No.12040/10/2014-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 – March 10, 2014

**TRAINING CIRCULAR**

Subject: Group Training Course in 'Seismology, Earthquake Engineering and Disaster Recovery Management Policy' to be held in Japan from September 30, 2014 to September 18, 2015 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 September 30, 2014 to September 18, 2015 under the Technical Cooperation Programme of the Government of Japan.

2. The programme aims to develop the participant's capacity to establish, utilize and disseminate earthquake disaster mitigation technologies for contributing to the reduction of the damage of earthquake disasters and to promote recovery and preparedness in their countries.

3. The programme is designed for technical officials, engineers or researchers of governmental organizations concerning to seismology, earthquake engineering and disaster mitigation or technical officials, engineers or researchers of organizations which have the same role as the above mentioned governmental organizations.

4. The applying organizations are expected to select the officials in accordance with the procedures described in III-4 of the general information booklet. The candidates for this course should be a technical official, engineer or researcher who should either be a university graduate in seismology/earthquake engineering/seismic disaster or be a university graduate in science and technology other than the mentioned one and working in the field of seismology/earthquake engineering/disaster mitigation; have more than 3 years of experience in the relevant field; be well versed in advanced mathematics such as differentiation and integration, partial derivatives, differential equations, matrix, vector algebra, Fourier analysis, etc; be proficient in MS Word, Excel, Power Point; be able to write research report on the individual study in English; have a competent command of spoken and written English; be between the ages of twenty five and forty years; be in good health (both physically and mentally); not be a part of military service.

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.

.....2/-

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 May **15, 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 Home Affairs, North Block, New Delhi-01,
b) The Chairman, NDMA Bhawan, A-1, Sufdarjang Enclave, New Delhi-29,
c) The Secretary, Ministry of Environment and. Forests Paryavaran Bhawan, CGO Complex, Lodhil Road, New Delhi-110003,
d) The Secretary, Ministry of Science & Technology, Technology Bhavan, New Mehrauli Road,New Delhi -110016
e) Chief Secretaries to all the State Governments/Union Territories(with request to circulate the same amongst their related Departments/Organizations),
f) 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**

**SEISMOLOGY, EARTHQUAKE ENGINEERING AND DISASTER-RECOVERY MANAGEMENT POLICY**

**課題別研修「地震・耐震・防災復興政策」**

***JFY 2014***

**NO. J14-04018 / ID. 1480875**

**Course Period in Japan: From September 30th, 2014 to September 18th, 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**

Earthquake disasters, which instantly take human lives, destroy houses and devastate social properties, are clearly distinguished from other natural disasters. Fires and collapse of man-made structures caused by earthquakes may accelerate human losses, to say nothing of other aspects common to all natural disasters such as heavy economic losses, difficulty of preparedness and precautions due to unpredictability, and difficulty of immediate response to damages due to sudden occurrence. The recent example, the great earthquake disaster in the Eastern Japan caused by the 2011 off the Pacific coast of Tohoku Earthquake (Mw 9.0) showed that more effort is necessary to overcome the problems.

The development of technologies in Seismology and Earthquake Engineering has materialized seismic-proof living environments in developed countries such as Japan. In the meantime, the situation in developing countries has not reached a sufficient level, although efforts to transfer aseismic technologies from developed countries have been made.

In order to improve seismic resistance of buildings and disaster-recovery management in developing countries located in earthquake-prone areas, it is not enough to merely transfer knowledge and technologies of Seismology and Earthquake Engineering from developed countries. It is, however, essential to develop earthquake-related technologies applicable to each country by its own efforts, taking conditions and systems of the respective countries into consideration. To achieve this aim, it is also necessary to nurture human resources to be highly capable of planning, instructing, and extending earthquake disaster mitigation technologies, by combining advanced relevant technologies with administrative capability to utilize and disseminate those technologies.

**For what?**

This program aims to develop the participant's capacity to establish, utilize and disseminate earthquake disaster mitigation technologies for contributing to the reduction of the damage of earthquake disasters and to promote recovery and preparedness in their countries.

This Training Course, implemented with collaboration of the Building Research Institute (BRI), aims to foster persons to have high capabilities to plan, teach, and extend technologies related to earthquake disaster mitigation, through the training not only in the fields of Seismology and Earthquake Engineering, but also in the field of Seismic Disaster-Recovery Management Policies.

**For whom?**

This program is provided to technical officials, engineers or researchers of governmental organizations concerning to seismology, earthquake engineering and disaster mitigation or technical officials, engineers or researchers of organizations which have the same role as the above-mentioned governmental organizations.

**How?**

Participants shall have opportunities in Japan to acquire knowledge and techniques of earthquake disaster mitigation through lectures, discussions, exercises, on-site-visit, etc.

Participants will also formulate a Master Thesis and an Action Plan describing what the participant will do after they go back to their home countries by putting the knowledge and ideas acquired and discussed in Japan into their on-going activities.

***Remarks:***

*The curriculum of this course is approved as a master's degree program by the National Graduate Institute for Policy Studies (GRIPS) and BRI. Achieving required credits during the training, the participants will be awarded a Master's degree, "Master of Disaster Management" by GRIPS and BRI. Accordingly this training is very demanding. Applicants, with an excellent demonstrable educational and professional background and proficiency in English, should be highly motivated and confident enough to pursue and attain the requirement of the program so that they can obtain the degree.*

# *II. Description*

1. **Title (J-No.):** Seismology, Earthquake Engineering and Disaster-Recovery Management Policy (J14-04018)

2. **Course Period in JAPAN**
   September 30th, 2014 to September 18th, 2015

3. **Target Regions or Countries**
   People's Democratic Republic of Algeria, People's Republic of Bangladesh, Republic of El Salvador, India, Mongolia, Republic of the Union of Myanmar, Federal Democratic Republic of Nepal, Republic of Nicaragua, Republic of Peru, Republic of the Philippines, and Kingdom of Thailand

4. **Eligible / Target Organization**
   This program is designed for technical officials, engineers or researchers of governmental organizations concerning to the public interest in the field of seismology, earthquake engineering and disaster management or technical officials, engineers or researchers of organization which play the same role as the above-mentioned governmental organization.

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

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

7. **Course Objective:**
   To foster persons capable to plan, apply, educate, and disseminate knowledge and technologies for earthquake disaster mitigation, through the training in the fields of Seismology, Earthquake Engineering and Disaster-Recovery Management Policies that are accumulated in Japan.

8. **Overall Goal**
   The capacity of the earthquake disaster mitigation in target countries is strengthened and the damage of earthquake disaster is mitigated.

## 9. Outputs:

Participants are expected to achieve the following outputs;

(1) To be able to explain basic concepts and theory on Earthquake Mechanism and Earthquake Resistant Design as a basis of Earthquake Disaster Mitigation Scheme.

(2) To be able to explain basic concepts and theory on Seismic Hazard Estimation, Earthquake Disaster - Recovery Management Policy inevitable to establish Earthquake Disaster Mitigation Scheme.

(3) To understand basic concepts and countermeasures on recovery and reconstruction based on lessons from the Great East Japan Earthquake and other disasters.

(4) To improve participant's capabilities to apply techniques and knowledge acquired through their studies on individual topics and to make Master Thesis / Action Plan to solve the problems in their countries.

## 10. 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;**
(August to September 2014)
*Participants make required preparation for the Program in the respective countries.*

| | Activities |
|---|---|
| | Preparation of Inception Report Presentation Materials |
| | Basic mathematics for Seismology (homework) |

**(2) Phase in Japan;**
(September 30, 2014 to September 18, 2015)
*Participants dispatched by the organizations attend the Program implemented in Japan.*

| Outputs | Subjects/Agendas | | | Methodology |
|---|---|---|---|---|
| | Category | Seismology group (S group) | Earthquake Engineering group (E group) | |
| (1) To be able to explain basic concept and | Orientation | Overview of Earthquake and Disasters | Guidance Introduction to Earthquake Engineering Computer | Lecture |

| | | | | |
|---|---|---|---|---|
| theory on Earthquake Mechanism and Earthquake Resistant Design as a basis of Earthquake Disaster Mitigation Scheme | Basic Subjects Related with Earthquake and Disasters | **Information Technology Related with Earthquake and Disasters**<br>*-Computer*<br>*-Theory of Seismic Waves*<br>*-Surface Waves*<br>*-Scattering and Attenuation*<br>**Earthquake Phenomenology**<br>*-Practice on Theory of Seismic Waves*<br>*-Local Earthquake Analysis*<br>*-Analysis of Teleseismic Records*<br>*-Seismicity and Statistics*<br>*-Crust and Upper Mantle Structure*<br>*-Crustal Deformation*<br>**Seminar of Basic Seismology** | **Structural Analysis**<br>*-Structural Analysis I,II &III)*<br>*-Finite Element Method I & II*<br>*-Dynamic Aseismic Design*<br>*-Limit Analysis*<br>*-Soil Mechanics*<br>*-Tsunami Load and Structural Design of Tsunami Shelter*<br>**Structural Dynamics**<br>*-Structural Dynamics I & II*<br>*-Structural Response Analysis*<br>*-Soil Test and Survey II*<br>*-Effect of Surface Geology on Seismic Motion*<br>*-Dynamic Soil Structure Interaction*<br>**Seminar of Structure Analysis** | Lecture, Practice and Seminar |

| | | | | |
|---|---|---|---|---|
| | Advanced Subjects Related with Earthquake and Disasters | **Earthquake Circumstance**<br>*-Earthquake Generation and Prediction I & II*<br>*-Mathematics for Seismology*<br>*- Focal Mechanism and Moment Tensor Analysis*<br>*-Earthquake and Plate Tectonics*<br>*-Earthquake Source Process*<br>**Characteristics of Earthquake Disasters**<br>*-Data Processing*<br>*-Observatory Practice*<br>*-Effect of Surface Geology on Seismic Motion I & II*<br>*-Seismic Tomography*<br>*-Numerical Simulation of Seismic Wave Propagation*<br>**Seminar of Applied Seismology**<br><br>**Special Topics**<br>*-Tsunami and Earthquake*<br>*-Earthquake Geology*<br>*-Observation Visits* | **Seismic Design**<br>*-RC Structures I,II,III &IV*<br>*-Steel Structures*<br>*-Masonry Structures I & II*<br>*-Structural Testing I, II & III*<br>*-PC Structures*<br>*-Foundation Engineering I, II & III*<br>*-Bridge Engineering I & II*<br>*- Port & Harbor Structures and Tsunami Engineering*<br>*-Dam Structures*<br>*-Underground Structures*<br>*- Urban Earthquake Disaster Mitigation System*<br>**Seismic Evaluation and Retrofitting**<br>*-Seismic Design CodesI & II*<br>*-Earthquake Resistant Limit State Design I&II*<br>*-Seismic Evaluation and Rehabilitation: buildings -Seismic Design and Retrofit of Bridges*<br>*-Seismic Isolation*<br>*-Design Earthquake Ground Motion and Seismic Force*<br>*-Structural Reliability*<br>*-Structural Response Control*<br>**Seminar of Seismic Design, Seismic Evaluation and Retrofitting** | Lecture, Practice and Seminar |

| | | | |
|---|---|---|---|
| (2) To be able to explain basic concept and theory on Seismic Hazard Estimation, Earthquake Disaster-Recovery Management Policy inevitable to establish Earthquake Disaster Mitigation Scheme | Earthquake Hazard and Risk Assessment | **Earthquake Hazard Assessment**<br>*-Soil Test and Survey*<br>*-Strong Earthquake Motion Observation*<br>*-Soil Dynamics*<br>*-Strong Ground Motion Study I (Probabilistic Seismic Hazard Analysis)*<br>*-Strong Ground Motion Study II (Strong Motion Seismology)*<br>**Earthquake Risk Assessment**<br>*-Practice for Earthquake Risk Assessment*<br>*-Microtremor Observation I & II*<br>*-Simulation of Seismic Ground Motion*<br>*-Geophysical Prospecting*<br>*-Seismic Micro-zonation*<br>**Seminar of Earthquake Disaster –Recovery Management** | Lecture, Practice and Seminar |
| | Disaster – Recovery Management Policy | **Disaster Mitigation-Recovery Policy**<br>*-Social System against Disasters*<br>*-Education on Basic Knowledge for Disasters*<br>*-Policy for Infrastructure*<br>*-Policy Making Process for Disaster*<br>**Disaster Risk Management**<br>*- International activities for disaster mitigation*<br>*-Community based disaster risk management*<br>*-Practical risk assessment* | Lecture, Practice and Seminar |
| (3) To understand basic concepts and countermeasures on recovery and reconstruction based on lessons from the Great East Japan Earthquake and other disasters. | Disaster – Recovery Management and Development Assistance | *-Observation Visit for Earthquake Disaster - Recovery Management*<br>*-Japanese ODA Policy and Development Assistance Related with Disaster-Recovery Management*<br>*-Introduction to Disaster Management*<br>**Seminar of Earthquake Disaster – Recovery Management Policy**<br>*- Project Cycle Management for Disaster - Recovery Management* | |
| | | *-Earthquake Observation*<br>*-Study Tour of Earthquake Monitoring*<br>*-Shaking Table Testing*<br>*-System Identification in Vibration Analysis* | |
| | Case Studies | **Practice of Earthquake Disaster – Recovery Management Policy** *I, II & III* | Lecture, Practice, Seminar and Presentation |
| | | *-Colloquium*<br>*-Study Trips*<br>*-Colloquium -Study Trips* | |

| | | | | |
|---|---|---|---|---|
| | | **Practice for Seminar of Earthquake Disaster – Recovery Management** | | |
| (4) To improve participant's capabilities to apply techniques and knowledge acquired through their studies on individual topics and to make Master Thesis / Action plans to solve the problems in their countries | Individual Study | **Menu for the topics of Individual Study**<br>*-Earthquake Hypocenter and Magnitude Determination.*<br>*-Moment Tensor Analyses.*<br>*-Determination of Earthquake Source Parameters.*<br>*-Analysis of Earthquake Source Process*<br>*-Seismicity Analyses and Fault Plane Determination by Hypocenter Relocation.*<br>*-Crustal Structure Analyses Using Receiver Function.*<br>*-Study on Seismotectonics Based on Earthquake Parameter Determination.*<br>*-Physics of Earthquake Generation Process.*<br>*-Analysis of Strong Motion Generation Using Empirical Green's Function Technique.*<br>*-Site Effect Studies using Strong Ground Motion Records.*<br>*-Geophysical Prospecting for Sedimentary Strata Using Microtremors and Surface Waves.*<br>*-Others* | **Menu for the topics of Individual Study**<br>*-Seismic Performance Design Method*<br>*-Seismic Evaluation and Retrofitting Techniques*<br>*-Seismic Isolation and Response Control Techniques*<br>*-Nonlinear Earthquake Response Analysis and Damage Evaluation*<br>*-System Identification and Health Monitoring*<br>*-Effect of Soil Structure Interaction*<br>*- Urban Planning for Earthquake Disaster Mitigation and Recovery*<br>*-Post-earthquake Damage Inspection Method*<br>*-Others* | Practice, Seminar and Presentation |

**** It is mandatory for the applicants to select one of the topics listed here and write it in the face page of Inception Report. For those who select '–others' it is mandatory to describe a concrete plan of Individual Study including the expected supervisor's name and affiliation.***

# *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 operations. Applying organizations are expected to use the Program for those specific purposes.

(2)In this connection, applying organizations are expected to nominate the most qualified candidates to address the said issues or problems, carefully referring to the qualifications described in sectionⅢ-2 below.

(3)Applying organizations are also expected to be prepared to make use of knowledge acquired by the nominees for the said purpose.

## 2. Nominee Qualifications:

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

### (1) Essential Qualifications:

1) be nominated by their governments in accordance with the procedures described in III-4.
2) be technical officials, engineers or researchers who fulfill one of the following two requirements for her/his specialty:
   ① be university graduates in seismology, earthquake engineering or seismic disaster mitigation
   ② be university graduates in science and technology other than the above mentioned subjects who are working in the field of seismology, earthquake engineering and disaster mitigation
3) be an employee with more than 3 years working experience of a governmental organization concerning to the public interest in the fields of seismology, earthquake engineering and earthquake disaster mitigation or of an organization which plays the same role of above-mentioned governmental organization recommended by a governmental official document or letter.
4) be well versed in advanced mathematics such as differentiation and integration, partial derivatives, differential equations, matrix, vector algebra, Fourier analysis, etc.
5) be proficient in MS Word, Excel and Power Point.
6) be able to write research reports on the individual study in English.
7) have a competent command of spoken and written English ---with a minimum TOEFL score of Internet-Based Test (iBT) 79 (Paper-Based Test 550), IELTS 6.0 or its equivalent. (This training program includes active participation in discussions and development of the action plan and Master thesis, thus requires high competence of English ability both in conversation and composition. Please attach an official certificate of English ability such as TOEFL, TOEIC etc.)
8) be between the ages of twenty-five(25) and forty (40) years.
9) must be in good health, both physically and mentally, to participate in the Program in Japan.

10) must not be serving any form of military service.

## 3. Required Documents for Application

(1) **Application Form for the JICA Training and Dialogue Program**

Please make contact with the respective country's JICA office for the Format of Application Form.

Applicants should mention their choice (Seismology group or Earthquake Engineering group).

*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) **Application Materials for GRIPS*/BRI** Master Program (See ANNEX Ⅰ)**

A part of Curriculum of this course is approved as a master's degree program by GRIPS and BRI. Therefore, each applicant is required to prepare and submit all of the following materials for admission to GRIPS/BRI Master Program as written in ANNEX Ⅰ.

- Application Form for GRIPS/BRI Master Program
- Certificate of Health
- Certificate of Employment
- Two letters of Recommendation
    - Applicants must submit two letters of recommendation in sealed envelopes that are signed across the seal.
    - These letters should be written by people who have supervised the applicant either in an academic or work capacity. Preferably, one letter should be written by a university professor.
- Official Transcripts or Official Copy of Transcripts
- Official Copy of Diploma or Degree Certificate
- Official Document Certifying English Proficiency

*GRIPS -National Graduate Institute for Policy Studies

**BRI –Building Research Institute

(3) **Inception Report (See ANNEX Ⅱ)**

Each applicant is required to originally write and prepare a typewritten Inception Report by him/herself in accordance with the Instruction for the Preparation of Inception Report (see ANNEX Ⅱ).

The Inception Reports are used for screening applicants and for presentation. Each participant is required to make a 20-25 minutes presentation on Inception Report within

about two weeks after the training begins. It is mandatory to bring these materials in digital forms.

## 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 May 30th, 2014**）

### (2) Selection:

1) After receiving the document(s) through due administrative procedures in the respective government, the respective country's JICA office (or Japanese Embassy) shall conduct screenings, and send the documents to JICA Tsukuba, which organizes this program.
2) JICA Tsukuba will carry out the screening jointly with BRI and select the qualified applicants out of those who fulfill the set qualifications described above in III.2.
3) Some of the applicants may be requested to take an oral interview by telephone or TV conference system in the respective country's JICA office.
   - *The Cost of transportation to the respective country's JICA office for receiving an interview will be paid by Applicants.*
4) A committee, which consists of GRIPS and BRI, will screen the above qualified applicants academically with the Application materials such as Official Transcripts.
5) The applicants who are accepted to participate in this program will be decided by a faculty council of GRIPS finally by **the end of July, 2014** (This schedule cannot be delayed).

*In case the number of applicants is more than the capacity of this course, some applicants may not be accepted due to the limited number of seats even though they fulfill the requirements.*

### (3) Notice of Acceptance

Notification of results shall be made by the respective country's JICA office (or Embassy of Japan) to the respective Government by **no later than August 5, 2014.** (*Acceptance Agreement from GRIPS will be sent together with the notice of acceptance.)

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

**Inception Report Presentation Material**

Before coming to Japan, accepted participants are required to prepare an Inception Report Presentation Material based on the Inception Report. The Inception Report Presentation Material should be sent to JICA Tsukuba by **September 19, 2014**.

**Basic mathematics for Seismology**

Accepted applicants will be given Basic mathematics for Seismology material by BRI. The result of Basic mathematics for Seismology material (homework) should be sent to JICA Tsukuba by **September 19, 2014**.

## 6. Conditions for Attendance:

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

## 7. Certificate, Diploma and Master's Degree

(1) A Participant who has successfully completed the course will be awarded a certificate by JICA
(2) A Participant, who has successfully fulfilled requirements given by International Institute of Seismology and Earthquake Engineering (IISEE), will be awarded another certificate and a diploma by IISEE
(3) A Participant, who has successfully achieved required credits, will be awarded a Master's Degree, 'Master of Disaster Management,' by GRIPS and BRI

# *IV. Administrative Arrangements*

**1. Organizer:**

(1) **Name**: JICA Tsukuba

(2) **Contact**: (tbictpp@jica.go.jp)

**2. Implementing Partner:**

**(1) International Institute of Seismology and Earthquake Engineering (IISEE) at Building Research Institute(BRI)**

1) URL: http://iisee.kenken.go.jp
2) Address: 1 Tachihara, Tsukuba, Ibaraki 305-0802, Japan
3) TEL: +81-29-879-0679
4) FAX: +81-29-864-6777
5) E-mail: iisee@kenken.go.jp
6) Remark: IISEE is a research department of BRI that trains participants from earthquake-prone developing countries on Seismology and Earthquake Engineering. The course is implemented at relevant places including BRI and GRIPS.

**(2) National Graduate Institute for Policy Studies (GRIPS)**

1) URL: http://www.grips.ac.jp/
2) Address: 7-22-1 Roppongi, Minato-ku, Tokyo, 106-8677 Japan
3) TEL: +81-3-6439-6046
4) FAX: +81-3-6439-6050
5) E-mail: admissions@grips.ac.jp

Remark: The National Graduate Institute for Policy Studies (GRIPS) is a graduate school and research institute. GRIPS was established in October 1997. GRIPS aims to be an international center of excellence for the education of future leaders in the policy arena, for the advancement of policy research, and for the systematic collection and dissemination of policy-related information.

**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 basically:

| |
|---|
| JICA Tsukuba International Center (JICA Tsukuba)<br>Address: 3-6 Koyadai, Tsukuba, Ibaraki 305-0074, Japan<br>TEL: +81-29-838-1111, FAX: +81-29-838-1776<br>(where "81" is the country code for Japan, and "29" is the local area code)<br><br>Please refer to facility information of JICA Tsukuba at its URL:<br>http://www.jica.go.jp/english/contact/domestic/information.pdf |

## 5. Expenses:

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

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

## 6. Training Course and Master's Degree Program

The curriculum of this training course is approved as a master's degree program by GRIPS and BRI. **The application fee, admission fee and tuition for the Master's Degree Program will be provided by BRI.**

## 7. 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. **Computer:**
   The participants are recommended to bring their own laptop/notebook computers to prepare the Action Plan, presentation slides and to communicate by e-mail.

2. **Relevant Data for Seismology and/or Earthquake Engineering in your country:**
   The participants are strongly recommended to bring the relevant data in your country on your laptop/notebook computers for preparing the Master thesis, Action Plan and other presentation slides etc.

3. **Introduction of participants' country:**
   The participants may have opportunities to join cultural exchange events or visit Japanese school. It is recommended to bring something to introduce their countries such as photographs, drawings, traditional goods, cloths, instruments or ornaments.

END

***ANNEX-I: Application Materials for GRIPS/BRI Master Program***
***ANNEX-II: Instruction for the Preparation of Inception Report***
***ANNEX-III: Syllabus of the Training Program (Tentative)***

# *VI. ANNEX:*

ANNEX1,2.3 別ファイルで作成中

## *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 Tsukuba International Center (JICA Tsukuba)**
**Address: 3-6 Koyadai, Tsukuba, Ibaraki 305-0074, Japan**
TEL: +81-29-838-1111 FAX: +81-29-838-1776