

# Capacity Building on Waterworks and Sewage Management Policy for Sustainable Development

September 7 (Thur.) - September 27 (Wed.), 2017  
Seongnam & Incheon, the Republic of Korea



Korea International Cooperation Agency



National Institute of Environmental  
Human Resources Development

# CONTENTS

<b>PART I. Course Overview</b>	<b>03</b>
<b>PART II. Course Module</b>	<b>05</b>
<b>PART III. Preparation for Country Report</b>	<b>06</b>
<b>PART IV. Preparation for Action Plan</b>	<b>08</b>
<b>PART V. Useful Information</b>	<b>10</b>
<b>Appendix 1. Introduction of KOICA</b>	<b>12</b>
<b>Appendix 2. KOICA Fellowship Program (CIAT)</b>	<b>13</b>
<b>Appendix 3. KOICA Fellowship Community</b>	<b>14</b>
<b>Appendix 4. Map and Venue Information</b>	<b>15</b>
<b>Appendix 5. Information on Direction to KOICA ICC</b>	<b>16</b>

**1. TITLE:** Capacity Building on Waterworks and Sewage Management Policy for Sustainable Development

**2. DURATION:** September 7 (Thur.) - September 27 (Wed.), 2017

**3. GOAL**

To increase capacity for planning and implementing various strategic policies with regard to the waterworks and sewage management.

**4. OBJECTIVES**

- a) To understand various policies on and technologies in waterworks and sewage management;
- b) To identify environmental problems that the participating countries are facing and exchange the views on the issues;
- c) To enhance policy-making ability in waterworks and sewage management and to establish adaptable policies and strategies through analysis and comparison of different policies;
- d) To strengthen future cooperation in the waterworks and sewage management among the participating countries

**5. NUMBER OF PARTICIPANTS:** 17 participants from 7 countries

Guatemala(3), Nicaragua(2), Dominican Republic(2), Bolivia(2), Colombia(3), Peru(4), Saint Vincent and Grenadines(1),

**6. LANGUAGE OF INSTRUCTION:** English

**7. VENUE:** Seongnam & Incheon, the Republic of Korea

**8. TRAINING INSTITUTE:** National Institute of Environmental Human Resources Development (NIEHRD) (<http://ehrd.me.go.kr>)

**9. ACCOMMODATIONS:** KOICA ICC & Courtyard Marriott Seoul Times Square

**10. QUALIFICATIONS OF APPLICANTS:**

- This training is a one-year course to support the capacity building of waterworks and sewage management. It is aimed at middle manager level officials of the central and local government who can establish and implement policies related to waterworks and sewage management based on the knowledge and experience obtained throughout this course.

Mandatory	<ul style="list-style-type: none"><li>a) Be nominated by his/her government;</li><li>b) Be in good health both physically and mentally, to undergo the course;</li><li>c) Has not participated in the same or similar KOICA fellowship program in the past 3 years - unless otherwise specified;</li><li>d) Has more than 10 years of experience;</li><li>e) Be a government employee of ministries or organizations in charge of waterworks or sewage management (Ministry of Environment or Ministry of Housing, City and Territory);</li><li>f) Be a government employee in a managerial position;</li><li>g) Sufficient proficiency in written and spoken English to actively participate in seminars and write an Action Plan;</li><li>h) Show a high level of participation and commitment throughout the course and promote capacity building in his/her organization after the completion of the program;</li></ul>
Preferable	<ul style="list-style-type: none"><li>a) Working knowledge of computers and PowerPoint software;</li></ul>

**11. CLOSING DATE FOR APPLICATION:** August 7, 2017

## PART II

## COURSE MODULE

### 1. COURSE MODULE

MODULE	MAIN LECTURES & DISCUSSIONS	STUDY VISIT
<b>Module 1.</b> Sustainable Water Management	<ul style="list-style-type: none"> <li>▷ Sustainable development strategies</li> <li>▷ History of Korea's water environment management policies</li> <li>▷ Korea's international cooperation projects related to waterworks and sewage management</li> </ul>	<ul style="list-style-type: none"> <li>- Korea International Water Week (Expo)</li> </ul>
<b>Module 2.</b> Waterworks Management	<ul style="list-style-type: none"> <li>▷ Waterworks management policies and treatment technologies</li> <li>▷ Soil and groundwater management policies</li> </ul>	<ul style="list-style-type: none"> <li>- Han River Environment Research Center</li> <li>- Yeongdeungpo Arisu Water Purification Center</li> <li>- K-water</li> </ul>
<b>Module 3.</b> Sewage Management	<ul style="list-style-type: none"> <li>▷ Sewage management policies and treatment technologies</li> <li>▷ Water reuse</li> </ul>	<ul style="list-style-type: none"> <li>- Northern Water Resources Ecological Park</li> <li>- Korea Environment Corporation (Water tele-monitoring system)</li> <li>- Suwon City (Rain City Project)</li> <li>- Sungkyunkwan University (Grey water system)</li> </ul>
<b>Module 4.</b> Application	<ul style="list-style-type: none"> <li>▷ Country report presentation</li> <li>▷ Action plan workshop</li> </ul>	

<b>EXTRACURRICULAR ACTIVITIES</b>	<ul style="list-style-type: none"> <li>▷ Home Visit Program</li> <li>▷ Seoul City (<a href="http://www.visitseoul.net">www.visitseoul.net</a>)</li> <li>▷ Gyeongju Tour (<a href="http://www.gyeongju.go.kr/open_content/eng/index.do">http://www.gyeongju.go.kr/open_content/eng/index.do</a>)</li> </ul>
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## PART III

## PREPARATION FOR COUNTRY REPORT

### 1. GUIDELINES FOR THE PREPARATION FOR THE COUNTRY REPORT

A Country Report is an in-depth report that contains an analysis of the current development issues facing your countries in your fields of expertise. The KOICA's Fellowship Program includes a Country Report session where participants have an opportunity to share these issues with other participants and Korean experts. Throughout the course, you engage in debates and discussions to resolve them.

A Country Report is directly connected to an Action Plan. Based on what you present and discuss throughout the course, you are requested to present an Action Plan on the last day to develop practical measures to apply the knowledge, technology and experience to your worksite.

Program participants are requested to prepare and submit your Country Report individually or as a group to the NIEHRD (National Institute of Environmental Human Resources Development) Program Manager via e-mail at **hrhwang1224@korea.kr** by **August 18, 2017**. The Country Report should be in MS PowerPoint or Word format. The length of the report should not exceed twenty A4-sized pages. The report should be written in English and double-spaced.

All participants are required to give a 15-minute presentation on the second day of the program on your Country Report individually or as a group. For more effective presentations, a projector, slide projector, overhead projector, and multimedia TV will be available (PowerPoint presentations are preferred).

### 2. TOPICS TO BE COVERED IN THE COUNTRY REPORT

## **A. Programs to improve waterworks and sewage management**

Possible subject 1: Waterworks management policies and challenges  
(including water quantity management)

Possible subject 2: Sewage management policies and challenges  
(including soil and groundwater contamination)

## **B. Details of Country Report Preparation**

### **• National level service structure**

- Introduce your organization including personnel, main roles and equipment
- Introduce your Ministry/Department/Bureau, describe the authorities responsible for the planning and implementation of waterworks and sewage management, and attach the Ministry/Department/Bureau's service delivery structure chart including the number of workers engaged in waterworks and sewage management

### **• Strategic policies**

- Describe government policies or guidelines on the above subjects. (short-term or long-term plans: goals, priorities, strategies, etc.)

### **• Current projects or challenges**

- Describe current projects or activities on the above subjects. (goals, project period, budget, etc.)
- Successful cases and challenges in implementation

### **• Data collection, reporting and monitoring system**

- What kinds of statistical data are collected?
- Describe major problems with the current data collection, reporting and monitoring system.
- Is there any quality control and quality assurance activities?

### **• Statistical data on the following information (Please indicate the source of the data).**

- Water quality (BOD, COD, T-P), water quality standards, drinking water quality standards and water quality monitoring
- Waterworks statistics (population served by water supply, number of facilities, water supply rate, water price, etc.)

- Sewage statistics (population served by sewage system, number of facilities, sewage treatment capacity and distribution rate, sewage service price, etc.)
- Soil contaminants and groundwater quality standards
- Disaster response

● **Other relevant information**

- Information on water sources, purification and treatment facilities and laws
- Any international capacity building projects have been involved?

## **PART IV**

# **PREPARATION FOR ACTION PLAN**

### **1. GUIDELINES FOR PREPARATION OF THE ACTION PLAN**

An Action Plan is a specific plan created by participants on how you can apply your learning to your worksite. Action Planning is a process which will help you to identify your objectives and decide what steps you need to take to achieve your goals. Establishing and implementing your Action Plan will not only contribute to your professional development but also to positive organizational change.

A good Action Plan entails who will do what, when, and how in detail. Please keep in mind that meeting the financing requirement including budget and time line is crucial to make your action plan feasible and applicable to your worksite.

All participants are requested to prepare a presentation on your Action Plan individually or as a group at the end of the course. You are encouraged to make the most of your weekends and leisure time to further your knowledge acquired from the course and better prepare your presentation for the Action Plan.

Participants receive feedback from Korean experts who can share their insight and help further improvement of the Action Plan. After returning to your own countries, KOICA will continually follow up with participants to learn what kind of progress is being made in the implementation of your Action Plan. KOICA expect all participants to achieve your desired outcome.

### **2. TOPICS TO BE COVERED IN THE ACTION PLAN**

- a) Identify various problems related to each country's current situation of waterworks and sewage management.
- b) Analyze causes and devise the best way to solve problems and make proposals.



- c) Consider how it will affect the current problems and the advantages it will bring in the future.
- d) Discuss how it can be applied to your current work including a budget and a financing plan.
- e) Expected Results and Impact

### **3. STEPS FOR THE ACTION PLAN**

- **[Step 1] Present Country Report**

- On the 7<sup>th</sup> day of the course, participants are to share their current situation and issues of their interests through Country Report presentation
- NIEHRD will provide an orientation for writing an Action Plan

- **[Step 2] Lecture on Methodology / Grouping**

- Lecture on Action Plan methodology
- Form Action Plan working groups

- **[Step 3] Group Discussions / workshops**

- Brainstorm and discuss in groups for developing an Action Plan
- Consult with experts and receive feedbacks

- **[Step 4] Complete Action Plan**

- Establish an Action Plan for new development/upgraded policies or programs
- Presentation on the final Action Plan and feedback

**1. TRAINING INSTITUTE****National Institute of Environmental Human Resources Development**  
(<http://ehrd.me.go.kr>)

The National Institute of Environmental Human Resources Development (NIEHRD) is a national training institute of the Ministry of Environment, which was established with an aim to improve capacity of government officials in 1980. After reorganizations, it became an independent national environmental training institute in 2006, providing education programs not only for government officials but also for employees in the environmental field and general public as well.

NIEHRD also carries out international programs for foreign government officials, with a view to sharing Korea's experiences in the environment with other countries. As of January 2017, it has conducted 86 programs for 1,747 officials from 84 countries, providing a venue for sharing Korea's environmental policies and cutting-edge environmental technologies.

Moreover, NIEHRD is strengthening cooperation with the Korea International Cooperation Agency (KOICA) and international organizations such as United Nations Office for Sustainable Development (UNOSD) to diversify its programs.

## 2. CONTACT INFORMATION

- **Korea International Cooperation Agency (KOICA)**

- **Program Manager: Mr. David Seungbeom KIM**

- Phone: +82-31-740-0584
    - Fax: +82-31-740-0585
    - E-mail: davidkim@koica.go.kr
    - Websites: <http://www.koica.go.kr>  
<http://training.koica.go.kr>  
<http://www.facebook.com/koica.icc>

- **Program Coordinator: Ms. Jayoung BANG**

- Phone: +82-31-777-2649
    - Fax: +82-31-740-0996
    - E-mail: bgy1209@global-inepa.org

- **Name of the Training Institute**

- **Program Manager: Ms. Hyerim HWANG**

- Phone: +82-32-560-7769
    - Fax: +82-32-568-2047
    - E-mail: hrhwang1224@korea.kr
    - Home page: <http://www.ehrd.me.go.kr>  
<http://www.facebook.com/niehrd>

## Appendix 1.

### INTRODUCTION OF KOICA



*is a development cooperation agency of the Republic of Korea which was established in 1991. KOICA's mission is to reduce poverty, promote living standards and help realize sustainable, equitable and inclusive development in developing countries. To accomplish its mission, KOICA has been actively involved in enhancing developing countries' socio-economic infrastructure and institutions, providing the people of the developing world with opportunities for better lives and improving their well-being.*

#### KOICA Fellowship Program

**Human Resource Development (HRD)** has been one of the most important factors in Korea's escape from the vicious cycle of poverty and underdevelopment which had existed for many decades. With scarce natural resources, HRD played a vital role in Korea's development; thus, Korea has emerged as an exemplary showcase of national development powered by HRD. From its own experience Korea came to fully recognize the significance of HRD. With extensive experience and know-how in HRD, Korea contributes greatly to the international community by sharing its unique development experience with other countries.

The KOICA Fellowship Program is one of KOICA's main projects to support partner countries secure human resources for their development. The primary objective of the Fellowship Program is to share important technical skills and knowledge as well as to build capacities for sustainable socio-economic development. The program is composed of a wide range of topics, including public administration, economic development, science and technology, agriculture and health, etc. In order to meet the changing needs of partner countries, KOICA always strives to renovate and improve its Fellowship Programs.

## Appendix 2.

### **KOICA FELLOWSHIP PROGRAM (CIAT)**

KOICA has launched a brand-new name for the KOICA Fellowship Program in order to more effectively raise awareness about the program among the public and its partner countries.



In English, CIAT stands for Capacity Improvement and Advancement for Tomorrow and in Korean it means “seed (씨앗)” with hopes to contributing in the capacity development of individual fellows as well as the organizations and countries to which they belong.

The CIAT Program provides participants with opportunities to gain first-hand knowledge of Korea’s development experience. The programs are designed to enable participants to apply what they have learned for the development of their home countries. Since 1991, KOICA has offered about 4,255 courses to more than 69,981 participants from 172 countries.

Appendix 3.

KOICA FELLOWSHIP COMMUNITY

The Fellows' Facebook is a place for fellows to ask questions and write comments on KOICA fellowship programs. So, if you have questions regarding our program, please feel free to join our Facebook community.



facebook.com/koica.icc

Appendix 4.

MAP AND VENUE INFORMATION



## Appendix 5.

### **INFORMATION ON DIRECTION TO KOICA ICC**

- **Route:** Incheon International Airport → Korea City Airport, Logis & Terminal(CALT) → KOICA International Cooperation Center (ICC)
- **Arrival at Incheon International Airport** (<http://www.airport.kr>)

#### **Flow:**

- ▶ Fill out Arrival Card (or Immigration Card), Customs Declaration Form, Quarantine Questionnaire (on board)
- ▶ Quarantine including animals and plants (on 2nd Floor)
- ▶ Present your Arrival Card, Passport and other necessary document to Passport Control
- ▶ Claim baggage on 1st Floor
- ▶ Customs Clearance
- ▶ Pass an Arrival Gate
- ▶ Go to the KOICA Counter, which is located between Exit 1~2



- **KOICA Counter at Incheon International Airport**



Location : Next to Exit 1 on the 1st  
floor (No.9-10)  
Tel. : 82-32-743-5904  
Mobile : 82-(0)10-9925-5901  
Contact : **Ms. Jin-Young YOON**

- After passing through Customs Declaration, please go to the KOICA Counter (located between exit 1~2) at Incheon Airport. At the KOICA Counter, you can get detailed information about how to get to KOICA International Cooperation Center (ICC) and purchase limousine bus ticket for City Airport, Logis & Travel (CALT).
- All the KOICA staff at the Incheon Airport wears nametags or has signs for indication. If you cannot meet the KOICA staff at the counter, please purchase a limousine bus ticket from the bus ticket counter (located on the 1<sup>st</sup> Floor), and go to CALT Bus Stop No. 4A (or 10B). Please find the bus number 6103 and present your ticket to the bus driver. From Incheon Airport to CALT, the approximate time for travel will be between 70 to 90 minutes. When you arrive at CALT, you will find another KOICA staff who will help you reach the KOICA ICC. KOICA will reimburse the limousine bus fare when you arrive at KOICA ICC. Also, please be aware that there may be illegal taxis at the airport. Even if they approach you first, please do not take illegal taxis and check to see if they are KOICA staff.

**"Please remember to read the Fellows' Guidebook.** It is available from the Korean Embassy or KOICA Overseas Office in your country and provides valuable information regarding KOICA programs, allowances, expenses, regulations, preparations for departure and etc."