



Knowledge Co-Creation Program (Group & Region Focus)

GENERAL INFORMATION ON

TV Program Production for Digital Terrestrial
Broadcasting-Operations of ISDB-T -(B)

課題別研修

「地上デジタルテレビ放送の番組制作 – ISDB-T の運用 – (B)」

JFY 2017

NO. J1704364 / ID. 1784928

Course Period in Japan: From June 18, 2017 to July 15, 2017

This information pertains to one of the JICA Knowledge Co-Creation Program (Group & Region Focus) of the Japan International Cooperation Agency (JICA), which shall be implemented as part of the Official Development Assistance of the Government of Japan based on bilateral agreement between both Governments.

‘JICA Knowledge Co-Creation (KCC) Program’ as a New Start

In the Development Cooperation Charter which is released from the Japanese Cabinet on February 2015, it is clearly pointed out that *“In its development cooperation, Japan has maintained the spirit of jointly creating things that suit partner countries while respecting ownership, intentions and intrinsic characteristics of the country concerned based on a field-oriented approach through dialogue and collaboration. It has also maintained the approach of building reciprocal relationships with developing countries in which both sides learn from each other and grow and develop together.”* We believe that this ‘Knowledge Co-Creation Program’ will serve as a center of mutual learning process.

I. Concept

Background

TV broadcasting is one of the most efficient and inexpensive methods of communication, which can convey information equally to all across the world. TV broadcasting enables to promote efficient knowledge dissemination and public awareness in the field of education, health service, environment, peace-building, and consolidation of democracy. Its potency is very much expected as a means of transmitting information where other information media are inefficient or unavailable, such as isolated areas.

The digitalization of TV broadcasting has become a global trend, and many developed and developing countries have already started digital broadcasting. Developing countries with diversified cultures (languages, ethnicities) can take advantage of the features of digital broadcasting: Attractive and convenient services available with digital broadcasting, such as multilingual broadcasting, text broadcasting, multi-channel services etc. can contribute to the improvement of citizens' quality of life and level of education. Prompt provision of disaster information through data broadcasting and mobile broadcasting can mitigate the impact of natural disasters on their inhabitants.

For what?

This program aims to provide hints and solutions for effective digitalization of TV broadcasting; Learning not only digital broadcasting technology and theory, but also actions and solutions applied to successfully complete switchover from analog to digital TV broadcasting in Japan: these lessons will serve as guidelines for digitalization of TV broadcast of each country.

For whom?

This program is offered to broadcasting organizations and its related governmental organizations of those countries which have adopted or are considering ISDB-T as their digital terrestrial TV broadcasting system.

II. Description

- 1. Title (J-No.):** TV Program Production for Digital Terrestrial Broadcasting
-Operations of ISDB-T -(B) **(J1704364)**
- 2. Course Period in JAPAN**
June 18 to July 15, 2017
- 3. Target Regions or Countries**
Ecuador, Sri Lanka, Philippines, Bhutan, Brazil, Peru, Botswana, Bolivia, Maldives
- 4. Eligible / Target Organization**
This program is offered to broadcasting organizations and related governmental organizations.
- 5. Course Capacity (Upper limit of Participants)**
12 participants
- 6. Language to be used in this program:** English
- 7. Course Objective:**
To understand the advantages of digital broadcasting system, promoting the systematical and logical digitalization process of the broadcasting in participants' organizations.
- 8. Overall Goal**
To contribute to the spread of education and efficient information sharing, which is essential to the improvement of living standards, by introducing a variety of multifunctional services provided stably through digital broadcasting.

9. Expected Module Output and Contents:

This program consists of the following components. Details on each component are given below:

(1) Preliminary Phase in a participants' home country (May 15, 2017 to June 16, 2017) <i>Participants make required preparation for the Program in the respective countries.</i>	
Modules	Activities
Inception Report	Formulation and submission of Inception Report. (Please see Annex 2)

(2) Core Phase in Japan (June 18, 2017 to July 15, 2017) <i>Participants attend the program implemented in Japan.</i>		
Module		
Expected Module Output	Subjects/Agendas	Methodology
(1) To be able to explain the outline of digital broadcasting technology.	Fundamentals of Digital Theory (transmission, modulation)	Lecture
	MPEG multiplex	Lecture
	Digital Broadcast Services/Digital Transmitter	Lecture, practice, observation
	Digital Terrestrial Broadcasting	Lecture, observation
	Trends of Digital Broadcasting	observation
(2) To be able to explain the advantages of digital broadcasting system and make use of the knowledge for the planning and implementation of digitalization.	Broadcasting System (Analog/Digital Simulcasting)	Lecture, observation
	Challenges for Introducing DTTB (case study of channel planning, Network Design), Measurement of DTTB signal	Lecture, practice
	Disaster Newscasts EWBS	Lecture

To compile a report on findings and plans to utilize the training course for participants' organization	-Compile and present a report individually. -Discuss among the participants to deepen understandings	Report, presentation
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Note: The content may be **subject** to minor changes.

(3) Finalization Phase in a participants' home country (July 17, 2017 to September 29, 2017) <i>Participating organizations produce final output by making use of the results brought back by participants. This phase marks the end of the program.</i>		
Output	Program/Details	
(3) To share the knowledge and techniques of digital broadcasting planning/operation in participants' organizations after returning	<p>Report compiled by participant is shared in the organization and discussed from the standpoint of realization and implementation</p> <p>The submission of follow-up questionnaire to JICA Tokyo is required by September 29, 2017.</p>	

III. Conditions and Procedures for Application

1. Expectations from the Participating Organizations:

- (1) This program is designed primarily for organizations that intend to address specific issues or problems identified in their operation. Participating organizations are expected to use the project for those specific purposes.
- (2) This program is enriched with contents and facilitation schemes specially developed in collaboration with relevant prominent organizations in Japan. These special features enable the project to meet specific requirements of applying organizations and effectively facilitate them toward solutions for the issues and problems.

2. Nominee Qualifications:

Applying Organizations are expected to select nominees who meet the following qualifications.

(1) Present position, assignment:

Officials who is in charge of the planning of the Digital Terrestrial TV Broadcasting, (Acting) Team Leader of TV broadcasting organization or Government-related organization in charge of Digital Terrestrial TV Broadcasting policy, or Engineers who have practical experience in TV transmission.

(2) Occupational background:

Have technical background

Be in charge of planning /implementation of digitalization of the broadcast.

Note: Studio engineer and those who have experience only in Radio Stations are **NOT** qualified.

(3) Academic record:

College or university graduates, or those who have the equivalent in technical knowledge of electronic engineering and fundamental knowledge about digital engineering theory.

(4) Computer skill:

Have basic skills of PC operation using Word, Excel, and other software.

(5) Age:

Under forty (40) years of age, in principle

(6) Language:

Proficiency in spoken and written English

(7) Health:

Health: must be in good health, both physically and mentally, to participate in the Program in Japan. Pregnant applicants are not recommended to apply due to the potential risk of health and life issues of mother and fetus.

3. Required Documents for Application

- (1) **Application Form:** The Application Form is available at the **JICA office (or the Embassy of Japan)**.
- (2) **Photocopy of passport:** to be submitted with the application form, if you possess your passport which you will carry when entering Japan for this program. If not, you are requested to submit its photocopy as soon as you obtain it.
*Photocopy should include the followings:
Name, Date of birth, Nationality, Sex, Passport number and Expire date.
- (3) **Nominee's English Score Sheet:** to be submitted with the application form. If you have any official documentation of English ability. (e.g., TOEFL, TOEIC, IELTS)
- (4) **JOB Report (Annex 1):** submitted with the application form. Fill in Attachment-1 of this General Information.

4. Procedures for Application and Selection:

(1) Submission of the Application Documents:

Closing date for applications to the JICA Center in JAPAN: **May 2, 2017**
(After receiving applications, the JICA office (or the Embassy of Japan) will send them to **the JICA Center in JAPAN** by May 2, 2017)

(2) Selection:

After receiving the documents through proper channels from your government, the JICA office (or the embassy of Japan) will conduct screenings, and then forward the documents to the JICA Center in Japan. Selection will be made by the JICA Center in consultation with concerned organizations in Japan. *The applying organization with the best intention to utilize the opportunity of this program will be highly valued in the selection.* Qualifications of applicants who belong to the military or other military-related organizations and/or who are enlisted in the military will be examined by the Government of Japan on a case-by-case basis, consistent with the Development Cooperation Charter of Japan, taking into consideration their duties, positions in the organization, and other relevant information in a comprehensive manner.

(3) Notice of Acceptance

Notification of results will be made by the JICA office (or the Embassy of Japan) **not later than May 12, 2017**.

5. Document(s) to be submitted by accepted candidates:

Inception Report -- to be submitted by June 9, 2017:

Before coming to Japan, only accepted candidates are required to prepare an **Inception Report (Annex 2)**. The Inception Report should be sent to JICA by June 10, 2017, preferably by e-mail to ticttee@jica.go.jp

6. Conditions for Attendance:

- (1) to strictly adhere to the program schedule.
- (2) not to change the program topics.
- (3) not to extend the period of stay in Japan.
- (4) not to be accompanied by family members during the program.
- (5) to return to home countries at the end of the program in accordance with the travel schedule designated by JICA.
- (6) to refrain from engaging in any political activities, or any form of employment for profit or gain.
- (7) to observe Japanese laws and ordinances. If there is any violation of said laws and ordinances, participants may be required to return part or all of the training expenditure depending on the severity of said violation.
- (8) to observe the rules and regulations of the accommodation and not to change the accommodation designated by JICA.

IV. Administrative Arrangements

1. Organizer:

(1) **Name:** JICA Tokyo International Center (JICA TOKYO)

2. Implementing Partner:

(1) **Name:** Under Planning

3. Travel to Japan:

(1) **Air Ticket:** The cost of a round-trip ticket between an international airport designated by JICA and Japan will be borne by JICA.

(2) **Travel Insurance:** Coverage is from time of arrival up to departure in Japan. Thus traveling time outside Japan will not be covered.

4. Accommodation in Japan:

JICA will arrange the following accommodations for the participants in Japan:

JICA Tokyo International Center (JICA TOKYO)

Address: 2-49-5 Nishihara, Shibuya-ku, Tokyo 151-0066, Japan

TEL: 81-3-3485-7051 FAX: 81-3-3485-7904

(where "81" is the country code for Japan, and "3" is the local area code)

If there is no vacancy at JICA TOKYO, JICA will arrange alternative accommodations for the participants. Please refer to facility guide and service guide of TIC at its URL,

https://www.jica.go.jp/tokyo/english/office/c8h0vm00009uld4m-att/tokyo_facilities.pdf

https://www.jica.go.jp/tokyo/english/office/c8h0vm00009uld4m-att/tokyo_service.pdf

5. Expenses:

The following expenses ~~will be~~ provided for the participants by JICA:

- (1) Allowances for accommodation, meals, living expenses, outfit, and shipping
 - (2) Expenses for study tours (basically in the form of train tickets.)
 - (3) Free medical care for participants who become ill after arriving in Japan (costs related to pre-existing illness, pregnancy, or dental treatment are not included)
 - (4) Expenses for program implementation, including materials
- For more details, please see "III. ALLOWANCES" of the brochure for participants titled "KENSU-IN GUIDE BOOK," which will be given before departure for Japan.

6. Pre-departure Orientation:

A pre-departure orientation will be held at the respective country's JICA office (or Japanese Embassy), to provide participants with details on travel to Japan, conditions of the workshop, and other matters.

V. Annexes

Annex 1 Job Report

Annex 2 Inception Report
