

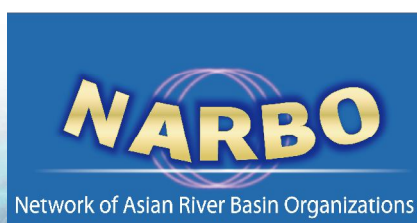
NARBO

Network of Asian River Basin Organizations

ANNUAL REPORT

2010/2011

Two Years' Number Bound Into One Volume



NARBO ANNUAL REPORT

Network of Asian River Basin Organizations

2010 / 2011

FOREWORD



First of all, I would like to extend my appreciation to all NARBO members for your continuous support and participation in NARBO activities in 2010 & 2011. These two years have been a period of consolidation and many meetings, seminars and training workshops were organized to build up capacity among our members as we work towards implementing IWRM in our river basins. In addition, NARBO participated in a number of international events and in the process, has raised its profile at the regional and global arena. The details of all these activities are in this Biennial Report.

Immediately after the 4th General Meeting in Makassar, Indonesia in November 2010, the new Management Team got to work to map out a plan of action for the ensuing period. A Management Team Meeting was held in January 2011 to brainstorm on the future direction of NARBO and to develop NARBO's Action Plan for 2011-2012. The consensus from the Meeting was that NARBO is entering a new stage and NARBO needs to refocus on its core-business.

Looking back to the NARBO activities in 2010 & 2011, NARBO organized 4th General Meeting in Indonesia November 2010, 1st Management Team Meeting in January in 2011, 1st NARBO IWRM Executive Retreat on Leadership in River Basins and International Seminar on Corporate River Basin Organizations in Asia in Indonesia, June 2011. In addition, NARBO co-organized some events like International Workshop on Water & History in Japan, December 2011. At the 1st NARBO IWRM Executive Retreat on Leadership in River Basins and International Seminar on Corporate River Basin Organizations, many discussions were made and NARBO identified important lessons and many good suggestions on appropriate models for RBOs. This kind of retreat and Seminar has proven to be very useful and should be continued into the future.



After the launch of the IWRM Guidelines which was published by UNESCO in cooperation with NARBO in 2010, the Spiral Model of IWRM is increasingly being disseminated in not only the Asian region, but also in other regions of the world. The IWRM Guidelines was translated into Spanish, and is being used at JICA Training as a Text book, and from the feedback obtained, has gained a reputation as an easy to understand reference material for JICA trainees.

NARBO was a co-organizer for the International Workshop on Water & History with the subject: "How should we learn from water and history for sustainable development?" which was held at Tokyo Development Learning Center of the World Bank from Dec 13 to 14, 2011. I was invited as a speaker as a representative of NARBO to this event. I realized again the importance of water for human. Humans have been developing water resources management since the beginning of human society. Occasionally society has struggled to achieve sustainability, but overall our efforts at managing water resources have brought us economic wealth and a better quality of life to society. Now, we are facing big challenges like climate change adaptation, the pressure of population increase and urbanization, protection of environmental issues, and prevention and mitigation of natural disasters. To cope with these challenges, water will continue to play a pivotal role. Hence, the approach of IWRM is inevitable to achieve a healthy and wealthy society in the future.

The year of 2013 has been proclaimed as a "The International Year of Water Cooperation" by the United Nations. The objective of this International Year is to raise awareness, both on the potential for increased cooperation, and on the challenges facing water management in light of the increase in demand for water access, allocation and services. We can find the word "Cooperation" in both the title and objectives in this International Year. "Cooperation" is always in demand every sector and every stage. NARBO was established to foster these kind of cooperation among RBOs and water-related government officials in the Asian region. As 2013 is not so far away, I strongly appeal to all NARBO members and the NARBO Secretariat to work together and cooperate in various fields, and in raising awareness of IWRM to the world, as well as to bring in potential member for NARBO. NARBO on its part, should increase the cooperation among



NARBO members, other regional and international networks so that NARBO would be more visible and influential.

I hope that this NARBO Biennial Report of 2010/2011 will serve as a record of your valuable inputs to improve and enhance our activities in achieving IWRM in our river basins. I would also like to record my thanks and appreciation to the Management Team and our NARBO Senior Advisors for their invaluable advice and contributions, and to our NARBO Secretary-General and the Secretariat staff for their dedication and hard work without which our activities could not have been so successful.

Chairperson of NARBO

A handwritten signature in black ink, consisting of a large, stylized 'L' shape with a small horizontal stroke at the top right.

Mr. Keizrul Bin Abdullah



Table of contents

Foreword from chairperson

1. General Information of NARBO

(1) Introduction	1
(2) Purposes	3
(3) Charter	4
(4) Action Plan	4
(5) Members	5
(6) Chairperson, Vice Chairperson and Secretariat	9

2. Record of activities

Table of activities	10
---------------------------	----

A. Advocacy, Raising Awareness and Exchange of Information and Good Practices on IWRM

I . Website	12
II . Newsletter	13
III. NARBO Promotion	14
IV. General meeting	14

B. Capacity Building in River Basin Organizations (RBOs).....

I . IWRM Training	15
II . Workshops	17
III. Twinning program	19

C. Network Support.....

I . Technical Advisory Committee	22
II . Knowledge Networking	23
III. Charting Progress and Facilitating Investment for IWRM	24

3. NARBO members' Annual Report

(1) Jasa Tirta I Public Corporation	27
(2) Japan Water Agency	36
(3) Laguna Lake Development Authority	39
(4) Red – Thai Binh River Basin Organization	51
(5) The HELP Davao Network	57

[BASELINE]

BASELINE1 : NARBO Charter	63
---------------------------------	----

BASELINE2 : Action Plan - 2008 ~ 2009	78
BASELINE3 : NARBO Members' List	87

[Programs & Newsletters]

Program1: The 4 th General Meeting	95
Program2: 1 st NARBO IWRM Executive Retreat on Leadership in River Basins.....	103
Program3: International Seminar on Corporate River Basin Organizations in Asia	107
Program4: Personnel Exchange through Twinning Program between JWA and Viet Nam NARBO in Viet Nam.....	111
Newsletters: Electronic Newsletter No.21	113

MESSAGE FROM THE SECRETARY GENERAL



Preface

As the recognition of importance of IWRM has been surging, the lack of the network to assist RBOs in Asia in their work of introducing and implementing IWRM approach came to light.

With this background, the 3rd World Water Forum was held in Japan in March 2003. At the forum, JWA, ADB and ADBI signed a Letter of Intent to jointly launch NARBO in recognition of the need to cooperate and support RBOs in order to promote IWRM in Asia. Subsequently, the three organizations made inquiries to governmental agencies, RBOs and other related organizations in Asia about their intention to participate in NARBO

and solicited their cooperation. After the inaugural NARBO General Meeting was held after the Inception Meeting in Chiang Mai, Thailand in November 2003, NARBO was established in February 2004 with 43 member organizations.

Eight years have been passed since the establishment of NARBO. The number of members becomes 76 (member list is attached in Baseline 3) organizations from 16 countries as of March 31, 2012.

Various NARBO activities had been conducted from April 2010 to March 2012 and those activities are summarized in this NARBO annual report 2010/2011.

1. General Information of NARBO

(1) Introduction

The world community has recognized the importance of managing water resources in a more integrated manner. Over the past decades, a series of regional and global water conferences, including the World Water Forums in 1997, 2000, 2003, 2006, 2009 and 2012. These conferences have underlined the need to adopt and operationalize the approach of integrated water resources management (IWRM), which is defined by the Global Water Partnership as *“a process to improve the planning, conservation, development, and management of water, forest, land, and aquatic resources in a river basin context, to maximize*

economic benefits and social welfare in an equitable manner without compromising the sustainability of vital environmental systems.”

By focusing on the management of water and related resources in a river basin context, it is implied that IWRM will be undertaken with the involvement of stakeholders at the basin level. The water conference in Dublin in 1992 referred to the need for management of water resources at the lowest appropriate level. This has become one of the basic principles underpinning the IWRM approach, and it has led to increased recognition that river

basin organizations (RBOs) can realize IWRM at the basin level. Since Dublin, the world community has also recognized the importance of promoting gender and development work as part of the IWRM approach to ensure that women participate in water management at all levels.

“Many forms of RBOs have been established in recent decades, and countries have developed various governance approaches for RBOs, for example, river basin commissions in the People’s Republic of China, river basin parliaments in France, river basin committees in Australia, river basin authorities in the United States and Sri Lanka, a lake basin development authority in the Philippines, water resources public corporations in Japan and Indonesia, inter-state RBOs like the river basin tribunals in India and the Murray-Darling Basin Commission in Australia, and international RBOs in the Mekong basin, the Syr and Amu Darya basins, and in the Tumen basin.

Some RBOs were established decades ago and have ceased to exist, while many new RBOs have been established recently. Some RBOs have a large technical capacity, employing thousands of staff, while others may employ just a handful, like the newly established river basin committees in Southeast Asia. While there are many differences between these RBOs, they share a common mission, which is to operationalize IWRM in their respective river basins.

A network to assist RBOs in Asia in their work of introducing and operationalizing the IWRM approach does not yet exist. Consequently, RBOs lack opportunities for exchanging information and experience on their operations, and access for their staff to training and capacity building that draws on the technical and non-technical experience in managing water resources in Asia.

The need for partnerships for action to achieve IWRM was recognized at the 3rd World Water Forum held in Kyoto, Osaka, and Shiga, in the Lake Biwa and Yodo River Basin, Japan, in March 2003, where it was noted that several developed and developing countries in Asia have already established RBOs to implement IWRM. The 3rd World Water Forum highlighted the need to support these RBOs through knowledge sharing and capacity building, especially in developing countries.

The 3rd World Water Forum also emphasized the contributions that IWRM can make to improve the water security of the poor, by incorporating the needs of the poor explicitly in water policies and management practices at all levels.

Recognizing the need for networking and capacity building in the implementation of IWRM, the Water Resources Development Public Corporation of Japan (reconstituted as Japan Water Agency in October 2003), the Asian Development Bank, and the Asian

Development Bank Institute decided at the 3rd World Water Forum in March 2003 in Kyoto, Japan, to collaborate in launching a Network of Asian River Basin Organizations (NARBO), and a letter of intent was signed at the Forum on 21 March 2003. After the forum, the three organizations made inquiries to governmental agencies, RBOs and other

related organizations in Asia about their intention to participate in NARBO and solicited their cooperation. The inaugural NARBO General Meeting was held after the Inception Meeting in Chiang Mai, Thailand in November 2003 and the Preparation Meeting for NARBO General Meeting in Tokyo, Japan in January 2004.

(2) Purposes

The goal of NARBO will be to help to achieve IWRM in river basins throughout Asia.

NARBO's objective will be to strengthen the capacity and effectiveness of RBOs in promoting IWRM and improving water governance, through training and the exchange of information and experience among RBOs and their associated water sector agencies and knowledge partner organizations in Asia and to advise the establishment of RBOs in Asia."

To promote IWRM in Asia, the focus of NARBO's activities will be as follows:

1) Activities for the whole of NARBO

The activities joined by all members of NARBO will be as follows:

- Advocacy and raising awareness for IWRM among RBOs, water sector apex bodies, and leading water sector agencies in the region, mainly through regional workshops.
- Sharing of information, good practices, and lessons learned for IWRM among the participating organizations, mainly by

operating databases and a web site for IWRM exchanging information, and by sending a newsletter by e-mail as well as posting on the web site and holding (sub) regional workshops.

2) Activities for regional areas of NARBO

RBOs, national and federal governmental organizations with expertise in IWRM, regional and interregional knowledge partner organizations for IWRM, and bilateral and multilateral development cooperation agencies, will be requested to support RBOs in Asia in the following types of activities.

- Supporting NARBO members to improve water governance, including the enabling policy, institutional, and legal framework for IWRM, and the formulation of the action plans.
- Building capacity of RBOs in implementing IWRM, mainly through staff exchange and training among participating organizations.
- Supporting RBOs with technical advice in regard to the planning, conservation,

development, and the proper and efficient operation and maintenance of water resources facilities, to improve IWRM.

- Fostering regional cooperation for improved management of water

resources in transboundary river basins.

- 3) The scope of IWRM activities to be supported by NARBO will be approved by the NARBO General Meeting.
- 4) NARBO's activities will initially focus on the monsoonal areas of Asia.

(3) Charter

NARBO Charter serves as a constitution because it stipulates NARBO organization and activities. The charter was presented and explained by NARBO Secretariat on February 23, 2004, the first day of the 1st General Meeting, and then it was duly approved without change. The charter consists of introduction and five sections. These five sections are as follows:

"Section 1. Denomination and Working

Language", "Section 2. Goal and Objective", "Section 3. Activities", "Section 4. Organizations" and "Section 5. Resources".

The secretariat revised the charter partially in August 2005, February 2006 (At the 2nd General Meeting), February 2008 (At the 3rd General Meeting) and November 2010 (At the 4th General Meeting) in an effort to make it to be completed.

About the whole NARBO Charter, please refer to BASELINE 1

(4) Action Plan

The action plan 2010-2012 was proposed by the secretariat at the 4rd General Meeting on November, 2010. The action plan was divided into three categories:

- A. Advocacy, Raising Awareness, and Exchange of Information and Good Practices on Integrated Water Resources Management (IWRM)
- B. Capacity Building in River Basin Organizations (RBOs)

C. Network Support.

In both of first two categories, the activities are divided in two parts, namely led by the NARBO Secretariat and NARBO member organizations. Since NARBO is a network organization, members' contribution is highly required.

About the whole NARBO Action Plan, please refer to BASELINE 2

(5) Members

At the 1st General Meeting, 43 organizations from 11 countries signed the Agreement to Membership in NARBO and 8 organizations signed the Expression of Interest for Membership in NARBO.

After the 1st General Meeting, 11 organizations newly joined NARBO and one organization withdrew (It was abolished in the organizational reform in its country) and another 3 organizations joined NARBO at the 2nd General Meeting (February 14-16, 2006) in Indonesia. As a result, the number of members became 56 from 12 countries.

After the 2nd General Meeting, 9 organizations newly joined NARBO by the 3rd General Meeting (February 20-22,

2008) in Indonesia. Finally, NARBO was joined by 9 organizations after the 4rd General Meeting (November 8-12 2010) in Indonesia. As of March 31 2012, the number of members became 76 from 16 countries. (Australia, Bangladesh, Cambodia, China, India, Indonesia, Japan, Korea, Laos, Malaysia, Pakistan, Philippines, Sri Lanka, Thailand Vietnam, and Nepal)

If an organization wants to become a member, the organization is requested to get the application form from NARBO website

(http://www.narbo.jp/narbo/registration/join_NARBO.htm).

All they need is to fill registration form and to get a recommendation letter from the existing member, and to send it to the Secretary General. The membership fee is not collected for the time being.

[The list of NARBO members]

As of March 31, 2012

Category	Member
River Basin Organization (RBO)	28
Government Organization (GOV)	19
Regional Knowledge Partner (RKP)	19
Inter-Regional Knowledge Partner (IRKP)	9
Development Cooperation Agency (DCA)	1
Total	76

River Basin Organizations (RBOs)

Classification		Country/Region		Organization
Member	RBO	Indonesia	M	Jasa Tirta I Public Corporation (PJT I)
		Indonesia	M	Jasa Tirta II Public Corporation (PJT II)
		Indonesia	M	Jragung-Tuntang Basin Water Resources Management Unit (BWRMU) (Balai PSDA Jragung-Tuntang)
		Indonesia	M	Balai Besar Wilayah Sungai Bengawan Solo
		Indonesia	M	Balai Besar Wilayah Sungai Pompengan Jeneberang
		Indonesia	M	River Basin Water Resources Management Unit Pekalan Sampean (PSDA)
		Indonesia	M	Balai Pengelolaan Sumber Daya Air Ciujung-Ciliman Banten (BPSDA)
		Indonesia	M	Sermo Water Resources Management Unit (BPSDA)
		Indonesia	M	River Basin Water Resources Management Unit Citarum (PSDA)
		Japan	S	Japan Water Agency (JWA)
		Korea	M	Korean Water Resources Corporation (K water)
		Laos	M	Nam Ngum River Basin Development Sector Project
		Malaysia	M	Selangor Water Management Authority (SWMA)
		Pakistan	M	Indus River System Authority (IRSA)
		Philippines	M	Laguna Lake Development Authority (LLDA)
		Sri Lanka	M	Mahaweli Authority of Sri Lanka (MASL)
		Thailand	M	Bang Pakong River Basin Committee (BPRBC)
		Viet Nam	M	Cuu Long & Dong Nai River Basin Organization
		Viet Nam	M	Red River Basin Organization (RRBO)
		Viet Nam	M	Day River Basin Organization
		Viet Nam	M	Vu Gia Thubon River Basin Organization
		Viet Nam	M	Ca River Basin Management Council
		Viet Nam	M	Cau River Basin Planning Subcommittee
		Southeast Asia	M	Mekong River Commission Secretariat (MRC)
		Indonesia	M	Balai Bsear Wilayah Sungai Brantas
		Philippines	M	HELP Davao Network
		Lao PDR	M	Nam Ngum River Basin Committee Secretariat
		Lao PDR	M	Nam Theun-Nam Kading River Basin Committee Secretariat

M: Member, S: Secretariat

Governmental Organizations (GOVs)

Classification		Country/Region		Organization
Member	GOV	Bangladesh	M	Bangladesh Water Development Board (BWDB)
		Bangladesh	M	Local Government Engineering Department (LEGD)
		Cambodia	M	Ministry of Water Resources and Meteorology (MOWRAM)
		Cambodia	M	Department of Hydrology and River Works (DHRW)
		Indonesia	M	Directorate General of Water Resources (DGWR)
		Indonesia	M	Water Resources Development, West Nusa Tenggara Province
		Japan	M	Water Resources Department, Land and Water Bureau, Ministry of Land, Infrastructure, Transport and Tourism
		Laos	M	Water Resources Coordination Committee Secretariat
		Malaysia	M	Department of Irrigation and Drainage (DID Malaysia)
		Philippines	M	National Water Resources Board (NWRB)
		Philippines	M	Department of Environment and Natural Resources (DENR)
		Sri Lanka	M	National Water Resources Authority (NWRA)
		Thailand	M	Department of Water Resources, Ministry of Natural Resources and Environment (DWR, MoNRE)
		Viet Nam	M	Department of Water Resources Management, MoNRE (General Office for RBO, WRD, MARD)
		Viet Nam	M	General Office for RBOs in Viet Nam (GO-RBO)
		Viet Nam	M	Southern Institute for Water Resources Planning (SIWRP), Ministry of Agriculture & Rural Development (MARD)
		Viet Nam	M	Department of Natural Resources and Environment of Dong Nai Province
		Nepal	M	Water and Energy Commission Secretariat
		India	M	Orissa Water Planning Organization

M: Member, S: Secretariat

Regional Knowledge Partner (RKP), Interregional Knowledge Partner (IRKP), Development Cooperation Agency (DCA)

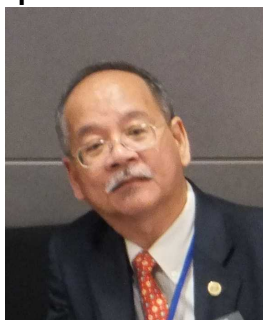
Classification		Country/Region		Organization
Member	RKP	Southeast Asia	M	Global Water Partnership (GWP) SEA RWP
		South Asia	M	Global Water Partnership (GWP) SAS RWP
		South Asia	M	South Asia Network of River Basin Organization (SASNET-RBO)
		South Asia	M	The Capacity Building Network for Integrated Water Resources Management South Asia (CapNet SA)
		Bangladesh	M	Institute of Water Modeling (IWM)
		Indonesia	M	Indonesia Water Partnership (InaWP)
		Indonesia	M	The Foundation on Water Affairs ADHI EKA
		Indonesia	M	Faculty of Engineering, Brawijaya University
		Indonesia	M	Research Centre for Water Resources (RCWR)
		Indonesia	M	Center for Environment & Civil Engineering Research
		Indonesia	M	Post Graduate Study on Water Resources Management Faculty of Engineering Gadjah Mada University
		Indonesia	M	SEMBRANI foundation
		Japan	M	JAWA - Japan Water Resources Association
		Japan	M	Japan River Restoration Network (JRRN)
		Japan	M	Graduate School of Management, Kyoto University
		Japan	M	Civil Engineering Research Institute for Cold Region, PWRI
		Malaysia	M	National Hydraulic Research Institute of Malaysia (NAHRIM)
		Nepal	M	International Centre for Integrated Mountain Development (ICIMOD)
		Thailand	M	Thailand Water Resources Association (TWRA)
	IRKP	Inter-region	S	Asian Development Bank Institute (ADBI)
		Inter-region	M	Asia Pacific Association of Hydrology and Water Resources (APHW)
		Inter-region	M	International Centre for Water Hazard and Risk Management (ICHARM)
		Inter-region	M	International Research and Training Center on Erosion and Sedimentation (IRTCES)
		Inter-region	M	IUCN - The World Conservation Union
		Inter-region	M	International Water Centre (IWC)
		Inter-region	M	International Water Management Institute (IWMI)
		Inter-region	M	The World Wildlife Fund International (WWF International)
		Inter-region	S	Center for River Basin Organizations and Management (CRBOM)
	DCA	Inter-region	S	Asian Development Bank (ADB)

M: Member, S: Secretariat

About the NARBO members' list (Detail), please refer to BASELINE 3

(6) Chairperson, Vice-Chairperson and Secretariat

1) Chairperson



Chairperson: Mr. Keizrul Bin Abdullah
(November 12, 2010 -)
(Adjunct Professor, Tenaga National
University, Malaysia)



Vice Chairperson: Mr. Tjoek Walujo
Subijanto
(November 12, 2010 -)
(President Director, Perum Jasa Tirta I
Public Cooperation, Indonesia)

2) Vice-Chairperson



Vice Chairperson: Mr. K. W. Ivan de Silva
(October 31, 2006 -)
(Director General, Mahaweli Authority of Sri
Lanka)



Vice Chairperson: Ms. Dolora Nepomuceno
(November 12, 2010 -)
(Assistant Manager, Laguna Lake
Development Authority, Philippines)

3) Secretariat

a) Secretary General



Acting Secretary General: Mr. Hisao Inoue
(October 1, 2011 –)
(Executive Director, Japan Water Agency)

b) Vice Secretary General

Mr. Wouter Lincklaen Arriens
(February 24, 2004 -)
(Lead Water Resources Specialist, ADB)

Mr. Kenji Someya
(April 1, 2010 -)
(Director, International Affairs Division, JWA)

c) Secretariat

NARBO Secretariat consists of JWA, ADB, ADBI and CRBOM. The headquarters of the secretariat is in JWA.

2. Record of activities in 2010&2011

Table of activities

Year	Month	Name of Activity	Outline of Activity	Action Plan
2010	January	NARBO Newsletter	19 th Issue (refer to 2009 Annual Report)	A.a.2
	February	NARBO Case Study Workshop - Follow up for NARBO 6 th IWRM Training	- Held in Bangkok on February 25 - 26 - Hosted by DWR of Thailand - Attended by 5 Delegates from 5 countries (refer to 2009 Annual Report)	B.a.1
		Twining Program between JWA and MALS	- Exchange of personnel implemented on February 4 - 16 - 2 engineers from JWA delegated (refer to 2009 Annual Report)	B.b.2
	March	NARBO Newsletter	20 th Issue (refer to 2009 Annual Report)	A.a.2
	May	River Basin Study Visit	- Held in Madrid and Zaragosa, Spain on 24-28 May	B.a.1
	July	NARBO Secretariat Meeting	- Held in Singapore on July 1	C.a.1
	September	NARBO Newsletter	21 th Issue	A.a.2
	November	The 4 th NARBO General Meeting	- Held in Makassar, Indonesia from 8 to 12 November.	A.a.6
		The 3 rd Technical Advisory Committee		C.a.1
2011	January	NARBO Management Team Meeting	- Held in Malang, Indonesia from 11 to 12 January.	C.a.1
	June	1 st NARBO IWRM Executive Retreat on Leadership in River Basins	- Held in Malang, Indonesia from 20 to 22 June.	B.a.2
		International Seminar on Corporate River Basin Organizations in Asia	- Held in Malang, Indonesia from 22 to 24 June.	B.a.2
	September	Twinning Program between JWA and MARD	- 2 engineers from JWA delegated from 5 to 30 September	B.b.1

Year	Month	Name of Activity	Outline of Activity	Action Plan
	September	WEPA and NARBO Joint Session on Water Quality Management in River Basins with Integrated Water Resources Management	- Held in Metro Manila, Philippines in 21 September.	B.a.2
	October	Online Course on River Basin Management	5 participants from NARBO joined this online course.	B.a.1
	November	Twinning Program between JWA and MARD	- Exchange of personnel implemented on November 15 - 24	B.b.1
	December	International Workshop on Water & History	-Organized by Government of Japan, World Bank Tokyo Office, UNESCO and UNSGAB on 13-14 December in Tokyo.	B.a.2

A. Advocacy, Raising Awareness, and Exchange of Information and Good Practices on IWRM

I. Website

1) NARBO Website

One of the main activities conducted as NARBO activities is to share the information on IWRM. As stated in the action program, NARBO provides news on NARBO activities, information on introducing IWRM in river basins in Asia, and publications related to IWRM through its website. (Fig-1) The website has been managed by JWA, the headquarters of the secretariat, since 2004, and improved for easy handling and visibleness.



Fig-1 NARBO Website

2) Database

One of the main characteristics of NARBO Website is that it has a database for members only. You can see annual reports submitted by the member organizations, sources used in IWRM trainings and workshops, and information on member organizations from the database. You need to enter the password to access it.

3) Hit Count

JWA records the hit count to research the degree of interest to NARBO website. Comparing the monthly average hit count to the top page between 2008 and 2009, there were 1820 access in 2008 and 2245 access in 2009 respectively. This shows its great increase from 2008 to 2009(See Fig-2). Also the monthly hit count in 2009 shows that the access tends to increase at the year-end (See Fig-3).

II. Newsletter

Newsletter is recognized as another useful vehicle for NARBO activities along with website, and Headquarters of the Secretariat (Japan Water Agency) is in charge of newsletter. In the same manner, members' positive involvement regarding information gathering is essential. JWA has issued the 21th issue in September 2010.

All newsletters were posted on NARBO website to make it possible for all members to see easily and sent to the contact person at each member organizations by e-mail.

NARBO Newsletter21th IssueSeptember 2010



NARBO Newsletter

<http://www.narbo.jp/>

Topics	
News	<ul style="list-style-type: none">Report of river basin study visit, Spain, 18-24 May 2010Cooperation between JWA and Integrated Flood Management (IFM) HelpDesk managed by World Meteorological Organization(WMO)
Information	<ul style="list-style-type: none">The 4th General Meeting
From Secretariat	<ul style="list-style-type: none">New Member of NARBO- Orissa Water Planning Organization(OWPO) -Newcomer

News

Report of river basin study visit, Spain, 18-24 May 2010 by Tadashige Kawasaki, Asian Development Bank Institute

River basin study visit was organized by ADB, ADBI and Government of Spain (Ministry of Economy and Finance and Ministry of Environment) on 24-28 May 2010 in Madrid and Zaragoza, Spain. Around 20 senior officials from the NARBO member organizations and water related organizations in Asia participated. The objectives of the study visit are to 1) exchange experiences and



The 21th issue

III. NARBO Promotion

1) Presentation at 6th World Water Forum

A NARBO secretariat participated in 'Implementing IWRM in South Asia through Area Water Partnership' session organized by Pakistan Water Partnership on 16 March as one of the panelists and introduced NARBO activities. He stressed that the necessity of further exchanging of knowledge and experience on IWRM and of selecting appropriate method based on regional culture and geography.

(Reported By Tadashige Kawasaki/ JWA)



Participants to the 4th NARBO General Meeting

IV. NARBO General Meeting

1) 4th NARBO general meeting

98 water professionals from river basin organizations (RBOs), financing institution, government agencies, academic institutions, and knowledge partners representing 18 countries (Sri Lanka, Malaysia, Thailand, Viet Nam, Lao PDR, Republic of Korea, United States, Philippines, Australia, Japan, Indonesia, Netherlands, Ireland, India, United Kingdom, Denmark, Nepal) participated in NARBO's 4th General Meeting which was held in Makassar, South Sulawesi in Indonesia, 8-12 November. The event was hosted by the RBO for the Jeneberang river basin in Makassar, in coordination with the Center for River Basin Organization and Management (CRBOM) under Indonesia's Ministry of Public Works, and Perum Jasa Tirta 1. New NARBO Chairperson was elected, some new organization were introduced, and NARBO charter was modified.

(Copied from a website article)

B. Capacity Building in River Basin Organizations (RBOs)

I. IWRM Training

1) River Basin Study Visit (Madrid and Zaragoza, 24-28 May 2010)

River Basin Study Visit was organized by ADB, ADBI and Government of Spain (Ministry of Economy and Finance and Ministry of Environment) on 24-28 May 2010 in Madrid and Zaragoza, Spain. Around 20 senior officials from the NARBO member organizations and water related organizations in Asia took part in the study visit. The objectives of the study visit are to 1) exchange experiences and case studies on IWRM in Asian and European countries, 2) explore ways to improve water security in Asia, and 3) strengthen networking among participants, speakers and partner organizations.

Participants exchanged experiences and lessons learnt on IWRM and Water Governance of Asia and Spain each other. Representative of Asian countries introduced their situation of river basin by using the IWRM Spiral Model. Lack of institutional capacity and finance was pointed out as common issues in Asia

Experiences and practices of river management in Spain were introduced, including river management with private sector and through remote sensing. Rivers in Spain are managed by the river basin authority. River management of Spain is

based on the EU Water Framework Directive*. Participation of stakeholders in river management is much advanced and better coordinated through systematic consensus building. The history of dialogues on transboundary river between Spain and Portugal serves as a useful lesson for transboundary river management in Asia.

Participants also visited Ebro River basin and Tajo River basin. Ebro hydrologic federation is the river basin association (RBA) in the Ebro River basin and is the oldest river basin organization in the world. It was officially established in 1926. The river basin plan is made by the River Basin Water Council under each RBA. This council consists of representative of central and regional government and water users of the river basin and the role of the council is stipulated in the Water Law. In making the river basin plan, the most important thing is to share the common information of the river basin. To meet the terms, RBA improved the observation systems of rainfall, river flow and water quality and disclosed all information to the public to secure the transparency. They saw these systems and learnt how they monitor the rainfall, river flow and water quality by using the state-of-the-art remote sensing technologies.





Participants recognized the importance of establishment of clear legal system in river management for improving IWRM. And they also acknowledged the necessity of the improvement of technical tools such as automatic hydrological system by using remote sensing to collect information for making river basin management plan.

Study visit became a good opportunity to recognize the importance of legal framework and remote sensing technology on water resources management for improving Water Governance. It was also good opportunity to discuss water governance and IWRM with organizations concerned in Spanish for looking for the possibility of collaboration for improving IWRM and Water Governance in Asia.

(Copied from a website article)

2) Four River Basin Professionals Completed CEDDET's Pilot Online Course on River Basin Management, 10 October – 18 December 2011

Four river basin professionals from NARBO member organizations in Malaysia,

Indonesia, Philippines, and Thailand completed the free online course on river basin management which was held from 10 October to 18 December 2011. The four basin professionals were:

- (i) Ms. Bidasari Binti Bahashim from Malaysia's Selangor Water Management Authority,
- (ii) Mr. Herry Rachmadyanto from Indonesia's Perum Jasa Tirta 2,
- (iii) Mr. Brando Angeles from Philippines' Laguna Lake Development Authority, and
- (iv) Mr. Boonchai Ngamvitroj from Thailand's Department of Water Resources.

Designed from interdisciplinary and policy-oriented perspectives with eight modules, the online course provided the professionals with a "must-have toolbox" on the basic elements of river basin management. It also provided a better understanding of the IWRM process as implemented by basin organizations in the region.

All the four basin professionals evaluated the online course as successful, valuable, and conducted with high quality modules. That being said, they however also felt the need to improve future online courses: (i) add tools for IWRM; (ii) have participants to actively join the forum; (ii) utilize web cams and audio for improved interactions; (iv) conduct study tours in different study sites; and (v) have more time for finishing exercises.

' There is need to for participants to continue to communicate with other participants for further learning and training.', LLDA's Mr. Angeles added.

The distance learning course on river basin management was offered on a pilot

basis by the Government of Spain through CEDDET Foundation, in collaboration with the Environment, Water and Agriculture Ministry of Spain through the Ebro River Basin Management Organization, and the Laguna Lake Development Authority.

(by Dennis Von C.Custodio

IWRM Specialist and RETA 6470 Coordinator

(Consultant))

II. Workshops

1) IWRM Executive Retreat on Leadership in River Basins (Manila, 21 September 2011)

The titled retreat was held in Malang on 20 – 22 June 2011. The Retreat aims to share executive's experiences supported by case studies of effective leadership in their river basins, and explore key for success in i) Leadership across organizations in the basin, ii) Leadership within organizations and iii) Personal leadership.

Nowadays, Asia's river basins possess unprecedented challenges. To cope with these challenges, it is important to share what IWRM executives should do to maximize their leadership in preparing river basins for the future. This time, the retreat was hosted by PJT 1 and CRBOM in Indonesia.

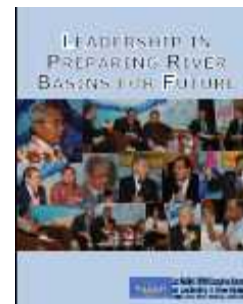
H.E. Mr. Djoko Kirmanto, Minister of Public Works, Indonesia gave his welcome remarks.

Over the two days, the 32 participants from Government agencies, RBOs, alongside other IWRM executives, special guests, moderators, resource persons and organizers, made short presentations about the leadership challenges and achievements in their specific river basins.



The group photo of participants

NARBO secretariats issued a leaflet of this retreat. Public can obtain this leaflet through website.



(Abstracted from a leaflet)

2) International Seminar on Corporate RBOs in Asia (Selorejo, 22-24 June 2011)

The titled seminar was held in Malang on 22 – 24 June 2011 back to back event of IWRM Executive Retreat on Leadership in River Basin which was held in Malang, Indonesia. Most of the RBOs operate within the structures of regular government departments. However, a growing number of governments has opted for a corporate or quasi-corporate model to provide RBOs greater autonomy in their management, capacity development, and revenue generation. The seminar provided participants with the opportunity to learn about the work and performance of corporate and quasi-corporate RBO in Asia, and participants expressed interest in applying

lessons learned in their respective countries and basins.



The group photo of participants

In the seminar, study visit was organized by OJT1. Participants learned how the infrastructure facilities in the Brantas river basin are operated and maintained.



The photo of Study visit

NARBO secretariats issued a leaflet of this seminar. Public can obtain this leaflet through website.



(Abstracted from a leaflet)

3) WEPA, IWRM Case Study Workshop (Bangkok, 25-26 February 2010)

As one of the NARBO's collaborative activities with other related organizations, Three NARBO members got the opportunity to present their results of activities at the Third WEPA International Workshop.

WEPA stands for "Water Environment

Partnership in Asia". This project is initiated by the Ministry of Environment of Japan in 2004 to solve water environment problems in Asia. IGES (Institute for Global Environmental Strategies, Japan) serves the secretariat.

Mainly, ministries and research institutes in the field of environment from thirteen countries are now the members of WEPA.

The workshop was held on September 21 and 22 for two days. The theme of each day was "Water Quality Conservation and Water Quality Management" and "Treatment of Domestic Drainage" respectively. Presentations from NARBO members were scheduled in the afternoon on the first day and the session title was "Water Quality Management taking "Basin Management" into consideration.

Three presentations were made by JWA, PJT II and LLDA. Mr. Takagi from JWA introduced the efforts of water quality conservation in Agigawa dam's catchment area, Mr. Herry from PJT II showed water quality management in Citarum River Basin using spiral model from IWRM guideline which was compiled by jointly UNECSO and JWA, then Mr. Jose from LLDA introduced development of Laguna Lake and water quality conservation measures.



The presentation from Mr. Herry from PJT II

Each presentation exceeded the allocated time and invited many questions. As a whole, NARBO members succeeded to make good impressions about NARBO itself among the workshop participants and attracted much attention about NARBO activities.

(Reported by Katsunori Takagi of JWA)

4) International Workshop on Water & History (Tokyo, 25-26 February 2010)

Water has been closely intertwined with the history of human beings. Asia's current water allocation and usage issues are rooted in the history of the region. It is essential to learn from history when exploring solutions to water issues, so that compromises can be achieved over water conflict and water can be used as a catalyst for regional development.

Based on these backgrounds, the International Workshop on Water and History was held in association with Cabinet Office of Japan, World Bank, UNESCO, UNESGAB, MLIT, ADB, ADBI and JWA. The workshop examined the lessons of history in order to build better relations between people and water in the future. High-level speakers and participants explored ways to establish sustainable regional development through water by sharing success and lessons from history. The workshop provided an opportunity to revisit our relations with water to build a brighter, more sustainable future.

Over 80 participants of 11 countries from Government, International organizations and private sectors concerned attended the workshop. In addition, Crown Prince of Japan attended the first day of the workshop.

Dr. Keizrul bin Abdullah, Chairperson, Network of Asian River Basin Organizations (NARBO) made presentations on historical development of water management. He explained the relationship between water and human civilization chronologically. He insisted "To solve many water problems, river basin approach is inevitable in the future". In addition, he mentioned importance of leaning history, considering food security, water security, the possibility of another green revolution, and the relationship between mankind and water. He summarized "there are many lessons, and we should learn from history".

The workshop was quite successful and contributed to boost improving understanding of limited natural resources, water. All participants agreed this kind of knowledge sharing is useful and to be included to water-related workshops or events.

(Reported by Tomotaka Higuchi of ADBI)

III. Twinning Program

1) What is Twining Program?

Agreements on Twining Program were concluded between Japan Water Agency (JWA) and Indonesian NARBO, Viet Nam NARBO and Sri Lanka NARBO. The personnel exchange program under Twining Program is a part of NARBO activities to share knowledge and information among NARBO member organizations and enhance their capacity to implement IWRM.

Based on the agreement, first personnel exchange between JWA and Indonesia NARBO was implemented in 2005.

2) Brief Report of Activities in 2010-2011

JWA accepted 12 persons from MARD

of Vietnam on November 15 – 24 2011. In the meantime, JWA dispatched 2 engineers to MARD on Sep 5 -26 2011.

- Exchange Personnel Between JWA & VMARD in 2011

In 2011, the program of the exchange personnel was conducted between MARD and JWA on the bilateral basis.

From Japan to Vietnam

During 5 – 26 September, two staffs of JWA, Mr. Sasahara and Mr. Nishimura, were guided to several places on the water resources management, such as some provinces near Hanoi, capital city and the TT Hue, Quang Nam, Quang Bing and Ha Tinh provinces in the central region of Vietnam. Through this visit, real situations on water management at sites were well understood. It was impressive that the practitioners of Vietnam understand issues deeply and those background and they had steadily paid much attention to resolve them. Regarding the institutional setup on the water management toward the future, JWA staffs strongly recognizes that opinion and experiences of MARD and site practitioners are crucially important.

According to JWA staffs, MARD and some umbrella organizations such as the Vietnam academy for water resources and institute of water resources planning accumulated a lot of expertise knowledge, and its ambitious strategies to meet the characteristic of Asian monsoon are expected to realize.

In this regards, it is expressed that JWA will introduce appropriate technologies with highly consideration of the current situation of water management of Vietnam.



Photo: the eroded bank of irrigation canal



Photo: Hydraulic model at the laboratory under MARD.



Photo: Dam Construction (9million cubic m)

From Vietnam to Japan

During 15-24 November, the big delegation formed by 12 persons from the Directorate of Water Resource of MARD and irrigation management companies (IMC) which manage facilities and management the water resources at the site visited Japan.

The delegation visited some project sites such Nagaragawa estuary barrage, Mie and Aichi canal scheme, Tone canal project and so on.

In this regard, they recognized the situation of well managed facilities with the proper

funding scheme.

It was useful that the documents explaining the each project were translated into Vietnamese before their visit by MARD. To arrange this delegation, the MARD carried out the elaborate preparation on expenditures and arranged the schedule.

Based on this trip, MARD now has intention to dispatch further delegations in 2012 and 2013 as well.

Effect of exchange personnel

Members of delegations between Vietnam and Japan felt the necessity what this program should be continued to exchange the information on the social background as well as the practical technology on water resources management. Therefore, the facilitation of this program is recommended to other NARBO members.



Photo: Re-construction of the aged canal using the elaborate technology



Photo: Aichi canal site



Photo: Small scale hydro power



Photo: Misogawa dam in Nagano Prefecture



Photo: Vegetable shop without shop seller.

(Reported by Hideshi Sasahara of JWA)

C. Network Support

I. Technical Advisory Committee

1) The 3rd Technical Advisory Committee

The 3rd NARBO TAC meeting was held in Makassar, Indonesia on 12 November 2010, back-to-back with the 4th NARBO General Meeting. It aims: (i) to share results of the 6th IWRM Training; and (ii) to seek advises on the direction of NARBO's IWRM Training program, including on the design of NARBO's 7th IWRM Training. According to the Action Plan 2010-2012 which was approved at the 4th General Meeting, 7th IWRM training will be held in the first quarter of 2011.

8 experts including new NARBO's constitutional body and 2 observers have participated in this meeting.

Discussions to make comments and recommendations were held and useful comments were made. Specific comments are as follows.

i) NARBO secretariat has to clarify and identify specific senior level.

ii) What is the synergy and impact to hold NARBO training back-to-back with the workshop on water and history.

iii) Case study approach will be useful. More case studies are needed to hold training course for leadership. In case of study visit, we should visit the venue where specific issues have actually happened and have dialogue on it.

iv) Senior level training we have to be careful about terms.

v) Leadership training should be focused on financing and planning perspective.

vi) We should think why we are doing this training course and why they want to come to the training.

vii) We need to be clear what we want and what is the output. Clear what is output & expectation to the achieve of the training

viii) Continue to the lower level training. Middle level is regular program.

ix) We have to think how we can implement senior people to understand better.

x) Basin reveal & leadership and need influence to senior I NARBO more member and successful case and good information we should use them. Decision makers

xi) Top level (governor and politician) training is needed and important.

xii) IWRM is still complicated and long term and can be strengthen other member and

xiii) Networking after training is important.

Based on the discussion, NARBO secretariats have to consider i) Range four days is suitable or not, ii) Make clear the target of the training and identify the senior level and iii) Expectations to senior levels after the training. Next training will be held based on dialogue style considering the target of the training.

Other specific comments to NARBO secretariats to manage NARBO were made as follows.

1) NARBO secretariats need to make survey to identify the demand of members.

2) NARBO secretariats should improve the quality of what we produce and make attractive network.

3) We should create our website and page for them to keep in touch with

secretariat.

4) Case study approach is useful.

5) Create mechanism more actively in touch with training and events and NARBO should organize regular events.

6) NARBO needs to build successful stories so that other member refer and can be used techniques.

NARBO secretariat plans to hold the Management Meeting in Indonesia on 11-12 January 2011 to have common vision of NARBO's activities among new constitutional body which was approved at the 4th General Meeting to enhance NARBO activities and emphasize the influence of river basin management in Asia. Discussions to make the clear strategy of NARBO and IWRM trainings in the future will be made, and NARBO secretariats will propose draft program of the upcoming events in March 2010 based on the recommendation of the 3rd TAC and consultation to NARBO secretariats.

(Abstracted from a Meeting Report)

II. Knowledge Networking

1) ADB water learning Week

The effective integrated water resources management (IWRM) in river basins is becoming more and more important on improving water quality, managing disaster risk and building resilience, preparing our river basins for future and leveraging knowledge sharing for capacity development. This workshop aimed to explore guidelines in IWRM. All participants discussed and shared their experiences on IWRM.

This workshop was held for five days including study visits to Laguna Lake. About 130 water practitioners, researchers, and

knowledge and funding partners from 18 countries participated in discussions on guidelines for new investments in integrated water resources management. Discussions covered water quality, disaster risk management, water security, climate change adaptation, and leveraging knowledge sharing.

At the day 4 session titled "Preparing Our River Basins for the Future", Dr. Keizrul bin Abdullah of the chair of Network of Asian River Basin Organization (NARBO) gave his presentation with the case study of Aral Sea and Bangkok Floods 2011, presented NARBOs' activities and said the world is reaching a tipping point to manage river basins better and stressed the importance of knowledge sharing and capacity building to help river basins in the Asia-Pacific region address water security.

It was a great opportunity for Asia's leading water practitioners, researchers, knowledge and funding partners, including sharing innovative practices and lessons learned. The participants discussed guidelines for new investments in IWRM in river basins, focusing on water quality, disaster risk, climate change adaptation, and water security.

(Reported by Tomotaka Higuchi of ADBI)

III. Charting Progress and Facilitating Investment for IWRM

1) Introduction of RETA 7547

In recent years, water security has become a significant issue in the region, and a pressing concern to water users, practitioners, and leaders. To increase water security for stakeholders, IWRM approach is needed.

NARBO has worked to strengthen the capacity and effectiveness of RBOs in promoting IWRM and improving water governance. Based on the 7 years collaborative activities of NARBO, the presidents of ADB and JWA signed a letter of intent in 2009 for further collaboration in strengthening IWRM through investment programs and capacity development programs to improve water security in three river basins of Indonesia (Solo River), Nepal (Bagmati River), and Uzbekistan (SyrDarya River in Uzbekistan territory) and to lay the foundation for subsequent feasibility studies of investment projects and for demonstrating best practices to the region. The TA has started from June 2010 as two year's program. In the TA, ADB is executing agency, and JWA is implementing agency.

2) ACTIVITIES

In Indonesia, Solo River basin suffer from severe degradation of the watershed, resulting in erosion and sedimentation. The middle and lower reaches suffer from increasing floods, and disputes about water allocation among urban and agricultural uses during the dry season. TA Indonesia portion focuses on 1) water distribution improvement in canal system, 2) strengthen reservoir operation &

management and 3) improve watershed management in tributaries. These activities are conducted through participatory approach such as multi-stakeholder workshops. BBWS-BungawanSolo takes a role of RBO, and Basin council (TKPSDA) has a role of coordinate/approve strategic basin plan and implementation plan with the support of RBO. Bagmati River Basin has severe issues on river environment. The upper reach in the Kathmandu Valley suffers from serious water shortages, pollution, and land encroachment by excessive population concentration in these 30 years. The middle reach is enduring watershed degradation, while the lower reach suffered frequent flooding and irrigation water shortage. To improve river environment, Nepal government has established the Bagmati Civilization Integrated Development Committee (BCIDC), which is expected to become the first RBO in Kathmandu valley. Under the Bagmati Action Plan, the government has started to address water and environmental issues in the upper reach. The TA focuses to sector coordination to formulate investment program and strategic roadmap for water security using participatory approach. The TA also focuses on planning of RBO set up for the whole river basin through step by step procedure. ADB Project Preparatory TA (PPTA) is going to take over draft investment program of this TA through feasibility study. In Uzbekistan, which lies in the middle reach of the SyrDarya and AmuDarya river basins, deteriorating infrastructures including dams, weirs, and canal systems are making allocation and water services difficult to manage during water scarcity. And the

government needs to improve present water resources management of irrigation water in canal system because SyrDarya river is transboundary river which flow is controlled by upper area country, and structural change of farm irrigation scheme in the nation after independence is still developing phase from water resources management perspectives. The government prioritized water use efficiency in irrigation canal system including water saving. TA will conduct basin profile survey and pre feasibility study to help prepare investment program, and also conduct capacity development for water use efficiency and help prepare capacity development plan. The TA plans to have regional workshop to disseminate the output to the region from IWRM perspectives. The TA also have collaborative work with NARBO, CRBOM and JICA programs. IWRM experiences of Japan Water Agency (JWA) are also reflected in the activities of the TA.



Water shed conservation



Bagmati river in Kathmandu



NARBO seminar in Kathmandu



Indonesia; The Colo Wair intake facility to the canal



Uzbekistan North Fergana canal



Dawuhan dam field check



Reservoir in Namangan

(By Takeyoshi SADAHIRO / JWA)

Member's Annual Report 2010-2011

Date of preparation: 27/11/2012

Name of the editor: Harianto, Raymond Valiant Ruritan

1. About the organization

(1) Name of the organization and postal address of the office

Jasa Tirta I Public Corporation, in Indonesian: *Perusahaan Umum Jasa Tirta I*

Jalan Surabaya 2A Malang, East Java, Indonesia 65115

(2) The representative of the organization

Harianto, President Director

(3) Purposes and roles of your organization

a) Historical background of the organization

Overall Background

Jasa Tirta I Public Corporation, commonly abbreviated as PJT-I, cannot be separated from the Indonesian Government endeavour to develop the Brantas River Basin, an important basin in the Island of Java.

The Brantas River Basin was developed with a modern approach since 1961. The development scheme is conducted based on a series of master plans that involves stage-wise planning in accordance to the national development requirements. These master plans are as follows:

- Master Plan I prepared in 1961, emphasizes on flood control by developing dams at the upper reaches and river improvements to increase flood relief capacity.
- Master Plan II prepared in 1973 after most objectives of the first master plan were achieved. This master plan was founded in accordance to the government policy on flood sustainability, by emphasizing on irrigation development.
- Master Plan III prepared in 1985 after irrigation schemes were developed in the basin and as result of the irrigation development, agricultural intensification was made possible. The third master plan emphasizes on water supply for domestic and industrial uses, as more urban area is evident in the basin.
- Master Plan IV prepared in 1998, emphasizes on effective water resources conservation and management.

This development scheme resulted into a vast water resources infrastructure network within the basin, comprising 8 reservoirs (Sengguruh, Sutami, Lahor, Wlingi, Lodooyo, Selorejo, Bening and Wonorejo), river improvement schemes, flood control schemes (open channels, tunnels and dikes), 3 barrages (Mrican, Lengkong Baru and Gunungsari) and three rubber dams (Jatimlerek, Menturus and Gubeng).

Total investment in the infrastructures itself is priced to close to IDR 10.95 trillion based on the year 2010 price level (US\$ 0.097 billion, JP¥ 78.8 billion, IDR 10,871.1 billion).

During completion of this vast network of water resources infrastructures, it become necessary to operate and maintain function of the completed infrastructures in order to ensure maximum benefit to achieve the designated technical life span and sustainable development.

Confining Factors Behind the Establishment of PJT-I

Adequate operation and maintenance (O&M) activities are necessary to be conducted by a permanent institution, with professional staff and adequate budget. Further, it is necessary to maintain the function of the water resources infrastructures to ensure optimum benefit at their planned lifetime. However, these activities encountered specific problems as follows:

1) Institution

Until 1990, there is no permanent institution that could perform O&M activities in a conceptual and sustainable manner. The Indonesian Government has assigned a temporary executive office, named Brantas River Basin Development Project (BRBDP) to take care of the water resources infrastructure development in the basin.

BRBDP main duty is to carry out the water resources infrastructure development, construction and can not completely address the operation and maintenance requirements of the developed infrastructures. Since there are many sectors in utilization of water resources in the basin, and in the other hand, the water availability is much influenced by climate and human activities, this condition will lead to conflict among uses and users. Then it is required a neutral institution to manage water resources in the basin to meet the various needs.

2) Funding

Obtaining fund for O&M activities of the developed infrastructures is limited, as the temporary executive office is not eligible to collect water service fee and the national government budget can not finance the activities as intended.

3) Water Resources Degradation

Lack of O&M funding resulted in deferred maintenance and hence in degradation of the infrastructures. Minim coordination among related agencies makes the problem more complicated.

This situation posed risk of water resources degradation, which in the long run shall harm economic development of the basin. Whereas water degradation is evident, sustainable resources are at risk.

Initiation of a River Basin Organization in the Brantas Basin

To cope with the above problem, PJT-I was established in 1990, based on the Government Regulation No. 5 with a designated working area in the Brantas River Basin. In 1999, this regulation was amended with the Government Regulation No. 93 in order to strengthen the organization and permits its jurisdiction to extend to other basins. Based on Presidential Decree No. 129 of 2000, Bengawan Solo River Basin is added as PJT I working area. At this stage, the Brantas Basin (40 rivers) and Bengawan Solo Basin (25 rivers) are managed by PJT-I.

The Government Regulation No. 93 of 1999 was recently replaced by the Government Regulation No. 46 of 2010 to suit the implementation of Water Resources Law No 7 of 2004 and to adapt the Government Regulation No. 42 of 2008 on Water Resources Management

Under this new mandate, the river basin organization is now responsible to manage water resources within its working area, conduct specified activities in the assigned rivers within the Brantas and Bengawan Solo River Basin, and to conduct other water-related-business activities like clean water supply and electric power generation.

b) Purposes and roles of the organization

The objective and goal of PJT-I is take part and support the Indonesian Government policy and program on economic sector and national development in general, and particularly on business of water resources and water resources management, as well as optimization of PJT I resources to produce goods and services based on healthy corporation management principles.

In order to achieve its objective, PJT-I maintain activities as: 1) bulk water services for potable use, industrial, agriculture, flushing, and other usages; 2) provide electricity to State Electricity Company (PT Perusahaan Listrik Negara); 3) provide and distribute potable water; 4) perform consulting in water resources fields, heavy equipment rental and water quality laboratory services, and 5) conduct specified contracting works.

The task of PJT-I within its working area – the Brantas and Bengawan Solo River Basin – is stipulated in accordance to the Government Regulation No 46 of 2010 Article 4 as follows:

- Deliver services on water resources for its utilization by the users.
- Provide the guarantee of services on water resources for the users through the implementation of operation and maintenance works, including construction of water resources infrastructure which give direct benefits.

- Provide technical consideration and advice to the RBO having authority to prepare technical recommendation for business activities on water resources.

The task of PJT-I related to water management activities within the 40 assigned rivers in the Brantas River Basin and the 25 assigned rivers in the Bengawan Solo River Basin is stipulated in the Government Regulation No 46 of 2010 Article 5 as follows:

- a) Perform operational activities of water resources infrastructures that are overhanded from the Indonesian Government to PJT-I.
- b) Perform preventive maintenance which consists of routine and periodic maintenance and minor repair of water resources infrastructures that are overhanded from the Indonesian Government to PJT-I.
- c) Routine and periodic maintenance and minor repair of water resources infrastructures that are overhanded from the Indonesian Government to PJT-I
- d) Assist the Indonesian Government in order to conserve and safeguard the available water resources to maintain its preservation.
- e) Perform emergency maintenance on water resources infrastructures that are overhanded from the Indonesian Government to PJT-I.
- f) Support the Indonesia Government in water resources conservation and managing the water resources destructive forces.
- g) Perform river flow maintenance activities.
- h) Perform monitoring and evaluation of water quantity and quality.
- i) Provide information on water quantity and quality to users, community and other stakeholders.
- j) Provide guidance and counseling to the community to improve their empowerment.
- k) Provide technical consideration and advice to the RBO having authority to prepare technical recommendation for the utilization of water resources.

Besides the tasks and responsibilities mentioned above, PJT-I also conducts public utilization of water resources to fulfill people needs for social services, welfare and safety within its working area. Those includes providing surface water supply to fulfill daily basic needs, providing irrigation water for public agriculture within the existing irrigation system, controlling flood hazards, and water resources conservation.

(4) Outline of the Organization

1) Number of staff

Number of staff as of December 2010 and 2011 is 476 and 478.

2) Amount of the annual budget in 2010 and 2011

Water Resources Infrastructures O & M cost for 2010 and 2011 = IDR 107.104 billion and IDR 111.329 billion

Water Resources Conservation cost for 2010 and 2011 = IDR 4.325 billion and IDR 3.915 billion.

(PJT-I Annual Report 2010 and 2011 – *audited*)

3) Organizational chart

See the attachment

4) Ongoing Projects

Basic activities of PJT-I comprises operational activities of water resources infrastructures, preventive maintenance, Routine and periodic maintenance and minor repair of water resources infrastructures, conserve and safeguard the available water resources and other activities that are stipulated in **Section 3.b**.

Other related projects, in correlation to the network activities of PJT-I are among others: the «Framework and Action Plans for River Rehabilitation for Small Streams in the Brantas River Basin, East Java, Indonesia» conducted in 2010 with the assistance of the United Nations Economic and Social Commission for Asia and Pacific (UN-ESCAP).

This is a pilot project of the eco-efficiency concept to develop a plan and framework of actions to prioritize subsequent activities in rehabilitate a small stream. The activities include implementing structural and non-structural measures, comprising of: (1) Implementation of non structural measures, leading to preventing further catchment degradation (soil conservation) based on local community participation (e.g. bio-pores, land terracing, gully plug, regreening and/or re-forestation); (2) Construction or installation at least one eco-efficient modular/in-situ structure to reduce pollution flow into the stream and to improve water quality; and (3) Construction of at least one eco-efficient river protection to prevent river bed or river bank erosion. This include the development of a green village concept.

5) Main events in 2010-2011

- The 4th General Meeting Network of Asian River Basin Organization (NARBO) at Makassar, Indonesia, in cooperation with NARBO, ADB and ADBI, on 8–12 November 2010.
- NARBO Management Team Meeting 2011 at Malang, East Java, Indonesia, in cooperation with NARBO, ADB and ADBI, on 11–13 January 2011.
- The 1st NARBO IWRM Executive Retreat on Leadership in River Basins and International Seminar on Corporate River Basin Organization (RBO) in Asia, Malang, Indonesia, cooperation with NARBO, ADB and ADBI, on 20–24 June 2011.

2. About NARBO activity

(1) The contact person and organization's web-site

- 1) The name, position, phone & fax number, e-mail address of the contact person
Mr. Erwando Rachmadi, phone: +62 811 353 9784, email: erwando@jasatirta1.net
Ms. Astria Nugrahany, phone: +62 812 526 3576, email: astria_air@yahoo.com
- 2) The organization's website URL (English and local language respectively)
<http://www.jasatirta1.co.id>

(2) Activities your organization implemented in 2010-2011 as the member

- Strengthening Capacities for Knowledge Networking in the Water Sector, Asia Pacific Water Forum (APWF) Knowledge Hubs and Asian Development Bank (ADB) at Manila, Philippines, on 19 – 23 April 2010.
- The 2010 World Water Week «Responding to Global Changes; The Water Quality Challenge – Prevention, Wise use and Abatement» at Stockholm, Sweden, on 5–11 September 2010.
- The 4th General Meeting Network of Asian River Basin Organization (NARBO) at Makassar, Indonesia, on 8–12 November 2010.
- NARBO Management Team Meeting 2011, at Malang, Indonesia, on 11–13 January 2011.
- The 1st NARBO IWRM Executive Retreat on Leadership in River Basins and International Seminar on Corporate River Basin Organization (RBO) in Asia at Malang, East Java, Indonesia, on 20–24 June 2011.
- The «Asian Development Bank (ADB) Water Learning Week» at Manila, Philippines, on 7–11 November 2011.

(3) Resolutions and expectations for NARBO activities in 2012

- 1) Your organization's resolutions
PJT I is involved and will participate in the NARBO activities; with the objective to: 1) achieve the goal of NARBO i.e. to help implement integrated water resources management in river basins throughout Asia, and 2) the objective of NARBO i.e. to strengthen the capacity and effectiveness of RBOs in promoting integrated water resources management and improving water governance, through training and the exchange of information and experience among RBOs and their associated water sector agencies and knowledge partner organizations in Asia and to advise on the establishment of RBOs in Asia.
- 2) Expectations of NARBO activities
Exchange and sharing of information, good practices and lessons learned for IWRM among the NARBO members, trainings and staff exchange should be continued.

3. Questions to RBO members

(1) Areas which your organization has improved the performance in 2009

- Operation and maintenance of water resources infrastructures;
- Water-related-businesses: clean water supply and electric power generation.

(2) The way in which your organization was able to do so

- Render professional water services using the in water service fee in an accountable manner, to ensure prime benefits of water resources management.
- Maintain and improve cooperation with other agencies especially the quasi-RBOs in the PJT-I working area (the Brantas and Bengawan Solo Public Utility type RBOs).

(3) In what way NARBO has helped your organization

NARBO has assisted our organization through training and twining programmes, as a basis to exchange and share information, knowledge as well as good practices.

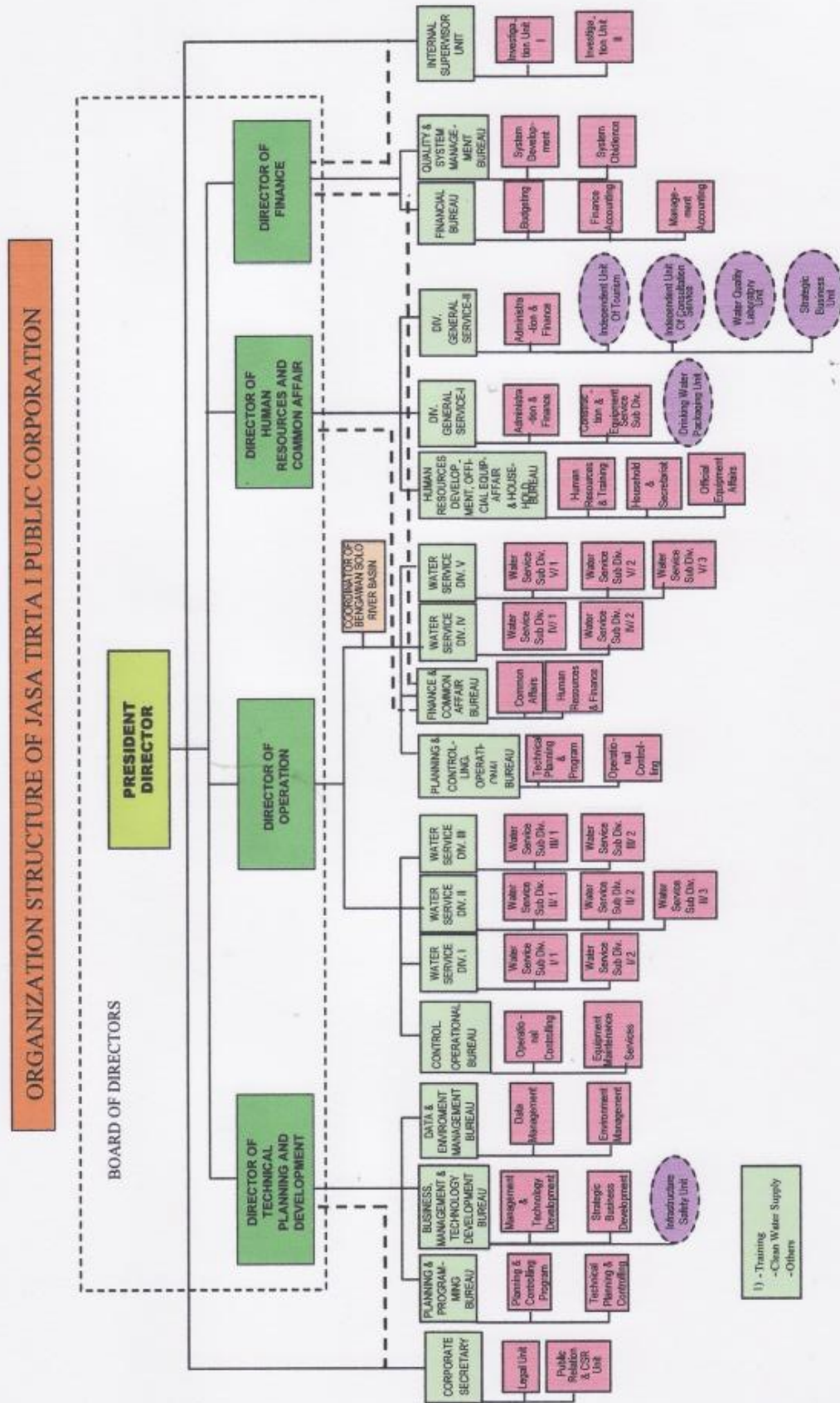
Malang, January 11, 2013

Editors,

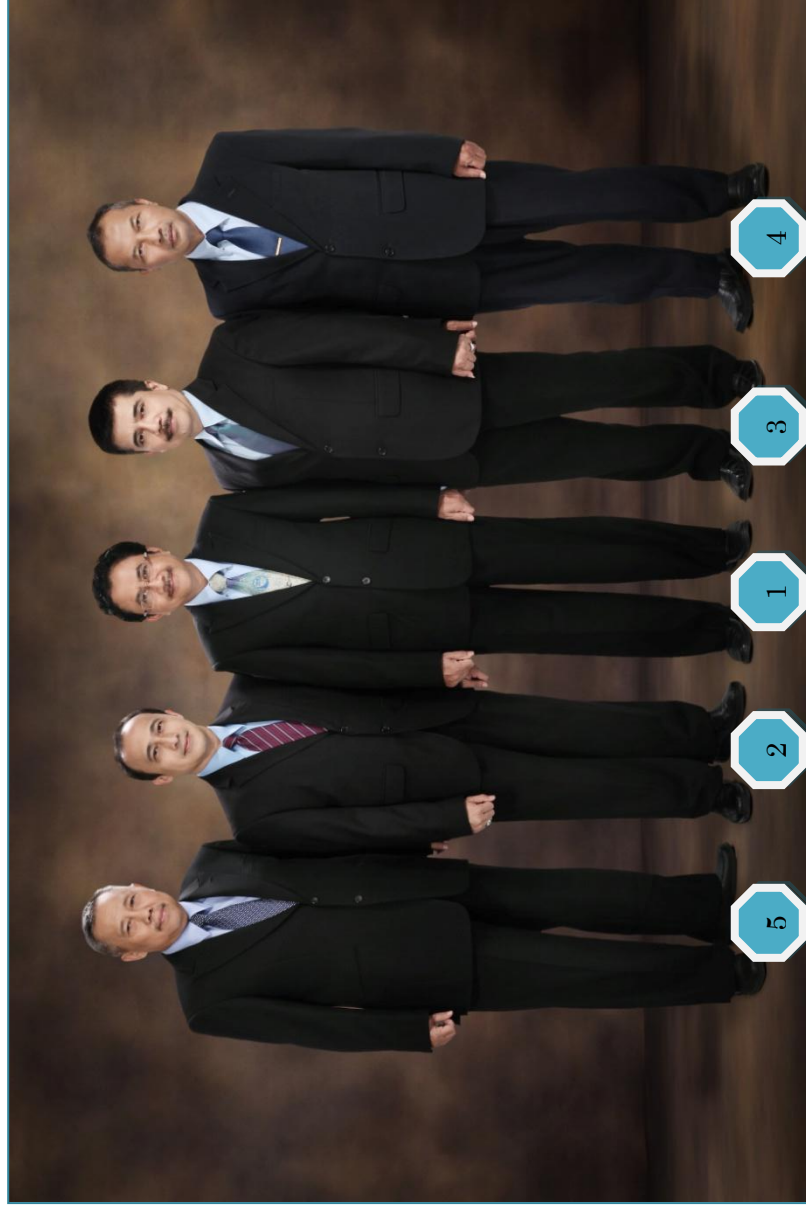
Hariato (President Director)

Raymond Valiant Ruritan (Director for Technical Affairs)

Jasa Tirta I Public Corporation
Organization Structure in 2010 - 2011



Board of Director Jasa Tirta I Public Corporation (2012-2017)



1. Harianto, President Director
2. Raymond Valiant Ruritan, Director for Technical Affairs
3. Alfian Rianto, Director for Development
4. Syamsul Bachri, Director of Operation
5. Didih Hernawan, Director of Administration and Finance

Member's Annual Report 2010-2011

Date of preparation: 29/12/2012

Name of the editor: Tomotaka HIGUCHI

1. About the organization

(1) Name of the organization and postal address of the office

Japan Water Agency

Land Axis Tower, 11-2 Shintoshin, Chuo-ku, Saitama City 330-6008, JAPAN

(2) The representative of the organization

Mr. Kenyu KOMURA, President

(3) Purposes and roles of your organization

a) Historical background of the organization

Water Resources Development Public Corporation (WARDEC) was established to meet rapid increase of water demand due to high level economic growth in 1962 and transformed into JWA in October 2003 by administrative reform.

b) Purposes and roles of the organization

JWA, based on the Basic Plan for Water Resources Development (Full Plan) for each of the seven river systems (Tone, Ara, Toyo, Kiso, Yodo, Yoshino and Chikugo River Systems) designated for water resources development, is constructing dams, estuary barrages, facilities for lake and marsh development, and canals. (Projects for increasing water supply are limited to those ongoing at the time of transition from WARDEC to JWA.) In addition, JWA is operating, managing and reconstructing completed facilities.

JWA activities range widely from securing water for domestic, industrial and agricultural use to controlling floods, and maintaining and improving normal functions of the river water (e.g. securing vested water and conserving the river environment). The matters related to personnel and financial accounting of JWA are placed under the supervision of the Minister of Land, Infrastructure and Transport. The Minister of Health, Labor and Welfare, Minister of Agriculture, Forestry and Fisheries, Minister of Economy, Trade and Industry of Minister of Land, Infrastructure and Transport are held responsible for project implementation according to the objective of the projects.

(4) Outline of the organization

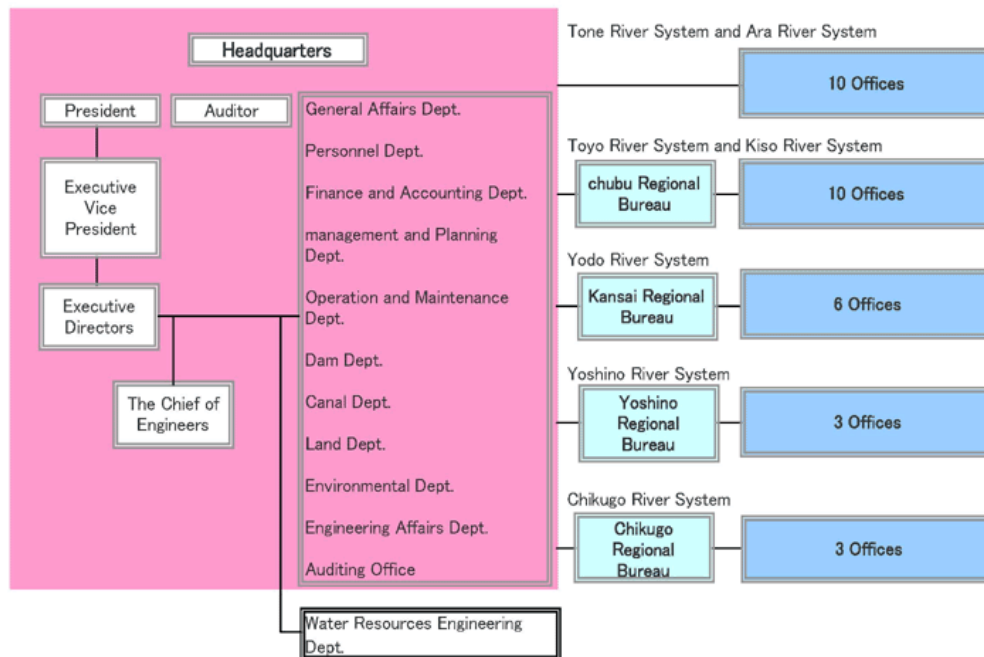
1) Number of staff

1,507(as of April 1, 2011)

2) Amount of the annual budget in 2011

202 bil. JPY

3) Organizational chart



4) Ongoing projects

JWA has completed 59 projects and still implement 11 projects in 7 major river systems

(5) Main events in 2010-2011

5 December 2011, The 28th JWA-K-water Technical Exchange Meeting

30 November 2011, Courtesy Call on the Vice President of JWA made by Investigation Team from Vietnamese Water-related Organizations

1 Oct 2011 New president of JWA was appointed

11 May 2010 Cooperation to Integrated Flood Management HelpDesk of World Meteorological Organization (WMO)

1 April 2010 Takizawa-dam was operated after the construction

2.About NARBO activity

(1) The contact person and organization's web-site

1) The name, position, phone & fax number, e-mail address of the contact person

Mr. Tomotaka HIGUCHI, staff member of international affairs division

+81-48-600-6553 (Phone) +81-48-600-6509 (Fax)

tomotaka_higuchi@water.go.jp

2) The organization's website URL (English and local language respectively)

English: <http://www.water.go.jp/honsya/honsya/english/top.html>

Japanese: <http://www.water.go.jp/>

(2) Activities your organization implemented in 2010-2011 as the member

The 6th World Water Forum 12 - 17 March, 2012, Marseille, France

GEO-UNESCO IWRM Joint Workshop, 12 - 16 January, 2012 Nairobi, Kenya

International Workshop on Water & History, 13 - 14 December, 2011, Tokyo, Japan

Twinning Program between Viet Nam NARBO and Japan Water Agency, 16-24 November, 2011, Japan

WEPA and NARBO Joint Session on Water Quality Management in River Basins with Integrated Water Resources Management, 21 September, 2011, Metro Manila, Philippines

IWRM Workshop at HELP Davao, 14 - 26 August, 2011, Davao, Philippines

International Seminar on Corporate River Basin Organizations in Asia, 22-24 June, 2011, Selorejo, Indonesia

1st NARBO IWRM Executive Retreat on Leadership in River Basins, 20-22 June, 2011, Malang, Indonesia

NARBO Management Team Meeting, 11-12 January, 2011, Malang, Indonesia

The 4th NARBO General Meeting, 8-12 November, 2010, Makassar, Indonesia

The 3rd Technical Advisory Committee, 12-Nov-2010, Singapore

NARBO Secretariat Meeting, 1-Jul-2010, Singapore

River Basin Study Visit, 24 - 28 May, 2010, Madrid and Zaragoza, Spain

(3) Resolutions and expectations for NARBO activities in 2012

1) Your organization's resolutions

Conducted Twinning Program, Organize and Co-organized some NARBO activities

2) Expectations of NARBO activities

Increase number of Twinning Program among NARBO Member

3. Questions to RBO members

(1) Areas which your organization has improved the performance in 2009

After the triple disaster which hit Japan 2011, JWA could conduct quick action on it.

(2) The way in which your organization was able to do so

JWA exchanged many topics such as leadership, preparing and mitigating for damages from disasters, and so on.

(3) In what way NARBO has helped your organization

Through exchanging knowledge and experiences

LAGUNA LAKE DEVELOPMENT AUTHORITY
Network of River Basin Organization

2010-2011 ANNUAL REPORT

1. About the organization

1.1 Name of the organization and postal address of the office

Laguna Lake Development Authority (LLDA)
4/F Annex Building, Sugar Regulatory Administration Compound, North Avenue, Diliman,
Quezon City, Philippines

1.2 The representatives of the organization

J. R. Nereus O. Acosta, Ph.D.
Secretary/Presidential Adviser on Environmental Protection and
General Manager, LLDA

Dolora N. Nepomuceno, CESO IV
Assistant General Manager, LLDA

1.3 Purposes and roles of your organization

The Laguna Lake Development Authority was created in 1966 by virtue of Republic Act No. 4850 (An Act creating the "Laguna Lake Development Authority, prescribing its powers, function and duties, providing funds thereof and for other purposes") and since 1975 through Presidential Decree No. 715 has been given the primary responsibility to promote the development and balanced growth of the Laguna de Bay Region, while providing for environmental management and control, preservation of the quality of life and ecological systems, and the prevention of undue ecological disturbance, deterioration and pollution.

Amendments to the LLDA original charter through Presidential Decree No. 813 in 1975 and Executive Order No. 927 on December 16, 1983 further strengthened its institutional, financial and administrative capabilities to implement not only its development but also its regulatory functions including control and abatement of pollution from point sources within the lake region. Specifically, Executive Order No. 927 on December 16, 1983 granted the Authority exclusive jurisdiction to issue permit for the use of all surface water for any project or activity in or affecting the said region including fisheries, irrigation, hydro-electric power, domestic water supply, transport and navigation and others. It also reclassified the LLDA among the industrial area development group (class A) of corporations and authorized the modification of its organization and creation of other offices.

Through Executive Order No. 149 issued in 1993, the LLDA was placed under the administrative supervision of the Department of Environment and Natural Resources (DENR).

The policy making body of the LLDA is its Board of Directors. It is a mixed body composed of representatives from the Office of the President, the Secretaries of Economic Planning, Environment and Natural Resources, Trade and Industry, as well as representatives from the Provincial Governments of Rizal and Laguna, Metro Manila Development Authority, League of Lakeshore Municipal Mayors, Private Sector and the General Manager of the LLDA as ex-officio member.

1.4 Outline of the organization

Number of staff: 2010 - 247 : 2011 - 263

Amount of the annual budget: Php 179.887 million (\$43.95 million) in 2010; Php300.605 million (\$300.605 million) in 2011

Organizational chart (please see Figure 1)

Ongoing projects

- **Environmental Management Program:** Within the Laguna de Bay basin, LLDA implements/enforces policies, rules and regulations under the Philippine Clean Water Act and its Charter (Republic Act 4850, as amended). Thus, it issues clearances and permits to various establishments and facilities covered by its rules and conducts compliance monitoring and inspections of point sources of pollution and adjudicates cases of violation of its rules and regulations, which may mature to closure of sources of pollution upon due process. For 2010 and 2011, 2,643 and 2,550 compliance monitoring/inspection activities, respectively, were conducted and 4,920 industries were surveyed to bring them into the “fold”. A total of 521 and 526 discharge permits were issued to compliant establishments for 2010 and 2011, respectively. LLDA also started implementing stiffer penalties for violation of environmental laws and regulations from Php1,000 to Php10,000 per day to compel compliance by establishments. In 2010 and 2011, some 432 and 421 cases, respectively, were added for which 926 and 924 public hearings were conducted in 2010 and 2011 respectively, thus total cases under adjudication reached 265 in 2010 and 164 in 2011.

Water and Sediment Quality Monitoring: The LLDA uses a number of parameters to assess accurately the impacts of development activities on the lake and river systems and their suitability for beneficial uses. These parameters include BOD, DO, phosphate, nitrate, chloride, transparency and net primary productivity, TCC and heavy metals. Monitoring and laboratory results indicate that the lake waters pass the different criteria for Class C waters by the Department of Environment and Natural Resources. For tributary rivers, out of the 25 river stations, 14 stations or 56% complied with the criterion particularly for BOD concentration, while all stations met the DO criterion in 2011. Four stations met the BOD and DO criterion in 2010, the rest failed in terms of BOD and DO at certain months in 2010.

- **Laguna de Bay Institutional Strengthening and Community Participation (LISCOP) Project:** Co-financed by the World Bank and the Netherlands Government, the Project aims to improve the overall lake environment through co-managed investments between the Local Government Units and River Councils and other stakeholders within the lake watershed and LLDA, and through strengthening of institutions and instruments and modernization of the LLDA. In 2010, LISCOP showed significant achievements

including 33 demand-driven environmental sub-projects implemented by 23 LGUs. These interventions show responsiveness to micro-watershed priorities notably in addressing environmental degradation, improving environmental quality and changing behavior to support environmental enhancement.

LISCOP Additional Financing: Prior to the closing of the successful Original Financing on April 12, 2011, the LLDA secured approval for a US\$10.0 million Additional Financing on January 8, 2011. It was one of the highlights of the message of His Excellency President Benigno Aquino III during the opening of the 15th Congress of the Philippines on July 26, 2011. In August 2011, LLDA secured the confirmation of 37 sub-projects of 31 LGUs pipelined within the 3-year implementation of LISCOP Additional Financing directed towards the goal of improving the environmental quality and sustainable management of resources in and around Laguna de Bay.

- Through LISCOP, LLDA has expanded its **Environmental User Fee System (EUFS)** in terms of pollutant parameters, industrial coverage, and improved regulatory compliance. **Upgrading of the Permitting, Monitoring and Enforcement System (PMES)**, introduction of online application and evaluation of permits, and promotion of paperless transaction and increased transparency. These have contributed to the efficient delivery of services to LLDA's clients/stakeholders.

1.5 Main events in 2010-2011

- The New LLDA Logo:



In 2011, the LLDA Board of Directors approved the adoption of the new LLDA Logo. The center image of the logo is the simplified map of the Laguna de Bay, and the logo used the abbreviated, more legible and recognizable name of the RBO being the premier institution that manages the Laguna de Bay Region. The green circular border signifies and holistic approach and integrated management of the basin by the RBO with the multifarious stakeholders to give back the life of the lake and its watershed.

- **Seal of Excellence:** LLDA was recognized as given the ***“Citizen’s Satisfaction Center Seal of Excellence Award”*** and cash prize. This award is under the auspices of the Civil Service Commission which conducts the performance evaluation through a Report Card Survey in relation to the Citizen’s Charter. The aim of the tool is to help in the improvement of delivery of specific frontline services. With the award, LLDA has proven its full compliance to the Anti-Red Tape Act of 2007.
- In February 2011, LLDA embarked on the updating of the 1995 Laguna de Bay Master Plan by the approval of the LLDA Board of Directors of the Master Plan Framework.
- **Laguna de Bay Ultra Marathon, 200-km. Relay Race:** Organized by LLDA in cooperation with various sectors, this event held on May 1-2, 2010 was the longest marathon relay in the Philippines, spanning five (5) provinces and portions of Metro Manila surrounding

Laguna de Bay. Proceeds from the registration and sponsorships benefited LLDA's Reforestation-Livelihood Project in Barangay Galalan, Pangil, Laguna aimed at protecting the watershed.

- **OPLAN Universe:** A special Task Force was launched in April 2011 tasked with the census of all industries within the Laguna de Bay Region to bring them within the coverage of its regulatory regime. The pilot areas were Quezon City and Muntinlupa City in the National Capital Region within the jurisdiction of the LLDA. Results delivered 587 new applications for LLDA Clearance, 1,371 for Discharge Permits and 234 Notices of Violations.
- **Public Disclosure Program (PDP):** LLDA held its 5th Public Disclosure for Industries Event on December 14, 2010. Dubbed as "Lakan ng Lawa" Awards, LLDA recognized 135 Blue Awardees for compliance with the basic requirements, 28 Green Awardees for compliance better than the basic and one (1) Silver Awardee for performance beyond set standards, all based on rating of 2009 industrial environmental compliance of 215 establishments, thus showing positive results in terms of environmental compliance, motivated non-compliant firms to comply with standards and other regulatory requirements.

PDP for LGUs: All 59 cities and municipalities were covered in the performance rating for the disclosure of LGUs environmental performance in 2010. 66% (30) of LGUs were rated fair to good, while 40% of LGUs improved their waste management through closure of open dumpsites and establishment of 18 material recovery facilities (MRFs) and sanitary landfill systems with financing assistance from the World Bank through LLDA's LISCOP Project.

- **Lake Seeding:** President Benigno S. Aquino III led the seeding of tilapia and big head carp fingerlings in the Laguna de Bay Fish Sanctuary on May 24, 2011. With the theme "Bringing back the Lake's Bountiful Harvest", the event aimed to revitalize the lake's fishery resources through lake seeding to help the plight of small fishermen in the lake region. This together with other succeeding lake seeding activities raised a total of 600,000 fingerlings dispersed, with a target of one million fingerlings for the entire program.
- **Ban on the Use of Single-Use, Carry-Out and Non-Biodegradable Plastic Bags in all Cities and Municipalities within the Laguna de Bay Basin:** After the damages inflicted by Typhoon "Ondoy" (international code name "Ketsana") in September 2010, it was found out that 90% of materials which obstructed waterways and clogged storm drains were plastics. On March 24, 2011, The LLDA Board of Directors through Resolution No. 2011-406 directed all LGUs in the lake basin "...to pass and implement an Ordinance Banning the Use and Distribution of Thin Film, Single Use, Carry-Out, Non-Biodegradable Plastic Bags"
- **Greening Program:** As part of the National Greening Program, Secretary Neric Acosta, LLDA General Manager, led hundreds of LLDA employees and local community members in tree planting activities in Tayak Hills, Rizal, Province of Laguna and in Binayoyo, Antipolo City, to help rehabilitate the Laguna de Bay watershed. Secretary Acosta cited

the importance of the watershed or basin as a natural water reservoir, in the protection and preservation of the lake, preventing floods and securing water and food for future generations. To sustain its greening program, the LLDA propagates seedlings for distribution to various LGUs, partner institutions and private individuals for planting and dispersal. For 2011, around 160,000 seedlings were produced and distributed.

- **Integrated Watershed Management Program (IWMP)-Designation of 24 sub-watersheds of the Laguna de Bay Basin:** In line with the Philippine Clean Water Act, LLDA started to do the ground work to operationalized the officially designated 24 sub-Water Quality Management Areas (WQMAs) in the lake basin under the approved the implementation of the IWMP. The Silang-Santa Rosa Sub-watershed is the pilot sub-WQMA.
- **Adopt-A-River Project:** LLDA signed Memoranda of Understanding with the following: Tanduary, J and H Inc. and with Municipality of Teresa, Rizal together with seven corporations within Teresa, Rizal. — industry giants signed Memoranda of Understanding with LLDA under the LLDA Adopt-A-River Project. This initiative involves river assessment and segmentation, community profiling, information drives and motivation campaigns, establishment of eco-parks and water purification facilities. The adoptive party, in coordination with the River Council and LLDA, undertakes River Conservation Advocacy to generate active participation from various sectors within the area.

2. About NARBO activity

The name, position, phone & fax number, e-mail address of the contact person.

J. R. Nereus O.Acosta, Ph.D.

Secretary/Presidential Adviser on Environmental Protection

General Manager, LLDA

Telephone : (632) 3771922, (632) 379-2721

Email : lldaogm@llda.gov.ph

Dolora N. Nepomuceno, CESO IV

Assistant General Manager

Telephone : Landline (632) 482-2164; Mobile phone: +63908885353

Email : dollynepomuceno@yahoo.com

The organization's web-site URL (English and local language respectively)

www.llda.gov.ph

2.1 Activities your organization implemented in 2010-2011 as the member

2010

- Two (2) officers from the LLDA namely Atty. Eduardo L. Torres and Engr. Emitterio Hernandez, participated in the 4th NARBO General Meeting in

Makassar, South Sulawesi, Indonesia on November 8-12, 2010. They also attended the IWRM workshops (Leadership in IWRM, Climate Change Projection and Adaptive Management in IWRM, Water Quality for IWRM in River Basins); and the General Meeting itself during which the body reviewed the 2008-2009 NARBO Accomplishments and approved the Action Program for 2010-2012.

- LLDA actively participated in the 2010-2012 NARBO Constitutional Body/expanded Management Team composed of Chairperson, Vice-Chairpersons, Senior Advisers, Secretary General and Vice-Secretary Generals. Ms. Dolora N. Nepomuceno, Assistant General Manager of the LLDA, was installed as its Vice-Chairperson for the Philippines during the 4th General Meeting of the Network held on November 8-9, 2010 in Makassar, South Sulawesi, Indonesia. In her acceptance speech which she delivered through skype from Kyoto, Japan where she had an official mission, she extolled *NARBO's significant progress for the past six years in implementing IWRM. Due to the rapidly expanding membership, mounting challenges of even greater scale and proportions due to climate change impacts on water resources development and management, advances in capacity and effectiveness among RBOs in Asia have to be widespread and NARBO is seen as a strong and influential Network to bring and upscale IWRM to new heights to better meet the challenges of water security, and mitigate and adapt to the impacts of climate change in river basins.* In this she spoke of the pivotal role of the NARBO Management Team in making the Network as she accepted the roles/responsibilities as Vice-Chairperson for the Philippines.
- Three (3) LLDA staff participated in the On-Line Course on River Basin Management for Asian Region, a CEDDET Foundation e-Learning Program on Integrated Water Resources Management.

2011

- Participated in the 1st NARBO Management Team Meeting (MTM) on January 11-13, 2011 at the head office of Jasa Tirta I Public Corporation (the River Basin Organization for the Brantas River) in Jalan Surubaya, Malang, Indonesia. This meeting led to the articulation of the Network's set of values, standards and operating procedures, as well as the new strategic directions and way forward in expanding performance and developing leadership in IWRM and improving networking and Secretariat.
- Participated in the 1st NARBO IWRM Executive Retreat on Leadership in River Basins on June 20-22, 2011 in Malang, Indonesia; through sharing a Water Leadership Case Study Paper entitled "Financing IWRM: The Case of the Laguna de Bay Basin". This paper authored by AGM Nepomuceno dwelled on How a determined leadership leveraged RBO's mandate/functions to meet the challenges in financing IWRM to promote sustainable use of water resources by encouraging and building capacity of LGUs, River Councils and communities to actively participate in the management and protection of the Laguna de Bay Basin, and funding LGU environmental sub-projects to contribute to environmental improvement of the lake basin through the LISCOP Project which

the RBO Leader initiated and manages. This paper was shared with the water executives during the Retreat to explore keys for success and twinning partnerships.

- The first-ever NARBO International Seminar on Corporate River Basin Organizations in Asia, held on 22-24 June 2011 in Malang, Indonesia was participated in by LLDA through Ms. Catherine (Reena) Buena. She shared LLDA's experience as a corporate RBO and the benefits of "active community participation in all aspects of project planning and implementation..." and the importance of local government commitment in IWRM.
- In late 2011, LLDA confirmed its interest to take part in and made initial preparations to participate in NARBO's piloting of the Water Security Assessment (WSA) indices¹ and to estimate basin capitals in selected river basins in Asia and to showcase the results during the 2nd Asia Pacific Water Summit in May 2012. Laguna de Bay Basin for Water Security Assessment in Asia-Pacific Region. NARBO/ADB approached LLDA to include Laguna de Bay Basin in the pilot exercise. This collaboration with ADB and APWF is expected to increase the capacity of the LLDA in measuring and managing water security and opportunity to showcase our leadership among the Asia-Pacific Region.

Specifically, LLDA undertook the following preparatory steps:

- i. Creation through a Memorandum Order of a LLDA Technical Working Group to work with ADB's Mr. Koichi Takano, Water Resources Management Specialist and partly joined by Mr. Dennis Custodio, IWRM Specialist and Mr. Narciso Prudente, Research Analyst;
- ii. Planning for data retrieval and collection from within the LLDA and, if the data/information being requested are not available within LLDA, the latter shall identify which among the national/regional agencies/organizations may be accessed for these data/information.
- iii. Initial discussions with the above-named specialists from ADB on the working arrangements for the pilot WSA exercise, to be implemented in 2012.

2.2 Resolutions and expectations for NARBO activities in 2011-2012

LLDA resolves to cooperate and support all the activities of NARBO in relation to integrated water resources management and development, and if authorized by partnership

¹ The Asian Development Bank (ADB) and the Asia-Pacific Water Forum (APWF) engaged the Asian Water Development Outlook (AWDO 2011) to provide a comprehensive quantitative and analytical view of the current state of water security achieved by the countries of the Asia-Pacific Region and to guide investments, hand in hand, with improved governance to increase water security in the future through a set of indexes.

procedures, actively participate in the NARBO Management Team in whatever capacity that may be tasked

LLDA expects the NARBO to continue with the activities it started to support capacity building efforts of river basin organizations (through training, workshops, etc.). In particular, LLDA would appreciate more participants in the planned IWRM seminar-training and in various workshops/conferences on RBOs and IWRM. Further, it is desired that seminars, study visits and twinning partnerships on water pricing, water resources accounting and economic valuation, technological applications on IWRM, assessment and addressing water-related climate change impacts, among others.

LLDA hopes to stimulate cooperation through mutually reinforcing twinning programs and help countries like the Philippines, learn more about the experiences of neighboring countries in the management of water resources, and on the other hand, help in capacity building of other RBOs on IWRM aspects wherein LLDA has experiences and developed capacities.

3. Questions to RBO members (Please refer to Annex for details)

3.1 Key Areas which your organization has improved the performance in 2010-2011

- Implementation of the Environmental User Fee System
- Surface water allocation and water rights issuance including pricing of abstracted water from Laguna de Bay
- Community/stakeholders' participation
- Co-Management of Environmental and Water Resources with Local Government Units within the lake basin
- Environmental regulation and enforcement
- Development and implementation of Decision Support System anchored on IWRM principles

3.2 The way in which your organization was able to do so

Recognizing its legal mandate and functions pertaining to allocation and pricing of raw water from Laguna de Bay and other water bodies in the basin,

3.3 In what way NARBO has helped your organization

The participation of the LLDA in various workshops and other water-related activities of NARBO has greatly help the LLDA in addressing various issues and in implementing the IWRM concepts and principles in the management of Laguna de Bay basin.

The outcome of the participation of the LLDA staff in the previous series of NARBO Thematic Workshops on Water Allocation and Water Rights was a draft action plan that has become the basis to jumpstart the processing of surface water permitting system in Laguna de Bay, and with LLDA Board Resolution No 2007-338 expanding the EUFS to cover abstraction of raw water from the lake and its tributaries using a water resource fee scheme for different types of users/uses,

Annex to Nos. 3 and 4

Knowledge Networking, Capacity Development and Partnership through NARBO

The NARBO provides LLDA an important platform for knowledge networking, capacity building and partnership with counterparts and experts in Asia and beyond for a challenged River Basin Organization like the LLDA. Therefore, it is envisaged that the sharing of information, knowledge, experience and lessons learned would be in the following key areas:

Performance Benchmarking of RBOs - how does LLDA fair across similarly situated RBOs in Asia and the rest of the world? Areas for improvement/ capacity building needs:

- Benchmarking for RBO performance (international, regional, country, RBO levels)
- Proficiency certification for IWRM leadership
- Modalities for country assessments
- Toolkits for performance assessments

Roadmaps for IWRM Investments and financing mechanisms to address domestic wastewater pollution

Way forward/road map for IWRM investment planning and decision making given multiplicity of key actors in a given watershed

- Accessing fund sources for IWRM given the low borrowing and absorptive capacities

Disaster risk reduction management in the context of river basin, e.g., IT, GIS/Remote sensing technologies/applications; risk assessment , designing of DRRM, climate change adaptation strategies, etc.

IWRM Processes

- Sharing of country/RBO experiences on IWRM processes
- Template/protocols for IWRM planning & implementation

In addition, Laguna de Bay basin may be a venue for study visits, training laboratory and case studies on aforementioned tools, strategies and approaches for IWRM. Aside from IWRM seminars, workshops and training, LLDA could also participate in exchange visits or staff

exchange program (such as on-the-job training) that may be organized by NARBO and/or its affiliated organizations, e.g., on implementation of the Environmental User Fee System for RBOs intending to introduce or are about to implement their own pollution charge system.

Finally, being the only institutionalized RBO in the Philippines with a legislated Charter and existing for 40 years, LLDA's can contribute the following to NARBO and its members and to RBO counterparts: as a center of excellence on implementation of the "Environmental User Fee System"; one of the best practices on watershed co-management showcasing LLDA's approaches for financing IWRM activities; applications of the GIS-based state-of-the-art modeling tools; and Lake Environmental Action Planning (micro-watershed based, demand driven and participative process for ecological assessment, identification and prioritization of problems, issues and measures/ interventions leading towards co-implementation of environmental improvement projects with local government investment and multi-sectoral support).

NARBO Water Leaders Program

In relation to the First NARBO Management Team Meeting in Malang, Indonesia, the LLDA may participate in the succeeding NARBO Water Leaders Program for IWRM for the following levels:

- basic entry (IWRM advocate)
- Middle management (IWRM facilitator)
- Senior RBO management (IWRM leader)

and hopefully,

- Regional IWRM adviser (IWRM master or counselor)

Possible criteria are accomplishments in moving up the IWRM spiral, evidence regarding outcomes in terms of social, natural and economic capitals, and other criteria to be developed later.

8. Nurturing and Expanding Water Leadership in Asia and Beyond

As an on-line teacher of the course River Basin Management for the Asian Region of CEDDET Foundation in collaboration with the Confederation Hidrográfica del Ebro (Ebro's River Basin Authority) and the Spanish Ministry of Environment, the RBO Leader can bring the experience of the Laguna Lake Development Authority to counterpart RBOs in Asia and beyond.² It is believed that the participation of the Laguna Lake Development Authority will contribute significantly to the empowerment of other Asian RBOs on effective water resources governance. This collaboration would help expand boundaries (between organizations working in their respective

² As a result of the River Basin Study Visit in Spain in May 2010 and due to the interest manifested by NARBO and its members on the Spanish experience in river basin management, the CEDDET Foundation negotiated with the Asian Development Bank Institute to start an on-line course on River Basin Management for the Asian Region. As a pilot stage, CEDDET has decided to start the program by itself and open the opportunity to ADBI in the second edition. For the pilot run, CEDDET in collaboration with the Confederation Hidrográfica del Ebro (Ebro's River Basin Authority) and the Spanish Ministry of Environment invited the LLDA to partner with the former to collaborate in the on-line course given its experience as an RBO.

river basins; between sectors and fields of expertise and disciplines, considering that river basin management is science-based, cutting across various fields/disciplines; span administrative jurisdictions; between people across nations with different opinions, beliefs and mindsets.

Involvement in the AECEN Task Force on Environmental Compliance Assistance Centers,³ the LLDA has collaborated in the promotion of regional replication of environmental compliance assistance centers in Asia building on lessons learned from India, Philippines, Thailand, the United States and other countries. The ECAC Task Force will guide development of tools, and capture and disseminate best practices and information to enable other AECEN members to establish and operate ECACs.

The CAC is an innovative way of eliciting compliance by regulated sectors/establishments to environmental laws, regulations and standards through a system of activities, tools and technical assistance which provide clear and consistent information to the regulated sectors to enable them to initiate continuing improvements in their operations, congruent with good production practices and environment-friendly solutions. In effect, the operation of CACs is compliance promotion even as environmental regulation and enforcement continue.

Since its early beginnings in 2007, the LLDA has championed the CAC initiative in the Philippines, and later its strengthening/enhancement, merited the technical support through a grant from the USAID/ECO-ASIA and AECEN. The LLDA/Philippines' pilot Compliance Assistance Centers (CAC) for Hog/Poultry Farms and Slaughterhouses in the Laguna de Bay Region including its two dedicated websites launched in April 2008. The two CACs are managed by local industry associations representing two sectors (hog raising and slaughterhouse operations). As CAC hosts, they participate in analyzing problems in compliance and how to improve compliance; change in mindset and behavior among LLDA enforcement staff - that the industries also need assistance in compliance rather than simply enforcing regulations; increasing levels of trust between the LLDA staff and the regulated establishments; the grant assistance has provided LLDA new opportunities for industry dialogue.

The LLDA has assumed a leadership role in operationalizing the expanded NARBO work now and in the coming years within and outside the RBO. Thus, LLDA is committed to promote IWRM and improve water governance in the Laguna de Bay Basin, and through training and the exchange of information and experience with other RBOs and their associated water sector agencies and knowledge partner organizations in Asia.

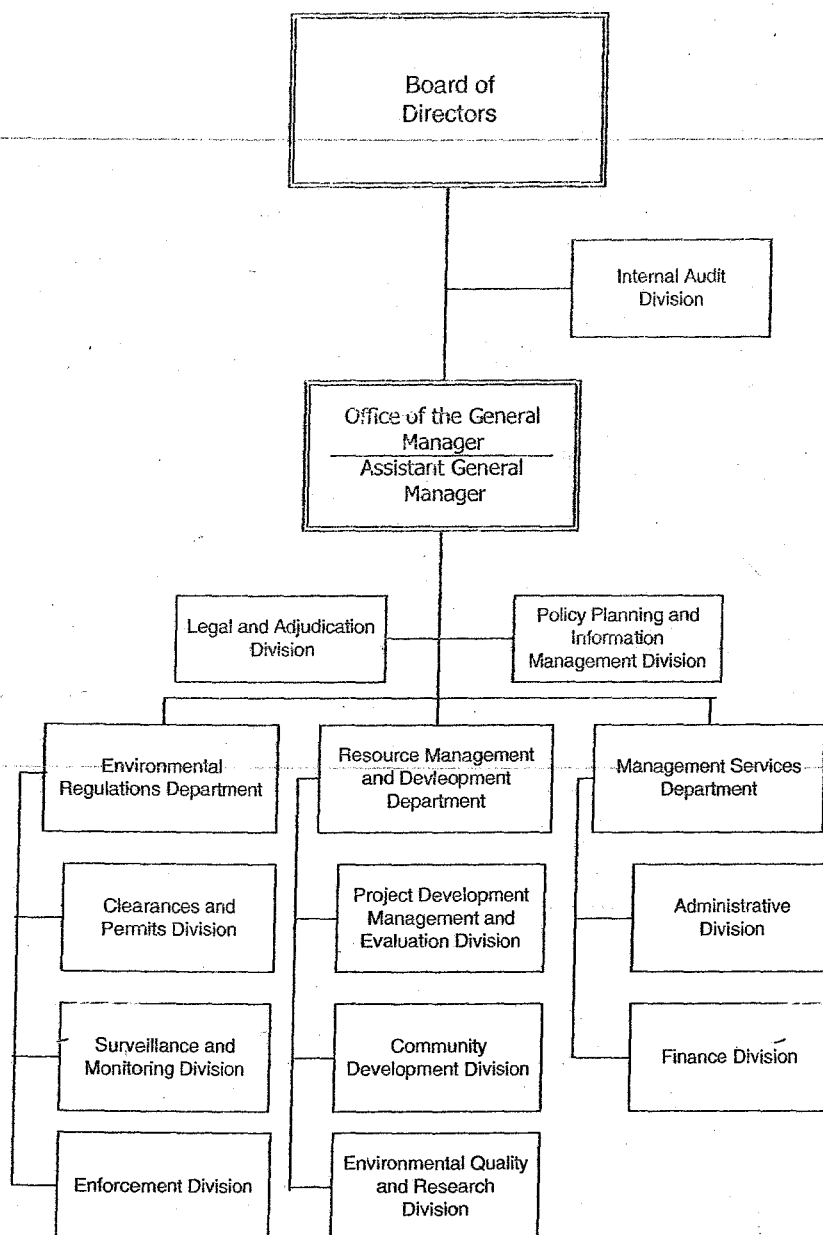
³ Building on on-going efforts to establish and replicate environmental compliance assistance centers, on October 27, 2010, AECEN member representatives from India, Philippines and Thailand established a Task Force under the auspices of AECEN at the Regional Consultation Meeting, conducted in Kolkata, India.

LAGUNA LAKE DEVELOPMENT AUTHORITY

ORGANIZATIONAL STRUCTURE

As Rationalized

2010



Approved :

JOAQUIN C. LAGONERA
Secretary

Red-Thai Binh RBO's Annual Report 2010-2011

Date of preparation: 07/12 /2012

Name of the editor: RRBO office

1. About the organization

(1) Name of the organization and postal address of the office

Red – Thai Binh River Basin Organization (RRBO)

162A Tran Quang Khai street – Hoan Kiem District – Hanoi Capital, Vietnam.

(2) The representative of the organization

<Please write the name and position of the representative>

Dr. Bui Nam Sach – Director of Water Resources Planning Institute

Head of the RRBO Office

(3) Purposes and roles of your organization

a) Historical background of the organization

The Red River Basin Organization (RRBO) is a non-profit body under the Ministry of Agriculture and Rural Development of Viet Nam.

The RRBO was established on April 9, 2001 according to the Decision No. 39/2001 by the Minister of Agriculture and Rural Development of Vietnam to implement river basin planning management in the river basin pursuant to Article 64 of the Law on Water Resources.

The RRBO officially put into operation since April 2004 when the Regulations on Organization and Operation was issued. Dr. Pham Hong Giang, former Vice Minister of Agriculture and Rural Development was the first Chairman of the RRBO. Year period 2010-2011, Prof. Dr. Dao Xuan Hoc, Vice Minister of Agriculture and Rural Development is chairman until March 2012, he has transferred.

Office of the RRBO is located at the Institute of Water Resources Planning (IWRP) at 162A Tran Quang Khai Street, Hanoi, Vietnam. Dr. Bui Nam Sach - Director of IWRP is also Head of the Office.

There are 2 sub-RBOs under the RRBO: Day Sub-RBO and Cau Sub-RBO. Day Sub-RBO (with 6 member provinces) was formed on December 1, 2005, in accordance with Decision 3365/QD-BNN/TCCB signed by Minister of Agriculture and Rural Development. Cau Sub-RBO (with 7 member provinces) was formed on May 11, 2006, in accordance with Decision 1363/QD-BNN/TCCB signed by Vice Minister of Agriculture and Rural Development.

b) Purposes and roles of the organization

RRBO was set up to implement water resources planning management in Red-Thai Binh river basin in conformity with Article 64 of the Law on Water Resources. Its tasks are to:

- Prepare and submit for approval the Red – Thai Binh River Basin Plan and monitor its implementation to ensure consistent management of the river basin plan with the administrative boundary;*
- Coordinate with relevant Ministerial, sectoral and local agencies in baseline water resources investigation, inventory preparation and assessment of the Red – Thai Binh and in preparing, submitting for approval, and monitoring the implementation of river basin plans for tributaries of the Red – Thai Binh system;*
- Propose resolution for water resources disputes in the Red–Thai Binh River Basin.*

(4) Outline of the organization

RRBO comprises about 50 members, including:

- Chairman: Vice Minister of Agriculture and Rural Development*
- Vice Chairman: Mr. Vu Van Thang, Director of Water Resources Department (MARD) and a Director of the Department of Water Resources Management of Ministry of Natural Resources and Environment (MONRE)*
- and 46 regular members from related Ministry and Provinces.*

Members are directors of relevant Departments under MARD, directors of provincial Departments of Agriculture and Rural Development (DARDs) in the Red-Thai Binh river basin, and directors of relevant departments of ministries of Natural Resources and Environment, Industries, Fishery, Construction, Transport, Health, National Defense, and General Services of Hydro-meteorology.

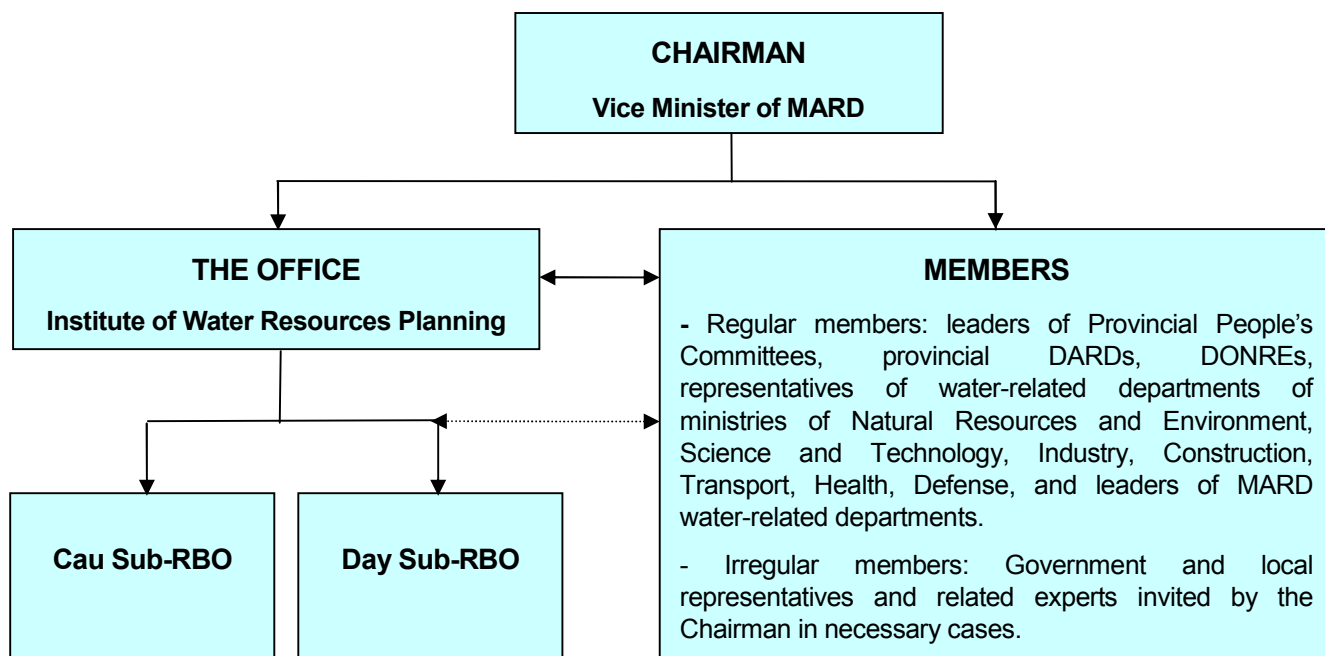
At the RRBO Office, there are 10 officers of IWRP working part-time to run daily operation.

1) Amount of the annual budget in 2011

Funds for operation of RRBO Office are provided from the State budget upon approval by the Ministry of Agriculture and Rural Development (MARD). In 2011, total operation funds provided to the RRBO were VND 800 million (including VND 517,314 million for the RRBO Office, VND 122,843 million for Day Sub-RBO; VND 103,592 million for Cau Sub-RBO). The funds were just for regular operation of the Office. Funds to implement planning projects are from various sources including central budget, provincial budget, and others.

2) Organizational chart

<Please attach the organization chart here>



3) Ongoing projects

<Please write about the ongoing projects>

- *Continue implementation and completion of the plan by the Ministry of Agriculture and Rural Development and the General Department of Water Resources Office:*

+ *Irrigation Master Plan Red – Thai Binh river in condition of climate change - rising sea levels;*

+ *Review of water resources planning for capital region;*

+ *Review for flood planning in Day River basin;*

+ *Water resources planning for Lo Gam river and Water resources planning for some local such: Son La, Bac Ninh, HaNoi, Thai Nguyen, Hoa Binh, Hung Yen, Lang Son, Cao Bang, Bac Kan, Yen Bai, ...*

+ *Evaluation Project "Water planning for Northern midland and mountainous".*

+ *Writing draft for investment in irrigation works of the local watershed to make document advising of the Ministry of Agriculture.*

(5) Main events in 2010-2011

<Please write about the main events which were held in 2010-2011 which your organization involved in>

- *Organized three field trips in the basin, namely Tuyen Quang, Ha Giang, Cao Bang, Bac Kan, Lang Son, Ninh Binh, Nam Dinh, Ha Nam, Thai Nguyen... as a regular activity to member provinces to grasp information on water resources management serving economic development, constraints in water resources river management, water-related disasters, investment portfolio in hydraulic works in 2011 and further of the provinces.*
- *Coordination with Water Resources Department and Department for Dike Management and Flood Control (MARD) in flood control activities (regular duty during June 15 - September 15 for flood forecast)*
- *Leading and coordination with the two Sub-RBOs in making water resources management plans at sub-basin level.*
- *Gathering comments of members on functions and responsibilities of the RRBO.*
- *Issuing quarterly newsletters (issues No. 30, 31, 32, 33) to inform activities of the RRBO as well as new relevant water-related regulations and provisions, and NARBO activities;*
- *Keeping the RRBO website updated to provide relevant information and facilitate information exchange among members and provinces;*

2.About NARBO activity

(1) The contact person and organization's web-site

1) The name, position, phone & fax number, e-mail address of the contact person

Mr. Nguyen Van Tuan or Ms. Pham Thanh Tu

Division for Science and Technology

Institute of Water Resources Planning - RRBO Office

Tel: 84-4-3 826 1767

Fax: 84-4-3 825 2807

E-mail: tuankyushu@yahoo.com or tu_iwrrp@yahoo.com

2) The organization's website URL (English and local language respectively)

www.rbo.org.vn (for both English and Vietnamese)

(2) Activities your organization implemented in 2010-2011 as the member

(3) Resolutions and expectations for NARBO activities in 2012

<Please refer to NARBO Action Plan 20010-2012 in the website>

1) Your organization's resolutions

<Please write about your resolutions or how your organization contribute to NARBO activities as the member>

RRBO has maintaining and will maintain a regular and close cooperation with NARBO and active participation in NARBO activities, for instance:

- Participating in NARBO activities,*
- Holding NARBO activities in collaboration with NARBO Secretariat*
- Providing resource persons for NARBO thematic workshops.*

2) Expectations of NARBO activities

<Please write about what your organization expects of NARBO activities>

- More intensive experience exchanges through study tours on river basin management for RBOs to learn experiences from other members, especially from Japan, China, Thailand,*
- Advanced training course on river IWRM and related topics for the RRBO Office and its members. Community development, analytical skills and management skills are also very important for successful IWRM.*
- Staff exchange among RBOs to stimulate experience exchanges and strengthen cooperation.*
- Capacity building for the RRBO in particular and for new RBOs in general in the field of water resources management and allocation as well as water legislations*

3. Questions to RBO members

(1) Areas which your organization has improved the performance in 2012

Participation

(2) The way in which your organization was able to do so

There is a principle set for member provinces and organizations to have voice in preparation, planning, design, and implementation of water-related project in the basin. Every project using budget funds must be agreed by stakeholders before it is invested in. Moreover, at the general meetings more times are reserved for open

discussions and questions and answers during which various issues and concerns are shared and addressed.

(3) In what way NARBO has helped your organization

Being selected as one of the RBOs for piloting the performance benchmarking tool is really helpful for RRBO to recognize its strengths and weaknesses and from that RRBO knows and plans what to do next for better performance.

Information of and opportunities to participate in NARBO activities can keep the RRBO updated with progress on IWRM in the Asia and experiences and lessons from other RBOs.

NARBO communication systems (including website, newsletter, notice, etc) is a good example for RRBO to learn and improve its own.

Member's Annual Report 2010-2011

Date of preparation: 12 / 03 /2012

Name of the editor: DOST-Secretariat

1. About the organization

Davao City HELP (Hydrology for Environment, Life and Policy) Philippines Network Inc.

Department of Science and Technology XI
Corner Friendship, Dumanlas Road, Bajada
Davao City
Philippines 8000

2. Representative of the Organization

Dr. Anthony C. Sales

DOST XI – Regional Director
HELP – Secretariat, Management Committee

3. Purposes and Roles of your Organization

a) Historical background of the organization

Formed in 2004, our efforts have focused on ensuring key stakeholders have access to sound science that can be used to better inform complex decisions and hard choices in relation to the management and wise use of water . We believe this can be achieved by enabling dialogue on existing processes, systems and services for water management.

All of our activities are delivered in collaboration with government, academe, civil society and communities and in many cases through voluntary approaches.

b) Purposes and roles of the organization

The HELP Davao Network aims to:

- a.) To conduct surveys and baseline studies in the watershed areas and institutionalize hydrologic data on all watersheds;
- b.) To establish data banks on information from hydrologic baseline studies conducted;
- c.) To promote innovative ideas on science-based information on water and watershed conservation and protection;
- d.) To facilitate attendance of water and watershed protection and advocacy groups in local

and foreign trainings, conferences, cross-visits and the like to enhance capability on water and watershed management;

- e.) To develop a model on water and watershed conservation and protection for replication by other watershed management bodies.

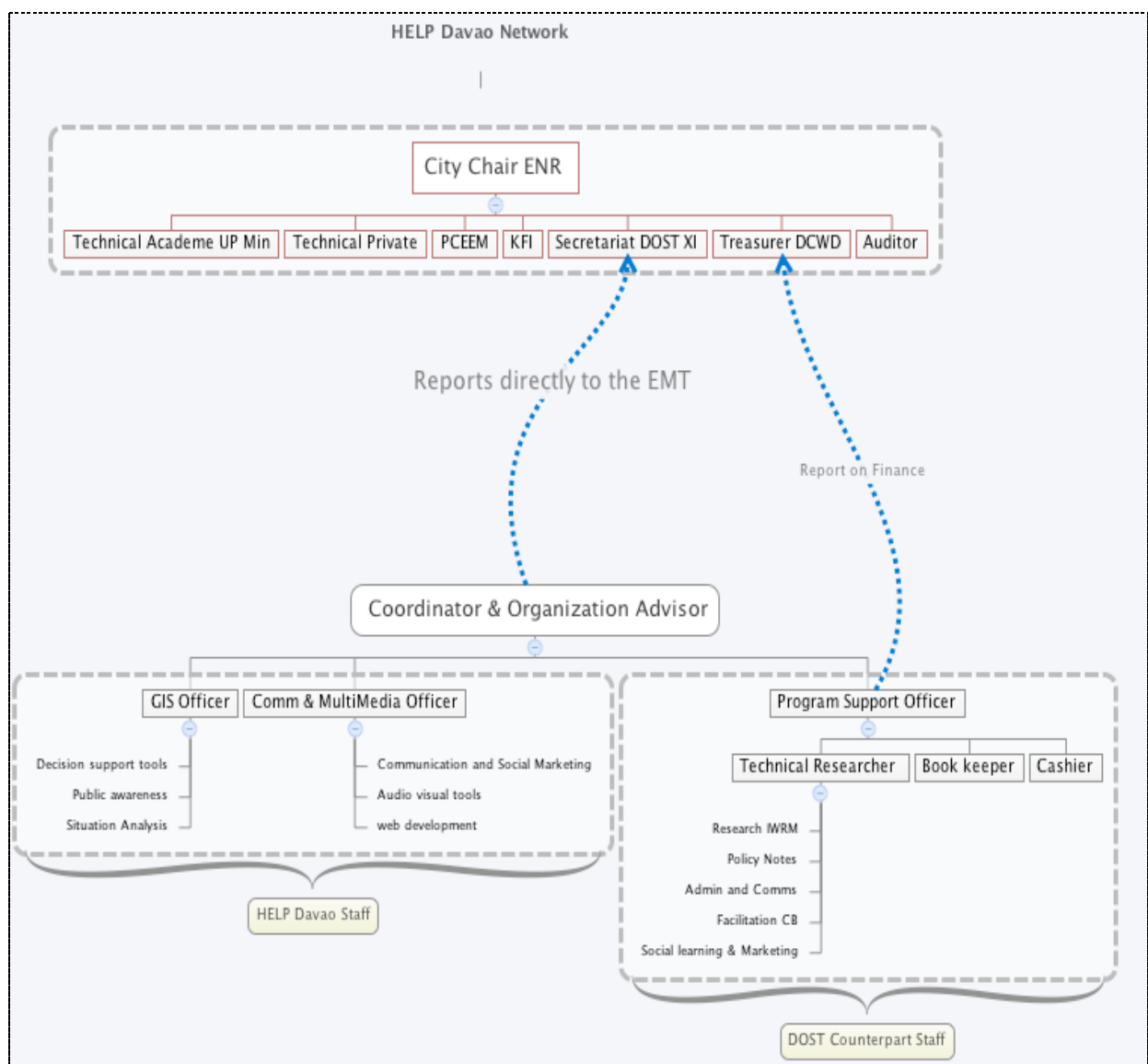
4. Outline of the organization

1) Number of staff: 3

2) Amount of the annual budget in 2011

PhP 5000.00

3) HELP Davao Network Organizational Structure



4) Ongoing projects

A collaboration of HELP Davao Network, Philippines and Rotterdam University of Applied Sciences through Mr. Rick Heikoop. Interns in the person of Mr. Vincent Oskam and Mr. Sean Ligtvoet, are now pursuing studies for water balance in Davao City, specifically working on flood risk reduction in urban areas using urban development and spatial planning. As part of the internship they are expected to develop an economical water treatment design for the region and a science-based tool hydrologic model.

5. Main events in 2011

August 2011

Davao International Water Symposium - *A 3 day event, including public launching of first IWRM Training Manual high level discussions with key water leaders, International training symposium with invited speakers from UNESCO, NARBO, and UNICEF.*

July 2011

Community Led Total Sanitation Program in Upland Communities: *In partnership with an NGO- Catholic Relief Services, civil society - Kinaiyahan Foundation Inc., London School of Hygiene and Tropical Medicine students, marginal upland of indigenous people communities in Davao and Bukidnon were considered for a study on water and health issues.*

June 2011

Technical Write Shop : *First review of the draft customised IWRM Training Manual for Davao City and Region.*

March 2011

Outlining a road map for action on water - *An Action planning workshop for the blue environment.*

May 2011

Validating the IWRM Manual - *A local training workshop to validate modules and case studies.*

About NARBO activity

- 1) The name, position, phone & fax number, e-mail address of the contact person

Declan Hearne

Project Coordinator

HELP Davao Network

dhearne76@gmail.com

- 2) The organization's website URL (English and local language respectively)

<http://helpdavao.blogspot.com/>

- 3) Activities your **organization implemented in 2010-2011** as the member

Through the technical Writeshop , the ff: **objectives** were attained:

1. Stakeholders are oriented on the content of the draft IWRM Manual;
2. Participatory review of the 12 key learning modules for the IWRM Manual;
3. Stakeholders have given constructive feedback on the structure, content, flow and effectiveness of the modules and the learning activities in the draft manual.

- 4) **Resolutions and expectations** for NARBO activities in 2012

HELP Davao Network's contribution to NARBO activities:

a) Advocacy, Raising Awareness and Exchange of Information and Good Practice of IWRM

- a. Develop, maintain and update the HELP Davao Network website on a regular basis;
- b. Conduct of study tour around Davao River basin, general meeting among members and International Symposium on Water Resource Management and Hydro-hazards.

b) Capacity Building in Davao River Basin

- a. IWRM training program through technical writeshop for IWRM modules preparation and workshop on IWRM with focus on resilience and disaster preparedness.

c) Network Support

- a. Knowledge networking which facilitates and supports knowledge on Davao River basin through promotion support of National Economic and Development Authority XI by endorsing IWRM manuals.

Baselines

BASELINE 1

Network of Asian River Basin Organizations (NARBO)

CHARTER

February 2004
(Revised February 2006)
(Revised February 2008)
(Revised November 2010)

Contents

Introduction	1
Section 1. Denomination and Working Language	3
Section 2. Goal and Objective	3
Section 3. Activities	3
Section 4. Organizations	
4.1. Membership	4
4.2. NARBO General Meeting	7
4.3. Chairperson and Vice-Chairperson	8
4.4. Secretariat	10
4.5. NARBO Patron	12
4.6. Technical Advisory Committee	12
Section 5. Resources	13

Introduction

The world community has recognized the importance of managing water resources in a more integrated manner. Over the past decades, a series of regional and global water conferences, including the World Water Forums in 1997, 2000, and 2003, have underlined the need to adopt and operationalize the approach of integrated water resources management (IWRM), which is defined by the Global Water Partnership as *“a process to improve the planning, conservation, development, and management of water, forest, land, and aquatic resources in a river basin context, to maximize economic benefits and social welfare in an equitable manner without compromising the sustainability of vital environmental systems.”*

By focusing on the management of water and related resources in a river basin context, it is implied that IWRM will be undertaken at basin level with the involvement of stakeholders at the basin level. The water conference in Dublin in 1992 referred to the need to manage water resources *at the lowest appropriate level*. This has become one of the basic principles underpinning the IWRM approach, and it has led to increased recognition that river basin organizations (RBOs) can realize IWRM at the basin level. Since Dublin, the world community has also recognized the importance of promoting gender and development work as part of the IWRM approach to ensure that women participate in water management at all levels.

Many forms of RBOs have been established in recent decades, and countries have developed various governance approaches for RBOs, for example, river basin commissions in the People's Republic of China, river basin parliaments in France, river basin committees in Australia, river basin authorities in the United States and Sri Lanka, a lake basin development authority in the Philippines, water resources public corporations in Japan and Indonesia, inter-state RBOs like the river basin tribunals in India and the Murray-Darling Basin Commission in Australia, and international RBOs in the Mekong basin, the Syr and Amu Darya basins, and in the Tumen basin.

Some RBOs were established decades ago and have ceased to exist, while many new RBOs have been established recently. Some RBOs have a large

technical capacity, employing thousands of staff, while others may employ just a handful, like the newly established river basin committees in Southeast Asia. While there are many differences between these RBOs, they share a common mission, which is to operationalize IWRM in their respective river basins.

A network to assist RBOs in Asia in their work of introducing and operationalizing the IWRM approach does not yet exist. Consequently, RBOs lack opportunities for exchanging information and experience on their operations, and access for their staff to training and capacity building that draws on the technical and non-technical experience in managing water resources in Asia.

The need for partnerships for action to achieve IWRM was recognized at the 3rd World Water Forum held in Kyoto, Osaka, and Shiga, in the Lake Biwa and Yodo River Basin, Japan, in March 2003, where it was noted that several developed and developing countries in Asia have already established RBOs to implement IWRM. The 3rd World Water Forum highlighted the need to support these RBOs through knowledge sharing and capacity building, especially in developing countries.

The 3rd World Water Forum also emphasized the contributions that IWRM can make to improve the water security of the poor, by incorporating the needs of the poor explicitly in water policies and management practices at all levels.

Recognizing the need for networking and capacity building in the implementation of IWRM, the Water Resources Development Public Corporation of Japan (recently reconstituted as the Japan Water Agency), the Asian Development Bank, and the Asian Development Bank Institute decided at the 3rd World Water Forum in March 2003 in Kyoto, Japan, to collaborate in launching a Network of Asian River Basin Organizations (NARBO), and a letter of intent was signed at the Forum on 21 March 2003.

Note: This Charter is intended to guide NARBO in its start-up phase, during which membership by RBOs and partner organizations will be promoted and initial activities started to meet immediate needs of RBOs for training and exchange of information and experience. It is expected that the Charter will be reviewed and revised by the NARBO General Meeting when membership has

grown, a program of activities is agreed and under implementation, and membership fees can be introduced.

Section 1. Denomination and Working Language

- (1) This new initiative is entitled the Network of Asian River Basin Organizations (hereafter NARBO).
- (2) The language to be used is English.

Section 2. Goal and Objective

The goal of NARBO will be to help achieve IWRM in river basins throughout Asia.

NARBO's objective will be to strengthen the capacity and effectiveness of RBOs in promoting IWRM and improving water governance, through training and the exchange of information and experience among RBOs and their associated water sector agencies and knowledge partner organizations in Asia and to advise on the establishment of RBOs in Asia.

Section 3. Activities

To promote IWRM in Asia, the focus of NARBO's activities will be as follows:

- (1) Activities for the whole of NARBO

The activities joined by all members of NARBO will be as follows:

- (a) Advocacy and raising awareness for IWRM among RBOs, water sector apex bodies, and leading water sector agencies in the region, mainly through regional workshops.
- (b) Sharing of information, good practices, and lessons learned for IWRM among the participating organizations, mainly by operating

databases and a website for IWRM exchanging information, and by sending a newsletter by email as well as posting on the web site and holding (sub) regional workshops.

(2) Activities for regional areas of NARBO

RBOs, national and federal governmental organizations with expertise in IWRM, regional and interregional knowledge partner organizations for IWRM, and bilateral and multilateral development cooperation agencies, will be requested to support RBOs in Asia in the following types of activities.

- (a) Supporting NARBO members to improve water governance, including the enabling policy, institutional, and legal framework for IWRM, and the formulation of the action plans.
 - (b) Building capacity of RBOs in implementing IWRM, mainly through staff exchange and training among participating organizations.
 - (c) Supporting RBOs with technical advice in regard to the planning, conservation, development, and the proper and efficient operation and maintenance of water resources facilities, to improve IWRM.
 - (d) Fostering regional cooperation for improved management of water resources in transboundary river basins.
- (3) The scope of IWRM activities to be supported by NARBO will be approved by the NARBO General Meeting.
- (4) NARBO's activities will initially focus on the monsoonal areas of Asia.

Section 4. Organizations

Article 4.1. Membership

- (1) Membership will be open to the following types of organizations.

- (a) RBOs, defined as organizations that have been officially recognized by the government of their country as having a mandate to promote and implement IWRM at the river basin level.
- (b) National and federal/ provincial / local governmental organizations in charge of water administration in the countries which implement or are interested in promoting and implementing IWRM at the level of river basins. This includes water sector apex bodies and leading water agencies.
- (c) Regional knowledge partner organizations with expertise in promoting and supporting IWRM, such as international RBOs and research and training organizations.
- (d) Inter-regional knowledge partner organizations with expertise in promoting and supporting IWRM.
- (e) Bilateral and multilateral development cooperation agencies promoting and supporting activities related to IWRM at the level of river basins.

(2) Among these, the organizations under (1.a) are considered as RBO members and (1.b to 1.e) are considered as partner members. Partner members will participate in NARBO as promoters and supporters of IWRM and RBOs, and as knowledge partners to RBOs.

(3) If other organizations wish to join NARBO, it needs to be recommended by an existing NARBO member or government agency concerned, notified to the Secretary General (see “Article 4.4.”) and approved in the NARBO General Meeting (see “Article 4.2.”).

Note: (1.c) and (1.d) include regional and inter-regional nongovernment organizations (NGOs) with expertise in promoting and supporting IWRM. For participation of national NGOs, (3) will apply. Participation as an observer in NARBO General Meetings is also possible (See “Article 4.2 (2)”).

(4) Application for membership in NARBO

- (a) An application to join NARBO should be submitted to the Secretary General with a recommendation from a NARBO member or the government.
- (b) The Secretary General evaluates the application and confers with the Chairperson and the Vice-Chairpersons with his/her comments.
- (c) The Chairperson makes the final decision.
- (d) The Secretary General notifies the result to the applicant organization.
- (e) When the applicant receives the approval, the applicant organization becomes the member.
- (f) The new member is introduced to the NARBO members.

(5) Withdrawal from NARBO

- (a) The following are grounds for a member to cease to be a NARBO member:
 - (i) The member applies for withdrawal from NARBO membership;
 - (ii) The member organization is abolished; and
 - (iii) The member organization undertakes activities contradictory to the principles of NARBO.
- (b) When a member matches to one of these grounds, the Secretary General evaluates the ground and confers with the Chairperson and the Vice-Chairpersons with his/her comments.
- (c) The Chairperson makes the final decision.

(d) The Secretary General notifies the result to that organization.

(6) Member's obligation

- (a) Members will participate in NARBO activities of their interest with commitment to use their own resources and to work effectively in partnership with other organizations that are collaborating in the network. Members will support the objectives of NARBO and will comply with its rules and regulations.
- (b) RBO members are obliged to submit an annual report to the Secretary General once a year within 3(three) months after their yearly fiscal year, in which their plan, scope of action, major activities, and issues are summarized. The report will be submitted in English.
- (c) The NARBO members are required to pay an annual membership fee. The amount and schedule of payment will be approved by NARBO General Meeting.

Note: For the time being, no membership fees are being considered.

Article 4.2. NARBO General Meeting

(1) Venue and Date

- (a) The NARBO General Meeting is held, in principle, every two years.
- (b) In principle, the General Meeting is held in the Chairperson's country, except as otherwise determined by the Chairperson. The dates are proposed jointly by the Chairperson and the Secretary General.
- (c) An extraordinary NARBO General Meeting can be convened at the request of the Chairperson, Vice-Chairperson, Secretary General or NARBO Secretariat before the next General Meeting, if there is a specific reason or if there are important issues to be solved urgently.

ii) The decision of the venue and date is the same as the decision for a General Meeting.

(d) The venue, date and agenda of General Meeting shall be distributed with an appropriate advance notice.

(2) Participation

Members, technical advisory committee members, and observers may attend the NARBO General Meeting. Observers need endorsement from the NARBO Secretariat and the local organizing committee hosting the NARBO General Meeting.

(3) Agenda of the NARBO General Meeting

(a) Two year action report and future action program of NARBO

(b) Reports by members on matters related to activities of NARBO

(c) Selection and replacement of Chairperson, Vice-Chairpersons, Secretary General and Vice-Secretary Generals

(d) Approval and revision of the Charter

(4) Approval

The approval of the NARBO General Meeting is based on consensus between the attending members.

Article 4.3. Chairperson and Vice-Chairpersons

(1) Nomination and Selection of the Chairperson and the Vice-Chairpersons

(a) The Chairperson and the Vice-Chairpersons are nominated by the Secretariat and selected by the NARBO General Meeting.

(b) In case the Chairperson is or becomes unable to perform his / her function as Chairperson, the Vice-Chairperson appointed by the

Secretariat will exercise the function and responsibility of the Chairperson until a Chairperson is selected at the next NARBO General Meeting.

(c) The Chairperson will be deemed to be unable to perform his/her function as Chairperson if (i) The Chairperson declares that he/she is unable to perform his/her function as Chairperson; or (ii) The Secretariat recognizes that the Chairperson is unable to perform his/her function as Chairperson.

(d) In case a Vice-Chairperson is or becomes unable to perform his/her function as Vice-Chairperson, an Acting Vice-Chairperson is nominated by the Secretariat and appointed by the Chairperson for a period extending until a Vice-Chairperson is selected at the next NARBO General Meeting.

(e) A Vice-Chairperson will be deemed to be unable to perform his/her function as Vice-Chairperson if (i) A Vice-Chairperson declares that he/she is unable to perform his/her function as Vice-Chairperson; or (ii) The Secretariat recognizes that the Vice-Chairperson is unable to perform his/her function as Vice-Chairperson.

(2) Responsibility of Chairperson

The Chairperson leads the NARBO General Meeting and guides NARBO activities until the next General Meeting.

(3) Responsibility of Vice-Chairperson

(a) Assist the Chairperson

(b) Substitutes for the Chairperson when he/she is not available

(4) NARBO Senior Adviser

(a) Secretary General may invite the Chairperson to become NARBO Senior Adviser at the completion of Chairpersons term. A senior expert who had made a significant contribution to NARBO works and demonstrated leadership may also be invited to become NARBO Senior Adviser. NARBO Senior Adviser is expected to advise the Chairperson and Secretariat in promoting and enhancing NARBO activities.

(b) A NARBO Senior Advisor is expected to serve for a period of 2 years, with possible extension.

Article 4.4. Secretariat

(1) Responsibilities of the NARBO Secretariat

(a) Initiatives and Activities of NARBO

(i) Collection of relevant information and coordination with related organizations, including participation in relevant meetings

(ii) Preparation of the documents needed for and writing reports of the NARBO General Meeting

(iii) Preparation of two-year action report and action program

(iv) Operation and management of the NARBO web site and other communication facilities

(v) Advice on the enabling policy, institutions and efficient operation to improve IWRM and on the establishment and capacity building of RBOs in implementing IWRM (subject to available resources of NARBO to provide advice through cost-effective means)

(vi) Organization of other NARBO initiatives and activities

(b) Logistics Service for NARBO

- (i) Contacts and coordinates the members
- (ii) Handles the administration, including registration of members, accounting, document preparation etc.

(2) Composition and Location of the NARBO Secretariat

- (a) The NARBO Secretariat is composed of the Japan Water Agency (JWA), the Asian Development Bank Institute (ADBI), both in Japan, the Asian Development Bank (ADB), in Philippines and Center for River Basin Organizations and Management (CRBOM) in Indonesia.
- (b) The Headquarters of the Secretariat is located in JWA and its branches are located in ADBI, ADB and CRBOM. Secretariat staffs are nominated by the Secretary General in consultation with JWA, ADBI, ADB and CRBOM.
- (c) Any organization in the NARBO Secretariat may resign its function at any time without condition.

(3) Nomination and approval of the Secretary General and the Vice-Secretary Generals.

- (a) The Secretary General and the Vice-Secretary Generals are nominated by the Secretariat and approved at the NARBO General Meeting.
- (b) In case the Secretary General or any Vice-Secretary Generals is or becomes unable to perform his/her function, an Acting Secretary General or an Acting Vice-Secretary General, as the case may be, is nominated by the Secretariat and appointed by the Chairperson for a period extending until the Secretary General or the Vice-Secretary General is selected at the next NARBO General Meeting.

- (c) The Secretary General or a Vice-Secretary General will be deemed to be unable to perform his/her function if (i) he/she declares that he/she is unable to perform his/her function as the Secretary General or the Vice-Secretary General; or (ii) The Secretariat recognizes that the Secretary General or such Vice-Secretary General is unable to perform his/her function as the Secretary General or the Vice-Secretary General.

(4) Responsibilities of the Secretary General

- (a) Initiates and manages NARBO's initiatives and activities.
- (b) Convenes the NARBO Meeting and sets its agenda in consultation with the Chairperson
- (c) Supervises the Secretariat's work

(5) Responsibilities of the Vice-Secretary Generals

- (a) Supports the Secretary General
- (b) Substitutes for the Secretary General when necessary

Article 4.5. NARBO Patron

The Chairperson may invite a person of high public stature and influence to take on the role of NARBO Patron. A NARBO Patron is expected to represent and promote NARBO and its objectives and activities in the region and world, specifically to leaders, policy makers, media, and the general public. The patron may also be requested to advise NARBO on its work.

Article 4.6. Technical Advisory Committee

- (1) A Technical Advisory Committee may be convened by the Secretary General. The Committee will be composed of individuals and organizations who can advise and support NARBO in its

activities. Its task is to extend the financial and the technical support for the implementation of regional activities of NARBO.

- (2) The statute of the committee will be approved by the NARBO General Meeting.

Section 5. Resources

- (1) Financial and human resources to support NARBO activities will be provided from the following sources:
- (2) The Members of NARBO will voluntarily provide resources in cash and kind to support NARBO activities in which they are interested to participate.
- (3) Costs (personnel and traveling expenses) of the NARBO Secretariat will be provided by JWA, ADB, ADBI and CRBOM who will mobilize financial resources for this purpose. Travel expenses for the Chairperson and Vice-Chairpersons will be provided by NARBO Secretariat for travel approved by NARBO secretariat.
- (4) NARBO activities will be financed by JWA, ADBI, ADB, CRBOM, bilateral and multilateral agencies to be identified, and NARBO Members, on a parallel co-financing basis.
- (5) ADB may be requested by the NARBO General Meeting to convene a NARBO Financial Support Group of interested bilateral and multilateral organizations to help support NARBO activities.

BASELINE 2

Action Plan -2010~2012-

Network of Asian River Basin Organizations (NARBO)

ACTION PROGRAM 2010-2012

Key Result Areas:

- A. Advocacy, Raising Awareness, and Exchange of Information and Good Practices on Integrated Water Resources Management (IWRM)
- B. Capacity Building in River Basin Organizations (RBOs)
- C. Network Support

Draft, 12 Nov 2010

A. Advocacy, Raising Awareness, and Exchange of Information and Good Practices on IWRM			
Activities	Implementation Plan	Lead Agency	Notes
Activities led by the NARBO Secretariat: 1. NARBO Website (http://www.narbo.jp) <ul style="list-style-type: none">Provides information, news and reminders on NARBO activities; and information on introducing IWRM in river basins in Asia, including publications, case studies, articles on important IWRM topicsProvides links to NARBO member websites, e-newsletters, online databases, and other related sites	<ul style="list-style-type: none">Continue regular updatesIntroduce on-line forum to enhance information and knowledge sharing	JWA	<ul style="list-style-type: none">Members to provide stories, cases, articles, and links

2. NARBO e-Newsletter <ul style="list-style-type: none"> • Publishes good practices, lessons learned, IWRM-related activities, etc. 	<ul style="list-style-type: none"> • Draft and prepare stories and materials on priority topics of interest to NARBO members • Prepare and distribute quarterly through e-mail and the website 	JWA	<ul style="list-style-type: none"> • Members to send contributions
3. Guidelines and Online data base <ul style="list-style-type: none"> • Provides guidelines and other useful reference materials on IWRM practices, cases, lessons learned, champions, standards and manuals, annual reports, topics of interest through website and CDs 	<ul style="list-style-type: none"> • Formulate guidelines and continue collecting and updating information from members and partners • Provide useful reference material • Provide reference material such as the experiences of Japanese water resources development and management 	ADBI, JWA, ADB, CRBOM, Knowledge Hubs	<ul style="list-style-type: none"> • Members to provide reference materials
4. NARBO Annual Report <ul style="list-style-type: none"> • Publishes NARBO activities and events; and members' updated profile 	<ul style="list-style-type: none"> • Distribute annual report in May of following year through hardcopies, the website and CDs 	JWA	<ul style="list-style-type: none"> • RBO Members to submit their annual reports no later than end March
5. NARBO Promotion <ul style="list-style-type: none"> • Increases governments, public, and media interest in NARBO activities and increase NARBO membership • Disseminates key messages on introducing IWRM in river basins and RBO work • Promotes NARBO's objectives and activities 	<ul style="list-style-type: none"> • Promote NARBO work through media, country visits, regional events, and knowledge networks • Invite RBOs in development projects to join NARBO • Invite knowledge partner organizations to join NARBO • Encourage national NARBO networks in countries with many RBOs 	NARBO Secretariat, Chair, Indonesia NARBO	<ul style="list-style-type: none"> • Members to contribute to the promotion and dissemination work, and to increase NARBO membership • NARBO Indonesia and CRBOM to pilot in-country RBO network

6. NARBO General Meeting <ul style="list-style-type: none"> Includes study visit in host river basin, IWRM workshops, and general meeting 	<ul style="list-style-type: none"> Organize the 4th NARBO General Meeting in the last quarter of 2010 and the 5th NARBO General Meeting in early 2013 	Chair, Vice-Chair, NARBO Secretariat	<ul style="list-style-type: none"> Members to participate and share their knowledge
Activities led by NARBO Member Organizations:			
1. NARBO members' websites <ul style="list-style-type: none"> Provides useful information and knowledge products on introducing IWRM in their respective river basins 	<ul style="list-style-type: none"> Develop, maintain, and update the website on a regular basis 	Members	<ul style="list-style-type: none"> Members to develop and maintain modern websites
2. NARBO members' Annual Report <ul style="list-style-type: none"> Compiles overview of RBO's objectives, targets, activities, lessons learned, and performance improvements in introducing IWRM in their respective river basins 	<ul style="list-style-type: none"> Prepare annual report and send to NARBO Secretariat at JWA no later than March of the following year 	RBO Members	<ul style="list-style-type: none"> RBO members to invest in useful annual reports

B. Capacity Building in River Basin Organizations (RBOs)			
Activity	Implementation Plan	Lead Agency	Note
Activities led by the NARBO Secretariat:			
1. IWRM Training Program <ul style="list-style-type: none"> Develops the capacity of NARBO member staff in understanding and implementing IWRM in their respective river basins 	<ul style="list-style-type: none"> NARBO Technical Advisory Committee to guide an overhaul of the program design 7th IWRM training will be held for senior level staff in 1st quarter of 2011 Next series of IWRM Training should 	JWA, ADB, ADBI, CRBOM, Technical Advisory Committee, Knowledge Hubs	<ul style="list-style-type: none"> Members to facilitate their staff to apply and contribute registration fee A program comprises 2 training courses for middle level and 1 course for senior level IWRM GUIDELINES at River Basin Level is used as main reference material

	be discussed at the TAC meeting and conducted from 2011 <ul style="list-style-type: none"> Conduct once or twice a year 		
2. Workshops <ul style="list-style-type: none"> Covers IWRM topics of interest and is held during the NARBO general meeting Separate thematic workshop series held outside the general meeting deepen further understanding on selected priority IWRM topics 	<ul style="list-style-type: none"> Conduct workshop on IWRM case study by NARBO secretariat and Department of Water Resources, Ministry of Natural Resources and Environment, Thailand Conduct workshops on Climate Change Adaptation, Disaster Management, Water Quality Improvement, Leadership and water and history Conduct sessions in the ADB conference, October 2010 – Water: Crisis and Choices and prepare a technical background paper in collaboration with members 	JWA, ADB, ADBI, CRBOM, Indonesia NARBO, Knowledge Hubs	<ul style="list-style-type: none"> Members to attend and contribute knowledge on issues and solution strategies Lessons learned from thematic workshops on water rights, facility management disaster management and climate change will be used in designing the subsequent workshop series
3. Performance Benchmarking supported by peer reviews <ul style="list-style-type: none"> Provide a demand-based benchmarking service for RBOs to assess and continuously improve their performance 	<ul style="list-style-type: none"> Manage the implementation of the NARBO RBO performance benchmarking service Form and maintain a group of trained and certified peer reviewers Maintain tools and documentation capturing experience gained and lessons learned, Report progress and benefits 	CRBOM, with support from ADB and other partners	<ul style="list-style-type: none"> CRBOM to manage training and certification service for peer reviewers, facilitation of peer reviews, and support for pilot-testing of basin benchmarking methodology, in collaboration with the Knowledge Hubs
4. Advisory visits to RBOs <ul style="list-style-type: none"> Includes study visits by RBOs to learn from their experience in implementing 	<ul style="list-style-type: none"> Encourage members to promote such visit through newsletter and 	JWA, ADB, ADBI, CRBOM, Knowledge	<ul style="list-style-type: none"> Knowledge Hubs to join visits for piloting Roadmap Advisory Service for RBOs

IWRM, and to promote knowledge generation and sharing	website	Hubs	<ul style="list-style-type: none"> Where possible linked to RBO exchange visits initiated by members
5. Scholarship Programs <ul style="list-style-type: none"> Introduces information about higher education institutions, research and training organizations or any scholarships which relate to IWRM 	<ul style="list-style-type: none"> Share information on IWRM courses and existing scholarship programs, through NARBO website 	JWA, ADB, ADBI, CRBOM, Knowledge Partner members	<ul style="list-style-type: none"> May include online distance learning programs
Activities led by NARBO Member Organizations:			
1. Twinning Programs <ul style="list-style-type: none"> Mutually beneficial programs for knowledge sharing and capacity development, involving exchange visits, staff exchange, and joint projects 	<ul style="list-style-type: none"> Explore further substantial outputs in using current scheme for mutual benefits 	Members	<ul style="list-style-type: none"> Initiated, arranged and financed by RBO members themselves NARBO Secretariat can facilitate initial contacts
2. ISO certification <ul style="list-style-type: none"> Explores opportunities to gain ISO certification for good performance in achieving standards of excellence 	<ul style="list-style-type: none"> ISO certified member RBOs in Indonesia (PJT 1 and 2) can provide information to other members NARBO Secretariat can post information on the website 	Members, PJT 1, 2	<ul style="list-style-type: none"> Members to exchange information and experience
3. Transboundary Water Management <ul style="list-style-type: none"> Explores opportunities to foster transboundary water resources management (within and between countries) through information sharing and exchange of experience 	<ul style="list-style-type: none"> Contribute good practice cases as inputs for regional study on charting progress in IWRM in river basins in the region 	Members, Knowledge Hubs	<ul style="list-style-type: none"> The Mekong River Committee is expected to contribute as a knowledge hub for this topic

C. Network Support			
Activity	Implementation Plan	Lead Agency	Note
1. Technical Advisory Committee <ul style="list-style-type: none"> Provides guidance to ensure quality of NARBO's IWRM Training Program, and on strategic direction of NARBO's activities 	<ul style="list-style-type: none"> TAC meetings shall be convened before holding IWRM Training to discuss the strategy and the contents of IWRM training 	ADB, ADBI, JWA, CRBOM, Chair, Vice Chair	<ul style="list-style-type: none"> TAC meetings shall be convened at least once a year based on the statute Heads of regional water knowledge hubs to be involved
2. Knowledge Networking <ul style="list-style-type: none"> Facilitates and supports regional water knowledge hubs under the Asia-Pacific Water Forum Provides demand-based knowledge and capacity development services that meet NARBO member clients needs 	<ul style="list-style-type: none"> Improve collaboration with APWF regional water knowledge hubs and other partners to help RBOs and projects for IWRM in river basins Member RBOs to explore partner relationships with relevant knowledge hubs for specific services they need Collaborate with other RBOs (such as Spanish RBOs and others) in improving water security in their basins for the future Collaborate with other organizations in exchanging data or others for climate change adaptation in IWRM. Conduct on-demand trainings or workshops on Leadership. 	CRBOM, other Knowledge Hubs, and partners	<ul style="list-style-type: none"> ADB and JICA TA projects to support CRBOM are on progress. Other donors to be encouraged to provide complementary assistance. Involve ICHARM, K-Water, YRCC, NAHRIM, IRTCES, IGES, JSC and other hubs in collaboration. Knowledge Hubs to develop a network of clients and partners on their topic (knowledge domain) Use development project budgets to pay for services provided by the hubs

<p>3. Charting Progress and Facilitating Investment for IWRM</p> <ul style="list-style-type: none"> Catalyze further investments in IWRM and demonstrate good practices in introducing IWRM in river basins across the region 	<ul style="list-style-type: none"> Implement TA project through CRBOM Enhance dissemination of IWRM experience in basins within Indonesia through new dissemination unit (by JICA) Pilot a Roadmap Advisory Service to help RBOs prepare long-term IWRM investment programs Chart and analyze regional progress of introducing IWRM in river basins Publish a book on Managing Water in Asia's River Basins by a team of IUCN and ADB in collaboration with NARBO and CRBOM 	<p>ADB, IUCN, Knowledge Hubs</p>	<ul style="list-style-type: none"> Regional TA project formulated by ADB to help member RBOs Update to be provided to 4th NARBO General Meeting
<p>4. Investments in Water Security in River Basins</p> <ul style="list-style-type: none"> Accelerates economic growth and to improve the living standards in river basins through efficient, effective, and sustainable water resources management, environmental conservation, and water-related disaster risk mitigation. 	<ul style="list-style-type: none"> Implement TA project by JWA Enhance RBOs to improve water security in each basin based on the LoI between ADB and JWA Help identify investment needs in preparation for future feasibility studies for projects to increase water security in three pilot river basins in the region Strengthen the capacity of government agencies and other stakeholders concerned for the implementation of the future investment programs 	<p>ADB, JWA</p>	<ul style="list-style-type: none"> Regional TA project formulated by ADB to help member RBOs Update to be provided to 4th NARBO General Meeting

<p>5. Sharing knowledge on River Basin Management in Asia Pacific.</p> <ul style="list-style-type: none"> • Make use of the 2nd Asia-Pacific Water Summit • Disseminate information, observations and experience made, as well as news, opinions, ideas, or open questions for discussion • Emphasize innovative approaches, successful achievements, benefits, and valuable lessons learnt • Support personal networking among RBO leaders and practitioners • Consider and activate contributions by APWF water knowledge hubs and other actors, including universities and business schools 	<ul style="list-style-type: none"> • Organizing regional meeting during the 2nd Asia- Pacific Water Summit • Guide NARBO members in networking and communication, • Recommend on good networking and knowledge-sharing practices. • Prepare inventory of IWRM-related knowledge, projects and partners • Support pilot implementation and disseminate good practice • Expand knowledge products and services to clients in the region the CRBOM Small Publications Series as long as a need is seen • Perform other services consistent with the 10 key operating principles of APWF regional knowledge hubs 	<p>CRBOM, Knowledge Hubs, Thailand Water Resource Association, and other partners</p>	<ul style="list-style-type: none"> • To be elaborated.
<p>6. Collaboration with International Networks</p> <ul style="list-style-type: none"> • GWP, INBO, CapNet, If-net and others as needed. 	<ul style="list-style-type: none"> • Coordinate activities as needed 	<p>JWA, ADBI, ADB, CRBOM</p>	<ul style="list-style-type: none"> • Share IWRM experience to benefit NARBO members

BASELINE 3

NARBO Members' List

List of NARBO Member and Organizations Interested in becoming member

November 12, 2010

Category	Member	(Interested)
River Basin Organization (RBO)	28	3
Government Organization (GOV)	19	4
Regional Knowledge Partner (RKP)	19	1
Inter-Regional Knowledge Partner (IRKP)	9	0
Development Cooperation Agency (DCA)	1	0
Total	76	8

	Classification		Country/Region	Organization	Representative/Signatory	Position
1	Member	RBO	Indonesia	Jasa Tirta I Public Corporation	Mr. Tjoek Walujo Subijanto	President Director
2			Indonesia	Jasa Tirta II Public Corporation	Mr. Djendam Gurusinga, Dipl.HE	President Director
3			Indonesia	Bengawan Solo River Basin Organization	Mr. Graita Sutadi	Head
4			Indonesia	Pompeyan Jeneberang Basin Water National Management Unit	Mr.Isprasetyo Basuki (Ir.Isprasetyo Basuki, M.Sc)	Head
5			Indonesia	Jragung-Tuntang Basin Water Resources Management Unit	Mr. Tri Widodo D.	Head
6			Indonesia	Pekalan Sampayan Basin Water Resources Management Unit	Mr. Wahjoe Pribowo	Head of PSAWS
7			Indonesia	Ciujung-Ciliman Basin Water Resources Management Unit	Mr.Winarjono	Head of DPU
8			Indonesia	Sermo Water Resources Management Unit	Mr. Purwoko	Head
9			Indonesia	Citarum Basin Water Resources Management Unit	Mr. Rustam Suharman	
10			Japan	Japan Water Agency	Mr. Toshiki Aoyama	President
11			Korea	Korea Water Resources Corporation	Dr. Ick Hwan Ko	Director, Hydrosystem Engineering Center
12			Laos	Nam Ngum River Basin Development Sector Project	Dr. Thatheva Saphangthong	Coordinator, Integrated Watershed Maangement Unit
13			Malaysia	Selangor Water Management Authority	Mr.Nor Zamri bin Sondor	Acting Director
14			Pakistan	Indus River System Authority	Mr. Fida Hussain	Senior Engineer

List of NARBO Member and Organizations Interested in becoming member

15		Philippines	Laguna Lake Development Authority	Ms. Dolora Nepomuceno	Assistant General Manager
16		Sri Lanka	Mahaweli Authority of Sri Lanka	Mr. Don Clement Sudharma Elakanda	Director General
17		Thailand	Bang Pakong River Basin Committee	Mr. Pathai Punturothai	Director, Division of Coordination and Management
18		Viet Nam	Cuu Long & Dong Nai River Basin Organization	Mr. Nguyen Xuan Hien	Chief of Office
19		Viet Nam	Red River Basin Organization (RRBO)	Dr. Bui Nam Sach	Chief of Office
20		Viet Nam	Day River Basin Subcommittee	Dr. Nguyen Van Tinh	Deputy Director of WRD, MARD
21		Viet Nam	Cau River Basin Planning Subcommittee	Mr. Dinh Khac Tinh	Vice Chairman
22		Viet Nam	Vu Gia Thubon River Basin Organization	Mr. Huynh Van Thang	Chief of GORBO's Secretariat Board
23		Viet Nam	Ca River Basin Management Council	Mr. Nguyen Dinh Chi	Chairman
24		Southeast Asia	Mekong River Commission Secretariat	Mr. Jeremy Bird	Chief Executive Officer
25		Indonesia	Balai Besar Wilayah Sungai Brantas	Ir. Sugianto, M. Eng	Head
26		Davao Philippines	HELP Davao Network	Dr Anthony Sales	Regional Director DOST XI
27		Lao PDR / Southeast	Nam Ngum River Basin Committee Secretariat	Mr. Chanthanet BOUALAPHA	Head
28		Lao PDR	Nam Theun-Nam Kading River Basin Committee Secretariat	Ms.Sonephet PHOSALATH	Assistant to the Director General of NTNKD RBCs, Project Manager of Nam Theun-Nam Kading River Basin Project

List of NARBO Member and Organizations Interested in becoming member

Classification			Country/Region		Organization	Representative/Signatory	Position
1	Member	GOV	Bangladesh	Bangladesh Water Development Board (BWDB)		Mr. H. S. Mozaddad Faruque	Director General
2			Bangladesh	Local Government Engineering Department (LEGD)		Mr. Md. Shahidul Hasan	Chief Engineer
3			Cambodia	Ministry of Water Resources and Meteorology (MOWRAM)		Dr. Theng Tara	Director, Department of Water Resources Management and Conservation
4			Cambodia	Department of Hydrology and River Works (DHRW)		Mr. Long Saravuth	Deputy Director
5			Indonesia	Directorate General of Water Resources (DGWR)		Mr. Imam Anshori	Director of Water Resources Management
6			Indonesia	Water Resources Development, West Nusa Tenggara Province		Mr. Djalal (Ir. H. Djalal)	Chief
7			Japan	Water Resources Department, Land and Water Bureau, Ministry of Land, Infrastructure, Transport and Tourism		Mr.Tomomasa Onomi	Deputy Director
8			Laos	Water Resources Department (Former WRCC, LaoPDR)		Mr. Phonechaleun Nonthaxay	Director General
9			Malaysia	Department of Irrigation and Drainage (DID Malaysia)		Mr. Ahmad Husaini bin Sulaiman	Director General
10			Philippines	National Water Resources Board (NWRB)		Mr. Vicente S. Paragas	Executive Director
11			Philippines	Department of Environment and Natural Resources (DENR)		Ms. Analiza Rebuelta Teh	Assistant Secretary, Foreign Assisted & Special Project Office
12			Sri Lanka	National Water Resources Authority (NWRA)		Mr. Ananda. H. Jayaweera	Director
13			Thailand	Department of Water Resources, Ministry of Natural Resources and Environment (DWR, MoNRE)		Mr.Kasemsun Chinnvaso	Director General
14			Viet Nam	Department of Water Resources Management, MoNRE		Mr. Nguyen Thai Lai	Director General
15			Viet Nam	General Office for RBOs in Viet Nam (GO-RBO)		Dr. Vu Van Thang	General Director, WRD
16			Viet Nam	Southern Institute for Water Resources Planning (SIWRP)		Mr. Nguyen Ngoc Anh	Chief of Office

List of NARBO Member and Organizations Interested in becoming member

17		Viet Nam	Department of Natural Resources and Environment of Dong Nai Province	Mr. Phan Van Het	Vice Director
18		Nepal	Water and Energy Commission Secretariat	Mr. Kishore Thapa	Secretary
19		India	Orissa Water Planning Organization	Mr. S.C. Mahapatra	Engineer-in-Chief, Planning and design

	Classification		Country/Region	Organization	Representative/Signatory	Position
1	Member	RKP	Asia	International Centre for Integrated Mountain Development (ICIMOD)	Dr. Andreas Schild	Director General
2			Southeast Asia	Global Water Partnership (GWP) SEA RWP	Dr. Le Van Minh	Chairperson
3			South Asia	Global Water Partnership (GWP) SAS RWP	Mr. Sardar Muhammad Tariq	Regional Chairperson
4			South Asia	South Asia Network of River Basin Organization (SASNET-RBO)	Mr. Don Clement Sudharma Elakanda	Network Coordinator SASNET-RBO
5			South Asia	The Capacity Building Network for Integrated Water Resources Management South Asia (CapNet SA)	Dr. Jasveen Jairath	Regional Coordinator
6			Bangladesh	Institute of Water Modeling (IWM)	Mr. Emaduddin Ahmad	Exective Director
7			Indonesia	Indonesia Water Partnership (InaWP)	Mr. Achmadi Partowijoto	Member of Trustee
8			Indonesia	Foundation on Water Affairs ADHI EKA	Mr. Kusdaryono Sutosuromo	Chairman of the Executive Board
9			Indonesia	Faculty of Engineering, Brawijaya University	Dr. Agus Suharyanto	Vice Dean for Academic Affaires
10			Indonesia	Research Centre for Water Resources (RCWR)	Dr. Arie Setiadi Moerwanto	Director
11			Indonesia	Center for Environment & Civil Engineering Research	Dr. Indreswari Guritno	Head of the Water Resources & coastal engineering science group
12			Indonesia	Post Graduate Study on Water Resources Management Faculty of Engineering Gadjah Muda University	Dr. Budi Santoso Wignyosukarto	Senior Lecturer
13			Indonesia	SEMBRANI foundation	Mr. Mardjono Notodiharjono	Chairman
14			Japan	Japan River Restoration Network (JRRN)	Dr. Nobuyuki TAMAI	Chairperson
15			Japan	Graduate School of Management, Kyoto University	Dr. Kazuo YOSHIDA	Dean
16			Japan	Civil Engineering Research Institute for Cold Region, PWRI	Mr.Kazuyuki Kawamura	Acting Chief Executive Officer

List of NARBO Member and Organizations Interested in becoming member

17		Malaysia	National Hydraulic Research Institute of Malaysia (NAHRIM)	Mr. Ahmad Jamaluddin	Acting Director General
18		Thailand	Thailand Water Resources Association (TWRA)	Dr. Apichart Anukularmchai	President
19		People's Republic of China	Yellow River Conservancy Commission(YRCC)	Mr.shang Hongqi,Department of International Cooperation Science and Technology,YRCC	Director General
1	IRKP	Inter-region	Asian Development Bank Institute (ADBI)	Dr. Masahiro Kawai	Dean
2		Inter-region	Asia Pacific Association of Hydrology and Water Resources (APHW)	Dr. Katsumi MUSHIAKE	Secretary General
3		Inter-region	International Centre for Water Hazard and Risk Management (ICHARM)	Dr. Kuniyoshi TAKEUCHI	Director
4		Inter-region	International Research and Training Center on Erosion and Sedimentation (IRTCES)	Dr. Prof. Hu Chunhong	Secretary General
5		Inter-region	IUCN - The World Conservation Union	Dr. Tejpal Singh	Leader, Asia Water & wetlands Program
6		Inter-region	International Water Centre (IWC)	Mr. Mark Pascoe	Chief Executive Officer
7		Inter-region	International Water Management Institute (IWMI)	Mr. Andrew Noble	Head IWMI-SEA
8		Inter-region	The World Wildlife Fund International (WWF International)	Mr.Lifeng Li	Director, Asia Pacific Region
9		Indonesia	Center for River Basin Organizations and Management(CRBOM)	Mr.Isnugroho	Executive Director
1	DCA	Inter-region	Asian Development Bank (ADB)	Mr. Jan P. M. van Heeswijk	Director General

Programs & Newsletters



PROGRAM

The Forth General Meeting Network of Asian River Basin Organizations (NARBO)

Venue ; Clarion Hotel & Convention Makassar

As of 3 Nov 2010

Time	Activity/Agenda	Acting Person	Venue	Remarks
Day 0 Participants Arrival				
Monday, 8 Nov			Clarion Hotel & Convention Makassar	
	Participants arrive in Makassar			
13:00 – 16:00	Secretariat Meeting	NARBO	TBD	NARBO Staff Only
19.00 – 20.30	Welcome Dinner	MC; Ms. Hiromi Yamashita, JWA	Restaurant in the Hotel	
19.00 – 19.10	Welcome Remarks from Governor of South Sulawesi	Governor of South Sulawesi		
19.10 – 19.15	Speech from NARBO Secretariat	Secretary General		
19.15 – 20.30	Dinner (traditional music and dances accompanying: gambyong and gamelan)			
20.30 – 20.35	Introduction of the schedule of the GM	NARBO Secretariat (Kawasaki)		
20:35 – 20:45	Presentation & introduction to the study visit itinerary	Jeneberang RBO Staff		
Day 1 Study Visit				
Tuesday, 9 Nov			No-Dress code	
07:00 – 07:30	Preparation for departure & Registration		Host Org should distribute map and assignments to the participants.	
07:30 – 09:30	Journey to Daraha (Upper Jeneberang)	Jeneberang RBO Staff		
09:30 – 10:30	Daraha Bridge, Check Dam		Countermeasure of sedimentation due to Mt.Bawakareng collapse	
10:30 – 11:30	Jorney to Arboretum			
11:30 – 12:00	Planting tree in Arboretum		Making NARBO Forest in Jeneberang River Basin	
12:00 – 13:00	Lunch			
13:00 – 14:00	At Bili-Bili Dam and Reservoir		Explanation and discussion	
14:00 – 16:30	Jorney to Bantimurung, Maros			
16:30 – 17:30	Bantimurung, Maros		Visit Butterfly Reserve Park; Waterfall	

Time	Activity/Agenda	Acting Person	Venue	Remarks
17:30 –	Back to the Hotel		Submit the comments & impression on study visit to the secretariat	
	Dinner is not offered by NARBO secretariat			
Day 2 IWRM Seminar – Seminar on Key for Success in the IWRM Process in River Basins				
Wednesday 10 November				TBD
08:00 – 08:30	Registration			
08:30 – 09:30	Opening Program	Chaire; Dr. Baski Hadimuljono	Conference room	
08:30 – 08:50	Welcome speech	President of Jeneberang RBO (TBC)		
08:50 – 09:10	Remarks; TBC	Dr. Mochammad Amron		
09:10 – 09:30	Remarks; TBC	Mr. Hubert Gijzen, Resrepresentative of UNESCO Indonesia (TBD)		
09:30 – 10:00	Coffee Break and networking			
10:00 – 12:00	Session 1; Learning from the study visit in the Jeneberang river basin and the IWRM Guidelines	Chair; Dr. Apichart Anukularmphai		
10:00 – 11:00	Findings of Study Visit	Dr. Peter Oliver (IWC) & Mr. Koich Takano, ADB		
11:00 – 12:00	Improving Water Security – IWRM Guidelines at River Basin Level -	Mr. Koich Takano, ADB		
12:00 – 13:00	Lunch Break and networking			
13:00 – 14:30	Session 2; Exploring keys for success in IWRM in the river basins	Moderator; Dr. Ir. Hj. Keizrul Bin Abdullah		
13:00 – 13:05	Introduction	Moderator		
13:35 – 14:30	Panel Discussion	<ul style="list-style-type: none"> - PJT1 (Indonesia) - MASL (Sri Lanka) - Bang Pakong (Thailand) - Vu Gia-Thu Bon (Viet Nam) - LLDA(Philippines) - Nam Ngum River Basin Committee Secretariat (Lao PDR) - IWC 		
14:30 – 15:00	Coffee Break and networking			
15:00 – 16:30	Session 3; Learning to engage with finance and planning leaders to mainstream the IWRM process in river basins	Moderator; Mr. Wouter T. Lincklaen Arriens, ADB		
15:00 – 15:05	Introduction	Moderator		
15:05 – 16:30	Panel Discussion	Panelist <ul style="list-style-type: none"> - Dr. Ir. Hj. Keizrul Bin Abdullah, Malaysia - Mr. Hari Prasad Ishar, WECS, Nepal 		

Time	Activity/Agenda	Acting Person	Venue	Remarks
		<ul style="list-style-type: none"> - Dr. Apichart Anukularmphai, Thailand - Ms. Dolora Nepomuceno LLDA, Philippines - Ms. Sonephet Phosalath, NT-NKRBCS, Lao PDR - Ms. Isidra D. Penaranda, NWRB, Philippines 		
16:30 – 17:15	Open forum on the way forward	Moderator; Dr. Baski Hadimuljono		
16.30 – 17:15	Open Discussion			
17.15 – 17:20	Technical Announcements	NARBO Secretariats		
	Dinner is not offered by NARBO secretariat			
Day 3 IWRM Workshops				
Thursday 11, Nov				TBD
08:00 – 08:15	Registration	.		
08:15 – 08:30	Opening Program			
08:15 – 08:30	Official address by Minister of PU, Gol (date can be adjusted)	TBD		
08:30 – 12:30	Workshop 1 ; Climate Change Projection and Adaptive Management in IWRM	Organized by ADB	TBD	
08:30 – 10:00	Session 1: Overview of Climate Change Adaptation in the Water Sector, with Case Studies			
08:30 – 08:40	Introduction – Climate Change Adaptation in the Water Sector	Mr. Thomas Panella, ADB		
08:40 – 09:10	Keynote Presentation; Current Progress in Climate Change Projection, and the “Singapore statement” - Guiding Principles and Recommended Actions.	Prof. Toshio Koike, University of Tokyo		
09:10 – 09:30	Panel Reflections	<ul style="list-style-type: none"> - Ms. Zailah Selamat, NAHRIM, Malaysia - TBA, Ministry of Public Works (MPU), Indonesia (alternatively Bureau of Meteorology and Geophysics (BMG); or Perum Jasa Tirta II – Citarum); - Mr. Charles Rodgers, ADB. 		
09:30 – 10:00	Moderated Discussion: Lessons for Asian River Basins (discussion open to all participants and panelists)			
10:00 – 10:20	Coffee Break and networking			

Time	Activity/Agenda	Acting Person	Venue	Remarks
10:20 – 12:30	Session 2: Group Exercise: Identifying Knowledge Gaps and Priorities for Planning and Action			
10:20 – 10:25	Introduction and Directions for Group Exercise.	Mr. Charles Rodgers, ADB, ADB		
10:25 – 11:45	Group Work Session: Identifying Knowledge Gaps and Setting Priorities for Planning and Action. Participants form into four discussion groups of 12-15 persons each. Participants can choose either to select one basin for evaluation; or can focus on general issues applicable to most or all basins in the region. Expert panelists will join each group to assist. Each group will select a Rapporteur to report the outcomes of the exercise.			
11:45 – 12:30	Moderated Panel Discussion: Adaptive Water Resources Management under Climate Change: Next Steps, and NARBO's Role.	Prof. Koike and Panelists; Group Rapporteurs. Rapporteurs will provide brief (3-5 minute) summary of the outcomes of group discussion; followed by moderated discussion of lessons learned and next steps.		
12:30 – 13:30	Lunch Break and networking			
13:30-17:00 Parallel Session				
13:30 – 17:00	Workshop 2 ; Leadership	Organized by CRBOM	TBD	
13:30 – 13:40	Opening address	TBC		
13:40 – 14:00	Invited speaker: 'Preparing our river basins for the future'	(TBC)		
14:00 – 14:20	Invited speaker: 'Moving our RBOs to the next level'	TBC		
14:20 – 14:30	Questions and answers			
14:30 – 14:45	Summary of questionnaire survey: 'The agenda for basin-level management – challenges and options'			
14:45 – 15:00	Group discussion of topics identified in the survey			
15:00 – 15:30	Coffee Break and networking			
15:30 – 16:00	Group discussion of topics identified in the survey (Continued)			
16:00 – 16:15	Presentations of a few key points from each group			
16:15 – 16:45	Panel and plenary discussion	Moderator; TBC		
		around 4 members		
16:45 – 17:00	Wrap-up: 'Where to go from here'	TBC		
	Dinner is not offered by NARBO secretariat			
13:30 – 17:00	Workshop 3 ; Water Quality	Organized by JWA	TBD	

Time	Activity/Agenda	Acting Person	Venue	Remarks
		MC; Mr. Koichiro Otagaki		
13:30 – 13:40	Opening address	TBC		
13:40 – 14:20	Keynote Presentation ; Water Quality Issues in Asia	Prof. Mitsumasa Okada, University of Hiroshima, WEPA		
14:20 – 14:40	Presentation ; Technique of Forecast and Conservation for Water Quality	Dr. Ick Hwan Ko, K-Water		
14:40 – 15:00	Presentation ; Establishment of the Sound Water Environment through River Basin Management	Dr. Peter Oliver, International WaterCenter		
15:00 – 15:30	Coffee Break and networking			
15:30 – 17:00	Panel Discussion	Moderator; Prof. Mitsumasa Okada, University of Hiroshima, WEPA		
15:30 – 15:40	Water Quality Issues of Member Countries	PJT 2, Indonesia I		
15:40 – 15:50	Water Quality Issues of Member Countries	Dr. Sang Yong Park, K-Water		
15:50 – 16:00	Water Quality Issues of Member Countries	LLDA, Philippines		
16:00 – 16:10	Water Quality Issues of Member Countries	WECS, Nepal (TBC)		
16:10 – 16:20	Water Quality Issues of Member Countries	Jeneberan RBO (TBC)		
16:20 – 16:45	Discussion			
16:45 – 16:55	Introduction of Thematic Workshop on Water Quality Management	Ms. Hiromi Yamashita, JWA		
16:55 – 17:00	Summary and Closing Address	Mr. Katsuaki Kawano, JWA		
	Dinner is not offered by NARBO secretariat			

Day 4 Fourth General Meeting

Friday 12 Nov	TBD			
08:00 – 08:30	Registration			
08:30 – 09:50	Opening Program	MC; Ms. Hiromi Yamashita, JWA		
08:30 – 08:40	Opening address by NARBO Chairperson	Dr. Ir. Moch.Amron, M.Sc		Confrimed by CRBOM
08:40 – 08:50	Remarks - Strengthening RBOs	Mr. Tjeok Walujo Subijianto, PJT 1		
08:50 – 09:00	Remarks - Knowledge Networking	TBC		
09:00 – 09:10	Remarks - Implementing IWRM in adaptive management	Mr. Koji Tanimoto, MLIT, Japan		
09:10 – 09:20	Remarks - Improving Water Security	Mr. Wouter T. Lincklaen Arriens, ADB		
09:20 - 09:30	Coffee Break and networking			
09:30 – 12:00	Report on NARBO Activity 2008-2009	Chaired by NARBO Chairperson and Vice Chairparson		

Time	Activity/Agenda	Acting Person	Venue	Remarks
09:30 – 09:35	Technical Announcement by JWA	Ms. Tomomi Yamashita, JWA		
09:35 – 09:40	Overview on NARBO Programs 2008-2009	Mr. Katsuaki Kawano, Secretary General NARBO		
09:40 – 09:45	Newsletter and Website	Mr. Minoru Arai, JWA		
09:45 – 09:55	IWRM Training Programs	Ms. Machiko Higa, ADBI		
09:55 – 10:00	Twinning Program –Mahaweli Authority (Srilanka)	TBD		
10:00 – 10:05	Twinning Program –MARD (Vietnam)	TBD		
10:05 – 10:15	Thematic Workshop – by JWA	Mr. Koichiro Otagaki, JWA		Disaster Management
10:15 – 10:20	NARBO Promotion Activities (ADB-JWA LOI)	Mr. Yoshihiro Yamashita, JWA		
10:20 – 10:30	IWRM Guidelines	Mr. Koichi Takano, ADB		
10:30 - 10:50	Coffee Break and networking			
10:50 – 11:00	Specific activities of Member Organization (If any)	TBD		
11:00 – 11:10	NARBO performance benchmark peer review – by ADB HQ	TBD		
11:10 – 11:20	NARBO and Regional Water Knowledge Hubs – ADB	TBD		
11:20 – 11:25	Report on result of survey to NARBO members	Mr. Minoru Arai, JWA		
11:25 – 12:00	Plenary Discussion	NARBO Secretariat		
12:00 – 14:00	Lunch Break and networking			
14:00 – 14:40	Introduction of New Members	MC; Ms. Hiromi Yamashita, JWA		
14:00 – 14:35	Introduction of New NARBO Members Recognition, introduction and approval – by NARBO Secretariat	Mr. Wouter T. Lincklaen Arriens, ADB (TBC)		
	<i>Ca River Basin Management Council, Vietnam</i>			
	<i>Cau River Basin Planning Subcommittee, Vietnam</i>			
	<i>Civil Engineering Research Institute for Cold Region(CERI), Japan</i>			
	<i>The International Centre for Integrated Mountain Development (ICIMOD) , Nepal</i>			
	<i>Water and Energy Commission Secretariat (WECS), Nepal</i>			
	<i>Orissa Water Planning Organization(OWPO) , India</i>			
	<i>Davao Help, Philippines</i>			
	<i>Center for River Basin Organizations and Management (CRBOM), Indonesia</i>			
	<i>Nam Ngum River Basin Committee (NNRBC), Lao PDR</i>			
	<i>Nam Theun-Nam Kading River Basin Committee Secretariat, Lao PDR</i>			

Time	Activity/Agenda	Acting Person	Venue	Remarks
	<i>Yellow River Conservation Committee(YRCC), PRC</i>			
14:35 – 14:40	Remarks by NARBO secretariat	Mr. Wouter T. Lincklaen Arriens, ADB		
14:40 – 16:00	Briefing on New Programs 2010-2011	Chaired by NARBO Chairperson and Vice Chair Person		
14:40 – 14:50	Outlook on NARBO's Program 2010-2011	Mr. Katsuaki Kawano, JWA		
14:50 – 15:00	Briefing on Action Program 2010-2011	Mr. Minoru Arai, JWA		
15:00 – 15:05	Briefing on Study Visit and ADB and Partner Conference 2010	TBC, ADB		
15:05 – 15:15	<i>Investment in Water Security in River Basins (TBD)</i>	<i>Mr. Wouter T. Lincklaen Arriens, ADB</i>		<i>Please add if there are any specific events.</i>
15:15 – 15:25	NARBO IWRM Training & Technical Advisory Committee	Mr. Tadashige Kawasaki, JWA		
15:25 – 15:30	Thematic Workshop on Water Quality	Mr. Tomomi Yamashita, JWA		
15:30 – 15:40	Activities in NARBO by Knowledge Partners	TBC (knowledge Partner)		
15:40 – 16:00	Wrap up session, plenary discussion with comments and commitments by NARBO members – led by NARBO Secretariat	NARBO Secretariat		
16:00 – 16:20	Coffee Break and networking			
16:20 – 17:15	Charter Revision, New Constitutional Body & Closing Session	Chaired by NARBO Chairperson and Vice Chairperson		
16:20 – 16:35	NARBO Charter Revision	NARBO Secretariat		
16:35 – 16:50	NARBO Constitutional Body 2010-2011 Nomination and approval	NARBO Secretariat		
16:50 – 16:55	Acceptance remarks by new chair	New Chair		
16:55 – 17:05	Look Forward by new NARBO constitutional body	New Chair New Vice Chair Secretary general New Vice Secretary General		
17:05 – 17:10	Comments	Dr. M. Baski Hadimuljonot		
17:10 – 17:15	Closing	Mr. K.W. Ivan De Silva		
17:15 – 17:30	Photo session			
17:40 – 18.40	Technical Advisory Committee (TAC)		<i>Please arrange the room for TAC.</i>	<i>NARBO Secretaria & TAC member only</i>
19:00 – 21:30	Farewell Dinner	CRBOM	TBD	
Day 5 Participants Departure				
Saturday 23 Feb	Check out and Departure			



1st NARBO IWRM Executive Retreat on Leadership in River Basins

20 – 22 June 2011, Malang, Indonesia

Program

Day 1 (20 June 2011)

Opening

- 8:15 –8:25 Opening line of the ceremony
- 8:25 –8:30 Welcome remarks by Mr. Tjoek Walujo Subijanto
- 8:30 –8:40 Opening remarks by Mr. Keizrul Bin Abdullah
- 8:40 –8:50 Signing ceremony of the memorandum of understanding between CRBOM, Research Center of Water Resources and PJT 1 under the auspices of the Minister of Public Works, Indonesia
- 8:50 –9:20 Keynote Speech by H.E. Mr. Djoko Kirmanto, Minister of Public Works, Indonesia
- 9:20 –9:30 Photo Session
- 9:30 –10:00 Break and Networking

Theme 1: Leadership Case Studies: Learning from Experience

Moderators: Mr. Ravi Narayanan and Mr. Wouter Lincklaen Arriens

- 10:00 –10:45 Special Session I: Presentation on leadership for IWRM at Japan Water Agency – Lessons from Chikugo river basin, Great East Japan Earthquake and Integrated Flood Operation in Kizu River by Mr. Yasuro Nakajo
- 10:45 –12:15 Short (15 min) Presentations and Panel Discussion (60min)
- 12:15 –13:45 Lunch and Networking
- Moderators: Mr. Slamet Budi Prayitno and Ms. Marisha Wojciechowska-Shibuya
- 13:45 –15:15 Short (15 min) Presentations and Panel Discussion (60min)
- 15:15 –15:45 Break and Networking

Moderators: Mr. Xiaoliu Yang and Mr. Keizrul Bin Abdullah

- 15:45 –17:00 Special Session II: Learning from Leadership in the Brantas River Basin
- Short (15 min) Presentations and Panel Discussion (60min)

Day 2 (21 June 2011)

Moderators: Mr. Wouter Lincklaen Arriens and Mr. Xiaoliu Yang

- 8:30 –10:00 Short (15 min) Presentations and Panel Discussion (60min)
- 10:00 –10:30 Break and Networking

Moderators: Ms. Marisha Wojciechowska-Shibuya and Mr. Slamet Budi Prayitno

- 10:30 –12:00 Short (15 min) Presentations and Panel Discussion (60min)
- 12:00 –13:30 Lunch and Networking

**Theme 2: How Can Water Leadership Be Nurtured and Expanded?
How Can NARBO Support A Water Leaders Program for
IWRM in the Region?**

Moderators: Mr. Keizrul Bin Abdullah and Mr. Ravi Narayanan

13:30 –14:45 Panel Discussion: How can NARBO support a water leaders program for IWRM in the region?

14:45 –15:15 Break and Networking

Moderators: Mr. Wouter Lincklaen Arriens and Ms. Marisha Wojciechowska-Shibuya

15:15 –16:30 Panel Discussion: How can the leadership be applied to programs and projects?

16:30 –17:00 Discussion: The Way Forward

Day 3 (22 June 2011)

Study Visit to the Brantas River Basin



FIELD TRIP SCHEDULE

NARBO Executive Retreat and International Seminar on Corporate RBO

22 June 2011

No.	Time	Itinerary	Venue	Remark	Time Allocation	Guider
1	07.15-08.00	Participant checkout from Santika & Regent Hotel, Malang			45 Minutes	Team
2	08.00-09.00	Journey to Sutami Damsite			60 Minutes	Team
3	09.00-10.00	Sutami Reservoir	Sutami View Building & Dam site	Brief explanation on the Sutami Reservoir	60 Minutes	Chief of Water Service Division I
4	10.00-12.00	Journey to Brantas Origin			120 Minutes	Team
5	12.00-14.00	Arboretum of Brantas Origin	Arboretum office & Brantas's Spring	Lunch, Observe to Brantas's spring, Tree planting	120 Minutes	Chief of Water Service Sub-Division I/1
6	14.00-15.00	Journey to Selorejo Park & Resort	Selorejo park & resort		60 Minutes	
7	15.00-17.00	Selorejo and Reservoir	Dam site & Selorejo View Building	Welcome drink & Brief explanation on the Selorejo Reservoir	120 Minutes	Chief of Water Service Division II
8	17.00-19.00	Check-in & Relax				Manager of Selorejo Park & Resort
9	19.00-20.00	Dinner				



International Seminar on Corporate River Basin Organizations in Asia

22–24 June 2011, Malang, Indonesia

Program

Day 1 (22 June 2011)

Study Visit to the Brantas River Basin

Day 2 (23 June 2011)

8:15 –8:45 Registration

Opening

8:45 –9:05 Opening remarks and Welcome remarks

Session 1: Existing RBO Types in Asia: Strengths and Weaknesses

Moderators: Mr. Slamet Budi Prayitno and Ms. Salmah Zakaria

9:05 –9:20 Short Presentation by Mr. Tue Kell Nielsen

9:20 –10:15 Panel Discussion: What are the Strengths and Weaknesses?

- ❖ What is the membership?
- ❖ What is their organizational management?
- ❖ How do they manage their financing?
- ❖ How do they involve stakeholders in decision making process towards beneficial outputs for all?

10:15 –10:45 Break and Networking

Session 2: Experience of Corporate and Quasi-Corporate RBOs

Moderators: Mr. Ravi Narayanan and Mr. Slamet Budi Prayitno

10:45 –11:00 Short Presentation by Mr. Tue Kell Nielsen

11:00 –12:15 Panel Discussion: Learning Corporate and Quasi-Corporate RBOs

- ❖ What's the difference between corporate and quasi-corporate RBOs?
- ❖ What are the benefits of corporate/quasi-corporate RBOs?
- ❖ What are the necessary conditions?

12:15 –12:25 Photo Session

12:25 –14:00 Lunch and Networking

Moderators: Mr. Keizrul Bin Abdullah and Mr. Xiaoliu Yang

14:00 –15:00 Short (10min) Presentations: Learning from RBO Champions

15:00 –15:30 Break and Networking

15:30 –17:00 Panel Discussion: Learning from RBO Champions

- ❖ How did you choose your corporate/quasi-corporate RBOs?
- ❖ What was the momentum to set up the RBOs? What were the obstacles?

- ❖ How do the RBOs manage financing? How do they collect fees?
- ❖ How can the RBOs contribute to increase triple bottom line (economic, environmental, and social) benefits in the basin?

Day 3 (24 June 2011)

Session 3: How Can Governments Determine An Appropriate Model?

Moderators: Mr. Xiaoliu Yang and Ms. Salmah Zakaria

8:30 –8:45 Short Presentation by Mr. Tue Kell Nielsen

8:45 –9:45 Panel Discussion: What are the conditions to determine?

- ❖ What is an appropriate model for their development stage?
- ❖ What are the steps to set up new RBOs?
- ❖ How can you decide to change RBO types?
- ❖ What capacity development and financing scheme are needed?

9:45 –10:15 Break and Networking

Moderators: Mr. Slamet Budi Prayitno and Mr. Keizrul Bin Abdullah

10:15 –11:30 Panel Discussion: How can academia and development agencies support?

- ❖ How can academia support?
- ❖ How can development agencies support?

11:30 –13:30 Lunch and Networking

Moderators: Ms. Salmah Zakaria and Xiaoliu Yang

13:30 –15:00 Panel Discussion: How are you going to do?

- ❖ How are you going to determine RBO type?
- ❖ How are you going to implement?
- ❖ What support do you need?

15:00 –15:30 Break and Networking

Session 4: The Way Forward

Moderators: Mr. Keizrul Bin Abdullah and Mr. Slamet Budi Prayitno

15:30 –16:30 Panel Discussion: The Way Forward

- ❖ How can NARBO support to determine RBO type?
- ❖ What can NARBO further support for their IWRM process?

Closing

16:30 –17:00 Closing



FIELD TRIP SCHEDULE

NARBO Executive Retreat and International Seminar on Corporate RBO
22 June 2011

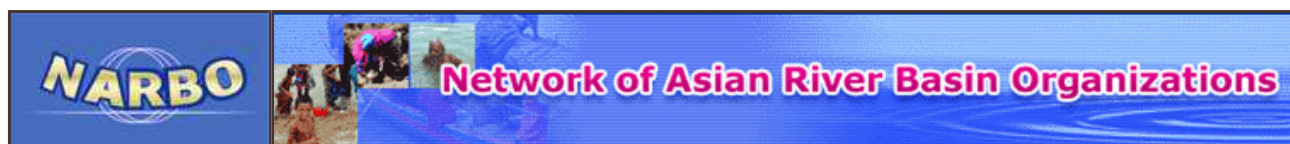
No.	Time	Itinerary	Venue	Remark	Time Allocation	Guider
1	07.15-08.00	Participant checkout from Santika & Regent Hotel, Malang			45 Minutes	Team
2	08.00-09.00	Journey to Sutami Damsite			60 Minutes	Team
3	09.00-10.00	Sutami Reservoir	Sutami View Building & Dam site	Brief explanation on the Sutami Reservoir	60 Minutes	Chief of Water Service Division I
4	10.00-12.00	Journey to Brantas Origin			120 Minutes	Team
5	12.00-14.00	Arboretum of Brantas Origin	Arboretum office & Brantas's Spring	Lunch, Observe to Brantas's spring, Tree planting	120 Minutes	Chief of Water Service Sub-Division I/1
6	14.00-15.00	Journey to Selorejo Park & Resort	Selorejo park & resort		60 Minutes	
7	15.00-17.00	Selorejo and Reservoir	Dam site & Selorejo View Building	Welcome drink & Brief explanation on the Selorejo Reservoir	120 Minutes	Chief of Water Service Division II
8	17.00-19.00	Check-in & Relax				Manager of Selorejo Park & Resort
9	19.00-20.00	Dinner				

Personal Exchange Programme on Twinning Program between JWA and VN NARBO (Aug.2011)

Day	Chief of JWA	Accomoda tion	Officer of JWA	Group from MLIT, Japan	Accomoda tion
Sep 1 Thu					
2 Fri	(National Holiday of Vietnam)				
3 Sat					
4 Sun					
5 Mon	Fly to Hanoi				
6 Tue	Visit MARD-DWR: Meeting on arrangement of overall schedule Setting up the working place	Hanoi		Site visit of the Red River Basin --- issues of large-small dam, sedimentation and water quality etc.	
7 Wed	10:00 Information exchange on asset management and institution with MARD	Hanoi		Information exchange	
8 Thu	Information exchange on asset management and institution and basin information with MARD, related organizations, researcher	Hanoi		Communication on the schedule of MLIT's visit	
9 Fri	Site visit of the red River Basin	Hanoi			
10 Sat	Communication on the schedule of MLIT's visit (Visit embassy of Japan, JICA and others)	Hanoi			
11 Sun	Fly to TT Hue	TT Hue	Fly to TT Hue		
12 Mon	Information exchange on asset management and basin information	TT Hue			
13 Tue	Site visit (the site will be selected from Quang Tri or TT Hue)	TT Hue			
14 Wed		Hanoi	Accompanying with Sasahara		
15 Thu	Fly to Hanoi	Hanoi			
16 Fri	Reading documentation and report writing for recommendation at MARD	Hanoi			
17 Sat	Fix the schedule of MLIT's visit	Hanoi			
18 Sun					
19 Mon	Ocasional date / documentation	Hanoi			
20 Tue	Ocasional date / documentation	Hanoi			
21 Wed	Ocasional date / documentation	Hanoi	Accompanying with Sasahara		
22 Thu		Hanoi		Fly to Hanoi	Hanoi
23 Fri		TT Hue	Night flight	Fly to TT Hue and site visit	TT Hue
24 Sat		TT Hue	Arrival at Japan	Site visit and interview to concerned organizations	TT Hue
25 Sun	Accompanying with MLIT	Hanoi		Fly to Hanoi	Hanoi
26 Mon		Hanoi		Meeting with MARD	Hanoi
27 Tue		Hanoi		Site visit at near Hanoi	-
28 Wed	Ocasional date / documentation	Hanoi		Arrival at Japan	
29 Thu	Ocasional date / documentation	Hanoi			
30 Fri	Ocasional date / documentation	-			
Oct 1 Sat	Arrival at Japan				

Personal Exchange Programme on Twinning Program between JWA and VN NARBO (Nov.2011)

Date	Time	Schedule	Contents	Transportation	Accommodation
15 (Tue) Day1	0:05	Noi Bai(Hanoi) -> Nagoya (Hanoi)(arr. 6:40) VN966 Move to the Hotel at Kuwana cityMie Prefecture	Move to JWA Chubu regional headquarter Rest at the Hotel	By Air By Train	Nagoya
16 (Wed) Day2	8:00 9:00 12:00 14:00 17:00	Leave the hotel Arrive at the Nagaragawa estuary barrage Lunch at Nagaragawa office Mie canal office Leave Mie canal office	Introduction of project and site visit (Aqua plaza) Water Resources Development of small rivers Site visit : Reservoir and canal	By Bus	Nagoya
17 (Thu) Day3	8:00 11:00 12:30 15:00 15:30 16:00	Leave the hotel Arrive at Kiofukushima town Makio dam Leave Makio dam Viewpoint of Ontake Mt. Leave for Hotel	Old Town in Mountain area Water source of Makio dam	By Bus	Nagoya
18 (Fri) Day4	8:00 9:00 11:00 11:50 12:00 14:23	Chech out hotel & leave for Aichi canal office Arrive at Aichi canal office Leave for Regional HQ Courtesy call to Chubu regioanl HQ Lunch and leave for Nagoya station Move to Tokyo (Arriv. @ hotel, Ikebukuro 16.00 pm)	History of project (initiation - rehabilitation) Small scale hydropower and O&M of canal project Daily O&M on dam and canal Operation control center (Centralized management) PIM in Japan	By Bus By Train	 Tokyo
19 (Sat) Day5					Tokyo
20 (Sun) Day6					Tokyo
21 (Mon) Day7	8:30 9:30 17:00	Leave Hotel Tour of Tone Canal project and Ara River JWA HQ-> Move to Ikebukuro station (dinner)	Brief of Tone canal project Lake "Sai" of Ara River Disaster control room	By Bus	Tokyo
22 (Tue) Day8	8:20 10:00 15:00	Leave hotel NEC : Introducing technology JRC : Introducing technology (-17:00)	Tour to water-related equipment manufacturers		Tokyo
23 (Wed) Day9		TBD (visit CTI), then free day	Tour to water-related consultant company		Tokyo
24 (Thu) Day10	7:00 10:25	Leave hotel for Narita intl. Airport Narita(Tokyo)->Noi Bai (Ha Noi) (arriv. 13:50pm)		By Air	



[Top](#) |
 [What's NARBO](#) |
 [NARBO Activities](#) |
 [Database](#) |
 [Newsletter](#) |
 [Links](#)

NARBO Newsletter 21th Issue

September 2010



Topics

News	<ul style="list-style-type: none"> ● Report of river basin study visit, Spain, 18-24 May 2010 ● Cooperation between JWA and Integrated Flood Management (IFM) HelpDesk managed by World Meteorological Organization(WMO)
Information	<ul style="list-style-type: none"> ● The 4th General Meeting
From Secretariat	<ul style="list-style-type: none"> ● New Member of NARBO - Orissa Water Planning Organization(OWPO) - ● Newcomer

News

Report of river basin study visit, Spain, 18-24 May 2010

by Tadashige Kawasaki, Asian Development Bank Institute

River basin study visit was organized by ADB, ADBI and Government of Spain (Ministry of Economy and Finance and Ministry of Environment) on 24-28 May 2010 in Madrid and Zaragoza, Spain. Around 20 senior officials from the NARBO member organizations and water related organizations in Asia participated. The objectives of the study visit are to 1) exchange experiences and case studies on IWRM in Asian and European countries, 2) explore ways to improve water security in Asia, and 3) strengthen networking among participants, speakers and partner organizations. ([>>See more](#))

[▲ top](#)

Cooperation between JWA and Integrated Flood Management (IFM) HelpDesk managed by World Meteorological Organization(WMO)

by Tomoyuki Okada – World Meteorological Organization & Minoru Arai – Japan Water Agency

On the request of the World Meteorological Organization (WMO), the Japan Water Agency (JWA) decided to cooperate as Support Base Partner with the Integrated Flood Management (IFM) HelpDesk that is managed by WMO.

Established in June 2009, by Technical Support Unit in the Hydrology and Water Resources Branch of WMO, the IFM HelpDesk is supported by a number of cooperative organizations (Support Base Partners).

The Support Base Partners provide voluntary services to give technical advice and guidance in the development of integrated flood management policy, strategy and institutional reform. These services are demand-driven and are channeled through the HelpDesk facility. ([>>See more](#))

[▲top](#)

Information

The 4th General Meeting

by NARBO Secretariat

The 4th NARBO General Meeting (hereinafter referred to as "GM") will be held on Nov.9-12 at Clarion Hotel & Convention Makassar in Makassar, Indonesia. The outline of GM is shown bellow. ([>>See more](#))

[▲top](#)

From the secretariat

New Member of NARBO - Orissa Water Planning Organization (OWPO) -

Orissa Water Planning Organization formed under the Engineer-in-Chief, Planning & Design of Department of Water Resources for assessment of Water Resources of Eleven River Basins of the State. The organization is headed by the Chief Engineer with two Directors of Hydrology & Water Planning and Water Services. They are supported by five Deputy Directors and fifteen Assistant Directors along with other Technical & Administrative positions. ([>>See more](#))

[▲top](#)

Newcomer

NARBO secretariat is glad to introduce new secretariat staff, Kenji Someya, Katsunori Takagi and Minoru Arai. They are staff of JWA and they would like to keep close relationship with NARBO members more than ever.(>>[See more](#))

[▲top](#)



Network of Asian River Basin Organizations

Headquarters of the secretariat: International Affairs Division, Japan Water Agency (JWA)
Land Axis Tower, 11-2 Shintoshin, Chuo-ku, Saitama City, 330-6008, Japan TEL: +81-48-600-6553 / FAX: +81-48-600-6509 E-mail: narbo@water.jp

NARBO Newsletter is produced by the Narbo Secretariat to provide current information about NARBO activities to readers who are interested in IWRM issues specifically in Monsoon ASIA.

For comment/information/inquiry, please contact narbo@water.jp Thank you for your cooperation!

Copyright © 2004-2011 Network of Asian River Basin Organizations (NARBO). All rights reserved.

MESSAGE FROM THE SECRETARY GENERAL



Good to see you. I, Hisao INOUE was nominated for the Acting Secretary General in October 2011 as the successor of Mr. Katsuaki KAWANO. I experienced waterworks of huge population city, Saitama, in Japan.

I am glad to deliver all of you that Annual Report 2010 / 2011 was published in cooperation with you. This Annual Report is the 7th issue. 8 years have been passed since the first one was published in 2004. Following the past years, NARBO has steadily produced good results in its activities. In addition, the numbers of organizations joining NARBO has increased significantly from 43 organizations from 11 countries just after the 1st General Meeting in 2004, to 76 organizations from 17 countries, as of February 2013.

In 2010, NARBO 4th General Meeting was conducted in Indonesia, and the number of Vice Chairperson was increased from 1 seat to 3 seats in order to encourage NARBO Activity I think this change brings us great success. Because we obtain various suggestions and inputs from excellent NARBO officials, and exchanging knowledge and opinions were promoted more than the past because of strong leadership of NARBO officials.

In March 2011, Japan was faced triple disasters, earthquake, tsunami, and nuclear accident. It was quite hard challenges for Japanese. Some water-related facilities of JWA were damaged by the earthquake. JWA paid huge efforts to recover the severe damages caused by the triple disasters. I realized these experiences should be shared to NARBO members. Asian countries have still many challenges, natural disasters, population increasing, environmental problems, and so on. I strongly think we should share various experience and knowledge in order to cope with these challenges.



In June 2011, NARBO organized “1st NARBO IWRM Executive Retreat on Leadership in River Basins” and “International Seminar on Corporate River Basin Organizations in Asia”. It was quite useful events. To analyze and abstract key for success of leadership and RBOs is quite essential topic to lead IWRM successfully in each countries. Secretariat of NARBO are planning to hold next events which will focus on “Leadership” and “RBOs”,

To promote IWRM effectively, NARBO is trying to conduct various cooperation activities with other water-related networks and/or institutes. In September 2011, NARBO co-organized joint session on Water Quality Management in River Basins with Integrated Water Resources Management with WEPA, Water Environment Partnership in Asia for the purpose of involvement for element of IWRM. I think these kinds of cooperation should be encouraged in the future.

NARBO shows good progress on dissemination of IWRM into not only Asian region but also other regions. But I think NARBO should seek for much better, more effective improvement. To achieve that, I would like to request all of NARBO members to give us your suggestions and opinions on NARBO activities.

NARBO is a Network, therefore, NARBO activities are encouraged by your actively and voluntary participation. I think NARBO will contribute to achieve sound and sustainable IWRM. So, let us make relationship more deeply each other and work together more closely.

I am looking forward to seeing all of you and working with you for our future.

February, 2013

Acting Secretary General of NARBO

A handwritten signature in black ink, consisting of the Japanese characters "井上 久夫" (Inoue Hisao).

Mr. Hisao Inoue





Secretariat

Japan Water Agency (JWA)

Head Quarters : Land Axis Tower, 11-2 Shintoshin,
Chuo-ku, Saitama City, 330-6008, Japan
Tel : +81-48-600-6553 Fax : +81-48-600-6509

Asian Development Bank (ADB)

Head Quarters : 6 ADB Avenue, Mandaluyong
City, 1550, Philippines
Tel : +632-632-4444 Fax : +632-636-2444

Asian Development Bank Institute (ADBI)

Kasumigaseki Building 8F, 3-2-5, Kasumigaseki,
Chiyoda-ku, Tokyo, 100-6008, Japan
Tel : +81-3-3593-5500 Fax : +81-3-3593-5571

Center for River Basin Organizations and Management (CRBOM)

Balai Sungai Solo (Experimental Station for River)
Jl. Solo-Kartasura Km.7 Solo 57101, Indonesia
Tel : +010-62-271 719429 Fax : +010-62-271 716406