

**F.No. 34/05/2008-EO(F)**  
Government of India  
Ministry of Personnel, P.G. and Pensions  
(Department of Personnel and Training)

New Delhi, the 3<sup>rd</sup> March, 2008.

Subject: A group training course in Operation and maintenance of Urban Water Supply System to be held in Japan from 19<sup>th</sup> May, 2008 to 26<sup>th</sup> July, 2008.

The undersigned is directed to state that the Japan International Cooperation Agency (JICA) under the Technical Cooperation Programme of the Government of Japan has invited applications for a group training course in Operation and maintenance of Urban Water Supply System to be held in Japan from 19<sup>th</sup> May, 2008 to 26<sup>th</sup> July, 2008. The details of the course and the application form may be drawn from Ministry of Personnel, Public Grievances and Pensions website ([www.persmin.nic.in](http://www.persmin.nic.in)).

2. This Group Training Course is particularly meant for engineers responsible for operation and maintenance of urban water supply schemes/authorities using surface water resources and be currently engaged in urban water supply field offices, such as water treatment plants, operation and maintenance offices with five (5) years' practical experience in that area. He/She should be under fifty five (55) years of age and should be a graduate from technical colleges or authorized water training institutes, or have equivalent qualifications. He/She should be in good health, both physically and mentally and not be serving in the military. The candidate should have sufficient command of written and spoken English.
3. This training course is designed to support developing countries to formulate action plans to solve issues on urban water supply system by introducing techniques for the operation and maintenance of water supply systems using surface water resources.
4. The fellowship award covers a Round-trip air ticket between an international airport designated by the JICA and Japan, Allowances for (accommodation, living expenses and shipping), expenses for JICA study tours, free medical care for participants who may fall ill after reaching Japan. The participants are not allowed to take any family member during the training course.
5. The nomination details should be submitted in the JICA's prescribed proforma(A2A3) duly authenticated by the Department concerned. The application forms should be routed through the concerned Ministries/Departments/State Governments and it should also be certified by the Competent Authority that the institution is a Government institution.
6. The applications should reach this Department before 20<sup>th</sup> March, 2008. Nominations received after the prescribed date will not be considered. The circular inviting applications for training course is available on this Department's website ([www.persmin.nic.in](http://www.persmin.nic.in)).

  
(Trishaljit Sethi)  
Director

1. M/o Water Resources, Shram Shakti Bhavan, New Delhi-110001.
2. M/o Urban Development & Poverty Alleviation, Maulana Azad Road, New Delhi-110001
3. All the State Governments/Union Territories.
4. ✓ Director(Technical), NIC with the request to post the circular along with the JICA's circular and the enclosed proformas on the Department's website.



For a better tomorrow for all.

Japan International Cooperation Agency  
(Government of Japan)

No. 3/GT-CP/2008

26<sup>th</sup> February, 2008

Dear Ms. Arun Prabha,

A. Group Training Course in Operation and maintenance of Urban Water Supply System will be held in Japan from 19<sup>th</sup> May, 2008 to 26<sup>th</sup> July, 2008 under the Technical Cooperation Programme of the Government of Japan.

We are forwarding herewith six copies of the General Information Booklet on the above offer. It is requested that the following documents of the selected candidate may please be submitted to this office by **28<sup>th</sup> March, 2008**:-

- (1) The Nomination Form A2A3 together with the medical history questionnaire,
- (2) The desired Country Report
- (3) The filled in Questionnaire

Further details are available in the General Information Booklet. It may be noted that the completed Country Report and Questionnaire are essential for screening of applications.

It is further informed that 10 slots are available globally for the above course and it would be much appreciated if you could take further necessary action and submit the nomination(s) of suitable candidate(s) to this office by the designated date.

With regards,

Yours sincerely,

  
(Yumiko Asakuma)  
Deputy Resident Representative

Encl: As stated above.

Ms. Arun Prabha  
Under Secretary (PMU and Trg.)  
Department of Economic Affairs  
Ministry of Finance  
New Delhi

Copy to:-

Mr. R.K. Kharb, Section Officer, Department of Personnel and Training, Ministry of Personnel, Public Grievances and Pensions, North Block, New Delhi.

259/PMU/2008  
4/3/08

for DEPT  
SO (111)  
2/2/08



# TRAINING AND DIALOGUE PROGRAMS

**GENERAL INFORMATION ON**

**GROUP TRAINING ON OPERATION AND MAINTENANCE OF  
URBAN WATER SUPPLY SYSTEM**

**集団研修「都市上水道維持管理」**

***JFY 2008***

**<Type: Solution Creation Program / 類型:課題解決型 >**

**NO. J08-00696**

**From April 2008 to February 2009**

**Phases in Japan: From May. 19<sup>th</sup>, 2008 to Jul. 26<sup>th</sup> 2008**

This information pertains to one of the Training and Dialogue Programs 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.

# *Preface*

The Japanese Government extends official development assistance (ODA) to developing countries to support their self-help efforts that will lead to economic progress and a better life for their citizens of those countries.

Since its foundation in 1974, the Japan International Cooperation Agency (JICA) has implemented Japan's technical cooperation under the ODA program.

As of October 2003, JICA has transformed itself into an "Independent Administrative Institution", a new form of governmental agency. Important changes include closer attention paid to grass-roots level cooperation, peace-building, cost performance, faster decision-making, and accountability. JICA continues to be an official agency responsible for implementing ODA programs, in particular technical cooperation, on behalf of the Government of Japan.

JICA's programs include Technical Cooperation Projects, Dispatch of Technical Cooperation Experts, Technical Training of Overseas Participants, Development Studies, Dispatch of Japanese Volunteers, Disaster Relief and Grant Aid, etc.

Technical Training of Overseas Participants applies to key administrators, technicians and researchers in developing countries and areas. It includes the transfer of knowledge and technologies necessary for development through training conducted both at home and abroad. This is one of the most fundamental "human resource development" programs implemented by JICA.

Those who have received such technical training are now contributing in many ways to the development of their home countries and areas. Many have gone on to become national leaders, top-ranking administrators and researchers while others are now imparting their acquired skills nationwide.

## *Course Background*

This training course is designed to support developing countries to formulate action plans to solve issues on urban water supply system by introducing techniques for the operation and maintenance of water supply systems using surface water resources.

### *Osaka Municipal Waterworks Bureau*

The city of Osaka is situated at the heart of the Japanese archipelago. It has been developed over the centuries as a center of Japanese political and economic life. The city's water supply system became only the fourth modern supply system in the country when it was inaugurated in November 1895. Numerous expansion programs in line with the growth of the city's area and population have since brought the system's supply capacity up to its current daily level of 2.43 million m<sup>3</sup>. The system's organizational structure includes a head office, branch offices (customer service centers, water rate collection centers, pipe laying, maintenance units, etc.), water treatment works, and engineering offices (for maintenance and new construction projects), giving a total employee figure of approximately 2,180.

## I. ESSENTIAL FACTS

COURSE TITLE	Operation and Maintenance of Urban Water Supply Systems
DURATION	May 19, 2008~ July 26, 2008
DEADLINE FOR APPLICATION	March 28, 2008 *for acceptance at the JICA office or the Embassy of Japan
NUMBER OF PARTICIPANTS	10
LANGUAGE	English
TARGET GROUP	<b>Engineers</b> responsible for operation and maintenance of urban water supply schemes/authorities using <b>surface water resources</b>
TRAINING TYPE	<b>Solution Creation Program</b> <b>All the participants and their organizations are required to formulate action plans to solve issues on urban water supply system or related field.</b>
COURSE OUTCOME	Action plans to solve issues on urban water supply system in participants' respective organizations will be formulated by participants' organizations with utilizing obtained skills and knowledge in the training in Japan.
COURSE OUTPUT	After the completion of this training course in Japan participants will be able to draft feasible action plans to solve issues on urban water supply system in participants' respective organizations, with utilizing lessons learnt from the following technologies used in Japan, which will be introduced in the training.  (1) Maintenance technologies of pipelines and service installations. (2) Operation of intake, treatment and distribution facilities. (3) Water treatment and water quality control
TRAINING INSTITUTION	Osaka Municipal Waterworks Bureau Address: 1-14-16 Nanko-Kita, Suminoe-ku, Osaka 559-8558, Japan Tel.: 81(*)-6(**)-6616-5406 Fax.: 81(*)-6(**)-6616-5409 . URL: <a href="http://www.water.city.osaka.jp/english/index.html">http://www.water.city.osaka.jp/english/index.html</a>
ACCOMMODATIONS	JICA Osaka Address: 25-1 Nishi-Toyokawa-cho, Ibaraki-shi, Osaka 567-0058, Japan Tel.: 81(*)-72 (**)-641-6900 Fax.: 81(*)-72 (**)-641-6910 URL: <a href="http://www.jica.go.jp/worldmap/english.html#osaka">http://www.jica.go.jp/worldmap/english.html#osaka</a>

\* Accommodations for the whole period of the training are to be arranged by JICA

ALLOWANCES & EXPENSES	<p>The Government of Japan provides the following allowances and covers the following expenses through JICA in accordance with relevant laws and regulations.</p> <p><u>Details</u></p> <p>Round-trip air ticket between an international airport designated by JICA and Japan, accommodation allowance, living allowance, outfit allowance, shipping allowance, expenses for JICA study tours, free medical care for participants who become ill after arrival in Japan (costs related to preexisting illness, pregnancy and dental treatment are not included), etc.</p>
-----------------------	--

(\*) country code of Japan (\*\*) area code

(Note) \*Information on this booklet is available on our website. ( <http://www.jica.go.jp/worldmap/english.html#osaka> )

## II. CURRICULUM (tentative)

(Before coming to Japan)

### Issue analysis in applying organizations

Applying organizations are required to analyze issues in their organizations and make clear objectives to participate in the training.

\*The organizations are also required to make a commitment to formulate and implement the action plan after completion of the training in Japan.



(During stay in Japan)

### Issue Analysis Workshop

#### Inception Report Presentation

- Issues in your organizations
- What you expect to learn in the training course



#### General Information on Water Supply Systems

- Waterworks in Japan
- Water supply systems of Osaka City

#### Water Quality Control

#### Operation and Maintenance of Intake, Treatment and Distribution Facilities

#### Maintenance of Mechanical, Electrical and Measuring Instruments

#### Discussion on Purification Related Issues

- For Preparation of Action Plan



#### Maintenance of Pipelines

#### Maintenance

#### Discussion on Service Installation and Distribution Issues

- For Preparation of Action Plan



#### Practical Training on Maintenance of Service Installations and distributions



#### Draft of Action Plan

Make drafts of feasible action with utilizing lessons learnt in the training, which must be finalized and authorized by participants' organizations after the training.



(after the training in Japan)

#### Finalization and authorization of the action plan by participants' organization

\*Participants' organizations are required to submit the finalized action plans by February, 2009.

## Curriculum for Training Program in 2007 (reference only)

Subject	Type *	Object
<b>1. General Information on Water Supply Systems</b>		*To understand history, scheme and management of water supply system of Osaka City and Japan. *To understand the outline of Japan Waterworks Association.
1. Waterworks in Japan	L	
2. Outline of water supply system of Osaka City	L	
3. Outline of Japan Waterworks Association	L	
4. Management of water supply service of Osaka City	L	
5. Disaster measures of Osaka City	L	
<b>2. Operation and Maintenance of Intake, Treatment and Distribution Facilities</b>		*To acquire/improve operation technologies of intake, treatment and distribution facilities.
1. Outline of purification plant	L	
2. Outline of purification facilities (observation)	O	
3. Outline of purification facilities (sedimentation, advanced system and filtration, etc)	L	
4. Operation of purification facilities	P	
5. Operation of distribution facilities	L	
6. Operation of intake, treatment and distribution facilities	L	
7. Observation of distribution plant	O	
<b>3. Water Quality Control</b>		*To acquire/improve water quality control technologies, iron and manganese removal technologies, and other basic technologies for purification.
1. Water quality control (basics)	L	
2. Water quality control (method)	L	
3. Water quality control (chlorination theory)	L	
4. Study of accident cases related to water quality control	L	
5. Outline of conventional water treatment	L	
<b>4. Maintenance of mechanical, electrical and measuring instruments</b>		*To acquire/improve maintenance technologies of mechanical, electrical and measuring instruments of intake, purification and distribution facilities.
1. Maintenance of mechanical instruments	L	
2. Maintenance of mechanical instruments	P	
3. Maintenance of electrical and measuring instruments	L	
4. Maintenance of electrical and measuring instruments	P	
<b>5. Maintenance of Pipelines</b>		*To acquire/improve maintenance technologies of pipelines.
1. Maintenance of pipelines (outline)	L	
2. Maintenance of pipelines (detection of underground leakage)	L	
3. Maintenance of pipelines (detection of underground leakage)	P	
4. Maintenance of pipelines (operation of leakage detection equipment)	P	
5. Maintenance of pipelines (attachments and joints)	P	



Subject		Type *	Object
	6. Maintenance of pipelines (piping practice)	P	
	7. Maintenance of pipelines (management of drawings and data)	L	
	8. Maintenance of pipelines (planning of leakage detection work)	L	
<b>6. Maintenance of Service Installations</b>			*To acquire/improve maintenance technologies of service installations.
	1. Maintenance of service installations (outline)	L	
	2. Maintenance of service installations (water meters)	P	
	3. Outline of service activities	L	
	4. Maintenance of service installations (activities of service offices)	P	
	5. Maintenance of service installations (maintenance technology)	L	
	6. Maintenance of service installations (piping and branching)	P	
<b>7. Practical Training</b>			*To deepen understanding of service installations and distribution.
	1. Maintenance of service installations and distribution	P	
<b>8. Discussions</b>			
	1. Country report presentation	D	*To understand the current situation of participants' countries and the expectations for the training.
	2. Preparation for country report presentation		
	3. Discussion (purification related issues)	D	*To supplement the knowledge and technology for preparation of action plan
	4. Discussion (service installation and distribution related issues)	D	
	5. Action plan presentation	D	*To exchange opinions about your action plan to make it more practical one.
<b>9. Visits</b>			*To deepen understanding of water resource and water supply related facilities, materials for water supply
	1. Water resource (Lake Biwa), Lake Biwa Museum	O	
	2. Yokogawa Museum	O	
	3. Osaka Aquarium Kaiyukan	O	
	4. Kubota Corporation	O	
	5. Taisei Kiko Co., Ltd.	O	
	6. Kobe Water Science Museum	O	
	7. Library of Kyoto Municipal Waterworks Bureau	O	
	8. Sekisui Chemical Co., Ltd.	O	
<b>10. Study Trip</b>			*To understand water supply service in other city, and its history and culture. *To deepen understanding of manufacturing of pipelines
	1. Hiroshima Municipal Waterworks Bureau	T	
	2. JFE Engineering Corporation	T	

\* Type of Class

(L: Lecture, P: Practice, D: Discussion, O: Observation, T: Study trip)

### ***III. REQUIREMENT FOR APPLICATION***

Applicants should:

- (1) be nominated by their government in accordance with the procedures mentioned in section IV,
- (2) **be engineers responsible for operation and maintenance of urban water supply schemes/authorities using surface water resources,**
- (3) be currently engaged in urban water supply field offices, such as water treatment plants, operation and maintenance offices, and have at least five (5) years' practical experience in that area,
- (4) be graduates from technical colleges or authorized water training institutes, or have equivalent qualifications,
- (5) have a sufficient command of written and spoken English,
- (6) be under 55 years of age,
- (7) be in good health, both physically and mentally, to undergo the training, and
- (8) not be serving in the military.

#### **ATTENTION**

Participants are required:

- (1) not to change course subjects or extend the course period,
- (2) not to bring any members of their family,
- (3) to return to their home country at the end of their course according to the international travel schedule designated by JICA,
- (4) to refrain from engaging in political activities or any form of employment for profit or gain, and
- (5) to observe the rules and regulations of their place of accommodation and not to change accommodations designated by JICA.

## ***IV. PROCEDURE FOR APPLICATION***

1. A government desiring to nominate applicants for the course should fill in and forward one (1) original and three (3) copies of the application form (Form A2A3) for each applicant and forward them to the JICA office (or the Embassy of Japan) **by March 18, 2008**.
2. The JICA office (or the Embassy of Japan) will inform the applying government whether or not the nominee's application has been accepted **no later than April 18, 2008**.

### **3. COUNTRY REPORT (ANNEX I)**

Applicants are requested to prepare Country Report on the present situation of water supply systems in their countries/local government. This report is to be used as material for screening of candidates during selection, as well as for presentations to be made by each participant and as reference material for comparative studies during the course.

The Country Report should be typed in English in accordance with the format indicated in ANNEX I and submitted with the Form A2A3

Note: In the course of training, participants will make a presentation on the Country Report. It is advisable for participants to prepare audio-visual aids such as slides, pictures, maps, PowerPoint, etc., for more efficient presentation.

### **4. QUESTIONNAIRE (ANNEX II)**

Applicants are requested to fill in the questionnaire attached in and submit it with the Form A2A3. It should be filled out completely. In cases where information is not available or is unknown, fill in the space with N/A.

**Applications without a duly completed Country Report and Questionnaire shall not be accepted.**

\*E-format (Microsoft Excel) of COUNTRY REPORT and QUESTIONNAIRE are available on our website (<http://www.jica.go.jp/branch/osic/english/training/index.html>).

## ***V. OTHER MATTERS***

### **1. Pre-Departure Orientation**

Before coming to Japan, pre-departure orientation is held at the JICA office or the Embassy of Japan to provide participants with details of travel to Japan, conditions of training and other necessary matters.

An introduction video "TRAINING IN JAPAN" is shown and a brochure "GUIDE TO TRAINING IN JAPAN" is provided to each participant at the time of the orientation. Japanese learning material "SIMPLE CONVERSATION IN JAPANESE" (textbook and cassette tape) is also provided to participants.

2. Participants are strictly advised to visit the JICA counter upon arrival at Kansai International Airport, the designated airport of arrival in Japan. The JICA Counter is located at the south-end corner of the arrival hall on the 1st floor. A JICA-designated Travel Agent will provide participants with instructions and tickets to get to their designated accommodations.

3. Allowances, such as for accommodation, living, clothing, and shipping, will be paid on the

second day of the designated course schedule, which is May 20, 2008. Those participants who will arrive in Japan before that day are kindly advised to bring the necessary funds to cover expenses as JICA only provides accommodation facilities.

4. General Orientation for Introduction to Japan

Participants are scheduled to participate in a 2-day orientation program offered by JICA Osaka for the purpose of providing participants with general information on key points regarding Japan and with the tools needed for adapting to life and training in Japan. Basic information on Japanese values, behavior and customs, as well as economic and social institutions are to be provided.

5. Japanese language course

An intensive Japanese language course will be conducted prior to the technical training for one (1) week (25 hours). A general Japanese language course is organized in the evening for the participants who are interested in learning the language

6. Certificate

A certificate will be awarded by JICA to participants who successfully complete the course.

## ***VI. DEVELOPMENT EDUCATION PROGRAM***

The purposes of the International Cooperation Program of JICA are not only to share Japanese knowledge, experience and ideas with participating countries, but also to promote mutual understanding between participating countries and Japan. The Japanese government recognizes the importance of citizen participation in its International Cooperation Program and has thus recently placed a greater emphasis on this aspect of the Program. With this objective, JICA collaborates with schools and local governments as well as various kinds of community-based organizations to expose the members to the rich heritages of foreign cultures represented by participants, as a precious first step to promote international exchange and cooperation.

To provide a stronger foundation for these activities, JICA has been conducting a Development Education Program for Japanese citizens in all training courses and seminars it offers. Participants are encouraged to bring any materials necessary to introduce the cultural heritages and/or natural histories of their own countries, such as national costumes, musical instruments, works of art, photographs, and so on. This program is scheduled to start on the first Thursday following the participants' arrival in Japan.

ANNEX I

Operation and Maintenance of Urban Water Supply Systems

**Inception Report**

Name : \_\_\_\_\_

Country : \_\_\_\_\_

1. General information on your city/town  
(geographical features, total population, social and economic status, climate, etc.)
  
2. Name of organization : (organization chart, number of employees, etc)
  
3. Your present position
  
4. Technical issues your organization has and subjects your organization particularly requires you to learn in the training course.  
(Please have a discussion in your organization and fill the chart on the next page with the consensus of your organization.)

	technical problems	measures currently being taken	your expectation for the training
*organization			
*water resource *water pollution *water quality control			
*water treatment facilities			
*mechanical and electrical facilities *measuring equipment			
*pipelines			
*service Installation			

**Questionnaire**

on current situation of water supply system in your town or city

## (1) Information on the organization

A.	Year of water supply inauguration	
B.	Served population	
C.	Water supply capacity	m <sup>3</sup> /day
D.	Supply type	<input type="checkbox"/> 1.gravity system <input type="checkbox"/> 2.pump system
E.	Management system	<input type="checkbox"/> 1.national government <input type="checkbox"/> 2.local government <input type="checkbox"/> 3.public corporation <input type="checkbox"/> 4.private enterprise <input type="checkbox"/> 5.other( )
F.	Accounting system	<input type="checkbox"/> 1.government accounting <input type="checkbox"/> 2.enterprise accounting (independent)
G.	Main items of annual income and expenditure and their percentage	income 1. ( %) 2. ( %) expenditure 1. ( %) 2. ( %)
H.	Main source of finance for water resource development and facility maintenance cost	1. 2.
I.	Water tariff	(Please attach water tariffs.)
J.	Outline of metering and water bill collection	

## (2) Water Resource Development

A.	Water resource	<input type="checkbox"/> 1.surface water (river/lake/spring) <input type="checkbox"/> 2.ground water (shallow well/deep well) <input type="checkbox"/> 3.dam <input type="checkbox"/> 4.seawater desalination <input type="checkbox"/> 5.other ( )
B.	Water resource development body	<input type="checkbox"/> 1.national government <input type="checkbox"/> 2.local government <input type="checkbox"/> 3.public corporation <input type="checkbox"/> 4.private enterprise <input type="checkbox"/> 5.other( )
C.	State subsidies for water resource development	<input type="checkbox"/> 1.yes <input type="checkbox"/> 2.no

(3) Pollution of water resource and water quality control measures

A.	Water quality-related problems	1. 2. 3.
B.	Main sources of water pollution	<input type="checkbox"/> 1.household wastewater <input type="checkbox"/> 2.industrial wastewater <input type="checkbox"/> 3.livestock wastewater <input type="checkbox"/> 4.other ( )
C.	Water quality control measure	<input type="checkbox"/> 1.introduction of sewage system <input type="checkbox"/> 2.separate wastewater treatment <input type="checkbox"/> 3.wastewater quality regulations <input type="checkbox"/> 4.protection of water resource (such as prohibiting entry or waste discharge to water resource areas) <input type="checkbox"/> 5.other ( )

(4) Intake Facilities

A.	Intake volume	<input type="checkbox"/> 1.surface water $m^3/day$ <input type="checkbox"/> 2.ground water $m^3/day$ <input type="checkbox"/> 3.dam $m^3/day$ <input type="checkbox"/> 4.other $m^3/day$
B.	Intake facilities	
	1) Intake type	<input type="checkbox"/> 1.intake tower <input type="checkbox"/> 2.intake weir <input type="checkbox"/> 3.intake gate <input type="checkbox"/> 4.pump <input type="checkbox"/> 5.other ( )
	2) Raw water main	<input type="checkbox"/> 1.intake pipe <input type="checkbox"/> 2.intake conduit <input type="checkbox"/> 3.other ( )
	3) Grit chamber	<input type="checkbox"/> 1.exist <input type="checkbox"/> 2.not exist

(5) Treatment Facilities

A.	Number of treatment plants	
B.	Capacity	$m^3/day$
C.	Sedimentation type	<input type="checkbox"/> 1.high rate coagulo-sedimentation <input type="checkbox"/> 2.horizontal flow type sedimentation <input type="checkbox"/> 3.slant-board type sedimentation
D.	Filtration type	<input type="checkbox"/> 1.rapid sand filtration (gravity system/pressure system) <input type="checkbox"/> 2.slow sand filtration
E.	Filter media	<input type="checkbox"/> 1.sand ( cm thick) <input type="checkbox"/> 2.gravel ( cm thick) <input type="checkbox"/> 3.anthracite ( cm thick) <input type="checkbox"/> 4.other ( cm thick)
G.	Coagulant	<input type="checkbox"/> 1.aluminum sulfate (solid/liquid) <input type="checkbox"/> 2.poly aluminum chloride <input type="checkbox"/> 3.other ( )
H.	Alkali	<input type="checkbox"/> 1.caustic soda <input type="checkbox"/> 2.soda ash <input type="checkbox"/> 3.slaked lime





	3) Use	1.raw water ( ) units 2.transmission ( ) units 3.distribution ( ) units 4.other ( ) units
	4) Manufacturer	<input type="checkbox"/> 1.domestic manufacturer <input type="checkbox"/> 2.foreign manufacturer
	5) Staff training facilities	<input type="checkbox"/> 1.exist <input type="checkbox"/> 2.not exist
E.	Measuring equipment	
	1) Water level gauge Type	( ) units <input type="checkbox"/> 1.immersion <input type="checkbox"/> 2.pressure <input type="checkbox"/> 3.float
	2) Flowmeter Type	( ) units <input type="checkbox"/> 1.ultrasonic <input type="checkbox"/> 2.electromagnetic <input type="checkbox"/> 3.Venturi tube or Orifice
	3) Measurement type	<input type="checkbox"/> 1.analog <input type="checkbox"/> 2.digital

(7) Water Quality

A. Water Quality Data

raw water

finished water

1) Turbidity

(NTU or Kaolin turbidity unit)

\_\_\_\_\_

\_\_\_\_\_

2) Color (Pt-Co unit or others)

\_\_\_\_\_

\_\_\_\_\_

3) pH

\_\_\_\_\_

\_\_\_\_\_

4) Iron (mg/l)

\_\_\_\_\_

\_\_\_\_\_

5) Manganese (mg/l)

\_\_\_\_\_

\_\_\_\_\_

6) Hardness (mg/l)

\_\_\_\_\_

\_\_\_\_\_

7) Ammonia (mg/l)

\_\_\_\_\_

\_\_\_\_\_

8) Nitrite (mg/l)

\_\_\_\_\_

\_\_\_\_\_

9) KMnO4 consumption (mg/l)

\_\_\_\_\_

\_\_\_\_\_

10) BOD (mg/l)

\_\_\_\_\_

\_\_\_\_\_

B. Water Quality Monitoring System

1)	Water quality standards	<input type="checkbox"/> 1.yes (set by ) <input type="checkbox"/> 2.no
2)	Laboratory staff and facilities for monitoring	<input type="checkbox"/> 1.own facilities (number of staff ) <input type="checkbox"/> 2.subcontracted to other organizations
3)	Monitoring points and measuring frequency in treatment process	<input type="checkbox"/> 1.raw water( times/day,week,month) <input type="checkbox"/> 2.settled water( times/day,week,month) <input type="checkbox"/> 3.filtered water ( times/day,week,month) <input type="checkbox"/> 4.finished water ( times/day,week,month)
4)	Monitoring stations and frequency on tap water	<input type="checkbox"/> 1.number of stations ( ) <input type="checkbox"/> 2.measuring frequency ( times/day,week,month)

5)	Major laboratory equipment	1. 2.
----	----------------------------	----------

(8) Maintenance of Pipelines

A. Length of pipelines by diameter

1) raw water pipelines

Ø mm \_\_\_\_\_ km  
 Ø mm \_\_\_\_\_ km  
 Ø mm \_\_\_\_\_ km

2) transmission pipelines

Ø mm \_\_\_\_\_ km  
 Ø mm \_\_\_\_\_ km  
 Ø mm \_\_\_\_\_ km

3) distribution pipelines

Ø mm \_\_\_\_\_ km  
 Ø mm \_\_\_\_\_ km  
 Ø mm \_\_\_\_\_ km  
 Ø mm \_\_\_\_\_ km  
 Ø mm \_\_\_\_\_ km

B. Length of pipelines by material

1) grey cast iron pipe \_\_\_\_\_ km  
 2) ductile iron pipe \_\_\_\_\_ km  
 3) galvanized iron pipe \_\_\_\_\_ km  
 4) steel pipe \_\_\_\_\_ km  
 5) asbestos cement pipe \_\_\_\_\_ km  
 6) concrete pipe \_\_\_\_\_ km  
 7) PVC pipe \_\_\_\_\_ km  
 8) other \_\_\_\_\_ km

C.	Type of internal lining	
	1) grey cast iron pipe	<input type="checkbox"/> 1.Cement <input type="checkbox"/> 2.Epoxy resin <input type="checkbox"/> 3.Others <input type="checkbox"/> 4.None
	2) ductile iron pipe	<input type="checkbox"/> 1.Cement <input type="checkbox"/> 2.Epoxy resin <input type="checkbox"/> 3.Others <input type="checkbox"/> 4.None
	3) galvanized iron pipe	<input type="checkbox"/> 1.Cement <input type="checkbox"/> 2.Epoxy resin <input type="checkbox"/> 3.Others <input type="checkbox"/> 4.None
	4) steel pipe	<input type="checkbox"/> 1.Cement <input type="checkbox"/> 2.Epoxy resin <input type="checkbox"/> 3.Others <input type="checkbox"/> 4.None
D.	Leak rate	_____ %
E.	Leakage control measures	<input type="checkbox"/> 1.implemented <input type="checkbox"/> 2.no
F.	Use of split repair sleeves for leak repairs	<input type="checkbox"/> 1.yes <input type="checkbox"/> 2.no





# Welcome to JICA Osaka

**Osaka International Center of Japan International Cooperation Agency (JICA Osaka) extends a hearty welcome to all JICA participants.**

## 1. Location of the center in the Kansai region

JICA Osaka is located in Ibaraki City, Osaka prefecture, in the heart of the Kansai region. Ibaraki lies close to the ancient cultural centers of Kyoto and Nara, and to the commercial, industrial and economic center of Osaka, and the city of Kobe.

## 2. Orientation Program & Japanese Language Course

(1) The four days after arrival at JICA Osaka are dedicated to an orientation program, during which participants are introduced to JICA Osaka and its facilities, attend lectures on Japan's economy, society and culture, and participate in an international exchange program with local communities.

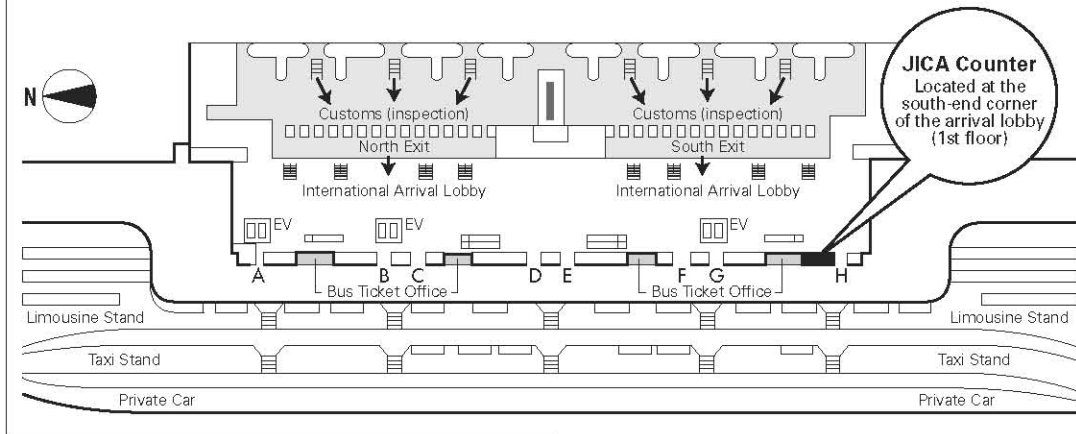
(2) It is desirable that participants acquire basic Japanese daily conversation for use in communication with training institution personnel and in other situations outside the scope of their technical training. JICA Osaka therefore offers:

- ① an intensive Japanese language course as an integral part of the training program in designated courses
- ② an optional Japanese language course held in the evenings

## 3. Recreational Program

Occasionally, JICA Osaka, in concert with community groups, organizes a program of recreational activities and exchange events, including introductions to flower arrangement, tea ceremony and visits to Japanese homes.

## Map of JICA Counter in Kansai International Airport (KIX)



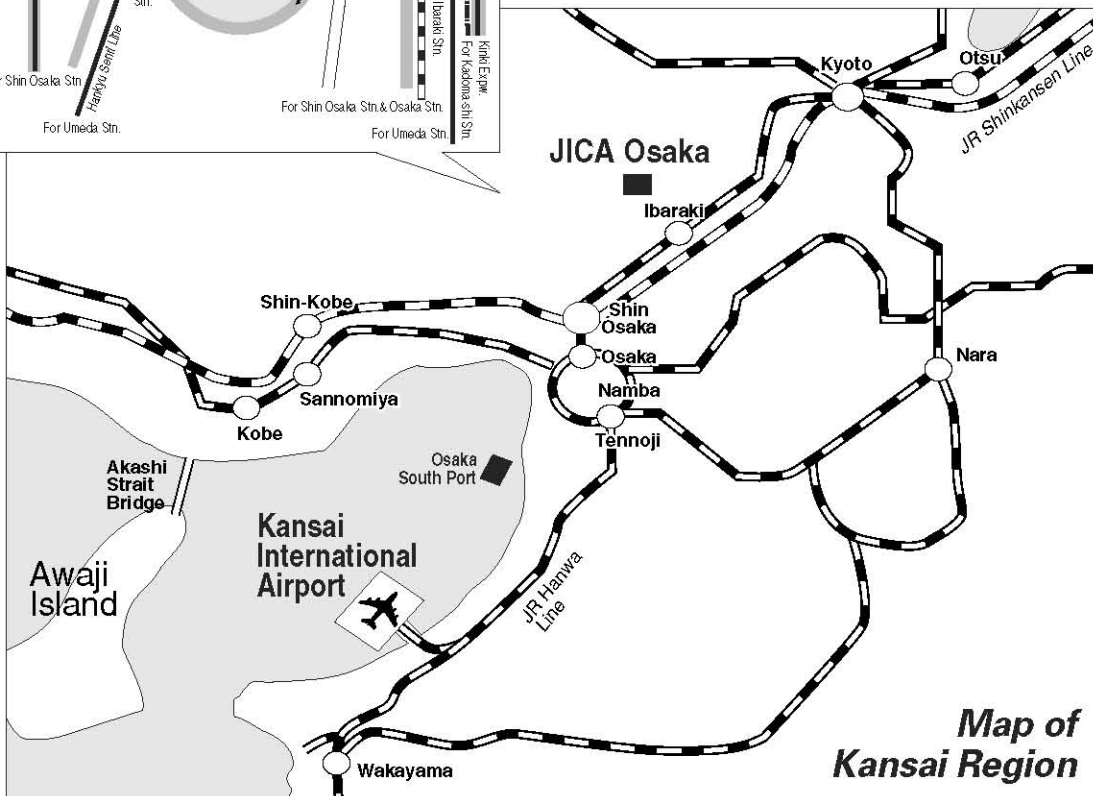
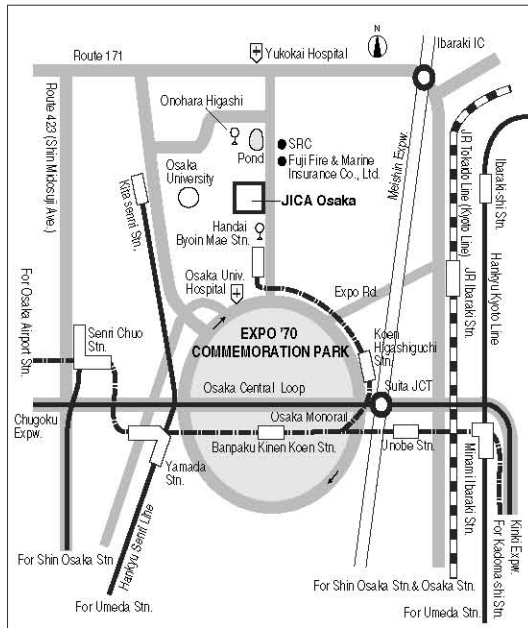
**JICA Counter**  
Located at the south-end corner of the arrival lobby (1st floor)

**Upon arrival, participants should follow the procedure below:**

1. Ride on Wing Shuttle (red elevated tram).
2. Pass through Immigration.
3. Collect baggage and pass through Customs Inspection.
4. Go to the JICA Counter located at the south-end corner of the arrival lobby (1st floor).

The staff at the JICA Counter will provide participants with a limousine bus ticket to Osaka Station (alight at Hotel New Hankyu). At Osaka Station, a representative of the travel agency designated by JICA will meet the participant. The participant will be taken to JICA Osaka by taxi (with a taxi ticket), which takes approximately 30 minutes.

## Map of the JICA Osaka Vicinity



**Map of Kansai Region**



**Program Team III, Osaka International Center (JICA Osaka)  
Japan International Cooperation Agency (JICA)**

Address: 25-1 Nishi-Toyokawa-cho, Ibaraki-shi, Osaka 567-0058, Japan

URL : <http://www.jica.go.jp/worldmap/english.html#osaka>

E-mail : [jicaosic@jica.go.jp](mailto:jicaosic@jica.go.jp)

Tel. : 81 (\*) -72 (\*\*) -641-6900 Fax. : 81 (\*) -72 (\*\*) -641-6910

(\*): country code for Japan (\*\*) : area code for Ibaraki

## Technical Cooperation by The Government of Japan

### Training Award of Japan International Cooperation Agency (JICA)

Application by the Government of .....

for a training course in the field of .....

Please provide one original and three copies.  
Please print or type.

(FOR JAPANESE OFFICIAL USE)

Ordinary Group Course (集団コース) Course No. ....

Special Group Course (一般特設) Course No. ....

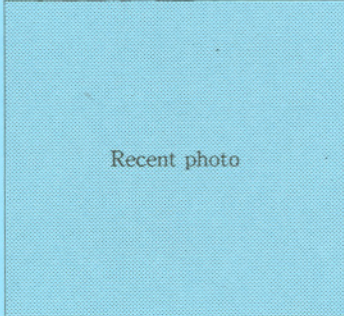
Country-focused Group Course (国別特設) Course No. ....

Counterpart (カウンターパート) 専門家名 .....

プロジェクト名 .....

Ordinary Individual Course (個別一般)

Others (C.S, 特別案件等)



**PART A** To be completed by the nominee.

<b>1 FULL NAME</b> (as in Passport, underline Family Name)				
(Family)	(First)	(Middle)		
<b>2 ADDRESS FOR CORRESPONDENCE</b>	<b>4 DATE OF BIRTH</b>			<b>5 AGE</b>
	Month	Date	Year	
Telephone :	<b>6 SEX</b>			<input type="checkbox"/> MALE <input type="checkbox"/> FEMALE
E-mail :				
<b>3 NAME AND ADDRESS OF PERSON TO BE NOTIFIED IN CASE OF EMERGENCY</b>	<b>7 MARITAL STATUS</b> <input type="checkbox"/> SINGLE <input type="checkbox"/> MARRIED			
	<b>8 NATIONALITY</b>			
	<b>9 RELIGION</b>			
Relationship to you:				
Telephone:				

**10 EDUCATIONAL RECORD**

Institution	City/Country	Years Attended		Qualification Obtained	Subject
		From	To		

**11 TRAINING OR STUDY IN FOREIGN COUNTRIES** (in relation to professional interests.)

Institution	City/Country	Period		Certificate/Degree Awarded	Field of Study
		From	To		



**12 EMPLOYMENT RECORD**

1) Present Place of Employment

Name	Title of Present Job
	Date of Taking Up Post
	Type of Organization
Address	<input type="checkbox"/> Governmental/Public <input type="checkbox"/> Private <input type="checkbox"/> International <input type="checkbox"/> Others
	Telephone: Telex/Fax:

2) Previous Job

Name and Address of Organization	Description of Your Previous Job
Previous Title/Post and Dates(from/to)	

3) Describe briefly the work of your organization and the service it provides.

.....

.....

.....

4) Describe your own job.

.....

.....

.....

.....

.....

5) Explain how the proposed training will be of benefit to you in the work you will be doing on your return.

.....

.....

.....

.....

.....

**13 LANGUAGE PROFICIENCY**

1. English				
Listening	<input type="checkbox"/> excellent	<input type="checkbox"/> good	<input type="checkbox"/> fair	<input type="checkbox"/> poor
Speaking	<input type="checkbox"/> excellent	<input type="checkbox"/> good	<input type="checkbox"/> fair	<input type="checkbox"/> poor
Writing/Reading	<input type="checkbox"/> excellent	<input type="checkbox"/> good	<input type="checkbox"/> fair	<input type="checkbox"/> poor
2. Mother Tongue .....				
3. Other Language.....				
	<input type="checkbox"/> excellent	<input type="checkbox"/> good	<input type="checkbox"/> fair	<input type="checkbox"/> poor

**14 NOMINEE'S DECLARATION** To be signed by the nominee.

I certify that the statements made by me in this form are true and correct to the best of my knowledge.

If accepted for a training award, I agree:

- (a) not to bring any member of my family.
- (b) 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 this course of training.
- (c) to follow the course of study or training, and abide by the rules of the institution or establishments with which I undertake to study or train.
- (d) to refrain from engaging in political activities, or any form of employment for profit or gain.
- (e) to submit any progress report or evaluation questionnaires which may be prescribed.
- (f) to return to my home country at the end of my course of study or training.

I also fully understand that if granted a training award it may be subsequently withdrawn if I fail to make adequate progress, or for other sufficient cause including physical conditions determined by the Government of Japan.

Date: ..... Signature: .....

**PART B** To be completed by nominee's Director or Head of Department.

**OBSERVATIONS OF NOMINATING ORGANIZATION**

1 Describe what work the nominee will be expected to do on his return.

.....

.....

.....

2 Explain how the proposed training will be of benefit to the work of your organization.

.....

.....

.....

3 (For Non-Group Training only)

Describe:

1) Subject area of the training required.

.....  
.....  
.....  
.....  
.....

2) Special subjects which are particularly important and should be included in the training program (continue on an additional sheet if necessary).

.....  
.....  
.....  
.....  
.....

3) Period of training required (from/to).

.....

4) Notice required before nominee can be released from present post.

.....

**PART C** To be completed and signed by a responsible government official.  
**OFFICIAL NOMINATION**

I certify that:

I have examined the documents in this form and I am satisfied that they are authentic and relate to the nominee.

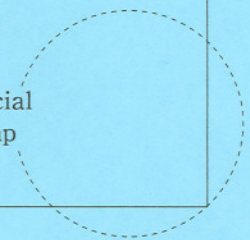
I accordingly nominate this person on behalf of the  
Government of .....

Date: ..... Signature: .....

Position: ..... Name:.....

Organization: .....

Official  
stamp



## MEDICAL HISTORY AND EXAMINATION FOR JICA TRAINING AWARD

MEDICAL HISTORY TO BE COMPLETED BY NOMINEE			
1 NAME OF NOMINEE(last name, first name, middle name)			
2 DATE OF BIRTH (mo/day/yr)	3 NATIONALITY	4 SEX _____ male _____ female	5 ADDRESS FOR CONTACT
6 NAME OF TRAINING COURSE/SEMINAR			
7 LENGTH OF TRAINING COURSE/SEMINAR (weeks, months)			

### 8 IMPORTANT NOTICE

Before you complete the Medical History Questionnaire, you are hereby notified that:

A medical condition resulting from an undisclosed pre-existing condition may not be financially compensated for by JICA and may result in termination of your training program.

I understand and accept the terms of this notice. \_\_\_\_\_ Yes \_\_\_\_\_ No

**9 NOMINEE WILL CHECK "YES" OR "NO" AND EXPLAIN**

	YES	NO		EXPLANATION
a.			Have you had any significant or serious illness or injury? (If hospitalized, give place & dates.)	
b.			Have you had any operations or advice by a physician to have an operation? (Give place & dates.)	
c.			Do you currently use any drugs for treatment of a medial condition? (Give name & dose.)	
d.			Have you ever been a patient in a mental hospital or sanitarium or treated by a Psychiatrist? (Give place & dates.)	

**10 NOMINEE WILL INDICATE "YES" OR "NO" TO EACH ITEM**

**DO YOU NOW HAVE OR HAVE YOU EVER HAD THE CONDITIONS LISTED BELOW?**

(Check each item, if yes, enclose the relevant condition with a circle.)

	YES	NO	CONDITION
a.			Asthma, emphysema, or other lung conditions
b.			Tuberculosis or live with anyone who has tuberculosis
c.			High blood pressure, heart disease
d.			Stomach, liver (hepatitis), gall bladder disease
e.			Kidney or bladder disease, stone or blood in urine
f.			Diabetes (sugar in the urine)
g.			Depression, excess worry, attempted suicide, or other psychological symptoms
h.			Acquired Immune Deficiency Syndrome (AIDS)
i.			Tumor, abnormal growth, cyst, or cancer
j.			Bleeding disorder, blood disease (sickle cell anemia)

**I CERTIFY THAT I HAVE READ THE ABOVE INSTRUCTIONS AND ANSWERED ALL QUESTIONS TRULY AND COMPLETELY TO THE BEST OF MY KNOWLEDGE.**

<b>11 PRINTED NAME OF NOMINEE</b>	<b>12 DATE</b>	<b>13 SIGNATURE OF NOMINEE</b>