation in recipient country		
	1) Marine (Air) transportation of the products from Japan to the recipient country	●	
	2) Tax exemption and custom clearance of the products at the port of disembarkation		●
	3) Internal transportation from the port of disembarkation to the project site	●	
10.	To accord Japanese nationals whose services may be required in connection with the supply of the products and the services under the verified contract such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work.		●
11.	To exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which may be imposed in the recipient country with respect to the supply of the products and services under the verified contracts.		●
12.	To maintain and use properly and effectively the facilities constructed and equipment provided under the Grant.		●
13.	To bear all the expenses, other than those to be borne by the Grant, necessary for construction of the facilities as well as for the transportation and installation of the equipment.		●

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(2) Explanation of Draft Basic Design

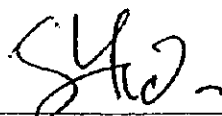
**MINUTES OF DISCUSSIONS  
BASIC DESIGN STUDY ON THE PROJECT  
FOR  
UPGRADING OF EDUCATIONAL BROADCASTING EQUIPMENT  
IN ADEN STUDIO  
IN  
REPUBLIC OF YEMEN**

In July 1997, the Japan International Cooperation Agency (hereinafter referred to as "JICA") dispatched a basic design study team on the Project for Upgrading of Educational Broadcasting Equipment in Aden Studio (hereinafter referred to as "the Project") to the Republic of Yemen, and through discussions and field survey in Yemen, and technical examination of the result in Japan, has prepared the draft report of the study.

In order to explain and to consult the Republic of Yemen on the components of the draft report, JICA sent to the Republic of Yemen a study team, which is headed by Mr. Masao Yoshida, Education Media Development Specialist, JICA and stayed in the country from October 20<sup>th</sup> to 26<sup>th</sup> of October, 1997.

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

Sana'a, 26<sup>th</sup> of October, 1997

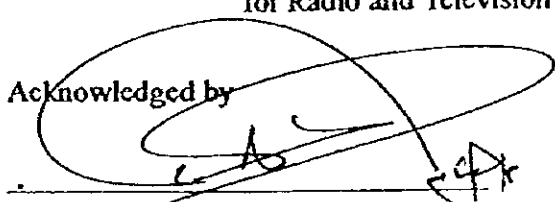


Mr. Masao Yoshida  
Leader  
Basic Design Study Team  
JICA



Mr. Ali Awadh Bamatraf  
Chairman of the Board  
Yemen General Corporation  
for Radio and Television

Acknowledged by



Mr. Hesham Sharaf Abdullah  
Director General  
Economic and Technical Cooperation  
Ministry of Planning and Development

## ATTACHMENT

### 1. Components of Draft Report

The Government of Republic of Yemen has agreed and accepted in principle the components of the draft report proposed by the team. The Yemeni side strongly requested to revise part of the proposed equipment plan. The revised one is described in ANNEX- I .

### 2. Japan's Grant Aid System

The Government of Republic of Yemen has understood the system of Japan's Grant Aid explained in ANNEX- II .

### 3. Necessary Measures to be Taken by the Government of Republic of Yemen

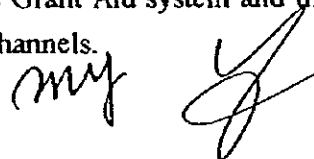
The Government of Republic of Yemen will take necessary measures described in ANNEX-III for smooth implementation of the Project on condition that the Grant Aid by the Government of Japan is extended to the Project.

### 4. Further Schedule

The team will make the final report in accordance with the confirmed items, and send it to the Government of Republic of Yemen by the end of January 1998.

### 5. Technical Cooperation

The Government of Republic of Yemen pointed out the need for dispatch of Japanese experts as well as technical training of counterpart personnel in Japan. The Government also understood that technical cooperation cannot be requested in the Grant Aid system and that another official request should be submitted through diplomatic channels.



## Annex I

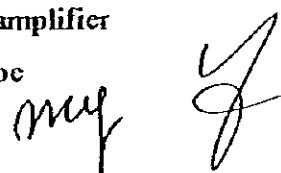
### I Revised Equipment Plan

The outline of the main equipment list and specifications are as follows;

#### 1. Studio 1 (166m<sup>2</sup>)

- |   |              |  |
|---|--------------|--|
| 1) Color camera                         | 3 sets       | 3-FIT CCD digital processing camera, with 5" viewfinder, Zoom lens more than 14 times 20m, 50m cameracable |
| 2) Pedestal                             | 3 sets       |  |
| 3) Video production switcher            | 1 set        | Digital switcher 12-inputs, 2M/K   |
| 4) Digital video effect                 | 1 set        | 3 dimension  |
| 5) 1/2 inch VTR                         | 2 sets       | <u>Digital play/rec.</u> with monitor  |
| 6) Character generator                  | <u>1 set</u> | English and Arabic   |
| 7) Sync. pulse generator                | 1 set        |  |
| 8) Monitoring equipment                 |              |  |
| a) Waveform monitor                     | 1 set        |  |
| b) Vector scope                         | 1 set        |  |
| c) 14 inch color master monitor         | 1 set        | Precision type   |
| d) 14 inch color monitor                | 10 sets      |  |
| e) 20 inch color monitor                | 2 sets       |  |
| f) 21 inch color monitor                | 2 sets       | With carts   |
| g) 21 inch television receiver          | 1 set        |  |
| 9) Monitor shelf                        | 1 set        |  |
| 10) Video, sync. distribution amplifier | 1 set        | Necessary amount of amplifiers for making up system to be included   |
| 11) Video equipment rack                | 1 set        | Including jack panel and internal wiring   |
| 12) Video operation console             | 1 set        |  |
| 13) Audio operation console             | 1 set        | For 22 inputs existing audio mixer   |
| 14) Audio monitor                       | 3 sets       | With power amplifier   |
| 15) Tape recorder                       | 2 sets       | Open reel type   |

Note: \_\_\_\_\_ revised items

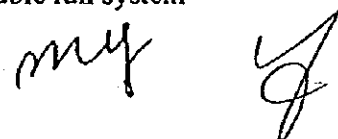


- |  |               |  |
|--|---------------|--|
| 16) Cassette tape recorder               | 1 set         |  |
| 17) CD player                            | 1 set         |  |
| 18) Rack for CD and CTR                  | 1 set         | With monitor   |
| 19) Audio distribution amplifier         | 1 set         | Necessary amount of amplifiers for making up system to be included |
| 20) Audio equipment rack                 | 1 set         | Including jack panel and internal wiring                           |
| 21) Production intercom                  | 1 set         |  |
| 22) Audio effect equipment               | 2 sets        |  |
| 23) Microphones and mic. stand           |               |  |
| Comprising;                              |               |  |
| a) Desk top type condenser mic.          | <u>2 sets</u> | For talking  |
| b) <u>Electret condenser mic.</u>        | <u>2 sets</u> | <u>Lavalier type</u>   |
| c) Uni-directional condenser mic.        | 4 sets        | For general purpose  |
| d) Selectable directivity condenser mic. | 4 sets        | For music  |
| e) Omni-directional dynamic mic.         | 4 sets        | For vocal  |
| f) Mic. Extension cable                  | 10 rolls      |  |
| g) Microphone boom stand                 | 1 set         |  |
| h) Mini microphone boom stand            | 3 sets        |  |
| i) Goose neck floor stand                | 2 sets        |  |
| j) Microphone floor stand                | 2 sets        |  |
| k) Table microphone stand                | 2 sets        |  |
| 24) Studio lighting equipment            |               |  |
| a) Suspension devices                    | 1 set         | Movable rail system  |
| b) Lantern and accessory                 | 1 set         |  |
| c) Lighting control equipment            | 1 set         | Dimmer 2.5kW, 24 pieces  |
| d) Curtain system                        | 1 set         |  |
| e) Effect projection system              | <u>2 sets</u> | <u>Projector 2.5kW/1kW</u>   |
| 25) Miscellaneous items                  | 1 set         |  |

## 2. Studio 2 (50m<sup>2</sup>)

### Studio lighting equipment


- |                          |       |                     |
|--------------------------|-------|---------------------|
| a) Suspension devices    | 1 set | Movable rail system |
| b) Lantern and accessory | 1 set |                     |



- c) Lighting control equipment 1 set Dimmer 2.5kW, 18 pieces
- d) Curtain system 1 set

3. Studio 3 (33m<sup>2</sup>)

- 1) Color camera 2 sets 3 FIT CCD digital processing camera, with 5 inch viewfinder.  
Zoom lens more than 14 times  
25m 50m camera cable
- 2) Tripod and dolly 2 sets
- 3) Teleprompter 1 set
- 4) Video production switcher 1 set Digital 12 inputs 2M/K
- 5) Digital video effect 1 set 3 dimension
- 6) 1/2 inch VTR 2 sets Digital play/rec. with monitor
- 7) Telop system 1 set
- 8) Character generator 1 set English and Arabic
- 9) Sync. pulse generator 1 set
- 10) Monitoring equipment
  - a) Waveform monitor 1 set
  - b) Vector scope 1 set
  - c) 14 inch color master monitor 1 set Precision type
  - d) 14 inch color monitor 8 sets
  - e) 20 inch color monitor 2 sets
  - f) 21 inch color monitor 1 set With cart
  - g) 21 inch television receiver 1 set
- 11) Monitor shelf 1 set
- 12) Video sync. distribution amplifier 1 set Necessary amount of amplifiers for making up system to be included
- 13) Video equipment rack 1 set Including jack panel and internal wiring
- 14) Video operation console 1 set Video switcher console  
VE console
- 15) Audio mixer 1 set 16 inputs
- 16) Audio monitor 2 sets With power amplifier
- 17) Tape recorder 1 set Open reel type
- 18) Cassette tape recorder 1 set

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- |  |          |  |
|--|----------|--|
| 19) CD player                            | 1 set    |  |
| 20) Rack for CD and CTR                  | 1 set    | With monitor   |
| 21) Audio distribution amplifier         | 1 set    | Necessary amount for amplifier for making up system to be included |
| 22) Audio equipment rack                 | 1 set    | Including jack panel and internal wiring                           |
| 23) Production intercom                  | 1 set    |  |
| 24) Audio effect equipment               | 2 sets   |  |
| 25) Microphones and mic. stand           |          |  |
| Comprising;                              |          |  |
| a) Desk top type condenser mic.          | 2 sets   | For talking  |
| b) Electret condenser mic.               | 2 sets   | Lavalier type  |
| c) Selectable directivity condenser mic. | 2 sets   | For music  |
| d) Dynamic mic.                          | 4 sets   | For general purpose  |
| e) Mic. Extension cable                  | 10 rolls |  |
| f) Mini microphone boom stand            | 2 sets   |  |
| g) Gooseneck floor stand                 | 2 sets   |  |
| h) Microphone floor stand                | 2 sets   |  |
| 26) Studio lighting equipment            |          |  |
| a) Lantern and accessory                 | 1 set    |  |
| b) Lighting control equipment            | 1 set    | Dimmer 2.5kW 12 pieces   |
| c) Curtain system                        | 1 set    |  |
| 27) Miscellaneous items                  | 1 set    |  |

#### 4. Editing Equipment

- |                               |          |                                      |
|-------------------------------|----------|--------------------------------------|
| 1) 1:1 editing equipment      | (2 sets) |                                      |
| a) 1/2 inch VTR               | 2 sets   | <u>Digital play/rec.</u>             |
| b) 1/2 inch VTR               | 2 sets   | <u>Digital play with analog play</u> |
| c) 14 inch color monitor      | 4 sets   | With sound                           |
| d) Desk                       | 2 sets   | With editor                          |
| 2) A/B roll editing equipment | (1 set)  |                                      |
| a) 1/2 inch VTR               | 1 set    | Analog play/rec.                     |
| b) 1/2 inch VTR               | 2 sets   | Analog play with slow motion         |
| c) Editor                     | 1 set    |                                      |

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- d) Video switcher 1 set 8 inputs
- e) Audio switcher 1 set 8 inputs
- f) 14 inch color monitor 3 sets
- g) Desk 1 set
- h) Audio monitor 1 set

**5. Master Control Room**

**5-1 VTR room equipment**

- 1) 1/2 inch VTR 3 sets Digital, play/rec. with monitor  
1 set Analog play/rec. with slow motion & monitor
- 2) 3/4 inch VTR 2 sets U-matic VTR play/rec. with monitor

**5-2 Master control room equipment**

- 1) Pre-select switcher 1 set 16 × 16, audio follow video
- 2) Master switcher 1 set 16 inputs 2 outputs, audio follow video
- 3) TV system converter 1 set PAL/SECAM/NTSC
- 4) 1/2 inch VTR 2 sets Digital, play/rec. with monitor
- 5) Sync. pulse generating equipment 2 sets With test signal generator, automatic changeover SW
- 6) Frame synchronizer (F/S) 1 set With remote control panel
- 7) VITS signal inserter 1 set With VITS signal generator
- 8) Station logo generator 1 set
- 9) Video timer 1 set Digital display
- 10) Monitoring equipment
  - a) Waveform monitor 2 sets
  - b) Vector scope 2 sets
  - c) 14 inch color master monitor 2 sets Precision type
  - d) 14 inch color monitor 12 sets
  - e) 20 inch color monitor 3 sets
  - f) 25 inch TV receiver 2 sets
- 11) Monitor shelf 1 set
- 12) Video pulse distribution amplifier 1 set Necessary amount of amplifiers for  
Video equalizing amplifier making up systems to be included
- 13) Video processing amplifier 1 set

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- |  |         |   |
|--|---------|---|
| 14) Video rack assembly                        | 1 set   |   |
| 15) Operating console                          | 1 set   | Master switcher and VE monitor                                      |
| 16) Audio monitoring equipment                 | 3 sets  | With VU meter panel   |
| 17) Cassette tape recorder                     | 1 set   |   |
| 18) Oscillator                                 | 1 set   |   |
| 19) Audio distribution amplifier               | 1 set   | Necessary amount of amplifiers for making up systems to be included |
| 20) Audio limiting amplifier                   | 1 set   |   |
| 21) Audio rack assembly                        | 1 set   | Including jack panel and internal wiring                            |
| 22) Room to room communication system          | 1 set   |   |
| 23) Clock system                               | (1 set) |   |
| a) Master clock                                | 1 set   |   |
| b) Slave clock                                 | 10 sets |   |
| 24) Community antenna TV system                | (1 set) |   |
| a) TV antenna (including distributor)          | 1 set   | 10 terminals  |
| b) 25 inch TV receiver                         | 10 sets |   |
| 25) Miscellaneous                              | 1 set   | On-the-air light etc.   |
| 26) Uninterrupted power supply (UPS) equipment | 1 set   | 5kVA  |
| 27) Power distribution board                   | 6 sets  |   |
| 28) Isolation transformer                      | 1 set   | 50kVA   |

#### 6. Outdoor Shooting Equipment

- |                              |                 |                                |
|------------------------------|-----------------|--------------------------------|
| 1) VTR camera equipment      | <u>(2 sets)</u> |                                |
| a) FIT CCD portable camera   | <u>2 sets</u>   | With 15 times zoom lens        |
| b) 1/2 inch VTR              | <u>2 sets</u>   | <u>Digital built-in camera</u> |
| c) Condenser microphone      | <u>2 sets</u>   |                                |
| d) Rechargeable battery pack | <u>20 pcs.</u>  |                                |
| e) Battery charger           | <u>2 sets</u>   |                                |
| f) AC power adapter          | <u>2 sets</u>   |                                |
| g) Tripod                    | <u>2 sets</u>   | With dolly                     |
| 2) Audio equipment           | <u>(2 sets)</u> |                                |

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a) Portable audio mixer	<u>2 sets</u>	4 inputs
b) Condenser microphone	<u>2 sets</u>	
c) UHF wireless microphone	<u>2 sets</u>	With UHF tuner
d) Headphones	<u>2sets</u>	
e) Cassette tape recorder	<u>2 sets</u>	
f) Accessories	<u>2 sets</u>	Battery, charger, carrying case
3) Lighting equipment	<u>(2 sets)</u>	
a) Battery lighting kit	<u>2 sets</u>	
b) Portable lighting kit	<u>2 sets</u>	
c) Accessories	<u>2 sets</u>	Battery, charger, carrying case
7. Mini OB Van	1 set	
1) Color camera	2 sets	3 FIT CCD digital processing camera with 5 inch viewfinder, zoom lens more than 18 times 150m camera cable
2) Tripod	2 sets	With dolly
3) Video production switcher	1 set	6 inputs 1M/K
4) Audio mixer	1 set	8 inputs
5) 1/2 inch VTR	1 set	<u>Digital play/rec.</u>
	1 set	<u>Analog play/rec. with slow motion</u>
6) Sync. pulse generating equipment	2 sets	<u>With test signal generator, automatic changeover switch</u>
7) Video monitoring equipment	1 lot	WFM, VSC, V-monitor, TV receiver with antenna
8) Audio monitoring equipment	1 set	
9) Cassette tape recorder	<u>2 set</u>	
10) Production intercom	1 set	
11) Microphone and stand	1 lot	
12) Microwave link	1 lot	7GHz band TX RX 1 pair with standard accessory
13) Walky talky	3 sets	5W
14) Video, sync., audio equipment rack	1 set	
15) Portable lighting equipment	1 set	

16) Vehicle	1 set	2m(w) × 6m(l) × 2.3m(h), E/G 220V 50Hz 6kVA AVR 5kVA, air conditioner
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**8. Measuring Equipment and Tools**

1) TV test signal generator	1 set	Multi-burst, pulse/bar, stair step, color bars
2) Audio measuring equipment	1 set	Frequency response, distortion factor, S/N
3) Oscilloscope with cart	1 set	100MHz band width, dual inputs
4) Vector scope	1 set	
5) Illumination meter	1 set	
6) Color meter	1 set	
7) Circuit tester	5 set	Analog and digital
8) Tool set	6 sets	Standard tool set and hand tool sets
9) Special jig for VTR	1 set	
10) Standard tape for 1/2 inch VTR	2 sets	
11) Standard tape for open reel tape recorder	2 sets	

**9. Spare Parts** 1 lot

**10. Installation Materials** 1 lot Video cable, audio cable, control cable, power cable, connectors, etc.

**II Major Equipment Changes**

The Yemeni side strongly requested that video switchers and some of VTRs shall be digitized, because of easier maintenance for switchers and keeping VTR potential for future expansion. Both sides agreed to select them as shown in Table 1, and to reduce the number of ENG's from three to two sets.




Table 1 Final Plan for VTR and Video Switcher

System Plan	Studio		Edit			MCR		Mini OB van	ENG	Total	Advantage	Disadvantage
	Studio-1	Studio-3	1:1	1:1	A/B	VTR room	MCR					
	D x 1 with 12I, 2MK	D x 1 with 12I, 2MK										
Final Plan	V-SW	D x 1 with 12I, 2MK	1:1	1:1	A/B			A x 1 with 6I, 1MK			<ul style="list-style-type: none"> <li>• Digital VTR system</li> <li>• Same video SW for studio-1 and studio-3</li> <li>• Easy maintenance</li> </ul>	<ul style="list-style-type: none"> <li>• ENG 1 set reduction (3 → 2)</li> <li>• No slow motion (except existing VTR at studio-2)</li> <li>• Limited tape compatibility</li> </ul>
	VTR	D x 2	D x 1 with SP play	D x 1 with SP play	A x 1 with slow motion	D x 3 with slow motion (U x 2)	D x 2	D x 1 with slow motion	D x 2	D x 14 A x 6 ENG-D x 2		
Draft Plan	V-SW	D x 1 with 12I, 2MK						A x 1 with 6I, 1MK			<ul style="list-style-type: none"> <li>• Slow motion</li> <li>• Tape compatibility</li> </ul>	
	VTR	A x 2	A x 2	A x 2	A x 1 with slow motion	A x 4 (U x 2)	A x 2	A x 2	A x 3	A x 19 ENG-A x 3		

D: Digital type A: Analog type U: Umatic ENG: Outdoor Shooting Equipment

The study team from Japan advised the Government of Republic of Yemen to transfer existing different format tapes in analog to digital.

## Annex II

### 1. Japan's Grant Aid

#### 1-1 Japan's Grant Aid System

##### (1) Grant Aid Procedures

1) Japan's Grant Aid Program is executed through the following procedures.

Application	(request made by a recipient country)
Study	(Basic Design Study conducted by JICA)
Appraisal & Approval	(Appraisal by the Government of Japan and Approval by Cabinet)
Determination of Implementation	(The notes exchanged between the Government of Japan and the recipient country)

2) Firstly, the application or request for a Grant Aid project submitted by a recipient country is examined by the Government of Japan (the Ministry of Foreign Affairs) to determine whether or not it is eligible for Grant Aid. If the request is deemed appropriate, the Government of Japan will assign JICA (Japan International Cooperation Agency) to conduct a study on the request.

Secondly, JICA conducts the study (Basic Design Study), using (a) Japanese consulting firm(s).

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

Fourthly, the Project, once approved by the Cabinet, becomes official with the Exchange of Notes signed by the Government of Japan and the recipient country.

Finally, for the implementation of the Project, JICA assists the recipient country in

such matters as preparing tenders, contracts and so on.

(2) Basic Design Study

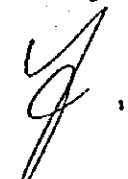
1) Contents of the Study

The aim of the Basic Design Study (hereinafter referred to as "the Study"), conducted by JICA on a project requested (hereafter referred to as "the Project") is to provide a basic document necessary for the appraisal of the Project by the Government of Japan. The contents of the Study are as follows:

- a) Confirmation of the background, objectives, and benefits of the Project and also institutional capacity of agencies concerned of the recipient country necessary for the Project's implementation
- b) Evaluation of the appropriateness of the Project to be implemented under the Grant Aid Scheme from a technical, social and economic point of view
- c) Confirmation of items agreed on by both parties concerning the basic concept of the Project
- d) Preparation of a basic design of the Project
- e) Estimation of costs of 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) Selection of Consultants

For smooth implementation of the Study, JICA uses (a) registered consultant firm(s). JICA select (a) firm(s) based on proposals submitted by interested firms. The firm(s) selected carry(ies) out a Basic Design Study and write(s) a report, based upon terms of reference set by JICA.

The consulting firm(s) used for the Study is(are) recommended by JICA to the recipient country to also work on the Project's implementation after the Exchange of Notes, in order to maintain technical consistency and also to avoid any undue delay in implementation, should the selection process be repeated.

(3) Japan's Grant Aid Scheme

1) What is Grant Aid?

The Grant Aid Program provides a recipient country with non-reimbursable funds to procure the facilities, equipment and services (engineering services and transportation of the products, etc.) for economic and social development of the country under principles in accordance with the relevant laws and regulations of Japan. Grant Aid is not supplied through the donation of materials as such.

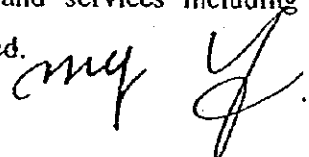
2) Exchange of Notes (E/N)

Japan's Grant Aid is extended in accordance with the Notes exchanged by the two Governments concerned, 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 the one fiscal year which the Cabinet approves the Project for. Within the fiscal year, all procedures such as exchanging of the Notes, concluding contracts with (a) consultant firm(s) and (a) contractor(s) and 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 one fiscal year at most by mutual agreement between the two Governments.

4) Under the Grant Aid, in principle, Japanese products and services including transport or those of the recipient country are to be purchased.





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

However the prime contractors, namely, consulting, constructing and procurement firms, are limited to "Japanese nationals". (The term "Japanese nationals" means persons of Japanese nationality or Japanese corporations controlled by persons of Japanese nationality.)

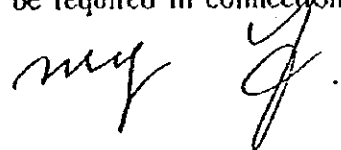
5) Necessity of "Verification"

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

6) Undertakings required of the Government of the Recipient Country

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

- a) To secure land necessary for the site(s) of the Project and to clear, level and reclaim the land prior to commencement of the construction
- b) To provide facilities for the distribution of electricity, water supply and drainage and other incidental facilities in and around the site(s)
- c) To secure buildings prior to the procurement in case the installation of the equipment
- d) To ensure 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

g) "Proper Use"

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

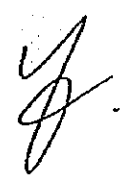
h) "Re-export"

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

i) Banking Arrangements (B/A)

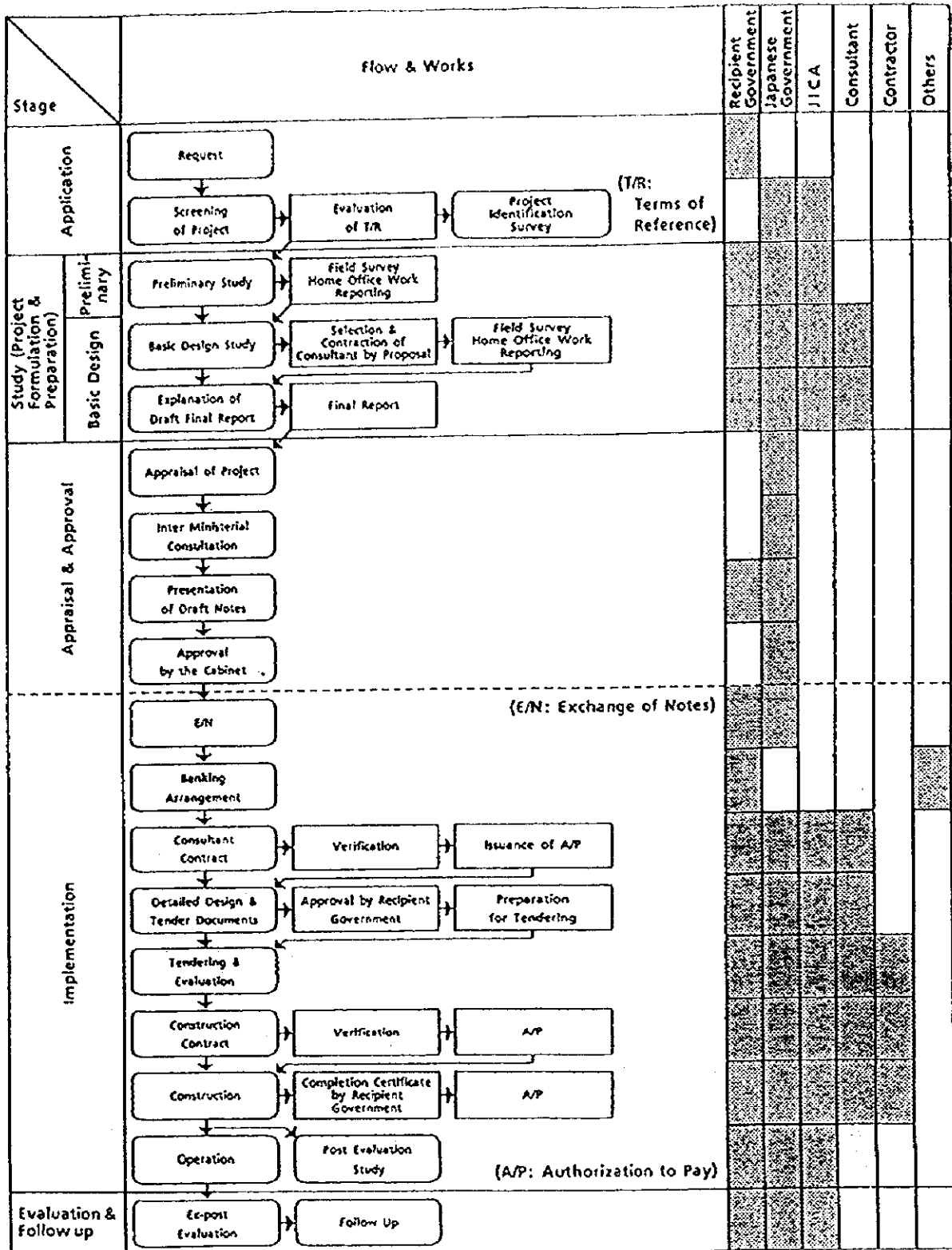
a. The Government of the recipient country or its designated authority should open an account in the name of the Government of the recipient country in an authorized foreign exchange bank of Japan (hereinafter referred to as "the Bank"). The Government of Japan will execute the Grant Aid by making payments in Japanese yen to cover the obligations incurred by the Government of the recipient country or its designated authority under the Verified Contracts.

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.



# 1-2 Grant Aid Procedures

## Flow Chart of Japan's Grant Aid Procedures



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## Major Undertakings to be taken by Each Government

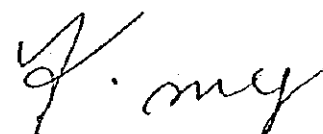
No.	Items	To be covered by Grant Aid	To be covered by Recipient Side
1.	To secure land		●
2.	To clear, level and reclaim the site when needed		●
3.	To construct gates and fences in and around the site		●
4.	To construct the parking lot	●	
5.	To construct roads		
	1) Within the site	●	
	2) Outside the site		●
6.	To construct the buildings	●	
7.	To provide facilities for the distribution of electricity, water supply, drainage and other incidental facilities		
	1) Electricity		
	a. The distributing line to the site		●
	b. The drop wiring and internal wiring within the site	●	
	c. The main circuit breaker and transformer	●	
	2) Water Supply		
	a. The city water distribution main to the site		●
	b. The supply system within the site (receiving and elevated tanks)	●	
	3) Drainage		
	a. The city drainage main (for storm, sewer and others) to the site		
	b. The drainage system (for toilet sewer, ordinary waste, storm drainage and others) within the site	●	
	4) Gas Supply		
	a. The city gas main to the site		●
	b. The gas supply system within the site	●	
	5) Telephone System		
	a. The telephone trunk line to the main distribution frame/panel (MDF) of the building		●
	b. The MDF and the extension after the frame/panel	●	
	6) Furniture and Equipment		
	a. General furniture		●
	b. Project equipment	●	
8.	To bear the following commissions to the Japanese foreign exchange bank for the banking services based upon the B/A		
	1) Advising commission of A/P		●
	2) Payment commission		●
9.	To ensure unloading and customs clearance at port of disembarkation in recipient country		
	1) Marine (Air) transportation of the products from Japan to the recipient country	●	
	2) Tax exemption and custom clearance of the products at the port of disembarkation		●
	3) Internal transportation from the port of disembarkation to the project site	●	
10.	To accord Japanese nationals whose services may be required in connection with the supply of the products and the services under the verified contract such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work.		●
11.	To exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which may be imposed in the recipient country with respect to the supply of the products and services under the verified contracts.		●
12.	To maintain and use properly and effectively the facilities constructed and equipment provided under the Grant.		●
13.	To bear all the expenses, other than those to be borne by the Grant, necessary for construction of the facilities as well as for the transportation and installation of the equipment.		●

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### Annex III

The following necessary measures should be taken by the Government of Yemen if the Grant Aid by the Government of Japan is extended to the Project:

1. To ensure prompt unloading and customs clearance at ports of disembarkation in Yemen and internal transportation of the products purchased under the Grant Aid.
2. To exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which may be imposed in Yemen with respect to the supply of the products and services under the Verified Contract.
3. To accord Japanese nationals whose services may be required in connection with the supply of the products and services under the Verified Contracts such equipment as may be necessary for their entry into Yemen and stay therein for the performance of their work.
4. To bear commissions to the Japanese foreign exchange bank for its banking services based upon Banking Arrangement, namely the advising commission of the "Authorization to Pay" and payment commissions.
5. To bear all expenses, other than those covered by the Grant, necessary for the Project.
6. To maintain and use properly and effectively the equipment purchased under the Grant Aid.
7. To coordinate and solve any issues related to the Project which may be raised from third parties or inhabitants in the Projects area during implementation of the Project.
8. To carry out such works as follows:
  - (1) Old equipment removal works
  - (2) Electricity supply works
  - (3) Installation site preparation works
  - (4) Other related works





## **5. Cost Estimation Borne by the Recipient Country**





## **5. Cost Estimation Borne by the Recipient Country**

The necessary budget borne by the General Corporation for Radio and Television for implementation of the Project is 2,400,000 Rial.

Breakdown of expenses:

- |  |              |
|--|--------------|
| 1) Old equipment removal works.....          | 850,000 Rial |
| 2) Electricity supply works.....             | 150,000 Rial |
| 3) Installation site preparation works ..... | 600,000 Rial |
| 4) Other related works.....                  | 800,000 Rial |



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