

NARBO ANNUAL REPORT

Network of Asian River Basin Organization

2010 / 2011

Two Years' Numbers Bound Into One Volume



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FOREWORD



First of all, I would like to thank all NARBO members for the trust and support to NARBO activities in 2010 & 2011. Since I was elected as NARBO Chairperson at the 4th General Meeting in Solo, Indonesia last February 2008, I have supported and was part of many activities as a response to the member's requirement, which are in line to NARBO's action plan.

Looking back at the NARBO activities in 2009, for the activity on IWRM training program, 11 training courses were successfully carried out in Viet Nam in February and December, respectively. As well as the activity on Technical Advisory Committee (TAC) to provide guidance to ensure quality of NARBO's IWRM Training Program, and on the occasion of NARBO's activities, the 2nd Technical Advisory Committee Meeting was held in Singapore in June. Personnel exchanges based on the twinning program between the Japan Water Agency (JWA) and the Mahaweli Authority of Sri Lanka, on the one hand, and JWA and the Ministry of Agriculture and Rural Development of Viet Nam, on the other, were also conducted. Moreover to provide an overview of good practices and lessons learned on IWRM related activities, the 16th, 17th and 18th newsletters were issued in March, April and August respectively with the active contributions from NARBO members.

NARBO has substantially contributed to the formulation of IWRM Guidelines at River Basin Level, which was organized by UNESCO and launched at the 5th World Water Forum in Istanbul, in March 2009. The set of Guidelines were used as reference material in the 6th IWRM training. As a member of the Steering Committee in preparing the Guidelines, I would like to inform that we are currently discussing to publish another volume which would tackle "environment" and "climate change". It is expected that NARBO's IWRM training will benefit and be

more productive with the application of these additional volumes.

Water Security is a pressing issue in most of our member basins, therefore Asian Development Bank (ADB) and JWA has signed a letter of intent (LOI) in January 2009 to collaborate in improving water security in river basins, which would among others conduct demonstration projects to improve water security in river basins in the region with long-term investment roadmaps and good practice that could be replicated in the region. NARBO expects to extend its activities to improve water security in collaboration with KnowledgeHubs under the auspices of the Asia-Pacific Partnership, especially with the Center for River Basin Organizations and Management (CRBOM), Indonesia. Initial activity is expected to include research and comparative analysis of needs, practice and experience on IWRM in the region.

According to the Status Report on IWRM completed by UN-Water in May 2008, the progress of implementing IWRM is not satisfy yet. Besides, it is anticipated that extreme events such as “flood” and “drought” will occur more frequently due to global climate change. Therefore collaboration with other initiatives need to be more activated. It has been six years since NARBO was established, and I am confident that NARBO will continue to progress to improve the quality of its activities and achieve its objectives.

I hope that the Management Report of 2009 will serve as a valuable input to improve and enhance your activities in achieving IWRM in your river basins.

Chairperson of NARBO

*Sign Of
Keizrul*

Mr. Keizrul Bin Abdullah

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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 Besar 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)

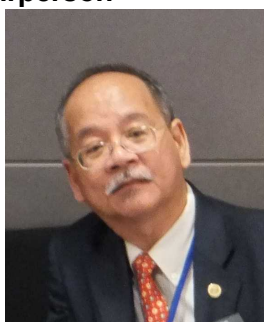
Classification		Country/Region		Organization	
Member	RKP	Southeast Asia	M	Global Water Partnership (GWP) SEA RWP	
		South Asia	M	Global Water Partnership (GWP) SAS RWP	
		South Asia	M	South Asia Network of River Basin Organization (SASNET-RBO)	
		South Asia	M	The Capacity Building Network for Integrated 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 Muda 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. Kenji Someya
(April 1, 2010 -)
(Director, International Affairs Division, JWA)
Mr. Wouter Lincklaen Arriens
(February 24, 2004 -)
(Lead Water Resources Specialist, ADB)

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	Twining Program between JWA and MALS	- 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	Twining Program between JWA and MALS	- Exchange of personnel implemented on November 15 - 24	B.b.1
	December	International Workshop on Water & History		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.

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.



Fig-1 NARBO Website

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 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



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)

この記事、2012年3月のネタであり、可能なら2010～2011年ネタが良い。



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.

(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, (Malang, 20-22 June 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.

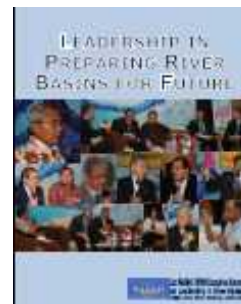
H.E. Mr. Djoko Kirmanto, Minister of Public Works, Indonesia gave his welcome remarks.

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 trough 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. Twining 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: Small scale hydro power



Photo: Misogawa dam in Nagano Prefecture



Photo: Vegetable shop without shop seller.

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

(Reported by Hideshi Sasahara of JWA)

Photo: Aichi canal site

Baselines

BASELINE 1

Network of Asian River Basin Organizations (NARBO)

CHARTER

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

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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 Adviser 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
<p><i>Activities led by the NARBO Secretariat:</i></p> <p>1. NARBO Website (http://www.narbo.jp)</p> <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 topics • Provides links to NARBO member websites, e-newsletters, online databases, and other related sites 	<ul style="list-style-type: none"> • Continue regular updates • Introduce on-line forum to enhance information and knowledge sharing 	<p>JWA</p>	<ul style="list-style-type: none"> • Members to provide stories, cases, articles, and links

<p>2. NARBO e-Newsletter</p> <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 	<p>JWA</p>	<ul style="list-style-type: none"> • Members to send contributions
<p>3. Guidelines and Online data base</p> <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 	<p>ADB, JWA, ADB, CRBOM, Knowledge Hubs</p>	<ul style="list-style-type: none"> • Members to provide reference materials
<p>4. NARBO Annual Report</p> <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 	<p>JWA</p>	<ul style="list-style-type: none"> • RBO Members to submit their annual reports no later than end March
<p>5. NARBO Promotion</p> <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 	<p>NARBO Secretariat, Chair, Indonesia NARBO</p>	<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

<p>6. NARBO General Meeting</p> <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 	<p>Chair, Vice-Chair, NARBO Secretariat</p>	<ul style="list-style-type: none"> Members to participate and share their knowledge
<p>Activities led by NARBO Member Organizations:</p>			
<p>1. NARBO members' websites</p> <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 	<p>Members</p>	<ul style="list-style-type: none"> Members to develop and maintain modern websites
<p>2. NARBO members' Annual Report</p> <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 	<p>RBO Members</p>	<ul style="list-style-type: none"> RBO members to invest in useful annual reports

<p align="center">B. Capacity Building in River Basin Organizations (RBOs)</p>			
<p align="center">Activity</p>	<p align="center">Implementation Plan</p>	<p align="center">Lead Agency</p>	<p align="center">Note</p>
<p>Activities led by the NARBO Secretariat:</p>			
<p>1. IWRM Training Program</p> <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 	<p>JWA, ADB, ADBI, CRBOM, Technical Advisory Committee, Knowledge Hubs</p>	<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

	<p>be discussed at the TAC meeting and conducted from 2011</p> <ul style="list-style-type: none"> • Conduct once or twice a year 		
<p>2. Workshops</p> <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 	<p>JWA, ADB, ADBI, CRBOM, Indonesia NARBO, Knowledge Hubs</p>	<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
<p>3. Performance Benchmarking supported by peer reviews</p> <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 	<p>CRBOM, with support from ADB and other partners</p>	<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
<p>4. Advisory visits to RBOs</p> <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 	<p>JWA, ADB, ADBI, CRBOM, Knowledge</p>	<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
<p>1. Technical Advisory Committee</p> <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
<p>2. Knowledge Networking</p> <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 Lol 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. Graitia Sutadi	Head
4			Indonesia	Pompengan 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 Sampelan 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 Management 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 Rebueta 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 Chinnavaso	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	Executive 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 Anukularmphai	President
19		People's Republic of C	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 collapase	
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 coments & 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 Dicussion	<ul style="list-style-type: none"> - PJT1 (Indonesia) - MASL (Sri Lanka) - Bang Pakong (Thailad) - 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 Dicussion	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
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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	Accommodation	Officer of JWA	Group from MLIT, Japan	Accommodation
Sep 1 Thu					
2 Fri	(National Holiday of Vietnam)				
3 Sat					
4 Sun					
5 Mon	Fly to Hanoi				
6 Tue	8:30 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				
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 Kisofukushima 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 Tour to water-related consultant company		Tokyo
23 (Wed) Day9		TBD (visit CTI), then free day			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
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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](#))

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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](#))

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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](#))

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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](#))

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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](#))

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Network of Asian River Basin Organizations

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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!

MESSAGE FROM THE SECRETARY GENERAL



I am really pleased to announce to all of you that Annual Report 2010 / 2011 was published with your great cooperation. This Annual Report is the 7th issue since the first issue was published in 2004. During these 8 years, NARBO steadily produced excellent results in its activities, and also the numbers of organizations joining NARBO increased significantly from 43 organizations from 11 countries just after the 1st General Meeting in 2004, become 71 organizations from 16 countries, as of June 2012.

When I look back to 2011, Japan was faced multiple disaster, earthquake, tsunami, nuclear accident. It was quite 6 new organizations joined NARBO. IWRM Guideline announced in the World Water Forum was used effectively in the IWRM training course and earned high evaluation from the participants. Also the twinning programs between JWA and Viet Nam NARBO, and JWA and Sri Lanka NARBO gained practical results. For other activities, we will make NARBO and IWRM Guideline more popular by participating in international meetings and seminars. Also NARBO Secretariat regularly issued the News Letter for 3 times, and updated the website to promote information sharing.

On the other hand, the secretariat considers that we could still improve NARBO activities at some points. For example, we could make NARBO activities more practical and efficient, accumulate new information by exchanging with the other organizations and networks, and show the power of NARBO. The secretariat will make great efforts to tackle these assignments.

Now, I haven't met the members yet since I was nominated for the Acting Secretary General in January as the successor to Mr. Masaru Kubota. So I look forward to having the opportunity to meet you at the 4th GM scheduled to be held in November.

It goes without mentioning that N of NARBO means “Network”, NARBO activities are supported by members’ voluntary participation. In other word, how active members participate in NARBO activities is the key for success for further NARBO development.

I am looking forward to working with all members hard to achieve our goal.

May, 2012
Secretary General of NARBO

Mr. Hisao Inoue

Draft

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