

Project Accomplishments by AJCE Members

The Project for Improvement of Equipment of Bhutan Broadcasting Service Corporation in the Kingdom of Bhutan

Principal Firm(s)	Yachiyo Engineering Co., Ltd. 
Project Site	Bhutan
Client	Bhutan Broadcasting Service Corporation (BBSC)
Finance	Japan's Grant Aid
Period	Aug. 2007 - Nov. 2009
Type of Project	B/D, D/D Tendering Procedure Construction Supervision



Master Control Room



4WD SNG OB Van

Project Outline

Bhutan is a mountainous country situated in the eastern part of the Himalaya Mountains and the topographical factor disturbs frequent communication to rural areas.

The equipment was designed and procured to enhance the capabilities of Bhutan Broadcasting Service Corporation (BBSC) which broadcasts significant information to the entire mountainous country.

Details

Yachiyo Engineering Co., Ltd. (yec) proposed the following solutions in order to improve the information network in Bhutan:

The terrestrial video transmission line which links the capital city and rural areas through telephone lines.

Satellite News Gathering system which enables to broadcast TV programs from all over the nation through satellite lines.

Master Control Room in the Broadcasting Centre which enables to process a massive amount of information efficiently.



Technical discussion with the Bhutanese side

Project Accomplishments by AJCE Members

Secondary Education Development and Improvement Project (SEDIP)

Principal Firm(s) Oriental Consultants Co., Ltd.



Project Site 5 Social Reform Agenda (SRA) provinces in the Republic of the Philippines.
(Text book procurement covered 27 SRA provinces)

Client Government of the Republic of the Philippines

Finance Japanese ODA Loans

Period January 2001 - March 2009

Type of Project Project Management Services

Project Outline

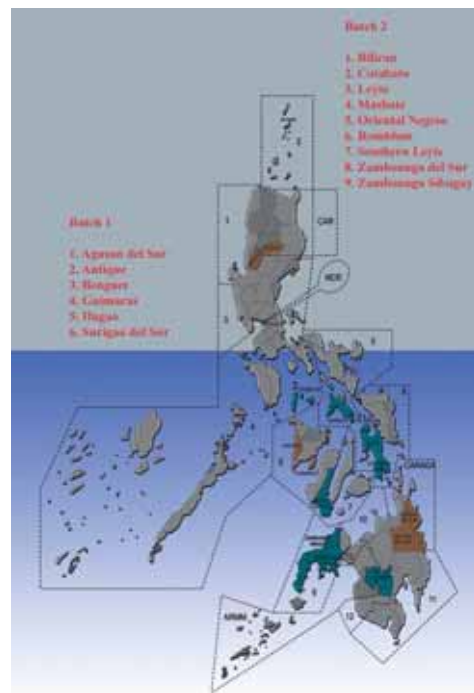
The Government of the Republic of the Philippines faced difficulties in poverty-affected provinces in raising the rates of school enrollment and transition from elementary to secondary school, and lowering the dropout rate. The Government therefore devised the Secondary Education Development and Improvement Project (SEDIP).

This project aimed to improve equitable access to quality secondary education in 15 Social Reform Agenda (SRA) provinces (a component for text book procurement was extended to 27 SRA provinces). The project entailed three main objectives: (i) to improve the quality of secondary education, (ii) to increase the rate of participation in and completion of secondary education, and (iii) to facilitate decentralization to transfer greater management responsibilities and decision making authority to the schools and Department of Education Division Offices at the provincial levels.

Details

School Facility Development Component (15 provinces)
- Construction of about 1,500 school buildings including 15 new schools (new construction and repair work)

- Procurement of school furniture for new school buildings
- Procurement of about 5,000 sets of school equipment
- Education Sector Component (6 provinces)
 - School Improvement Plan
 - Division Education Development Plan
 - In-Service Training for school heads and teachers
 - High School Innovation Fund Project
 - Secondary Schooling Alternatives
 - School Based Management



Project Accomplishments by AJCE Members

Sofia Metro Extension Project

Principal Firm(s) Oriental Consultants Co., Ltd.JV with Padeco (Prime)



Project Site Sofia, Bulgaria

Client Municipality of Sofia

Finance Japanese ODA Loans

Period September 2002 - September 2009

Type of Project Basic Design and Detailed Design
Tender Assistance
Construction Supervision

- Reviewed, revalidated and supplemented the preliminary designs
- Reviewed and finalized available designs and tender documents for various contract packages
- Selected contractors
- Supervised construction
- Commissioned and conducted trial runs of the extension
- Prepared manuals for the operation and maintenance of the signaling and telecommunications systems

Project Outline

The Metropolitan Company, Sofia's rapid transit company, first became operational in early 1998. The city's metro master plan, prepared during the period of socialist rule, calls for the construction of three radial routes with a total length of 52 km. The Metropolitan Company has already started operation of Line No. 1 from Station 1 to Station 7 (8.1 km), at intervals of 6 minutes during the morning and evening peak hours. The purpose of the Sofia Metro Extension Project was to enhance the movement of people in central Sofia by extending the already operating subway system, from Station 7 to Station 9.

The total length of the project is 2.3 km with twin single tracks running in tunnels constructed by the shield tunneling method. It includes two new stations, Station 8 and Station 9, constructed by the cut and cover method. The west end of the project connects to Station 7 which was already in operation. The east end of the project connects to an existing tunnel constructed some 20 years ago which was incorporated into the project.

Details

Oriental Consultants provided the following engineering services to the project:



Project Accomplishments by AJCE Members

Preparatory Survey for Southern Bali Water Supply Development Project

Principal Firm(s) Nihon Suido Consultants Co., Ltd
 Nihon Suido Consultants Co., Ltd.
Project Site Southern area of Bali (Denpasar, Gianyar, and Badung) in Indonesia
Client Japan International Cooperation Agency (JICA)
Finance Japan's Grant Aid
Period March 2009 - October 2009
Type of Project Preparatory Survey

Ideas on optimum institutional arrangements were drawn up for the bulk water supply unit to be established.

Table. Summary of Water Supply Project

Basic Information	
Target Area	Denpasar, Badung, Gianyar
Target year	2015
Water demand	3,287 litre /sec
Designed Facilities for the Project	
Water Treatment capacity	300 litre /sec x 2 locations (Western and Eastern systems)
Transmission / Distribution Pipeline	42.6 km (Diameter 315 mm-900 mm)
Distribution reservoir	8.000 m ³

Project Outline

- to increase water supply capacity in the Project Area
- to strengthen the capacity of new public service unit to be established for bulk water supply
- to improve access rate of piped water in the Project Area
- to improve living environment of the residents in the Southern Bali Area

Details

In order to facilitate ODA loan project formation smoothly, feasibility study (F/S) prepared by Indonesian side were reviewed. Availability of water resource was revised and facilities, such as water intake treatment plant, water transmission pipe, reservoir and distribution main, were preliminarily designed. Project cost and its implementation program were also reviewed and then financial soundness of the project were analysed. Business plans prepared by three waterworks, namely PDAM Denpasar, PDAM Badung and PDAM Gianyar, were reviewed to support financial soundness of the three PDAMs.



Project site and designed system



Planned location of a water intake

Project Accomplishments by AJCE Members

Study on Water Environment Improvement Project for Da Nang City in the Social Republic of Viet Nam

Principal Firm(s) Nihon Suido Consultants Co., Ltd

Project Site Da Nang, Viet Nam
Client Ernst & Young ShinNihon LLC, Japan External Trade Organization (JETRO)
Finance The Ministry of Economy, Trade and Industry
Period August 2009 - February 2010
Type of Project Pre-Feasibility Study

Considering the massive rainfall in rainy season, separated sewer system was proposed in METI Phase I, in order to solve the ineffective treatment situation of existing combined sewer system.

Table. Summary of Priority Project

Sewerage / drainage project	
Target Area	Lien Chieu (764 ha)
Target year	2030
Service Population (2030)	73,900
Capacity of WWTP	16,400 m ³ /day

Project Outline

- To discover and/or formulate the Japan funded project using Japanese superior technology and know-how.
- To develop drainage and sewerage system in Da Nang City in order to decrease flood damage, improve water quality and thereby promote urban sanitation and enhance the living environment and improve the tourism business in Da Nang City.

Details

The development plan of the sewerage and drainage system, construction of new sewerage facilities and drainage facilities in Da Nang City was formulated as METI Phase I (Priority project) and Phase II projects.

Initial Environmental Examination (IEE) was conducted for priority project including water quality survey, and provided recommendation on mitigation measures for negative environmental impacts.

Project cost estimation, implementation scheduling, tariff raise plan, economic internal rate of return (EIRR) calculation were all conducted for METI Phase I with the recommendation for necessary institutional arrangements.



Water quality survey



Meeting with People's Committee

Project Accomplishments by AJCE Members

THE PROJECT FOR CAPACITY DEVELOPMENT FOR WATER ENVIRONMENT CONSERVATION IN THE METROPOLITAN AREA, REPUBLIC OF GUATEMALA

Principal Firm(s) CTI Engineering International Co., Ltd



Project Site Metropolitan Area, Guatemala

Client Japan International Cooperation Agency (JICA)

Finance Japan's Grant Aid

Period March 2006 - December 2009

Type of Project Technical Assistance Project

Project Outline

This capacity development project, which covers 9 municipalities in the metropolitan area, Guatemala, focused on the enforcement of the Wastewater Regulation (Acuerdo Gubernativo No.236-2006) that took effect in May 2006. In order to develop the capacity of the Ministry of Environment and Natural Resources (MARN) for the implementation of the Regulation, a variety of activities regarding four main components of making of policies and strategies, wastewater control, establishment of database system and environmental education were implemented from March 2006 through December 2009.

Details

Established so recently in 2000, the administration capacity of MARN had been very low, and almost no significant activities had been implemented for the conservation of water environment. In May 2006 MARN enacted the Wastewater Regulation, and it was decided that this Project would focus on the capacity development of MARN for the smooth implementation of the Wastewater Regulation. Project activities were made by four technical

working groups (TWGs) that corresponded to the four components. Each TWG was composed of 2 to 10 counterparts of MARN, supported by the consultants.

The first TWG elaborated four strategies for effective enforcement of the Wastewater Regulation, and implemented a pilot project for rating the water environmental performance of industries. The second TWG was engaged in activities related to monitoring of wastewater from industries. Wastewater of a total of 400 industries was sampled and analyzed under the Project. The third TWG established a web-based water environmental GIS database system that contains results of the above monitoring and water quality data of the Amatitlan lake and its tributaries. The fourth TWG developed water environmental education materials (video and a manual) for secondary school students with the Ministry of Education.

It was concluded that the project purpose was achieved as planned, and that the policy of conservation of water resources in the metropolitan area would be reinforced if Guatemalan Government continues its environment-friendly social development policies.



Wastewater Monitoring by Counterparts

Project Accomplishments by AJCE Members

THE PREPARATORY STUDY FOR SECTOR LOAN ON DISASTER RISK MANAGEMENT IN THE REPUBLIC OF THE PHILIPPINES

Principal Firm(s) CTI Engineering International Co., Ltd



Project Site Whole of PHILIPPINES

Client Japan International Cooperation Agency (JICA)

Finance Japan's Grant Aid

Period February 2009 - January 2010

Type of Project Preparatory Study

Project Outline

The Philippines is one of the countries most severely damaged by natural disasters in the East Asia Region. Among the natural disasters, 92.5% are caused by typhoons that bring heavy rainfall and strong wind.

In the Philippines, master plans for flood control projects of the Major River Basins (12 out of 18) with catchment areas of more than 1,400 km² were formulated in 1982. Based on those plans, feasibility studies and projects were implemented with ODA and other international funds. Even for the Principal River Basins with catchment areas of more than 40 km², urgent flood control projects whenever severe flood damage occurred were implemented. So far, however, river basins where flood control works have been implemented are very limited.

Under the circumstances, it has been recognized that there is a necessity for the early implementation of flood control projects not in the whole river basin but only for the core area in each basin. For this purpose, the idea of a "Sector Loan" from New JICA (the merged JICA and JBIC) has been brought up to cover several river basins as a package but only for the protection of core areas. To make arrangements for the Sector Loan, feasibility studies are needed for the selected core areas scattered in these river basins.

In line with the above idea, the DPWH had decided to conduct, by itself, F/Ss for twelve (12) river basins belonging to the group financed with local funds. For three (3) of the

river basins including the group of foreign funds, F/Ss are to be conducted by the DPWH with New JICA's assistance.

Details

The objectives of the sector loan project are to strengthen the capability of Philippine Government agencies concerned in disaster risk management and to mitigate flood damage in vulnerable areas through the following:

- (1) Implementation of structural and non-structural measures for the improvement of rivers in high risk flood damage areas. The selection of such rivers shall be in accordance with the results of the "Study on the Nationwide Flood Risk Assessment and the Flood Mitigation Plan for the Selected Areas in the Republic of the Philippines.":
- (2) Improvement of disaster risk management systems, including management of the disaster response fund for flood control.

The objective of the Preparatory Study is to prepare the basic materials necessary to implement the sector loan project aforementioned, including the following:

- (1) To select three (3) objective river basins and core areas where urgent implementation of a flood control project is really needed;
- (2) To conduct feasibility studies for the selected core areas in the three river basins;
- (3) To arrange the materials for preparation of the Implementation Program (I/P) in connection with the application for a sector loan; and
- (4) To confirm and recommend, if necessary, the current institutional arrangements to manage the sector loan.



Inundation by Perennial Typhoons (Marikina River in Typhoon Ondoy)

Project Accomplishments by AJCE Members

Rades - La Goulette Bridge Construction Project

Principal Firm(s)	Nippon Koei Co., Ltd. (NK) JV with PCI, SCET and STUDI <i>NIPPON KOEI</i> <i>Challenging mind, Changing dynamics</i>
Project Site	Rades and La Goulette, Tunisia
Client	Government of the Republic of Tunisia
Finance	Japanese ODA Loans
Period	1990 - 1991 and 1997 - 2008
Services	Following the Feasibility Study in 1989-1990 and the Study for Special in 1996-1997, JV led by NK carried out: Detailed Design Tender Assistance Construction Supervision

Project Outline

The Grand Tunis region is divided into South and North by Canal of Tunis Lake, and the traffic between the two areas depended on either routes passing through the urban area of Tunis or ferryboats. Connecting directly these areas, this Project plays a critical role in the urban development by facilitating transport between South including the commercial port of Rades and its industrial district, and North including the tourist port of La Goulette, Cartage Ruins, Sidi Bou Said and the suburbs. Not only economic development but also socio-environmental benefits such as reduction of traffic congestion and NOx are expected by reducing the traffic volume passing through the urban area of Tunis.

Details

The project details are as follows:

- Main Bridge: 260m (70m+120m+70m), Extra-dosed PC box girder type
- South Approach Bridge and South Canal Bridge: 580m in total, PC girder bridges
- South Approach Road: 2.2 km
- North Interchange and Ramp Ways: 1.9km (including 1.6km of curved PC box girder bridges)
- Deviation of Expressway: 2.4km
- Reclamation : 18.5ha
- North Extension Road : 6.5km



Main Bridge, North Interchange and Ramp Ways



South Approach Bridge



Main and South Approach Bridges under construction



Monument



Memorial Postal Stamp

Project Accomplishments by AJCE Members

Technical Cooperation Project for Agricultural and Rural Development for Rehabilitation and Reconstruction through Community Approach in Trincomalee (TRINCAP), Sri Lanka

Principal Firm(s)	Nippon Koei Co., Ltd. NIPPON KOEI <i>Challenging mind, Changing dynamics</i>
Project Site	Trincomalee District, Sri Lanka
Client	Japan International Cooperation Agency (JICA) Japan's Technical Cooperation
Period	November 2005 - October 2009
Type of Project	Consulting Service for Technical Cooperation Project



Rehabilitation of rural infrastructures by the community people (Agriculture road)

Project Outline

To recover the agriculture production and rural livelihood affected by the ethnic conflict in Northern and Eastern Sri Lanka for last 20 years, the technical cooperation project was formulated in Trincomalee District, Eastern Province.

This project aims to establish a model for the agricultural and rural development for rehabilitation and reconstruction through participatory approach.

Details

1. Capacity building of Community Based Organization (CBO)
2. Preparation and implementation of Community Action Plan (CAP)
 - Strengthening of agriculture and livestock production and its sales
 - Rehabilitation/ construction for rural infrastructures by community (irrigation facilities, village road, community hall, agro-well, etc.)
 - Supporting for income generation activities (handicraft, sewing and value added products by village ladies)
3. Monitoring and evaluation of CAP
4. Strengthening of government services
 - Construction of Agrarian Service Center and Veterinary Surgeon Office
 - Technical guidance to the frontline officers




Introduction of Marketable Crops (Pineapple Cultivation)



Strengthening of Government Services (Reconstruction of Agrarian Service Center)

Project Accomplishments by AJCE Members

Detailed Design of the Cable-stayed Bridge for the Incheon Bridge Project in Republic of Korea

Principal Firm(s)	CHODAI CO., LTD. 
Project Site	Republic of Korea
Client	Joint Venture headed by Samsung Corporation (Project Owner: Incheon Bridge Corporation)
Finance	Private Finance Initiative (PFI)
Period	October 2004 - October 2009
Type of Project	Detailed Design as a part of Fast Track Construction

Project Outline

Detailed Design of a cable-stayed bridge with the center span length of 800m

Details

The Incheon Bridge, which links Incheon International Airport to Songdo New Town in the southern part of Incheon city, is located 10-km south of the Yeongjong Bridge, which has been in service since November 2001.

The 1.1-trillion-won-worth project was implemented through a Private Finance Initiative. The concessionaire, Incheon Bridge Corporation, a special purpose company composed of a British investment company and Incheon City, will operate and maintain the bridge for 30-years period, thereafter it will be transferred to the Korean Authorities.

The total bridge length is approximately 12km and the cable-stayed bridge with the center span length of 800m is the main structure located at the vessel passage with the clearance height of 74m.



Completed Incheon Bridge

The bridge has a 33.4m wide road deck to accommodate three (3) lanes of traffic in each direction. The pylons are made of reinforced concrete with the height of approximately 230m, supported by the drilled shaft piling foundations. The joint venture company, headed by Samsung Corporation, was awarded the contract for the project.

Chodai Co., Ltd. carried out the detailed design of the bridge under the contract with the Joint Venture. AASHTO LRFD was used as the design specifications.

In order to reduce the construction period, the contractor had adopted a fast track procedure and the bridge was successfully opened to traffic in October 2009.



Illuminated Incheon Bridge

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 and productive world



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CKC provides

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- Project Formation
- Feasibility Studies
- Detailed Design
- Tender Document Preparation
- Supervision of Implementation



Sewer Improvement Project



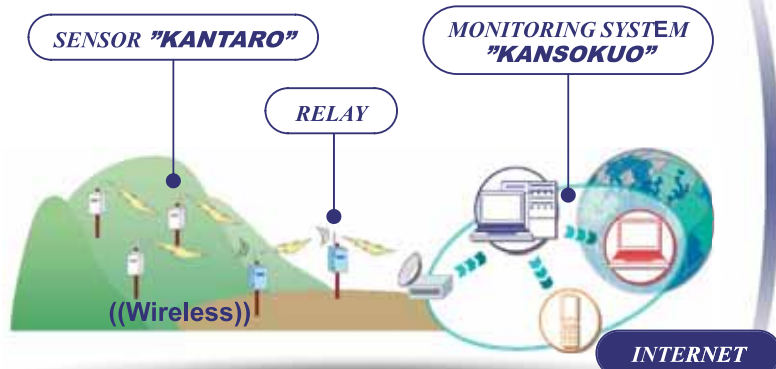
Water Development Project



Environmental Improvement Project



Automatic Internet Remote Monitoring System "KANSOKU",
and Slope Failure Monitoring Sensor "KANTARO"



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Partnering in sustainable development

CTI Group stands ready to apply our broad range of experience to deliver the ultimate in professional services for several engineering and social development fields wherever and whenever required.

Disaster Management



Flood Forecasting and Warning system for Atlas Region, Morocco

Water Resources Development



Bili Bili Multipurpose Dam Project, Indonesia

Flood Control



Flood Mitigation in Ormoc City, Philippines

Land Transport Development



Improvement of Existing Bridges along Pasig River and Marikina River, Philippines

Social Study



Water and Sanitation Improvement, Niger

Urban Development



Development for Kabul Metropolitan Area, Afghanistan



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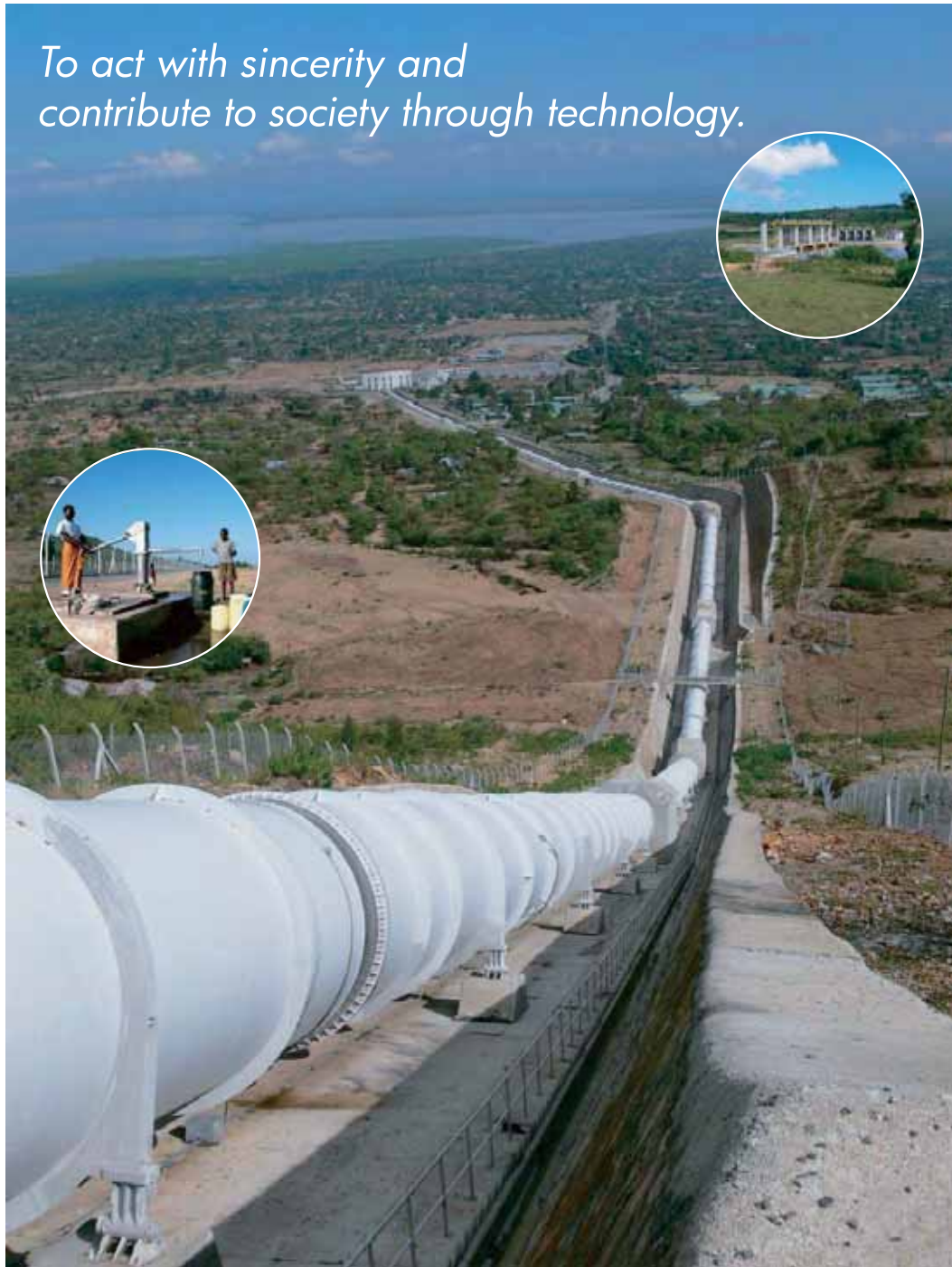
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contribute to society through technology.*

Sondu / Miriu Hydropower Project, Kenya

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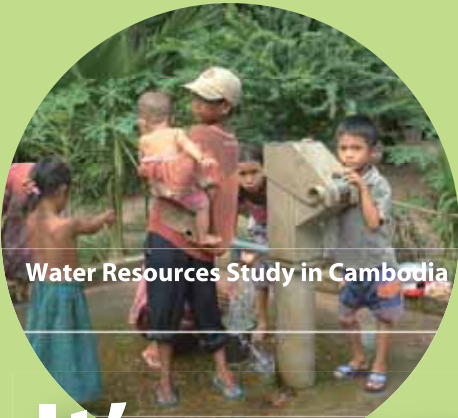
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Water Resources Study in Cambodia



Microzoning Study in Turkey



Water Quality Monitoring in Panama

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Toward a life with heartfelt communication.

Nature communicates with people.

People communicate with people.

We create a livelihood and place where we can communicate

HEART - To - HEART with each other.



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**NJS Consultants Co., Ltd.**



Members of Publicity & Relations Committee and AJCE staffs are enjoying cherry-blossom viewing party at nearby UENO Park. Cherry blossom lasts only for a few weeks, however, it flourish our spirit full of joy and happiness. Hope you can visit us in the cherry blossom season.

Illustration, Miho Yamato, Publicity & Relations Committee

Editor's note

AJCE issues the English News Letter for the overseas readers once a year, that includes the articles written by the president of AJCE and other guest writers. In 2009, AJCE organized the annual seminar, conducted the Young Professional Exchange Program, and filed the project accomplishment by member firms. AJCE strives to contribute to consulting engineering industry in Japan by paying attentions to the international trend in cooperation with the overseas MAs and CEs. This Letter provides up-to-date information of the AJCE activities.

The FIDIC 2009 annual conference "Delivering Sustainable Solutions Global challenges" was held in LONDON. AJCE members who participated in this conference discussed the world issues with FIDIC members, especially on such issues as the climate change, increasing demands for energy, and the investment in infrastructure under the global recession. They explored the role of engineers in the delivery of sustainable solutions. During the conference, the president of AJCE, Mr. Hirotani, was elected as a board member of FIDIC. He addressed that AJCE was mostly interested in promoting Quality-Based Selection (QBS) in the public procurement system to secure high quality in products and services.

As reported in this Letter, AJCE and ACEA (Association of Consulting Engineers Australia), provided the Young Professional Exchange Programme for more than 100 young engineers in both countries. The Program was established in 1996 to develop good relationship and friendship between Japan and Australia through opportunities to experience different cultures, to learn different engineering skills, and to create extensive network of young engineers. These young trainees are expected to build international capacity, to become excellent professionals, and to improve the status of consulting engineers.

Readers can find the relevant articles in this Letter. We put the importance in publicity to achieve our objectives, and to promote the exchange of information among the members of FIDIC.

We thank AJCE secretariat for preparing and publicizing this Letter. Sincere thanks to our readers also for their continued interest in AJCE.

Hideaki YOKOUCHI, vice chair of Publicity and Relations Committee.



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AJCE Members

43 firms, 166 members, 13 supporting members

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Akiyama Consulting Engineering Office

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Chuo Kaihatsu Corporation

CTI Engineering Co.,Ltd.

CTI Engineering International Co.,Ltd.

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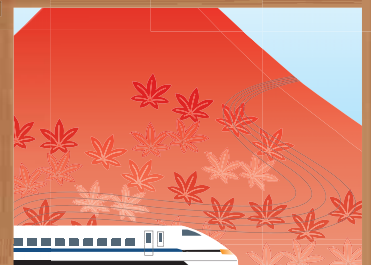
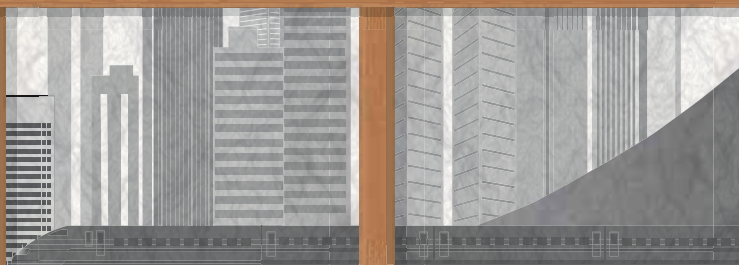
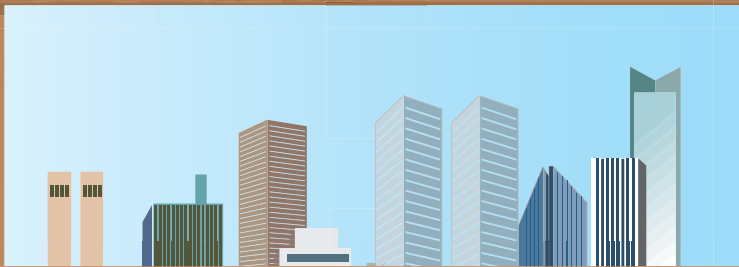
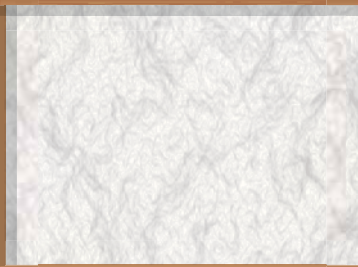
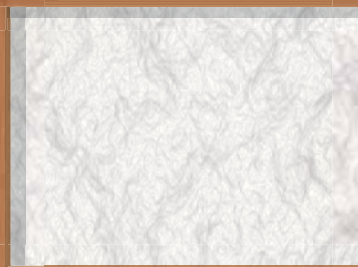
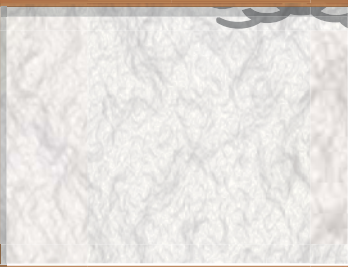
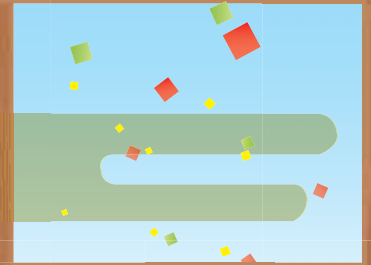
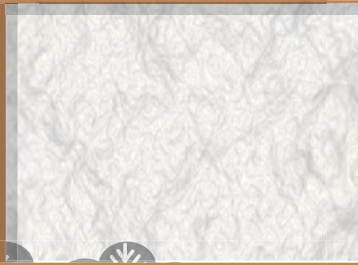
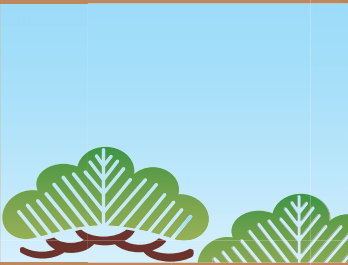
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