F.No. 34/20/2008-EO(F)

Government of India Ministry of Personnel, P.G. and Pensions (Department of Personnel and Training)

New Delhi, the 18th March, 2008.

Subject: A Group Training Course in Engineering on Water Supply Systems to be held in Japan from 20th May, 2008 to 6th August, 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 Engineering on Water Supply Systems to be held in Japan from 20th May, 2008 to 6th August, 2008. The details of the programme and the application form may be drawn from Ministry of Personnel, Public Grievances and Pensions website (www.persmin.nic.in). There are 16 slots available globally.

- 2. The course is meant for Engineers who are presently in a management position or a senior engineer who is currently or expected to be engaged in the formulation of waterworks plan with more than five(5) years of experience in water supply systems(Experiences in the Electrical and Mechanical fields are not considered as experience). He/She should be between 30 and 45 years of age, be in good health, both physically and mentally, to undergo the training, be fully capable to discus, read and write in English and not be serving in the military.
- 3. The purpose of this group training programme is to develop capacity of engineers who take leadership role in the planning and design of water supply systems or operation and maintenance of water supply. Particular focus shall be given to planning skill of water supply systems.
- 4. The fellowship award covers a Round-trip air ticket between an international airport designated by JICA and Japan. Allowances for (accommodation, living expenses, outfits and shipping), expenses for JICA study tours, free medical care for participants who may fall ill after reaching Japan and expenses for programme implementation including materials.
- 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 the Department not later than 24th 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).

(Trishaljit Sethi)
Director

- Wo Water Resources, Shramshakti Bhavan, New Delhi-110001.
- 2. All the State Governments/Union Territories.
- 3. Director(Technical), NIC with the request to post the circular along with the JICA's circular on the Department's website.



For a better tomorrow for all.

Japan International Cooperation Agency

(Government of Japan)

No. 17/GT-CP/2008

11th March, 2008

Dear Ms. Arun Prabha,

A Group Training Course in Engineering on Water Supply Systems will be held in Japan from 20th May, 2008 to 6th August, 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 28th March, 2008:-

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

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

It is further informed that 16 slots are available globally for the said 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,

Deputy Resident Representative

Encl: As stated above.

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

Ne VS

Copy to:-

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

JICA India Office 3A, (3rd Floor), Lotus Towers, Community Centre, New Friends Colory, New Delhi-110025. INDIA TEL: +91-11-41672580~5 FAX: +91-11-41672586 URL: http://www.jica.go.jp/



TRAINING AND DIALOGUE PROGRAMS

GENERAL INFORMATION ON THE GROUP TRAINING COURSE IN

ENGINEERING ON WATER SUPPLY SYSTEMS

集団研修「上水道施設技術」

JFY 2008

<Type: Leaders Training Program / 類型∶中核人材育成型> NO. J0800675

Phase in Japan : From May 20, 2008 to Aug. 6 , 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 self-help efforts that will lead to economic progress and a better life for the 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.

Currently, JICA conducts such activities as training, dispatch of experts, provision of equipment, project-type technical cooperation, development study, dispatch of cooperation volunteers (JOCV), survey and administration of capital grant aid programs.

The training program for overseas participants is also one of JICA's fundamental technical cooperation activities for developing countries. Participants come from overseas in order to obtain knowledge and technology in a wide variety of fields.

The objectives of the JICA training program are:

- (1) to contribute to the development of human resources who will promote the advancement of developing countries, and
- (2) to contribute to the promotion of mutual understanding and friendship.

I. ESSENTIAL FACTS

Program Title (No.)	Engineering on Water Supply Systems (J-08-00675)
Target Organizations	Departments responsible for water supply planning or designing under water
	supply utility, national or local government
	(excluding mechanical and electric departments)
Outcome/ Purpose	To develop capacity of engineers who take leadership role in the planning
	and design of water supply systems or operation and maintenance of water
	supply. Particular focus shall be given to planning skill of water supply
	systems.
Outputs	Through the training course, participants are expected:
	1). To master the skill of basic planning and design for water supply systems,
	2). To acquire necessary knowledge on planning and operation and
	maintenance on general water supply systems,
	3). To learn systems related with water supply and functions and roles of related entities, and
	4). To formulate an action plan based on 1) ~ 3) for the improvement of
	water utility in their own countries.
Content	1) Planning and design for water supply systems
(Numbers correspond to	2) Outline of water supply systems
Numbers in the Outputs)	(2-1) Conservation of Water Quality of Water Resources and Monitoring
	of Water Quality
	(2-2) Requirement for Intake facility of Surface Water
	(2-3) Utilization Measures of Groundwater Resource
	(2-4) Utilization Measures of Rain Water
	(2-5) Water Purification Technology and Water Quality Control of Tap
	Water
	(2-6) Advanced Water Purification Technology and Membrane Treatment
	Technology
	(2-7) Requirements for Sludge Treatment Facility
	(2-8) Requirements for Pumping Facility
	(2-9) Types and Layout of Water Distribution Facilities
	(2-10) Construction of Water Supply and Distribution Facilities
	(2-11) Mapping system and Water Distribution Management
	(2-12) Countermeasures and Practice of Water Leakage Reduction
	(2-13) Antiseismic Method of Water Supply Facilities
	3) Systems related to Water Utility and Operation System
	4) Formulation of an Action Plan
Number of Participants	16
Language	English
Duration of the Program	May 20, 2008 – August 6, 2008
Deadline for Application	March 21, 2008
	for acceptance by JICA office (or Embassy of Japan)
	Submission:
	(1) A2A3 Form
	(2) Country Report
Deadline for Acceptance	April 18, 2008
Notice	

Implementing	1. Tokyo International Center (JICA TOKYO)
Organizations	Address: 2-49-5 Nishihara, Shibuya-ku, Tokyo 151-0066, Japan
	TEL: +81-3-3485-7051 FAX: +81-3-3485-7904
	(81: country code of Japan, 3: area code)
	2. Japan Water Works Association (JWWA)*
	Address: 4-8-9, Kudan-minami, Chiyoda-ku, Tokyo 102-0074, Japan TEL: +81-3-3264-2307 FAX: +81-3-3264-2306
	E-mail : kokusai@jwwa.or.jp
	*The JWWA is an international nonprofit integrated organization consisting of memberships, such as Public water supply utilities, Private companies,
	Consultants, Researchers and Individuals related to this field in order to contribute to stable water supply as well as to promote sound waterworks
	development. Founded in 1932, JWWA is the one of largest organization of water supply professionals in the world.
Accommodations	Tokyo International Center (JICA TOKYO)
Accommodations	Address: 2-49-5 Nishihara, Shibuya-ku, Tokyo 151-0066, Japan
	TEL: +81-3-3485-7051 FAX: +81-3-3485-7904
	http://www.jica.go.jp/english/contact/pdf/tic.pdf
	If no room is available at JICA TOKYO, JICA will arrange alternative
	accommodations for the participants.
Inputs by Japan (Allowances & Expenses)	1. Round-trip ticket between an international airport designated by JICA and Japan.
	2. Allowances (accommodation, living expenses, shipping)
	3. Expenses for study tours
	Basically paid in the form of train ticket(s) or chartered bus
	4. Free medical care for participants who become ill after arrival in Japan
	(costs related to pre-existing illness, pregnancy or dental treatment are not included)
	5. Expenses for program implementation including materials
	See the brochure, KENSHU-IN GUIDE BOOK p. 9-16, given to each selected candidate before (or at the time of) the pre-departure orientation.

II. CURRICULUM

- 1. Planning of Water Supply Systems
 - 1). Pipeline Network Analysis
 - 2). Water Demand Forecasting
 - 3). Hydraulics on Pipelines
 - 4). Basic Planning and Design for Pipeline Network
 - 5). Basic Planning and Design for Water Supply Systems
 - 6). Basic Planning and Design for Water Supply Facilities
- 2. Outline of Water Supply Systems
 - *Lectures on water resources different from those in participants' countries will be also given.
 - 1). Conservation of Water Quality of Water Resources and Monitoring of Water Quality
 - (a) Water Pollution in Water Resources
 - (b) Water Quality Control in Japan
 - (c) Automatic Water Quality Monitoring System
 - (d) Observation of Dam site
 - (e) Water Quality Control for Developing Countries
 - 2). Requirements for Water Intake Facilities of Surface Water
 - (a) Planning and Design of Water Intake Facilities
 - (b) Small River Intake Facility
 - 3). Utilization Measures of Groundwater Resources
 - (a) Groundwater Technology
 - (b) Groundwater Exploration Method
 - (c) Well Drilling Machine and Tool Manufacturing Factory
 - 4). Utilization Measures of Rain Water
 - (a) Rainwater Treatment / Reuse Facilities
 - 5). Water Purification Technology and Water Quality Control of Tap Water
 - (a) Water Purification Process
 - (b) Operation and Maintenance of WTP
 - (c) Coagulation and Flocculation process
 - (d) Practice of Jar Test
 - (e) Removal of Pollutants by Chemical Coagulation
 - (f) Small Scale Water Treatment Plant for Groundwater
 - 6). Advanced Water Purification Technology and Membrane Process Technology
 - (a) Design, Operation and Maintenance of Membrane Filtration Plant
 - (b) Construction and Operation of Advanced Water Treatment and Desalination
 - 7). Requirements for Sludge Treatment Facilities
 - (a) Sludge Treatment
 - 8). Requirements for Pumping installation
 - (a) Pumping Theory
 - 9). Types and Layout of Water Distribution Facilities
 - (a) Operation and Maintenance of Water Distribution Facilities
 - 10). Construction of Water Supply and Water Distribution Facilities
 - (a) Pipe Laying Method

- 11). Mapping System and Water Distribution Management
 - (a) Pipeline Mapping System
- 12). Countermeasures and Practice of Water Leakage Prevention
 - (a) Water Leak Detection and Prevention
 - (b) Water Leak Detection Demonstration / Practice
 - (c) Water Leakage Reduction Countermeasures
- 13). Antiseismic Method of Water Supply Facilities
 - (a) Provision for Earthquake Disaster and Anti-Seismic Construction Method
- 3. Systems related to Waterworks and Operation System
 - 1). Waterworks Management and Tariff System in Japan
 - 2). Water Supply in Japan / Water Works Law
 - 3). Water Resources Development
 - 4). Observation of Manufacturing Factory
 - 5). Sanitation Research Organization
 - 6). Small-scale Hydraulic Power Generation Plant
- 4. Formulation of an Action Plan
 - 1). Country Report Presentation (Annex I)
 - 2). Action Plan Presentation (Annex II)

TENTATIVE SCHEDULE

Remarks:

- 1. The schedule is subject to change.
 2. Substantial Training Period: May 26-Aug 6
- 3. Lecture Time: Morning Session 9:30-12:00, Luncheon 12:00-13:30, Afternoon Session 13:30-16:00 4. References: (L)...Lecture (F)...Field Study (D)...Discussion (P)...Practice (Z)...Presentation

Date	ccs. (<i>L</i>).	Time	.Field Study (D)Discussion (P)Practice (Z)Presentation Contents
May 20	Tue	Time	Visit to Japan
May 21	Wed	16:00-	Course Orientation
May 22	Thu	10.00-	Course Orientation
May 23	Fri		
May 24	Sat		Day Off
May 25	Sun		Day Off
May 26	Mon	11:00-13:00	Opening Ceremony / Welcome Party
Way 20	WIOII	13:00-14:00	(L) Role of JWWA
		14:00-16:00	(L) Waterworks Management and Tariff System in Japan
May 27	Tue	10:00-12:00	(L) Water Supply in Japan / Waterworks Law
iviay 27	ruc	13:30-16:00	(L) Water Resources Development
May 28	Wed	9:30-16:30	(DZ) Country Report & Action Plan (1st version) Presentation
May 29	Thu	9:30-12:00	(P) Basic Planning and Design for Pipeline Network -Introduction-
iviay 25	1114	13:30-16:00	(L) Administrative Improvement by Performance Indicator
May 30	Fri	9:30-16:00	(L) Water Intake, Storage, Conveyance, Distribution Facilities and Supply Equipments
May 31	Sat	7.50-10.00	Day Off
Jun 1	Sun		Transfer (Tokyo → Sapporo)
Jun 2	Mon	10:30-11:30	courtesy call on Manager of Sapporo City Waterworks Bureau
Juli 2	WIOII	13:00-16:00	(L) Water Purification Process
Jun 3	Tue	9:30-12:00	(L) Water unheated Flocess (L) Waterworks of Sapporo City
Jun J	Tuc	13:30-16:00	(L) Basic Planning for Water Supply Facilities in Sapporo City
Jun 4	Wed	10:00-12:00	(L) Water Quality Control on WTP
Juli 4	weu	13:00-12:00	(F) WTP, Intake, Dam and Automatic Water Quality Monitoring System
Inn 5	Thu	10:00-10:30	(L) Coagulation and Flocculation Process
Jun 5	Thu		() (
T (г.	13:00-16:30	(P) Practice of Jar Test (Optimization of Coagulation / Flocculation Process)
Jun 6	Fri	9:00-10:30	(L) Operation and Maintenance of WTP
		10:30-11:00	(F) Nishino WTP
		11:00-12:00	(P) Operation and Maintenance of WTP
		13:00-13:30	(F) Nishino Water Intake Site
			Transfer (Sapporo \rightarrow Tokyo)
Jun 7	Sat		Day Off
Jun 8	Sun		Day Off
Jun 9	Mon	9:30-16:00	(L) Water Leakage Reduction Countermeasures / Sludge Treatment
Jun 10	Tue	9:30-16:00	(L) Operation and Maintenance of Water Distribution Facilities
Jun 11	Wed	9:30-16:00	(L) Planning and Design of Water Intake Facility
Jun 12	Thu	9:30-16:00	(L) Removal of Pollutants by Chemical Coagulation / Water Quality Control
Jun 13	Fri	9:30-12:00	(L) Water Pollution in Water Resources
		13:30-16:00	(L) Water Quality Control in Japan
Jun 14	Sat		Day Off
Jun 15	Sun		Day Off
Jun 16	Mon	9:30-16:00	(L) Groundwater Technology
Jun 17	Tue	10:00-15:00	(LF) Pumping Theory, Pump Manufacturing Factory
Jun 18	Wed	10:00-16:30	(F) Waterworks related Facilities in Ohta City
Jun 19	Thu	10:00-15:00	(LF) Well Drilling Machine and Tool Manufacturing Factory
Jun 20	Fri	10:00-14:00	(F) Valve Manufacturing Factory
Jun 21	Sat		Day Off
Jun 22	Sun		Day Off
Jun 23	Mon	9:30-12:00	(L) Water Leak Detection and Prevention in Tokyo
		13:00-15:30	(FP) Water Leak Detection Demonstration / Practice
Jun 24	Tue	9:30-16:00	(L) Water Quality Control for Developing Country
Jun 25	Wed	9:30-12:00	(L) Pipe Laying using Shield Method
		13:00-15:00	(F) Shield Method Pipe Laying Construction
Jun 26	Thu	9:30-16:00	(PD) Action Plan (2nd version) Presentation
Jun 27	Fri	9:30-12:00	(L) Groundwater Exploration Method
		13:30-16:00	(L) Groundwater Exploration Method using Radioactivity
Jun 28	Sat		Day Off
Jun 29	Sun		Day Off
			√

Jun 30	Mon	9:00-12:30	Transfer (Tokyo → Osaka)
		14:00-17:00	(F) Ductile Cast Iron Pipe Manufacturing Factory
Jul 1	Tue	10:00-15:00	(LF) Small Scale Water Treatment Plant for Groundwater
Jul 2	Wed	9:30-16:00	(LF) Provision for Earthquake Disaster and Anti-Seismic Construction Method / Amagasaki WTP
			(Advanced Water Treatment)
Jul 3	Thu	9:30-16:30	(L) Operation and Management of Water Distribution System / Ozonation System
Jul 4	Fri	9:30-14:00	(F) Joint Manufacturing Factory
		15:30-18:30	Transfer (Kobe → Tokyo)
Jul 5	Sat		Day Off
Jul 6	Sun		Day Off
Jul 7	Mon	9:30-16:00	(LF) Sanitation Research Organization
Jul 8	Tue	9:30-16:00	(LF) Design, Operation and Maintenance of Membrane Filtration Plant
Jul 9	Wed	9:30-16:00	(L) Basic Planning for Water Supply Facilities
Jul 10	Thu	9:30-16:00	(L) Water Demand Forecasting / Hydraulics on Pipelines
Jul 11	Fri	9:30-16:00	(L) Pipeline Network Analysis
Jul 12	Sat		Day Off
Jul 13	Sun		Day Off
Jul 14	Mon	9:30-16:00	(P) Basic Planning and Design for Pipeline Network
Jul 15	Tue		() 8 P
Jul 16	Wed		
Jul 17	Thu		
Jul 18	Fri		
Jul 19	Sat		Day Off
Jul 20	Sun		Day Off
Jul 21	Mon		Day Off
Jul 22	Tue	10:30-12:30	Transfer (Tokyo → Kitakyushu)
		15:00-17:00	(L) Waterworks of Kitakyushu City / Pipeline Mapping System
Jul 23	Wed	9:00-14:00	(F) Dam, River Estuary Barrage, Anou WTP etc.
		PM	Transfer (Kitakyushu → Naha)
Jul 24	Thu	10:00-12:00	(L) Waterworks of Okinawa Islands
		14:00-16:30	(LF) Chatan WTP (Advanced Water Treatment, Desalination)
Jul 25	Fri	9:30-16:00	(F) Dam and River Intake Facilities
Jul 26	Sat		Transfer (Naha → Tokyo)
Jul 27	Sun		Day Off
Jul 28	Mon	10:00-16:30	(LF) Rainwater Treatment / Reuse Facility
Jul 29	Tue	9:30-16:00	(P) Basic Planning and Design for Water Supply Facility - Mainly Hydraulic calculation
Jul 30	Wed	9:30-16:00	(P) Basic Planning and Design for Water Supply Systems
Jul 31	Thu	9:30-16:00	(PD) Preparation for Action Plan Report
Aug 1	Fri	9:30-16:00	(PD) Preparation for Action Plan Report
Aug 2	Sat		Day Off
Aug 3	Sun		Day Off
Aug 4	Mon	9:30-16:00	(DZ) Action Plan Report Presentation
Aug 5	Tue	9:30-15:00	(DZ) Action Plan Report Presentation
1.46	1 40	15:00-16:30	Evaluation on the Training Course / Closing Ceremony
		18:00	Farewell Party
A 11 ~ 6	Wed	10.00	Departure from Japan
Aug 6	wea		рераните пош зарап

III. REQUIREMENTS FOR APPLICATION

Applicants should:

- (1) be nominated by their government in accordance with the procedures mentioned in IV below,
- (2) be presently in a management position or a senior engineer who is currently or expected to be engaged in the formulation of waterworks plan,
- (3) be engineers with more than 5 years of experience in water supply systems, (* Experiences in the Electrical and Mechanical fields are not considered as experience.)
- (4) be university graduates from the faculty of engineering such as civil, sanitary, environmental, or have equivalent academic background,
- (5) be fully capable of discuss, read and write in **English**,
- (6) be between 30 and 45 years of age
- (7) not be serving in the military, and
- (8) be in good health, both physically and mentally, to undergo the training. As the schedule in this course includes many field works (trips) which are too hard for the pregnant body.

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 countries 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 interested in nominating applicants for the course should fill in and forward one (1) original and three (3) copies of the Nomination Form (Form A2A3) for each applicant, to a JICA office (or Embassy of Japan) by **March 21, 2008.**
- 2. Country Report (Annex I)
 - The Country Report (**Annex I**) should be typewritten in accordance with the designated format attached herewith and submitted with the nomination form by March 21 2008.
- 3. The JICA office (or Embassy of Japan) will inform the applying government whether or not the nominee's application has been accepted by no later than **April 18, 2008.**
- 4. Action Plan (1st version) (**Annex II**)
 - Those who have been informed their acceptance are requested to prepare an Action Plan (1st version) based on the problems informed with their acceptance notice and submit it at the time of program orientation on May 21.

V. OTHER MATTERS

1. A pre-departure orientation

A pre-departure orientation will be held at JICA overseas offices (or Embassies of Japan) to provide the selected candidates with details on travel to Japan, conditions of training, and other matters. Participants will see a video, *Training in Japan*, and receive a textbook and cassette tape, *Simple Conversation in Japanese*. A brochure, *KENSHU-IN GUIDE BOOK*, will be handed to each participant before (or at the time of) the orientation.

2. Country Report & Action Plan

In the course of training, each participant will be requested to make presentations on Country Report and Action Plan. Visual presentations are highly appreciated. Using Power Point and/or an OHP are recommended. Details on each presentation are following:

(1) Country Report and Action Plan (1st version) presentation

Contents: see Annex I (Country Report) and Annex II (Formulation of Action Plan)

Presentation date: May 28

Schedule: 30 minutes including 10 minutes for Q&A

Submission of soft data: at the time of program orientation on May 21

(2) Action Plan (final version) presentation

Contents: see **Annex II** (Formulation of Action Plan) Presentation date: at the end of the training program Schedule: 40 minutes including 10 minutes for Q&A

Submission of soft data: will be announced during the training

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

ANNEX I

Engineering on Water Supply Systems (JFY 2008)

Country Report

All applicants are required to prepare the Country Report providing the information on the following subjects, with accurate data because this serves as the reference for the selection of applicants as participants

The Report should be typewritten in English and submitted together with the Nomination Form. Please use additional sheets of paper (A4 size), if necessary.

I. Introdu	ction								
	1. Name of applicant:								
2. Name	2. Name of country:								
3.E-mai	l Address:								
	ry Information aphic location								
2.Popul	ation								
3.Econo	3.Economy (Main Industries, GDP, etc.)								
4.Clima	4.Climate (Annual Rainfall, Seasons, etc.)								
5.Total	5. Total Number of Cities								
	largest Waterworks in the countr	y (Please fill in the Table1)							
Table 1									
Name	Name of Organization	Capital(Public/ Private/	Total	Supplied					
of City		Public Private Partnership)	Population	Population					

Name of City	Name of Organization	Capital(Public/ Private/ Public Private Partnership)	Total Population	Supplied Population
		•	•	

III. Organizational Framework and Job Description

1. Name of Applicant's Organization

2.	The established year of your organ	ization		
3.	(b) Staff in charge of the formulating overnment	on of watery on of watery aff in charge	option among the followings.) works plan in a water supply utility works plan in the national government or a loc e of the formulation of waterworks plan	:al
4.	Type of the applicant's organization (a) Part of Government Department (b) Government Corporations (c) Independent Authority (d) Others (Please describe.)		noose one option among the followings.)	
5.	Capital formation (Financial Resor National Government Local Government Investor (Private) Others(Please describe:	urce) of the a	applicant's organization (%) (%) (%) (%)	
6.	Governmental Control: (Please selection) (a) Staff Number (b) Staff salaries (c) Tariff (d) Appointment of top management (e) Budget for O&M (f) Budget for development (g) Disconnection for non-payment	ent	ons which are subject to governmental instructi	on.)
7.	Cost (Budget) for operation/man (1) Personnel:	agement of	the applicant's organization (USD)	
	(2) Power/Fuel:		(USD)	
	(3) Chemicals:		(USD)	
	(4) Other materials:		(USD) 10	

	(5) Transport:		(USD)
	(6) Others (describe)):	(USD)
	(7) Total O&M cost:		(USD)
8.	The number of cities/towns which your organ	niza	tion has responsibility
9.	Service area of the applicant's organization		(km^2)
10.	Total population of the applicant's city (service)	ce a	rea?)
11.	Total population served by the applicant's org	gani	zation
12.	Number of staff members (1) Clerical Staff: (2) Engineer: (3) Technical Staff: (4) Laborer: (5) Total:		
13.	Organization chart(Please attach the chart of	you	r organization)
14.	Organization chart (Please attach the typical country, local level to the national level in the		canization chart of every waterworks in the applicant's plicant's country.)

IV. Water Supply

1.	Name of waterworks in which applicant is engaged		
2.	Proportion of water resources(%) > Surface water: (%) > Groundwater: (%) > Others: (%)		
3.	Total amount of annual water supply	(m^3)	
4.	Maximum daily water supply demand	(m ³ /day)	
5.	Average water supply demand	(m ³ /day)	
6.	Estimated total production volume	(m³/day)	
7.	Number of treatment plants		
8.	Total capacity of treatment plants	(m ³ /day)	
9.	Water Quality		
Tab	ple 2		
	1.10	Raw water	Tap water (Treated water)
	rbidity (degree)		
pH	lor (degree)		
	rdness (ppm)		
	n (ppm)		
	inganese (ppm)		
	rate Nitrogen (ppm)	\	
Otr	ners(Please describe:) (ppm)	
(Main treatment process (Please choose one option fi (a) Conventional (b) Slow Sand Filter (c) Others (Please describe:	rom among the follow	wings.)
11.	Chlorination method (Please choose one option from (a) Gas injection	n the followings.)	
	(b) Powder injection		
	(c) Other disinfection method (Please describe:)
,			,

(a) dail	y (times/day)				
(b) wee	ekly(times/week)				
(c) moi	nthly(times/month)				
(d) ann	ually(times/year)				
13. Distribi	ution pipes					
(1) Lei	ngth			(km)		
(2) Pip	e size			(mm)		
(3) Ma	terials					
(4) Inv	entory of pip	e size?				
14. Storage	capacity			(m^3)		
15. Water leakage ratio				(%)		
16. Leakag 17. Annual		epaired leakag	ge points			
18. Typical	Problems					
		describing thr	ree typical probl	ems, classified into	3 cates	gories (i.e. big, middle and
			tions and their co			5 (6 ,
Table 3						
	Name	of City	Unaccounte	d-for Water Condit	ions	Countermeasure
Big (Serious problem)						
Middle						

12. Frequency of bacteriological tests

Small

(Minor problem)

(Please choose one option from the followings and describe the number.)

. Customer Service

Please describe the following	ra concorning the largest xxx	ton utility in	applicant's invisdiction	
Piease describe the following	os concerning the largest wa	ner miniv m	addicam s infisaichon	1

- 1. Number of house connections
- 2. Number of public taps (PT) / Standpipes (SP)
- 3. Number of people per PT / SP
- 4. Custom of water usage for drinking (Please choose one option from the followings.)
 - (a) Directly from tap
 - (b) After boiling
 - (c) After filtering
- 5. Coverage of 24-hour water supply

(%)

6. Average hours of water availability to most people

(hrs/day)

- 7. Number of industrial connections
- 8. Number of commercial connections
- 9. Number of other connections
- 10. Annual number of customer complaints
- 11. Annual public relations expenditure

VI.	Water Billing							
1.	Estimated unaccounted-for w	vater	(m^3/day)					
2.	Percentage of metered water		(%)					
3.	Annual number of meters replaced or repaired							
4.	Name of authority which determined the water rate							
5.	Year of the implementation of the current water rate							
6.	Name of the system used for	the calculation of water rate						
7.	Water rate against the amount of consumption (Please choose one option from the followings.) (a) Progressive (b) Digressive							
8.	Frequency of reading of water	er meter (every days)					
9.	Billing period	(months)						
	Collection method of water b	,)				
11.	Average amount of water cor (1) Volume	nsumption by domestic (residential) (m³/month)	customers					
	(2) Water rate	(USD/month)						
12.	Percentage of water charges	against the total living expenses for (%)	the average domestic customers					
13.	Please attach the table of the	lease attach the table of the present water tariff						

14. Relevance between sewerage bill and water bill (Percentage of sewerage bill surcharge on water bill)

(% of water bill)

. Relevant Laws and Regulations, Master Plan

1. Laws and Regulations (Please describe the outline of the relevant laws and regulations regarding water supply in Table.4.

Table 4

Name of Law or Regulation	Year of Legislation	Purpose/Description

2. National development plan and its sector plan in waterworks
Please describe the outline of plan(s) in the Table 5 and attach a copy of Sector Plan in English.
Table 5

Name of Plan	Target Period	Outline of Content

. Foreign Assistance

Please describe the outline of foreign assisted programs in the last 10 years in Table 6.

Table 6

Table 6			T	
Name of Donor	Year	Grant/ Loan	Amount of Fund	Outline of Program/Project

. Priority Need

1. Major constraints

The constraint factors listed may prevent the applicant's sector from accelerated development. Mark the appropriate boxes so that they will show whether these factors represent very severe, severe or moderate impediments to the overall development of the entire sector. Constraints are usually inter-related. Also, constraints ranking is subjective and will vary depending on the agency that makes the evaluation. However, it may be possible to determine the relative importance among them.

The purpose of ranking the constraints is to identify what kind of efforts should be made to remove or reduce the most severe ones. If the ranking changes appreciably in 5 or 10 years, it means that a certain degree of success has been achieved in constraints-reduction endeavors.

If changes occurred between 2002 and 2007, all constraints including those that have not changed, should be entered in the table to give a full picture of the situation in the end of 2007.

Please indicate with the mark () for the situation of major constraints in Table 7.

Table 7

	Ranking of Constraints			
Constraints	Very Severe	Severe	Moderate	
1. Lack of definite government policy for the sector				
2. Funding limitations				
3. Inadequate or Outmoded legal framework				
4. Inappropriate institutional framework				
5. Inadequate water resources				
6. Insufficient knowledge of water resources				
7. Inadequate cost-recovery framework				
8. Insufficiency of trained personnel				
(1) Professional				
(2) Sub-professional				
9. Lack of planning and design criteria				
10. Inappropriate technology				
11. Intermittent water service				
12. Operation and maintenance				
13. Logistics				
14. Import restrictions				
15. Non-involvement of communities				
16. Insufficient health education efforts	-	·		
17. Others (specify):				

2. Technical/Management problems (Please explain technical or management problems your department/organization currently experiencing in Table 8.)

Table 8

Outline of Problem	Applied Countermeasure

3. Problems to be solved at present and in the future (Please describe concretely as many items as possible including even minutia because this is utilized for the decision of strategies of action plan.)

Table-6

Outline of Problem	Background to Efforts	,Present Status, etc

Please add sheets of paper for the description, if necessary.

Engineering On Water Supply Systems

(JFY 2008)

Formulation of Action Plan

1. Action Plan

Each participant is requested to formulate an action plan at the final stage of the training course, making best use of the knowledge and experience you have acquired through the course. The objectives of the program are to make sure what he/she have obtained through the training course and to learn how to propose his/her ideas in his/her organization in the future. Attention has to be drawn to the region regarding water supply in your country.

2. Process

Each participant is requested to formulate an action plan in accordance with the following process:

Country Report (ANNEX I) . Priority Need
Describe concretely problems in Table 7. Major problems to be solved at present and in the future and send it together with A2A3 forms.
JICA informs the problems which are adopted for the formulation of an Action Plan with the
acceptance notice as a participant.
Prepare an Action Plan (1st version) based on the problems informed before the arrival in Japan and
submit it at the time of Program Orientation.
Make presentation of the Country Report and the Action Plan (1st version) and obtain comments from
Japanese advisors.
Modify the content of the Action Plan(1st version) based on the comments given by the Japanese advisors.
dd v 15015.
Make interim presentation of the Action Plan (2nd version) and obtain comments from the Japanese advisors.
Modify the content of the Action Plan(2nd version) based on the comments during the training course.
Make presentation of the Action Plan (final version)

3. Preparation of an Action Plan (1st version)

Prepare an Action Plan in English on about 2pages of A4, following the "4. Items to be described in the Action Plan (1st version)"

- 1) Collect the latest data, charts, maps, documents, etc. for the preparation of the action plan.
- (Collect them as electronic data.)
- 2) Make a feasible plan of the section which the applicant belongs to in the applicant's organization.
- 3) Set a target of the plan, deliberate how to achieve it.
- 4) Evaluate the resources (the number of persons, budget, equipment, etc.) to make the plan feasible to run.
- 5) Estimate how long it will take to complete the plan.
- 6) Investigate problems or obstacles in implementing the action plan and clarify the feasibility of the plan.
- 4. Items to be described in the Action Plan (1st version).
 - 1. Name of the Plan
 - 2. Participant's Name
 - 3. Present Status
 - 4. Concrete Problems
 - 5. Method of Problem Solution
 - 6. Contents of Concrete Actions and Objectives to be attained
 - 7. Period of the Action
 - 8. Necessary Facilities and Equipment
 - 9. Budget to be estimated
 - 10. Significance of the Plan
- 5. Attentions to be made for the modification of the Action Plan until the last version

Each Participant might have to collect data, plans, maps, documents, etc. for the modification of his/her Action Plan.

For that purpose, he/she has to assure the acquisition route of information from the division which he/she belongs to by means of e-mail.

(The participants will be able to use e-mail at almost all accommodations during their stay in Japan.)

- 1) Each participant is required to formulate the final version of the Action Plan for which problems raised in the 1st version might be different.
- 2) Each participant is required to describe more detailed data in the final version.

6. Attention for the Action Plan Presentation

Each participant may use an overhead projector, VHS video player (Japanese type) and computer equipment (e.g. Power Point) are available.



Japan International Cooperation Agency (JICA) Tokyo International Center (JICA TOKYO)

Address: 2-49-5 Nishihara, Shibuya-ku, Tokyo 151-0066, Japan TEL: 81-3-3485-7051 FAX: 81-3-3485-7904

Technical Cooperation by The Government of Japan

Training Award of Japan International Cooperation Agency (JICA)

for a training course in the field of and three copies. Please print or type.	1				
(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. Recent photo					
□ Counterpart (カウンターパート) <u>専門家名</u>					
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.					
1 FULL NAME (as in Passport, underline Family Name)					
(Family) (First) (Middle)					
2 ADDRESS FOR CORRESPONDENCE 4 DATE OF BIRTH 5 AGE					
Month Date Year					
Telephone:					
	6 SEX □MALE □FEMALE				
3 NAME AND ADDRESS OF PERSON TO BE NOTIFIED IN CASE OF EMERGENCY 7 MARITAL STATUS SINGLE MARRIED	7 MARITAL STATUS SINGLE MARRIED				
8 NATIONALITY					
Relationship to you: Telephone: 9 RELIGION	9 RELIGION				
10 EDUCATIONAL RECORD					
Years Attended Qualification					
Institution City/Country From To Obtained Subject	Subject				
11 TRAINING OR STUDY IN FOREIGN COUNTRIES (in relation to professional interests.)					
Institution City/Country Period Certificate/					
Institution City/Country From To Degree Awarded Field of Study					

12 EMPLOYMENT RECORD

1) Present Place of Employment

Name	Title of Present Job		
	Date of Taking Up Post		
Address	Type of Organization		
Telephone: Telex/Fax:	☐ Governmental/Public ☐ Private ☐ International ☐ Others		
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	e service it provides.		
4) Describe your own job.			
5) Explain how the proposed training will be of benefit return.	to you in the work you will be doing on your		
· · · · · · · · · · · · · · · · · · ·			

13 LANGUAGE PROFICIENCY

1. English				
Listening	□ excellent	good	☐ fair	poor
Speaking	□ excellent	good	☐ fair	poor
Writing/Reading	□ excellent	good	☐ fair	poor
3. Other Language				
	□ excellent	good	☐ fair	□ poor
14 NOMINEE'S DECLARATION To b	be signed by the nominee.			
I certify that the statements made b	y me in this form are tr	ue and correct to	the best of m	y 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 cor			
nominating Government and the				
(c) to follow the course of study or with which I undertake to study		ne rules of the i	nstitution or e	stablishments
(d) to refrain from engaging in poli		form of employ	ment for profi	t or gain
(e) to submit any progress report of				
(f) to return to my home country a				
I also fully understand that if gran				
make adequate progress, or for oth	ner sufficient cause incl	uding physical co	onditions deter	rmined by the
Government of Japan.				
Date:	Signature			
PART B To be completed by nominee	's Director or Head of Depa	artment.		
OBSERVATIONS OF NOMINATIN	G ORGANIZATION			
1 Describe what work the nominee v	will be expected to do o	n his return.		
•••••				
•••••			•••••	
2 Explain how the proposed training	will be of benefit to th	e work of your	organization.	
	••••••	• • • • • • • • • • • • • • • • • • • •	••••••	

	For Non-Group Training only) Describe:
) Subject area of the training required.
2	2) Special subjects which are particularly important and should be included in the training program (continue on an additional sheet if necessary).
3	3) Period of training required (from/to).
	O Notice required before remines are be alread from a remines and be already
4	Notice required before nominee can be released from present post.
D	ADT C. T. L
	ART C To be completed and signed by a responsible government official. FICIAL NOMINATION
	210112 1101211112011
I	certify that:
	I have examined the decompants in this form and I am estimated that they are extentially deleted.
	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
D	rate: Signature:
P	osition: Name:
	Official
	Organization: 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 compen sated 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.

12 DATE	13 SIGNATURE OF NOMINEE
	12 DATE