No.12040/5/2014-TRG(FTC/IR)
Government of India
Ministry of Personnel, Personnel Grievances and Pensions
Department of Personnel and Training
[Training Division]

Block-4, Old JNU Campus
New Mehrauli Road, New Delhi-67
Dated – February 11, 2014

**TRAINING CIRCULAR**

Subject: Group Training Course in 'Alternative Power Generation Technology for Low Carbon Society (A)' to be held in Japan from May 14 to June 19, 2014 under the Technical Cooperation Programme of the Government of Japan

The undersigned is directed to state that the Japan International Cooperation Agency (JICA) has invited applications for the above mentioned training programme to be held in Japan from May 14 to June 19, 2014 under the Technical Cooperation Programme of the Government of Japan.

2. The programme aims to realize a low carbon society by opting the best suitable energy policy and will provide the participants a platform to explode a range of power generation technologies and identify the one that will best suit one's country.

3. The programme is offered to the Government officials who are in charge of energy policy and promotion of renewable energy and electric power corporation.

4. The applying organizations are expected to select nominees who are currently engaged in making energy policy and promotion of renewable energy and who meets the required eligibility criteria. The candidates for this course should have at least 5 years of experience in the relevant field; be an university graduate; have a competent command of spoken and written English; be in good health (both physically and mentally); not be a part of military service. The candidates having age group of 30 to 50 years will be preferable.

5. In addition to above, the following information in respect of the nominated officers may please be mentioned while furnishing the nomination:-

a) Whether attended any foreign training programme in the past? If so, the duration/detail thereof;
b) Whether cleared from vigilance angle;
c) Age;
d) Whether working in North East State/J&K;
e) A brief in 50-100 words justifying the nomination.

6. The course covers the cost of a round-trip air ticket between international airport designated by JICA and Japan; travel insurance from the time of arrival in Japan to departure from Japan; allowances for (accommodation, living expenses, outfit and shipping); expenses for JICA study tours and free medical care for participants who may fall ill after reaching Japan (costs relating to pre-existing illness, pregnancy, or dental treatment are not included).

7. It is therefore requested that the nomination of suitable candidates may please be forwarded **(in duplicate)** in JICA's prescribed form (available in **persmin.nic.in→DOPT→Training Wing→Circular→JICA)** to this Department duly authenticated by the HOD of the concerned department in accordance with the eligibility criteria.

8. The applications should reach this Department through the Administrative Ministry/State Government not later than **March 11, 2014**. Nominations received after the prescribed date will not be considered. The details of the programme may be drawn from Ministry of Personnel, Public Grievances and Pensions' website **(persmin.nic.in).**

**(N.K. Wadhwa)**
Under Secretary to the Government of India
Tele.No.011-26165682
E-mail-ID naresh.wadhwa@nic.in

**Copy to:**

a) The Secretary, Ministry of Power, Shram Shakti Bhavan, New Delhi- 110001,
b) The Secretary, Ministry of New & Renewable Energy, Block 14, CGO Complex, Lodhi Road, New Delhi – 110003,
c) The Chief Secretaries to all the State Governments/Union Territories(with request to circulate the same amongst their related Departments/Organizations),
d) NIC with request to post the circular along with the JICA's circular on this Department's website.

# GROUP AND REGION-FOCUSED TRAINING

**GENERAL INFORMATION ON**

**ALTERNATIVE POWER GENERATION TECHNOLOGY FOR LOW CARBON SOCIETY (A)**
**課題別研修「低炭素化社会実現のための発電技術（A）」**
***JFY 2014***
**NO. J1404345 / ID. 1480252**
**Course Period in Japan: From 14 May 2014 to 19 June 2014**

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**

A strong Low Carbon Society portfolio could contribute to a country's energy security, emissions reduction and access to energy.

Low Carbon Society (LCS) is a society that has a minimal output of carbon dioxide emissions into the environment. The aim of a low carbon society is to integrate all aspects of society to produce energy and materials with little carbon emissions. It is a significant concept for all nations of various levels of development to pursue economic development in a sustainable manner.

In order for a nation to pursue LCS, one must opt a suitable energy solution. Some countries are highly dependent on imported fossil fuels and hydro power generation that are prone to market fluctuations and bad weather. Some countries face high energy costs, while some still suffer from low electrification rate.

This program covers a range of energy generation technologies ubiquitous in Kyushu region of Japan that range from thermal power generation to wind, geothermal and photovoltaic power generation. A focus will also be given to *High-Efficient Coal (or Gas)-Fired Power Generation* that will provide hints in replacing conventional operation of thermal power generation.

Program participants will receive an up-to-date and comprehensive overview on renewable energy, covering technological aspects, recent trends and projections, best corporate practices, and issues surrounding each technology, and solutions to overcome them. After attending the course, participants will be able to make informed choices on energy and climate policy and to structure strategies for accelerating the deployment of alternative energy in their country in a cost-efficient way.

**For what?**

This program aims to realize a low carbon society by opting the best suitable energy policy.

**For whom?**

Governmental organization in charge of energy policy and promotion of renewable energy, and electric power corporation

**How?**

This program will provide government officials and engineers in electric power

corporations a platform to explore a range of power generation technologies and identify the one that will best suit one's country. Participants will also formulate an action plan describing what the participant will do after they go back to home country putting the knowledge and ideas acquired and discussed in Japan into their on-going activities.

# *II. Description*

1. **Title (J-No.): Alternative Power Generation Technology of Low Carbon Society (A) (J1404345)**

2. **Course Period in JAPAN**
   14 May to 19 June, 2014

3. **Target Regions or Countries**
   Bangladesh, Bosnia and Herzegovina, India, Kazakhstan, Nigeria, Pakistan, Philippines, Serbia, and Thailand

4. **Eligible / Target Organization**
   This program is designed for a governmental organization in the field of energy policy and/or climate policy

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

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

7. **Course Objective:**
   Action plan is prepared to introduce alternative power generation technologies for achieving a low carbon society

8. **Overall Goal**
   To enhance energy policy and/or climate policy by introducing alternative power generation technology and to achieve a low carbon society.

## 9. Expected Module Output and Contents:

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

| Expected Module Output | | Subjects/Agendas | Methodology |
|---|---|---|---|
| To understand the reason why we should aim a low carbon society | 1 | Global problems to be solved jointly | Lecture |
| | 2 | International efforts towards a low carbon society | Lecture |
| | 3 | Efforts made by local governments towards a low carbon society | Lecture |
| | 4 | Climate change mitigation measures of Kitakyushu City | Lecture |
| | 5 | Japan's renewable energy policy | Lecture |
| To understand the high efficient coal (or gas) fired thermal power generation technology | 6 | Introduction to clean and high efficient thermal power generation | Lecture |
| | 7 | Study tour to coal(and/or gas) fired thermal power plant | Field visit |
| | 8 | Low-carbon efforts by electric power company | Lecture |
| To understand renewable energy generation technology and its problems for promotion and to learn energy saving technology | 9 | Introduction to solar energy application technology | Lecture |
| | 10 | Study tour to solar energy application laboratory | Field visit |
| | 11 | Introduction to photovoltaic technology | Lecture |
| | 12 | Study tour to photovoltaic power station | Field visit |
| | 13 | Introduction to wind power generation technology | Lecture |
| | 14 | New wind power generation technology | Lecture and Field visit |
| | 15 | Study tour to wind power station | Field visit |
| | 16 | Introduction to geothermal power generation technology | Lecture |
| | 17 | Study tour to geothermal power station | Field visit |
| | 18 | Introduction to small/micro hydropower technology | Lecture |
| | 19 | Small hydropower promoted by local governments | Lecture |
| | 20 | Regional development efforts by small hydropower technology | Field visit |
| | 21 | Waste management and biomass energy technology | Lecture |
| | 22 | Study tour to biomass power station | Field visit |
| | 23 | Introduction to marine energy application | Lecture and Field visit |

| | | | |
|---|---|---|---|
| | 24 | World's trend in renewable energy usage and its promotional measures | Lecture |
| | 25 | Introduction to energy saving technology | Lecture |
| | 26 | Effective measures for promoting energy saving | Lecture |
| | 27 | Nuclear Power Plant | Field visit |
| To prepare action plan for introducing alternative power generation technologies in achievement of low carbon society | 28 | Issue analysis discussion | Discussion |
| | 29 | Facilitation | Discussion |
| | 30 | Guidance on Action Plan presentation | Lecture |
| | 31 | Action Plan presentation | Presentation |
| To obtain useful information to improve economical & environmental situation of local community | 32 | 3R (reduce, reuse, recycle) activities in local government | Lecture |
| | 33 | Approach to vitalize works in small/medium companies | Lecture and Field visit |
| | 34 | Local community activation using geothermal energy | Field visit |
| | 35 | Historical background for development of electric appliance | Field visit |

## 10. Preparation in a participant's home country

Applying organizations are required to submit Job Report and IAS together with the application form for selection in Japan (Annex I & II).

# *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: be in charge of energy policy and promotion of renewable energy

2) Experience in the relevant field: have more than 5 years' experience

3) Educational Background: be a graduate of university

4) Language: have a competent command of spoken and written English which is equal to TOEFL iBT 100 or more (This program includes active participation in discussions, which requires high competence of English ability. Please attach an official certificate for English ability such as TOEFL, TOEIC etc, if possible)

5) Health: must be in good health, both physically and mentally, to participate in the Program in Japan.

6) Must not be serving any form of military service.

### (2) Recommendable Qualifications

Age: between the ages of thirty (30) and fifty (50) years

## 3. Required Documents for Application

**(1) Application Form**: The Application Form is available at **the JICA office (or the Embassy of Japan).**

*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) Nominee's English Score Sheet (if any)**: to be submitted with the application form. If you have any official documentation of English ability (e.g., TOEFL, TOEIC, IELTS), please attach it (or a copy) to the application form.

**(4) Job Report (Annex I) and Issue Analysis Sheet (IAS: Annex II)**: to be submitted with the application form.

## 4. Procedures for Application and Selection:

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

Closing date for applications: Please inquire to the JICA office (or the Embassy of Japan).

（After receiving applications, the JICA office (or the Embassy of Japan) will send them to the JICA Center in JAPAN by **March 21, 2014**）

### (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.

**(3) Notice of Acceptance**

Notification of results will be made by the JICA office (or the Embassy of Japan) **not later than April 14, 2014.**

**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 KYUSHU

**(2) Contact**: Ms. SAKONO Akiko (kicttp@jica.go.jp)

**2. Implementing Partner:**

(1) Name: Kitakyushu International Techno-cooperative Association (KITA)
(2) URL: http://www.kita.or.jp/english/e index.html
(3) Remark: KITA has carried out JICA training projects since 1980, and over the period from 1980 to 2011 has accepted a total of 6,207 participants. The courses cover environmental policies, promotion of a recycling-oriented society, production techniques and facility maintenance as well as projects related to the improvement of work training management ability, and in 2011 it offers a total of 39 courses.

**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 Kyushu International Center (JICA KYUSHU)
Address: 2-2-1, Hirano, Yahata-Higashiku, Kitakyushu-shi, Fukuoka 805-8505, JAPAN
TEL: 81-93-671-6311 FAX: 81-93-671-0979
(where "81" is the country code for Japan, and "93" is the local area code)

If there is no vacancy at JICA KYUSHU, JICA will arrange alternative accommodations for the participants. Please refer to facility guide of KIC at its URL, http://www.jica.go.jp/english/contact/domestic/

**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 (or Japanese Embassy), to provide participants with details on travel to Japan, conditions of the workshop, and other matters.

# *V. Other Information*

**1. Reports and Presentation:**

**(1) Job Report and Issue Analysis Sheet (IAS)**

As written in the previous page, each nominee is required to submit his/her own Job Report and IAS following the instruction in the previous sections. Participants will have a presentation of his/her Job Report & IAS up to 10 minutes at the earlier stage of the training program in order to share knowledge and background with other participants as well as the instructors. Visual materials such as Power Point and pictures may be helpful for your presentation if you bring them with you. When you use PowerPoint, it is preferable to use letters more than 24 points and not to use pictures on the background.

**(2) Action Plan Report**

Participants are required to formulate an action plan at the end of the training program to express your idea and plan, which you carry out after your return, reflecting the knowledge and method you acquire from the training. Each participant will have 10 minutes for presentation. The report would be sent to the respective country's JICA office.

**(3) Laptop PC**

It is strongly recommended that the participants bring their own laptops upon arrival in Japan. They will be useful to take notes, modify reports, and prepare for presentations. If one does not bring, then s/he can check out from KIC Library, but please be reminded the only English OS is available.

**3. Remarks:**

JICA training is implemented for the purpose of development of human resources who will promote the advancement of the countries, but not for the enrichment of individuals or private companies. Matters of a trade secret and patent techniques will remain confidential and inaccessible during the training.

**ALTERNATIVE POWER GENERATION TECHNOLOGY**
**FOR LOW CARBON SOCIETY (A)**
**(JFY 2014)**
***Job Report***

Name: _____
Country: _____
Organization and present post: _____
E-mail: _____
FAX: _____

Remarks 1: The Report should be typewritten in English (12-point font, appropriately spaced, A4 size paper) and total pages of the report should be limited to 3 pages (not including organization chart).
Remarks 2: Please don't forget checking the analysis sheet
Remarks 3: Each participant is required to have presentation in 10 minutes based on this Job Report at the early stage of the training for the purpose of making the training more effective and fruitful by comprehending the situations and problems of the participants each other.
Remarks 4: It is also requested to prepare a POWERPOINT for the presentation. When you use PowerPoint, it is preferable to use letters more than 24 points and not to use pictures on the background.
Remarks 5: Please itemize your answer and make them specific

## 1. Organization and main tasks (up to 1 page)

(1) Main tasks of the organization
(Please include annual turnover or product amount, name of products and number of employees.)

(2) Organization chart
Please draw a chart of your organization including the department (section) names with the number of staffs in it and mark where you are positioned (The chart should be attached and not be counted in this page limit).

(3) Brief description of your assignments

**2. Existing challenges in your section (up to 1 page)**

(1) Challenges you are facing in your section (Please describe concrete details)

(2) Countermeasures for these challenges

(3) Obstacles in the process of solving those challenges

**3. Expectations for the training course (up to 1 page)**

(1) Most interesting subjects or topics in this training course and reasons why you pick up the subjects

(2) How do you expect to apply skills and knowledge according the listed items in Curriculum after you return to your home country?

(3) Other matters you are expecting for this course, if any.
(Basically this training program is fixed and cannot be changed upon your request.)

**4. Have you ever learned the following subjects in your work? We would like to know your work experience. Please check either “Yes” or “No”.**

If your answer is "Yes", please fill out the number of years you have engaged in the respective work under the item “Years”.

| | Yes | No | Years |
|---|---|---|---|
| 1) Energy policy …… | ( ) | ( ) | ( ) |
| 2) Energy audit and diagnosis …… | ( ) | ( ) | ( ) |
| 3) Energy management/ Planning of energy savings …… | ( ) | ( ) | ( ) |
| 4) Energy technology …… (e.g., inverters, lighting, waste heat recovery) | ( ) | ( ) | ( ) |

5) Installation and operation of fan, blowers and pumps
…… ( ) ( ) ( )
6) Other ( ), Years ( )

If you check " 6）Other " , please specify subject associated with solar power technology, not covered in items " 1) " to " 5) "

**5. In order to improve the quality of the training course, we would like to have some information about your country's energy conditions. Please fill out below for our reference.**

1) Primary energy supply
Please indicate the annual energy supply by primary energy source in your country
(Please use TOE as described in note*)

| Energy source | | Energy supply (unit: TOE*) | Ratio |
|---|---|---|---|
| 1 | Coal | | |
| 2 | Petroleum | | |
| 3 | Natural gas | | |
| 4 | Nuclear power | | |
| 5 | Hydro power (electricity) | | |
| Total | | | 100% |

Note*) TOE: Tone of Oil Equivalent
1TOE=$10^7$ kcal =1.16x$10^4$kwh=4.19x$10^4$MJ
∴1kwh=8.6x10-$^5$TOE 1MJ=2.39x10-$^5$TOE

2) Composition of electric power supply by type of fuel

| Type of fuel | | Electric power supply (unit: kwh) | Ratio |
|---|---|---|---|
| 1 | Coal | | |
| 2 | Petroleum | | |
| 3 | Natural gas | | |
| 4 | Nuclear power | | |
| 5 | Hydro power | | |

| | | | |
|---|---|---|---|
| 6 | Small hydro power | | |
| 7 | Wind power | | |
| 8 | Geothermal | | |
| 9 | Photovoltaic | | |
| 10 | Concentrated solar power | | |
| | | Total | 100% |

# Issue Analysis Sheet (IAS) Guidelines

## 1. What is IAS?

(1) IAS is a tool to logically organize relationships between issues and contents of the training program in Japan.

(2) IAS will help the nominee to clarify his/her challenges to be covered in each expected module output and to formulate solutions to them.

(3) The sheet is to be utilized as a logical process control sheet to draw up improvement plans for the issues by filling out the sheet in phases from prior to the nominee's arrival through to the end of the training.

(4) In addition, it is used for the course leader and lecturers to understand the issues that each participant is confronting, and provide him/her with technical advice, useful references and solutions through the training program in Japan.

## 2. How to fill out IAS?

(1) Please describe the issues you (your organization) confronts in column "**A: Issues that you (your organization) confront(s)** "

★ Prepare the separate rows for each problem; if necessary, please add new rows.

(2) In column "**B: Actions that you (your organization) are (is) taking**", please describe actions that you (your organization) are taking to solve the issues shown in "**Colum A**"

This information is very important to carry out the training course and also to make Action Plan as a fruit of the training.

(3) In order to solve issues, you (your organization) need various types of information, so you hope to participate in this training course.

The main purpose of this training course is to provide the information you need. The contents of this course shown in **II-9 Subjects/Agendas (Expected Module Outputs and Contents)** Referring to the " Subjects/Agendas "

In this table, please extract subjects from which you expect to get useful information you need, and write their Subject No. in column "**C:Subjects No**"

★ You can input as many subjects as you think the subjects are related.

★ You do not need to input "Subject Titles" into the chart, but only "Subject No."

Annex-II

## Issue Analysis Sheet (IAS)

Name: _____

| [A] Issues that you (your organization) confront(s). | No | [B] Actions that you (your organization) are (is) taking. | [C] Subject No.*) |
|---|---|---|---|
| 1 | | | |
| 2 | | | |
| 3 | | | |

【C】 Please write the “Subject No.” you most expect to get the information you need.
For the “Subject No.”, Please refer the “Number of Subjects/Agendas” shown in the tables of this General Information (Page 3～4)

**Training Schedule of 2013 (as reference)**

| Date | Day | AM(9:30～12:30) | | PM(13:30～16:30) | |
|---|---|---|---|---|---|
| | | Subject | | Subject | |
| 5/8 | Wed. | Arrival in Japan | | | |
| 5/9 | Thur. | JICA Briefing | L | JICA Program Orientation | L |
| 5/10 | Fri. | JICA General Orientation (Japan's politics and administration) | L | JICA General Orientation (Japan's economy) | L |
| 5/11 | Sat. | | | | |
| 5/12 | Sun. | | | | L |
| 5/13 | Mon. | KITA Orientation | L | IAS guidance | L |
| 5/14 | Tue. | JR. guidance | L | Challenge facing humanity | L |
| 5/15 | Wed. | Efforts toward a low-carbon society in Japan | L | JR. presentation | P |
| 5/16 | Thur. | Introduction to solar photovoltaic technology | L | Introduction to energy saving technology | L |
| 5/17 | Fri. | Environmental policies of Kitakyushu City | L | Introduction to wind power generation | L |
| 5/18 | Sat. | | | | |
| 5/19 | Sun. | Travel ( KIC to Oita) | F | Local revitalization by geothermal utilization | F |
| 5/20 | Mon. | Small hydroelectric generation promoted by local governments | F | Study tour : Small hydroelectric generation | F |
| 5/21 | Tue. | Study tour : Combined cycle generating plant | F | Study tour : Geothermal plant | F |
| 5/22 | Wed. | Renewable energy policy of Japan | L | New technology of wind power generation | F |
| 5/23 | Thur. | Local revitalization and environmental improvement by local production for local consumption movement | L | Effective utilization of renewable energy (inverter) | L |
| 5/24 | Fri. | High-efficient low carbon power generation | L | High-efficient low carbon power generation | L |
| 5/25 | Sat. | | | | |
| 5/26 | Sun. | Travel (KIC to Tokyo) | F | | F |
| 5/27 | Mon. | Low-carbon efforts by Kyusyu Electric Power | L | Study tour : Solar Techno Park | F |
| 5/28 | Tue. | Study tour: Low-carbon thermal power generation technology | F | Revitalization of company promoted by a medium–sized firm (3S activities in overseas factories) | F |
| 5/29 | Wed. | Introduction to Small hydroelectric generation technology | L | Efforts made by local governments towards a low carbon society | L |

| | | | | | |
|---|---|---|---|---|---|
| 5/30 | Thur. | Study tout: Pumping-up Hydroelectric Power Plant | F | Study tour: Institute of Ocean Energy, Saga University | F |
| 5/31 | Fri. | Facilitation | L | AP development guidance | F |
| 6/1 | Sat. | | | | |
| 6/2 | Sun. | Travel (KIC to Tokyo) | | Tokyo Afternoon (Bus tour) | |
| 6/3 | Mon. | Travel (Tokyo to Fukushima) | F | Clean Coal Power Research Center | F |
| 6/4 | Tue. | Introduction to geothermal power generation | L | Introduction to Solar thermal power generation technology | L |
| 6/5 | Wed. | Micro hydroelectric generating unit | F | Micro hydroelectric generating unit | F |
| 6/6 | Thur. | Policies to promote renewable energy | F | Travel (Tokyo to KIC) | F |
| 6/7 | Fri. | Waste reduction measures , 3R activity promotion | L | AP development guidance | P |
| 6/8 | Sat. | | | | |
| 6/9 | Sun. | | | | |
| 6/10 | Mon. | Energy Saving Technology | F | Waste Treatment Plant | F |
| 6/11 | Tue. | AP development guidance | P | Study tour : Kitakyushu Eco Town | F |
| 6/12 | Wed. | Evaluation meeting | P | AP presentation / Closing ceremony | P |
| 6/13 | Thur. | Departure | | | |

Notes: JICA: Japan International Cooperation Agency KIC: JICA Kyushu International Center
KITA: Kitakyushu International Techno-Cooperative Association JR.: Job Report AP: Action Plan
P=Practical exercises, or workshop studies
F=Field practices, plant visits or study tours

## *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***

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

**JICA Kyushu International Center (JICA KYUSHU)**

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