



# Knowledge Co-Creation Program (Group & Region Focus)

## GENERAL INFORMATION ON

### REMOTE SENSING OF FOREST RESOURCES

課題別研修「森林リモートセンシング」

**JFY 2023**

**Course No:202208434-J001**

**Course Period in Japan: From June 27, 2023 to August 10, 2023**

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 Program (KCCP)' as a New Start

In the Development Cooperation Charter which was 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**

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 increase 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 (Course No: Remote Sensing of Forest Resources (202208434-J001))**
- 2. Course Period in JAPAN:** June 27 to August 10, 2023
- 3. Target Regions or Countries:**  
Cambodia, Laos, Solomon Islands, Brazil, Colombia, Congo, Gabon
- 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) :** 7 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:

<b>(1) Preliminary Phase in a participant's home country</b> (April 2023 to May 2023) <i>Participating organizations make required preparation for the Program in the respective country.</i>	
Expected Modules Output	Activities
To overview the present situation and issues of forestry management in participants' respective countries	Preparation and submission of Inception Report

(2) **Core Phase in Japan** (June 27, 2023 to August 10, 2023)

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

Expected Modules Output	Contents	Activities
<ul style="list-style-type: none"><li>To acquire the current knowledge about the REDD+ using a remote sensing</li></ul>	<ul style="list-style-type: none"><li>Review of important background related to remote sensing and GIS work such as Climate change, REDD+, SDGs, etc.</li><li>Updating Remote sensing, GIS technologies</li></ul>	Lecture Observation
<ul style="list-style-type: none"><li>To learn about the basic theory and skills of remote sensing</li></ul>	<ul style="list-style-type: none"><li>Overview of remote sensing</li><li>Remote sensing data characteristic including SAR and Lidar data</li><li>Preprocessing</li><li>Basic of classification and change detection</li><li>Basic of accuracy assessment</li></ul> <p><b>*QGIS is mainly used</b></p>	Lecture and practice
<ul style="list-style-type: none"><li>To acquire the knowledge and technique for the practical use of remote sensing of forest resources</li></ul>	<ul style="list-style-type: none"><li>Google Earth Engine for National level remote sensing analysis</li><li>Biomass estimation, Forest fire etc.</li><li>Drone Operation and data analysis</li></ul> <p><b>*Google Earth Engine is used</b></p>	Lecture and Practice
<ul style="list-style-type: none"><li>To acquire the knowledge and technique for the practical use of GIS/GPS of forest resources</li></ul>	<ul style="list-style-type: none"><li>Field data acquisition and database development</li><li>Basic GIS for your action and community development (Potential mapping etc.)</li></ul> <p><b>*QGIS is mainly used</b></p>	Lecture and Practice
<ul style="list-style-type: none"><li>To formulate the practical Action Plan for solving their own issues</li></ul>	<ul style="list-style-type: none"><li>Planning for understanding the forest resources in their own countries using remote sensing</li></ul>	To prepare action plan and make it presentation

**NOTE:** (1)

**Each participant must submit Inception Report before arriving in Japan.**

Participants are requested to make Inception Report Presentation 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. Participants must prepare for Inception Report presentation before arriving in Japan. Inception Report must be written in English and fifteen (15) minutes will be allocated to each participant

for the presentation (including interpretation and discussion). Presentation by using Microsoft Power Point is highly recommended. If possible, it is also recommended to bring a CD-R or USB etc. in which the Inception Report is saved, that will facilitate report making.

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

<b>(3) Finalization Phase in a participant's home country</b>	
<i>Participating organizations produce final outputs by making use of results brought back by participants. This phase marks the end of the Program.</i>	
Modules	Activities
Implementation of the Action Plan	Application and implementation of the Action Plan back in respective home country

**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 could, please bring some Information and your Target Area Data for the practical lesson and also for Action Plan Report.**

## <Structure of the program>

### 1<sup>st</sup> Week @Tokyo

Module1. To acquire the current knowledge about the REDD+ using remote sensing

- Review of important background related to remote sensing and GIS work.  
(Climate Change, REDD+, SDGs, Partnership etc.)
- Basic information of Satellite Operation
- Geospatial data infrastructure of Japanese Government
- Latest technologies on Remote Sensing, GIS, GPS
- Overview of forest management in Japan
- Introduction of JICA projects related to Sustainable Forest management

### 2<sup>nd</sup> Week @Hokkaido

Module2. To learn about the basic theory and skills of remote sensing

- Overview of Remote sensing
- Remote sensing data characteristic including SAR and Lidar data
- Understanding preprocessing of remote sensing data
- Basic of classification and change detection
- Basic of Accuracy assessments

### 3<sup>rd</sup>, 4<sup>th</sup> Week @Hokkaido

Module3. To acquire the knowledge and techniques for the practical use of remote sensing of forest resources

- Google Earth Engine for National level remote sensing analysis
- Remote Sensing analysis: Forest fire analysis, Biomass estimation, etc.
- Drone Operation and its data analysis

### 5<sup>th</sup>, 6<sup>th</sup> @Hokkaido

Module4. To acquire the knowledge and techniques for the practical use of GIS/GPS of forest resources

- Field data acquisition and database development
- Basic GIS for your action and community development  
(Potential mapping etc.)

### 7<sup>th</sup> Week @Hokkaido

Molude5. To formulate the practical Action Plan for solving their own issues

- Action plan preparation

The inception report presentation will be held at the beginning of this course.



Pictures of previous course: left: lecture of Climate change etc. center: Technical training of remote sensing, right: Drone operation at a test field

### ***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 REDD+ 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. 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 to participate in the program in Japan. To reduce the risk of worsening symptoms associated with respiratory tract infection, please be honest to declare in the Medical History (QUESTIONNAIRE ON MEDICAL STATUS RESTRICTION of the application form) if you have been a patient of following illnesses; Hypertension / Diabetes / Cardiovascular illness / Heart failure / Chronic

respiratory illness.

## **(2) Recommended Qualifications**

- 1) Expectations for the Participants:
- 2) Age: between the ages of twenty-five (25) to forty (40) years.
- 3) Gender Equality and Women's Empowerment: <1>Women are encouraged to apply for the program. JICA is committed to promoting gender equality and women's empowerment, and provides equal opportunities for all applicants regardless of their sexual orientation or gender identity. / <2>JICA seeks more female applicants due to the past records of fewer applications from women. JICA is committed to promoting gender equality and women's empowerment, and provides equal opportunities for all applicants regardless of their sexual orientation or gender identity.

**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.**

## **3. Required Documents for Application**

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

**(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) Inception 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.**

**(All required material must arrive at JICA Center in Japan by May 12, 2023)**

### **(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.* 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 **not later than May 26 2023.**

**5. Conditions for Attendance:**

The participants of KCCP are required

- (1) to strictly observe the course schedule,
- (2) not to change the air ticket (and flight class and flight schedule arranged by JICA) and lodging by the participants themselves,
- (3) to understand that leaving Japan during the course period (to return to home country, etc.) is not allowed (except for programs longer than one year),
- (4) not to bring or invite any family members (except for programs longer than one year),
- (5) to carry out such instructions and abide by such conditions as may be stipulated by both the nominating Government and the Japanese Government in respect of the course,
- (6) to observe the rules and regulations of the program implementing partners to provide the program or establishments,
- (7) not to engage in political activities, or any form of employment for profit,
- (8) to discontinue the program, should the participants violate the Japanese laws or JICA' s regulations, or the participants commit illegal or immoral conduct, or get critical illness or serious injury and be considered unable to continue the course. The participants shall be responsible for paying any cost for treatment of the said health conditions except for the medical care stipulated in (3) of "5. Expenses" , "IV. Administrative Arrangements" ,
- (9) to return the total amount or a part of the expenditure for the KCCP depending on the severity of such violation, should the participants violate the laws and ordinances,
- (10) not to drive a car or motorbike, regardless of an international driving license possessed,
- (11) to observe the rules and regulations at the place of the participants' accommodation, and

(12) to refund allowances or other benefits paid by JICA in the case of a change in schedule.



## IV. Administrative Arrangements

### 1. Organizer (JICA Center in Japan)

(1) **Name:** JICA Hokkaido (Sapporo)

(2) **Program Officer:**

Ms. Shinjee Bolorchimeg ([Shinjee.Bolorchimeg@jica.go.jp](mailto:Shinjee.Bolorchimeg@jica.go.jp))

**Assistant:**

Ms. Fujita Yumi ([Fujita-Yumi@jica.go.jp](mailto:Fujita-Yumi@jica.go.jp))

### 2. Implementing Partner:

(1) **Name:** Rakuno Gakuen University

(2) **URL:** <http://en.rakuno.ac.jp>

### 3. Travel to Japan:

(1) **Air Ticket:** In principle, JICA will arrange an economy-class<sup>41</sup> round-trip ticket between an international airport designated by JICA and Japan.

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

### 4. Accommodation in Japan:

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

JICA Hokkaido Center (Sapporo) : JICA Sapporo Address: Minami 4-25, Hondori 16-chome, Shiroishi-ku, Sapporo, Hokkaido, 003-8668, Japan TEL: 81-11-866-8393 FAX: 81-11-866-8382
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\*(where “81” is the country code for Japan, and “11” 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 in Japan will be provided by JICA

(1) Allowances for meals, living expenses, outfits, and shipping and stopover.

(2) Expenses for study tours (basically in the form of train tickets).

(3) Medical care for participants who become ill after arriving in Japan (the costs related to pre-existing illness, pregnancy, or dental treatment are not included).

(4) Expenses for program implementation, including materials.

(5) 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.

\*Link to JICA HP (English/French/Spanish/Russian):

[https://www.jica.go.jp/english/our\\_work/types\\_of\\_assistance/tech/acceptance/training/index.html](https://www.jica.go.jp/english/our_work/types_of_assistance/tech/acceptance/training/index.html)

## 6. Pre-departure Orientation

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

\*YouTube of "Knowledge Co-Creation Program and Life in Japan" and "Introduction of JICA Center" are viewable from the link below.

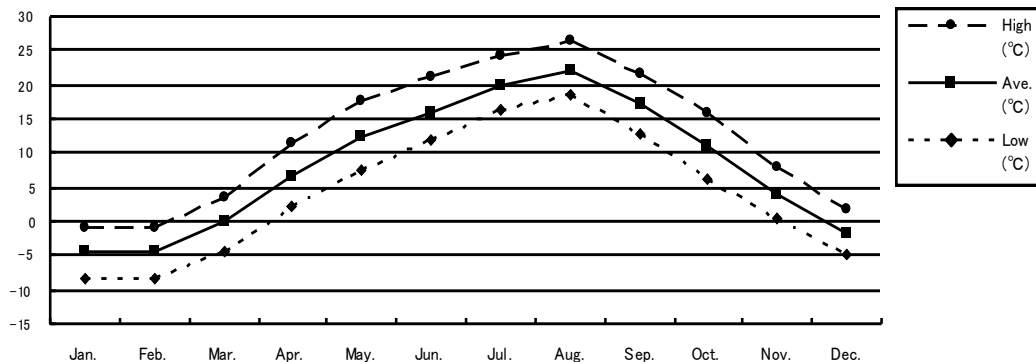
Image videos of 'Introduction of JICA Center (YouTube)' show the following information of JICA Centers: Location, Building, Entrance, Reception(Front desk), Lobby, Office, Accommodation(Room), Amenities(Hand dryer), Bathroom(Shower and Toilet), Toiletries, Restaurant, Laundry Room(Washing machine, Iron), ICT Room(Computer for participants), Clinic, Cash dispenser, Gym, Neighborhood

<b>Part I: Knowledge Co-Creation Program and Life in Japan</b>	
English ver.	<a href="https://www.youtube.com/watch?v=SLurfKugrEw">https://www.youtube.com/watch?v=SLurfKugrEw</a>
<b>Part II: Introduction of JICA Centers in Japan</b>	
JICA Hokkaido (Sapporo)	<a href="https://www.jica.go.jp/sapporo/english/office/index.html">https://www.jica.go.jp/sapporo/english/office/index.html</a>

## V. Other Information

- Participants who have successfully completed the course will be awarded a certificate by JICA.
- 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: (May-June) Light Jacket / Sweater / Long Pants

- Recreation:
  - Participants can use an indoor swimming pool and gymnasium located next to JICA Hokkaido. The charges are paid by JICA.
  - 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.
- 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 Player)
- School Visit  
 JICA encourages participants to interact with the local community, and in this context, JICA will arrange a visit to local school during their stay in Japan. If the participant wishes to bring items to show to Japanese pupils, here are some suggestions: Textbooks (primary school), traditional toys and games, national costume, musical instruments, typical crafts using local materials, pictures

showing daily life, small national flag, local newspaper. (Bringing these items is not a requirement.)

### 7. About JICA Hokkaido (Sapporo)

Website: <https://www.jica.go.jp/sapporo/english/office/index.html>

Youtube: <https://www.youtube.com/watch?v=ZTw5Dtcu8o4>



## **VI. ANNEX:**

### **202208434-J001** **Remote Sensing of Forest Resources** **(JFY 2023)**

#### **Inception Report**

Each Participant is requested to prepare the Inception Report on the following issues and submit it to JICA Hokkaido along with the application form **by May 12, 2023**. 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.

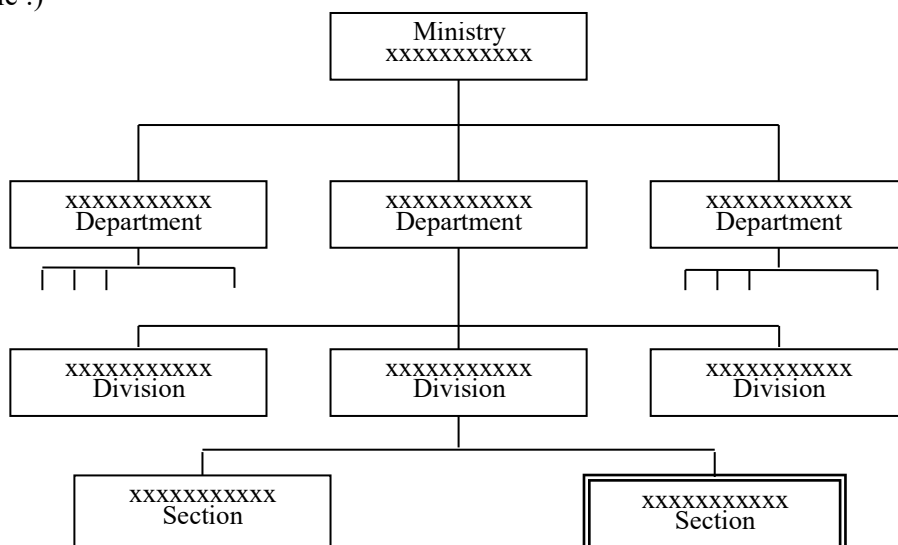
NOTE: Participants are requested to give a 15 minutes presentation and discuss about the situation of forestry management in respective country at beginning of the program by country. It is recommended to use Microsoft Power Point for the presentation.

#### **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. What is your personal challenge that you want to solve through this training program?**

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

	QGIS	ArcGIS	ERDAS IMAGINE	Ecognition	ENVI	Google Earth Engine	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)								



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

Items	Detail	Example	Please scale your knowledge by <u>1~4</u> 1: I don't know it 2: I know it a little 3: I know it 4: I know it very well	Please check <input type="checkbox"/> the boxes which you are interested. <small>*You could check more than one</small>
*Example	○○○○	○○○○	1	<input type="checkbox"/>
	○○○○	○○○○	3	
Measuring	Aerial photos using a drone			
	Collecting field data using mobile device	GPS, smartphone, tablet etc.		
Storing	Downloading satellite imagery and GIS data.			
	Create GIS data	Georeferencing paper maps and tracing them		
	Drone data processing	Ortho rectified mosaic photo and making 3D model		
	Pre/post processing optical satellite images	clipping /mosaicking / reprojecting/ layer stacking satellite imagery		
		Calibration (calculating Reflectance value, atmospheric/topographic correction)		
Pre/post processing microwave satellite images	Calibration (calculating db value (sigma, beta, gamma naught)			
Analyzing	Calculating index	NDVI, NDSI, NDWI		
	Classification ( Unsupervised, Supervised classification)	Pixel based classification		
		Object based classification		
	Change detection			
	Spatial data analysis with GIS	Carbon stock mapping		
Mapping with statistical models				
Programming based remote sensing or GIS	Google Earth Engine			
	Other programming language	R, Python, etc.		

### 11. 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)

### 12. In the applicant's country, what kind of effort/action for REDD+ can be made?

(example: law, policy, finance and aid)

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

**14. Describe the target area which you want to deal with in your action plan in concrete terms. \*Please attach the Map below**

**Area Name:**

**Longitude and Latitude:**

**MAP:**

## *For Your Reference*

### **JICA and Capacity Development**

Technical cooperation is people-to-people cooperation that supports partner countries in enhancing their comprehensive capacities to address development challenges by their own efforts. Instead of applying Japanese technology per se to partner countries, JICA's technical cooperation provides solutions that best fit their needs by working with people living there. In the process, consideration is given to factors such as their regional characteristics, historical background, and languages. JICA does not limit its technical cooperation to human resources development; it offers multi-tiered assistance that also involves organizational strengthening, policy formulation, and institution building.

Implementation methods of JICA's technical cooperation can be divided into two approaches. One is overseas cooperation by dispatching experts and volunteers in various development sectors to partner countries; the other is domestic cooperation by inviting participants from developing countries to Japan. The latter method is the Knowledge Co-Creation Program, formerly called Training Program, and it is one of the core programs carried out in Japan. By inviting officials from partner countries and with cooperation from domestic partners, the Knowledge Co-Creation Program provides technical knowledge and practical solutions for development issues in participating countries.

The Knowledge Co-Creation Program (Group & Region Focus) has long occupied an important place in JICA operations. About 400 pre-organized courses 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 is being customized by the different target organizations to address the specific needs, 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, as the first non-Western nation to become a developed country, built itself into a country that is free, peaceful, prosperous and democratic while preserving its tradition. Japan will serve as one of the best examples for our partner countries to follow in their own development.

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 a process of adoption and adaptation, of course, has been accompanied by countless failures and errors behind the success stories.

Through Japan's progressive adaptation and application of systems, methods and technologies from the West in a way that is suited to its own circumstances, Japan has developed a storehouse of knowledge not found elsewhere from unique systems of organization, administration and personnel management to such social systems as the livelihood improvement approach and governmental

organization. It is not easy to apply such experiences to other countries where the circumstances differ, but the experiences can provide ideas and clues useful when devising measures to solve problems.

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.



**Contact Information for Inquiries**

*For inquiries and further information, please contact the JICA overseas office or the Embassy of Japan. Further, address correspondence to:*

**JICA Hokkaido Center (JICA Hokkaido, Sapporo)**  
**Address: Minami 4-25, Hondori 16-chome, Shiroishi-ku, Sapporo,**  
**Hokkaido, 003-8668, Japan**  
**TEL: +81-11-866-8393 / FAX: +81-11-866-8382**