Japan International Cooperation Agency

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DIRECCIÓN EJECUTIVA
RECIBIDO
30 MAR 2015
17:20

**JP-2014/ 947**

Lima, 26 de Marzo de 2015

AGENCIA PERUANA DE COOPERACION INTERNACIONAL
APCI - TRAMITE DOCUMENTARIO
RECIBIDO
30 MAR. 2015
3:44 P
Nº Exp. 20150 4800

Señorita
Rosa Herrera Costa
Directora Ejecutiva
Agencia Peruana de Cooperación Internacional – APCI
Ciudad.-

Asunto: Curso: "Remote Sensing of Forest Resources (B)" (Teledetección de Recursos Forestales (B)".

De mi mayor consideración:

Me es grato dirigirme a usted para saludarle en la oportunidad de solicitarle la difusión del curso en referencia, a las Instituciones correspondientes a nivel nacional.

Sobre el particular, adjunto a la presente el Folleto Informativo del Curso en mención de acuerdo a los detalles siguientes:

Período: Del 02 de Agosto 2015 al 17 de Septiembre 2015

Idioma: Inglés

**Plazo de Recepción de Formularios en JICA PERU: 28 de Mayo de 2015**

A fin de presentar candidatos idóneos, agradeceré se sirva disponer lo conveniente para asegurar que el Folleto Informativo sea leído previamente por el candidato antes de llenar el formato correspondiente.

Sin otro particular, hago propicia la ocasión para expresarle los sentimientos de mi especial consideración.

Atentamente,

M. Eguchi

Masayuki Eguchi
Representante Residente
Oficina JICA Perú

OFICINA REPRESENTATIVA EN EL PERÚ
JICA
Agencia De Cooperación Internacional Del Japón

# GROUP AND REGION-FOCUSED TRAINING

GENERAL INFORMATION ON

## REMOTE SENSING OF FOREST RESOURCES (B)

**課題別研修「森林リモートセンシング(B)」**

***JFY 2015***

**NO. J15-04010 / ID. 1584733**

**Course Period in Japan: From August 2nd, 2015 to September 17th, 2015**

This information pertains to one of the Group and Region-Focused Training 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.

# I. Concept

**Background**

Addressing deforestation and forest degradation may play a significant role in climate change mitigation. CO2 emissions from deforestation and forest degradation in developing countries might amount for about 20% of the total emissions of the world. Thus, it is a key challenge not only for developing countries but also for the whole world to address reducing emissions from deforestation and forest degradation in developing countries (REDD), which could slow increases in atmospheric CO2 concentrations.

However, there are not sufficient systems or personnel in many developing countries so that they can investigate the forest resources, which is basic information for REDD. This constitutes a matter of immediate concern for the international community.

Remote sensing provides extensive information of forest resources in an efficient and effective manner. This program will provide basic theory and skills of remote sensing of forest resources to improve forest management in developing countries, which also support the REDD-related activities for the participants and is expected to contribute to the climate change mitigation.

**For what?**

Participants are expected to acquire the skills and knowledge for using remote sensing of forest resources in their own countries based on international discussions on REDD.

**For whom?**

This program is offered to administrative officials or researchers engaged in forestry management.

**How?**

Participants shall have opportunities in Japan to enhance the participants' knowledge and skills of remote sensing of forest resources in order to understand REDD as a significant role in climate change mitigation. Participants are expected to formulate an action plan describing what the participant is going to do after they go back to home country, making the best use of the knowledge and ideas acquired and discussed in Japan.

# II. Description

1. **Title (J-No.): Remote Sensing of Forest Resources (B) (J15-04010)**

2. **Course Period in JAPAN:** August 2nd to September 17th, 2015

3. **Target Regions or Countries:**
   Indonesia, Papua New Guinea, Peru, Colombia

4. **Eligible / Target Organization:**
   Administrative officials or researchers engaged in remote sensing of forest resources, forestry management and climate change mitigation.

5. **Course Capacity (Upper limit of Participants) :** 5 participants

6. **Language to be used in this program:** English

7. **Course Objective:**
   Participants are expected to acquire the basic skills and knowledge for using remote sensing with the aim of understanding forest resources in their own countries on the basis of international discussion of REDD. Participants are expected to acquire the basic skills and knowledge for making database of their own countries using GIS technique.

8. **Overall Goal:**
   Each participant's belonging organizations take actions based on the action plans, in order to build the system for monitoring of forest resources using remote sensing in the countries concerned.

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 participant's home country**<br>(July 2015 to August 2015)<br>*Participating organizations make required preparation for the Program in the respective country.* | |
|---|---|
| Expected Modules Output | Activities |
| To overview the present situation and issues of forestry management in participants' respective countries | Preparation and submission of Country Report |

(2) **Core Phase in Japan** (August 2nd, 2015 to September 17th, 2015)

*Participants dispatched by the organizations attend the Program implemented in Japan.*

| Expected Modules Output | Contents | Activities |
|---|---|---|
| 1. To acquire the current knowledge about the REDD using a remote sensing | ・International methodology such as IPCC guideline<br>・Remote sensing usage to keep up with REDD | Lecture<br>Exercises |
| 2. To learn about the basic theory and skills of remote sensing | ・Basic theory of remote sensing<br>・Characteristics of electromagnetic wave<br>・Spectral Reflectance<br>・Classification of platform and sensor<br>・Feature and difference of various satellite for earth observation<br>・Learning remote sensing software, ArcGIS, ENVI and Multispec etc. | Lecture<br>Observation |
| 3. To acquire the knowledge and technique for the practical use of remote sensing of forest resources | ・Case Study of remote sensing<br>・Possibilities of remote sensing<br>・Image processing of satellite images using a PC<br>・Calculation of various index models of vegetation<br>・ALOS/PALSAR usage for the forest mapping<br>・Objectbase Classification using eCognition<br>・Learning remote sensing software, ArcGIS, ENVI and Multispec etc.<br>・Remote sensing using UAV | Lecture,<br>Practice and<br>Exercise |
| 4. To acquire the knowledge and technique for the practical use of GIS/GPS of forest resources | ・How to use a GPS<br>・Satellite Images/Data Acquisition for GIS in the open air<br>・The basic usage of GIS<br>・Spatial analysis by GIS<br>・Learning GIS software, ArcGIS | Lecture<br>Practice |
| 5. To formulate the practical Action Plan for solving their own issues | ・Planning for understanding the forest resources in their own countries using remote sensing | To prepare action plan and make it presentation |

***NOTE:*** (1)

**Each participant must submit Country Report before arriving in Japan.** Participants are requested to make Country Report Presentation by country at the beginning of the training course, in order to share the respective countries information in the field of forestry management and using remote sensing technologies. (If there are two participants from the same country, Presentation must be made by country, not by personal, but report must be submit by each participant.) Participants must prepare for Country Report presentation before arriving in Japan. Country Report must be written in English and twenty (20) minutes will be allocated to each participant for the presentation (including interpretation and discussion). Presentation by using Microsoft Power Point is recommended. If possible, it is also recommended to bring a CD-R etc. in which the Country Report is saved, that will facilitate report making.

This training includes a lot of practical trainings. Participants from the same country are requested to help each other.

| **(3)Finalization Phase in a participant's home country**<br>*Participating organizations produce final outputs by making use of results brought back by participants. This phase marks the end of the Program.* | |
|---|---|
| Modules | Activities |
| Implementation of the Action Plan<br>Submission of the Final Report | Application and implementation of the Action Plan back in respective home country and submission of the Final Report describing the progress of implementing respective Action Plan by February 17, 2016. |

***NOTE:*** (2)

"Action Plan" of this course is the guide to solve your issues for development of Remote Sensing of Forest Resources.

Each participant must submit the **Action Plan** report at the end of the course.
Contents to be included at least:

- Background (the problems to be solved)
- Objective and Expected Outcomes
- Actions/Operations
- Schedule (Short term, mid-term if necessary)
- Estimated budget (if possible) etc.

Followings must be well considered in Action Plan:

- The Plan must be *Feasible*.
- Obtained knowledge through the program must be *Fully Utilized*.
- *Clarify the role of yourself* in the plan

ex. having an educative program, making one's work more efficient, creating base maps, etc.

*If you need the information and data for making Action Plan Report, please bring it with you.

## <Structure of the program>

Reference of the program in 2014

**SCHEDULE FOR TRAINING COURSE IN REMOTE SENSING OF FOREST RESOURCES (B), FY 2014**

| DATE | TIME | TYPE OF TRAINING | SUBJECT | OBJECTIVE | MODULE | ACCOMMODATION |
|---|---|---|---|---|---|---|
| 1st | | | Arrival in Japan | | | Hotel New Takanashi in Tsukuba |
| 2nd | 9:45 ~ 12:00 | | Briefing | | | |
| | 13:00 ~ 15:00 | L | Program Orientation | Participants' self-introduction, introduction of people concerned, confirmation of program objective and modules, etc. | | |
| 3rd | 9:30 ~ 12:00 | L | Issue of Global Warming and REDD: Scientific Knowledge of IPCC | Obtain a scientific knowledge of Global Warming and REDD as a background for using remote sensing of forest resources | 1,2 | |
| | 13:00 ~ 16:00 | L | | | | |
| 4th | 9:30 ~ 12:00 | L | Issue of Global Warming and REDD: Scientific Knowledge of IPCC | Obtain a scientific knowledge of Global Warming and REDD as a background for using remote sensing of forest resources | 1,2 | |
| | 13:00 ~ 16:00 | L | | | | |
| 5th | | | Day off | | | |
| 6th | | | Day off | | | |
| 7th | 9:30 ~ 12:00 | O | Geospatial Information Authority of Japan: Introduction of Japan's Survey Techniques and Global Mapping | To learn about Japan's survey system and global mapping project | 1 | JICA Tokyo |
| | 13:00 ~ 14:30 | O | Tsukuba Space Center, *1JAXA: Space Technology of Japan | To learn about Japan's space technology | 1 | |
| | 14:30 ~ 17:30 | | Tsukuba → Tokyo | | | |
| 8th | 9:30 ~ 12:00 | L | Remote Sensing for Forest Resources and Carbon Estimation Model, etc. | To learn about the use of forest measurement and remote sensing for REDD | 1,2 | |
| | 13:30 ~ 16:00 | L | Forest Monitoring Database | To learn about designing database | 1,2 | |
| 9th | 9:30 ~ 11:30 | L | Latest Trends of ArcGIS, etc. Data Collection & Seamless Calculation by Using Mobile Terminal | To understand the latest trends of ArcGIS | 4 | |
| | 13:00 ~ 14:30 | L | Latest Trends of ArcGIS, etc. | To understand the latest trends of ArcGIS | 4 | |
| | 14:45 ~ 15:45 | L | Latest Trends of the World's Satellites | To learn about the latest trends of satellite technologies and related industries | 3 | |
| 10th | 9:30 ~ 11:30 | L | Biodiversity and REDD | To learn to see forests from various perspectives | 1,5 | |
| | 13:00 ~ 15:00 | L | Open Street Map etc.: To Understand Shared Database System | To learn the trends of data sharing | 5 | |
| 11th | | | Day off | | | |
| 12th | | | Day off | | | |
| 13th | 9:30 ~ 15:00 | | Tokyo → Sapporo | | | JICA Hokkaido |
| 14th | 9:30 ~ 11:30 | L | Orientation & Campus Tour Guidance on Action Plan Preparation | Outline of the training course To learn about RGU and Action Plan Preparation | 5 | |
| | 12:30 ~ 16:00 | L | Orientation & Campus Tour Guidance on Action Plan Preparation | Outline of the training course To learn about RGU and Action Plan Preparation | 5 | |
| | 19:00 ~ 20:30 | | Japanese Lesson 1 | | | |
| 15th | 9:30 ~ 12:00 | Pr | Country Report Presentation | | | |
| | 13:00 ~ 16:00 | L | Basics of GIS/Remote Sensing Software | To learn about the basic software which is used in this training | 2, 3 | |
| | 19:00 ~ 20:30 | | Japanese Lesson 2 | | | |
| 16th | 9:30 ~ 12:00 | L | Remote Sensing Technology: Basic Knowledge | To acquire basic knowledge on remote sensing | 2, 3 | JICA Hokkaido |
| | 13:00 ~ 16:00 | L | Remote Sensing Technology: Basic Knowledge | To learn the characteristics of various satellite image data | 2, 3 | |
| | 17:00 ~ 18:00 | | Meeting with a travel agent concerning Return Flight Ticket | | | |
| 17th | 9:30 ~ 12:00 | L | Remote Sensing Technology: Spectral Characteristic Analysis | To learn about spectral characteristics | 2,3 | |
| | 13:00 ~ 16:00 | L | Remote Sensing Technology: Calculation of NDVI | To learn about spectral characteristics | 2,3 | |
| 18th | | | Day off | | | |
| 19th | 13:00 ~ 13:30 | | JICA Hokkaido→Shin-Sapporo Arc City Hotel | | | Shin-Sapporo Arc City Hotel |
| 20th | 9:30 ~ 12:00 | P | Remote Sensing Technology: Unsupervised Classification | To learn unsupervised classification | 2,3 | |
| | 13:00 ~ 16:00 | P | Remote Sensing Technology: Supervised Classification (Maximum Likelihood Method) | To obtain the basic technique of supervised classification | 2,3 | |
| 21st | | | Day off | | | |
| 22nd | 9:30 ~ 12:00 | P | Remote Sensing Technology: Supervised Classification (Maximum Likelihood Method) | To obtain the basic technique of supervised classification | 2,3 | |
| | 13:00 ~ 16:00 | P | Remote Sensing Technology: Classification Accuracy Assessment | To obtain the basic technique of supervised classification | 2,3 | |
| 23rd | 9:30 ~ 12:00 | P | Remote Sensing Technology: Various Supervised Classification Methods (Other Than Maximum Likelihood Method) | To learn various supervised classification methods | 2,3 | |
| | 13:00 ~ 16:00 | P | Review | To review techniques learned so far | 2,3 | |
| 24th | 9:30 ~ 12:00 | P | Ground Truth using GPS Data | To learn GPS Technology | 2,3,4 | |
| | 13:00 ~ 16:00 | P | Ground Truth using GPS Data | To learn how to use GPS Data for ground truth | 2,3,4 | |
| 25th | | | Day off | | | |
| 26th | 11:30 ~ 12:00 | | Shin-Sapporo Arc city Hotel→JICA Hokkaido | | | JICA Hokkaido |
| 27th | 9:30 ~ 12:00 | P | Change Detection | To learn the basic techniques of change detection | 2,3,4 | |
| | 13:00 ~ 16:00 | P | Change Detection | To learn the basic techniques of change detection | 2,3,4 | |
| 28th | 8:30 ~ 12:00 | P | Summary using ArcGIS (Area Summary, Land Use Change Summary) | To learn summary techniques using GIS | | |
| | 13:00 ~ 15:00 | P | Summary using ArcGIS (Land Use Change Summary) | To learn summary techniques using GIS | | |
| | 15:00 ~ 16:00 | L | Case study: Carbon Credits in Hokkaido | To know carbon trade on a regional level | | |
| 29th | 7:45 ~ 11:00 | Study Trip | Sapporo →Shimokawa Town | | | Undecided |
| | 11:00 ~ 17:50 | L/O | Lecture on Carbon Credits, Observation of Forests and Wood Processing Plants, etc. in Shimokawa Town | | | |
| 30th | 9:00 ~ 12:00 | L/O | Lecture and Observation of Hokkaido University Forests in Uryu Town | To learn about various researches conducted inside forests to broaden one's perspective | | JICA Hokkaido |
| | 12:00 ~ 16:00 | | Uryu Town → Sapporo | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 31st | 9:30 ~ 12:00 | P | Remote Sensing Technology: Review and Introduction of Application Examples | To learn the cutting edge technologies of remote sensing | 2,3 | | |
| | 13:00 ~ 16:00 | P | Remote Sensing Technology: Review and Introduction of Application Examples | To learn the cutting edge technologies of remote sensing | 2,3 | | |
| 32nd | | | Day off | | | | |
| 33rd | | | Day off | | | | |
| 34th | 9:30 ~ 12:00 | P | Observation & Data Processing by utilizing UAV | To learn the basic knowledge on UAV | 2,3 | | |
| 35th | 13:00 ~ 16:00 | P | Observation & Data Processing by utilizing UAV | To learn observation techniques using UAV | 2,3 | | |
| 36th | 9:30 ~ 12:00 | P | Observation & Data Processing by utilizing UAV | To learn point cloud processing | 2,3 | JICA Hokkaido | |
| | 13:00 ~ 16:00 | P | Basics of SAR Data | To learn the basic knowledge and application of remote sensing technology using microwaves | 2,3 | | |
| 37th | 9:30 ~ 12:00 | P | Basics of SAR Data | To learn the basic knowledge and application of remote sensing technology using microwaves | 2,3 | | |
| | 13:00 ~ 16:00 | P | Basics of SAR Data | To learn the basic knowledge and application of remote sensing technology using microwaves | 2,3 | | |
| 38th | 9:30 ~ 12:00 | P | Basics of SAR Data | To conform the techniques for the preparation of land cover map | 2,3 | | |
| | 13:00 ~ 16:00 | P | Concept for Estimation of Carbon Storage in Trees<br>Introduction of Countermeasures for Forest Damage Caused by Wild Animals | To learn about the estimation of carbon storage in trees and countermeasures for forest damage | 2,3,4 | | |
| 39th | 9:30 ~ 12:00 | P | Introduction of JICA's REDD+Project | | | | |
| | 13:00 ~ 16:00 | P | GIS Training: InVEST Model | To understand the calculation of carbon balance using InVEST model | 2,3,4 | | |
| 40th | | | Day off | | | | |
| 41st | | | Day off | | | | |
| 42nd | | | Day off | | | | |
| 43rd | 9:30 ~ 12:00 | P | GIS Training: InVEST Model | To understand the calculation of carbon balance using InVEST model | 2,3,4 | | |
| | 13:00 ~ 16:00 | P | GIS Training: InVEST Model | To understand the calculation of carbon balance using InVEST model | 2,3,4 | | |
| 44th | 9:30 ~ 12:00 | P | GIS Training: InVEST Model | To understand the calculation of carbon balance using InVEST model | 2,3,4 | | |
| | 13:00 ~ 17:00 | | School Visit | | | | |
| 45th | 9:30 ~ 12:00 | P | Database Techniques | To learn how to make forest database | 2,3,4,5 | | |
| | 13:00 ~ 16:00 | P | Database Techniques | To learn how to make forest database | 2,3,4,5 | | |
| 46th | 9:00 ~ 12:00 | P | Action Plan Preparation | | 2,3,4,5 | | |
| | 13:00 ~ 16:00 | P | Action Plan Preparation | | 2,3,4,5 | | |
| 47th | | | Day off | | | | |
| 48th | | | Day off | | | | |
| 49th | 9:00 ~ 12:00 | P | Action Plan Preparation | | 2,3,4,5 | | |
| | 13:00 ~ 16:00 | P | Action Plan Preparation | | 2,3,4,5 | | |
| 50th | 9:30 ~ 12:30 | Pr | Action Plan Presentation | | | | |
| | 14:00 ~ 16:00 | | Evaluation Meeting | | | | |
| | 17:00 ~ 17:30 | | Closing Ceremony | | | | |
| | 17:30 ~ 18:30 | | Farewell Party | | | | |
| 51st | | | Leave Japan | | | | |

L: Lecture O: Observation P: Practical Training Pr: Presentation D: Discussion

*1 RGU: Rakuno Gakuen University *2 NIES: National Institute for Environmental Studies *3 JAXA: Japan Aerospace Exploration Agency *4 JIFPRO: Japan International Forestry Promotion and Cooperation Center
*5 JOCA: Japan Overseas Cooperative Association

# *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) Essential Qualifications

1) Current Duties: preferably to be an administrative official or researcher currently to be engaged in forestry management or REDD. In some countries, forestry management or REDE are covered in the field of wildlife management, nature conservation and climate change mitigation. This course will accept the participant from such area. This course offers lots of practical training. So, participants must be using GIS/Remote Sensing software in their current duties.

2) Experience in the relevant field: should have more than 3 years of practical experience or research in forestry management or REDD,

3) Educational Background: should be a university graduate or have an equivalent qualification,

4) Language: have good command of spoken and written English which is equivalent to TOEFL CBT 200 or more, (This program includes active participation in discussions, an action plan development. Thus requires good competence of English ability. Please attach an official certificate for English ability such as TOEFL, TOEIC etc., if possible)

5) IT Literacy: must be needed. Nominees must know how to use Windows or Windows Office;

6) Health: must be in good health, both physically and mentally, to participate in the Program in Japan. ***Please notice that this course includes ground truth or field survey in the forest. Participants must have enough strength left to go through such survey in the field and bring comfortable shoes.***

### (2) Recommendable Qualifications

1) Expectations for the Participants:

2) Age: between the ages of twenty-five (25) and forty (40) years

## 3. Required Documents for Application

**(1) Application Form**: The Application Form is available at **the JICA office.**

*Pregnancy

Pregnant participants are strictly requested to attach the following documents in order to minimize the risk for their health.

1. letter of the participant's consent to bear economic and physical risks
2. letter of consent from the participant's supervisor
3. doctor's letter with permission of her training participation.

Please ask JICA Staff for the details.

**(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) Country Report:** to be submitted with the application form. Fill in the form (ANNEX) of this General Information, and submit it along with the Application Form.

**(4) 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. Procedures for Application and Selection:

### (1) Submission of the Application Documents:

Closing date for applications: **Please inquire to the JICA office.**

(After receiving applications, **the JICA office will send them to the JICA Center in JAPAN by June 12, 2015**)

### (2) Selection:

After receiving the documents through proper channels from your government, the JICA office 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.*

### (3) Notice of Acceptance

Notification of results will be made by the JICA office **not later than June 30, 2015.**

## 5. 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 Hokkaido (Sapporo)
   - **(2) Contact :** jicahkic@jica.go.jp and sictp1-sub@jica.go.jp
2. **Implementing Partner:**
   - **(1) Name:** Rakuno Gakuen University
   - **(2) URL:** http://www.rakuno.ac.jp/english/
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 Hokkaido (Sapporo) International Center (HKIC) |
| Address: Minami 4-25, Hondori 16-chome, Shiroishi-ku, Sapporo, Hokkaido, 003-8668, Japan |
| TEL: 81-11-866-8393 FAX: 81-11-866-8382 |
| JICA Tokyo International Center (TIC) |
| 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 Center, JICA will arrange alternative accommodations for the participants. Please refer to facility guide of HKIC/TIC at its URL, http://www.jica.go.jp/english/about/organization/domestic/index.html

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 "KENSHU-IN GUIDE BOOK," which will be given before departure for Japan.

6. **Pre-departure Orientation:**

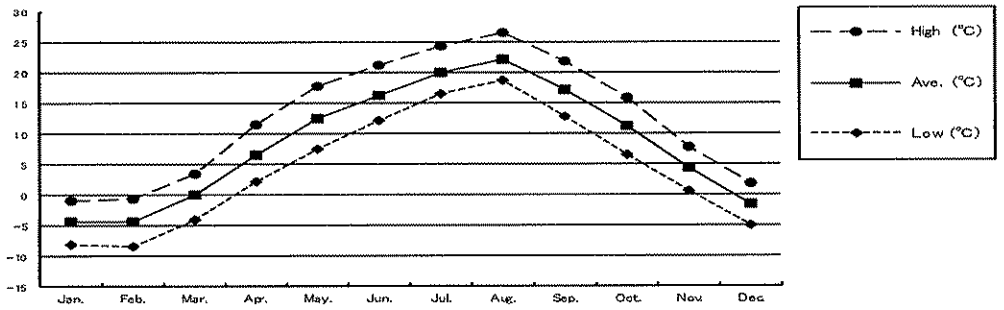
A pre-departure orientation will be held at the respective country's JICA office, to provide participants with details on travel to Japan, conditions of the workshop, and other matters.

# V. Other Information

1. Participants who have successfully completed the course will be awarded a certificate by JICA.

2. Toward the end of the course, each participant is to draft an Action Plan and present it. The Action Plan, which includes outcomes of this training, is a short to mid-term concrete plan of possible measures to tackle a high priority problem(s) related to introduction or application of remote sensing of forest resources or sound forestry management in the participant's capacity as a responsible officer. The participant is expected to fully utilize the ideas and techniques he/she has obtained through the training program in order to formulate "Action Plan" which will hopefully lead to the solution or mitigation of the above-mentioned problem.

3. Climate in Hokkaido




| | Jan. | Feb. | Mar. | Apr. | May. | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| High (°C) | -1 | -0.8 | 3.4 | 11.4 | 17.8 | 21 | 24.2 | 26.3 | 21.7 | 15.9 | 7.8 | 1.7 |
| Ave. (°C) | -4.4 | -4.4 | -0.2 | 6.5 | 12.2 | 16 | 19.8 | 22.1 | 17.1 | 11 | 4.1 | -1.6 |
| Low (°C) | -8.4 | -8.5 | -4.2 | 2.1 | 7.3 | 11.9 | 16.4 | 18.7 | 12.8 | 6.3 | 0.4 | -5 |
| Snow (cm) | 58 | 83 | 64 | 2 | | | | | | | 5 | 28 |

Typical Seasonal Wear: (August - September) T-shirt, long-sleeves, Light Jacket.

4. Recreation:
   1) Participants can use an indoor swimming pool and gymnasium located next to JICA Hokkaido. The charges are paid by JICA.

   2) JICA encourages international friendship exchange between participants and local communities. Therefore, it would be helpful for participants to bring their national costumes and materials such as slides, videos, and music cassettes, which introduce the culture in their countries.

5. Equipment in JICA Center
   JICA Center has following equipment for participants.
   <Utensils in the private room>
   Bed, Prefabricated Bath, Desk, Refrigerator, Hot pot, Bookshelf, Air Conditioning, In-room Safe, TV sets (CNN, NHK (BS), DVD/VHS Video Player)

   *ATTENTION: There are no slippers and towels. Soap, shampoo & conditioner, toothpaste & toothbrush, razor, detergent, sewing kit and CD-R can be purchased at the front desk.

   <Audio-visual equipment for training>
   Video recorder, Multimedia Projector (available to use Microsoft Power Point)

# VI. ANNEX:

## J15-04010
## Remote Sensing of Forest Resources(B)
## (JFY 2015)

## *Country Report*

Each Participant is requested to prepare the Country Report on the following issues and submit it to JICA Hokkaido along with the application form **by June 12, 2015**. The report should be typewritten in English on A4 size paper (21 cm x 29.5 cm) in single spacing at maximum of 10 pages.
This Report shall be used for selection of participants.

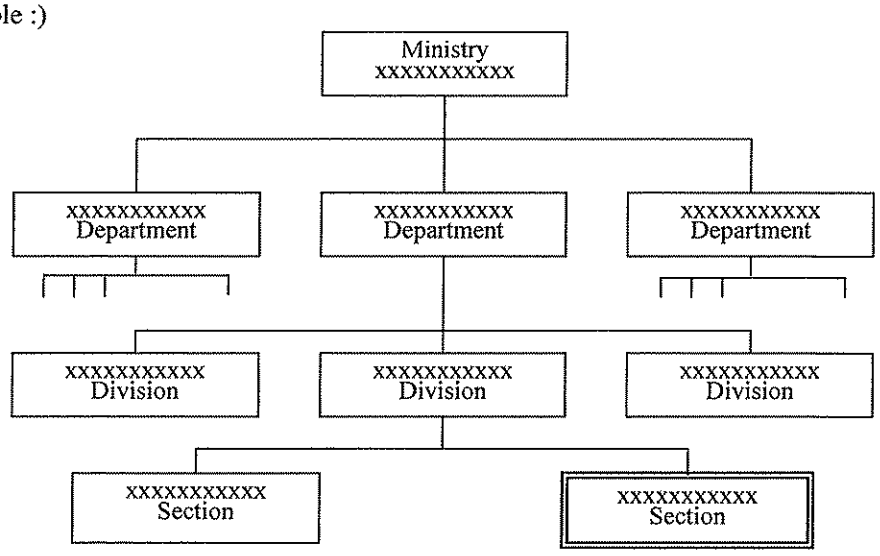
NOTE: Participants are requested to give a 20 minutes presentation and discuss about the situation of forestry management in respective country at beginning of the program by country. So, participants from the same country must prepare a single presentation by country, not by personal.

### 1. Basic information

| | |
|---|---|
| Name | |
| Country | |
| Organization | |
| Position | |
| Period | From to |
| Outline of duties: | |

### 2. Outline of the participant's Organization

(Example :)



3. **Describe present condition and/or historical trend of forests and forest management with specific figures in the applicant's country, in accordance with the following indicators respectively;**
   (Choose more than 2 indicators from among the following for the description)
   - ① Area and percent of forest by forest ecosystem types
   - ② Area and percent of forest specifically for conservation
   - ③ Area, percent and growing stock of plantations by species
   - ④ Value and volume of production of wood, wood products and non-wood products
   - ⑤ Status of legal and institutional framework on forest planning, policy development and coordination with relevant sectors
   - ⑥ Status of forest inventory, assessment and monitoring

   If there is no national data on the indicators, you can use provincial data or data at the project level as well.

4. **Current development of remote sensing of Forest Resources in the applicant's country**

5. **Problems/constraints on the development of remote sensing in the applicant's country**
   (Itemize 3 main issues which the applicant directly faces on and describe them)

6. **On-going efforts to specifically cope with the problems mentioned in 6. above**
   (If any)

7. **The applicant's role in development and application of remote sensing in the country**

8. **The applicant's experiences about remote sensing and GIS software specifically**

| | ENVI | Arc GIS | ERDAS IMAGINE | Ecognition | GPS | Others |
|---|---|---|---|---|---|---|
| Version: | | | | | | |
| Experience: (How often are you using this in your current duties?) | | | | | | |
| Purpose: (What do you use this for?) | | | | | | |
| Satellite data: (Describe specific data which you have analyzed) | | | | | | |

## 9. The applicant's knowledge and interest about remote sensing, GIS and GPS

| Items | Detail | Example | Please scale your knowledge by 1 ~ 4<br>1: I don't know it<br>2: I know it a little<br>3: I know it<br>4: I know it very well | Please check the boxes which you are interested.<br>*You could check more than one |
|---|---|---|---|---|
| Measuring | Unmanned Aerial vehicle | | | |
| | Ground truth with GPS and Camera | | | |
| Storing | Collecting data from Internet | | | |
| | Post processing UAV data | Point cloud from UAV data | | |
| | | Ortho rectified photo | | |
| | Pre/post processing satellite image(optical) | Data management (clip/mosaic/reproject/layer stuck/ pansharpning) | | |
| | | Convert value to DN to Radiance and to Reflectance | | |
| | | Atmospheric collection | | |
| | | Topographic collection | | |
| | Pre/post processing satellite image(SAR) | | | |
| Analyzing | Calculating index | Vegetation | | |
| | | Soil | | |
| | | Water | | |
| | Classifying satellite images | Unsupervised | | |
| | | Supervised | | |
| | | Objectbase classification | | |
| | Analyzing time series data | Change detection | | |
| | Spatial data analysis with GIS | Basic statistical method for spatial analysis | | |
| | | Calculate Carbon stock using GIS model | | |
| | | Summarizing data | | |
| Visualizing | 3D visualization | | | |
| | How to create a understandable map | | | |

10. **Knowledge or skills which the applicant intends to acquire from this training program.**
    (example: knowledge of technical issues about REDD, skills of using remote sensing software for change detection of landuse in your site)

11. **Plans/projects which you are likely to be involved in your country after completing the training, if any**

12. **In the applicant's country, what kind of effort/action for REDD can be made?**
    (example: law, policy, finance and aid)

13. **Describe the target area which you want to deal with in your action plan in concrete terms**

## *For Your Reference*

**JICA and Capacity Development**

The key concept underpinning JICA operations since its establishment in 1974 has been the conviction that "capacity development" is central to the socioeconomic development of any country, regardless of the specific operational scheme one may be undertaking, i.e. expert assignments, development projects, development study projects, training programs, JOCV programs, etc.

Within this wide range of programs, Training Programs have long occupied an important place in JICA operations. Conducted in Japan, they provide partner countries with opportunities to acquire practical knowledge accumulated in Japanese society. Participants dispatched by partner countries might find useful knowledge and re-create their own knowledge for enhancement of their own capacity or that of the organization and society to which they belong.

About 460 pre-organized programs cover a wide range of professional fields, ranging from education, health, infrastructure, energy, trade and finance, to agriculture, rural development, gender mainstreaming, and environmental protection. A variety of programs and are being customized to address the specific needs of different target organizations, such as policy-making organizations, service provision organizations, as well as research and academic institutions. Some programs are organized to target a certain group of countries with similar developmental challenges.

**Japanese Development Experience**

Japan was the first non-Western country to successfully modernize its society and industrialize its economy. At the core of this process, which started more than 140 years ago, was the *"adopt and adapt"* concept by which a wide range of appropriate skills and knowledge have been imported from developed countries; these skills and knowledge have been adapted and/or improved using local skills, knowledge and initiatives. They finally became internalized in Japanese society to suit its local needs and conditions.

From engineering technology to production management methods, most of the know-how that has enabled Japan to become what it is today has emanated from this "*adoption and adaptation*" process, which, of course, has been accompanied by countless failures and errors behind the success stories. We presume that such experiences, both successful and unsuccessful, will be useful to our partners who are trying to address the challenges currently faced by developing countries.

However, it is rather challenging to share with our partners this whole body of Japan's developmental experience. This difficulty has to do, in part, with the challenge of explaining a body of "tacit knowledge," a type of knowledge that cannot fully be expressed in words or numbers. Adding to this difficulty are the social and cultural systems of Japan that vastly differ from those of other Western industrialized countries, and hence still remain unfamiliar to many partner countries. Simply stated, coming to Japan might be one way of overcoming such a cultural gap.

JICA, therefore, would like to invite as many leaders of partner countries as possible to come and visit us, to mingle with the Japanese people, and witness the advantages as well as the disadvantages of Japanese systems, so that integration of their findings might help them reach their developmental objectives.

***CORRESPONDENCE***

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