



Meeting of the Parichalana Board of WARPO

The 10th meeting of the Parichalana Board of WARPO was held on 25 October 2009 in the conference room of Ministry of Water Resources. Mr. Romesh Chandra Sen, Hon'ble Minister, Ministry of Water Resources and Chairman of the Parichalana Board presided over the meeting. Alhaj Mahbubur Rahman, Hon'ble State Minister, Ministry of Water Resources was present as special guest. Mr. Shaik Md. Wahid uz zaman, Secretary, MoWR, Ms Riti Ibrahim, Adtional Secretary, MoWR were also presented at the meeting. The following issues were discussed over the meeting:



Hon'ble Minister, MoWR, Hon'ble State Minister, MoWR, Secretary, MoWR and others are seen in the picture

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1. About WARPO & its activities
2. Approval of the minutes of the 9th Parichalana board's meeting
3. Execution of the decisions of 9th Parichalana board's meeting
4. Information about the administrative power of WARPO
5. Information about the new appointments & promotion

The meeting ended with vote of thanks from the chair.

Honourable Minister Visited WARPO

Honourable Minister, Ministry of Water Resources Mr. Ramesh Chandra Sen, MP, paid kind Visit to Water Resources Planning Organization (WARPO) on 10th . June 2009. Mr. Jalauddin Mhohammad Abdul Hye, Director General, WARPO, received the Honorable Minister . Honorable Minister was accompanied by Ms. Riti Ibrahim, Additional Secretary, MoWR. Director General, WARPO,



Hon'ble Minister, MoWR, DG, WARPO and Director(Planning) are seen in the picture

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Hon'ble Minister, MoWR, DG, Director and other WARPO officials are seen in the picture on discussion session.

made a power point presentation on WARPO's mandated tasks and activities, on-going program, achievements and outputs in view of NWPo, NWMP, CZPo and Coastal Development Strategy. Honorable Minister expressed full satisfaction over the performance of WARPO since its creation. He thanked DG, WARPO and all Scientists\ Professionals of WARPO.

Launching Meeting of consultancy services for Maintenance, Updating and Dissemination of National Water Resources Database (NWRD) under Water Management Improvement Project (WMIP)

A Launching meeting of consultancy services for Maintenance, Updating and Dissemination of National Water Resources Database (NWRD) was held on June 4, 2009 at WARPO conference room to introduce the project component and to establish the connectivity between WARPO and key stakeholders in respect to the project work.

Ms. Riti Ibrahim, Additional Secretary, Ministry of Water Resources, Government of the People's Republic of Bangladesh graced the occasion as the Chief Guest and Mr. Jalaluddin Md. Abdul Hye, Director General, WARPO chaired the launching meeting. 53 esteemed officials from different organizations namely BADC, BARC, BARI, BBS, BFD, BHWDB, BIDS, BMD, BUET, BWDB, CEGIS, DAE, DMB, DoFi, DPHE, DWASA, IWM, JRC, LGED, MoWR, RRI, SPARRSO, SRDI, and WARPO were present and made the occasion lively with their valuable suggestions and expectations on NWRD in open discussion session.



Ms. Riti Ibrahim, Additional Secretary, MoWR, Mr. Jalaluddin Md. Abdul Hye, DG WARPO and esteemed representatives from stakeholder organizations in NWRD launching meeting on June 4, 2009

Inception Meeting on consultancy services for Maintenance, Updating and Dissemination of National Water Resources Database (NWRD) under Water Management Improvement Project (WMIP)

The Draft Inception Report for Maintenance, Updating and Dissemination of National Water Resources Database (NWRD) submitted on 15 June, 2009. The draft report was distributed among different stakeholder organizations including MoWR and WARPO professionals for their feedback on the issue.

On 24 June 2009, an Inception Meeting was arranged at WARPO conference room to share the approach, methodology, work plan

etc, of the Draft Inception Report with the related stakeholders. Dr. Nilufa Islam, Director (Technical) and Convener of the NWRD Reports/Bulletin Evaluation and Finalization Committee of WARPO presided over the meeting. 37 representatives from different organizations namely BADC, BARC, BARI, BFD, BMD, BUET, CEGIS, DoE, DoFi, DMB, IWM, JRC, LGED, SoB, SPARRSO, SRDI, WMIP-PCU, World Bank and WARPO were participated in the meeting and made their valuable comments on the draft Inception Report.



Dr. Nilufa Islam, Director (Technical), WARPO and representatives from stakeholder organizations are seen in the NWRD Inception Meeting on June 24, 2009 at WARPO

Twinning Committee -XXIV Visited Water Resources Planning Organization (WARPO)

The Dutch Twinning Committee -XXIV visited Bangladesh from 14-25 June 2009. During their stay in Bangladesh, WARPO had actually two-days session with the mission members on 17 & 23 June 2009. Mission was comprising of two members, Mr. Tom V Wekken, Team Leader and Dr. Jaap de Heer. The Mission had a first preliminary meeting with Mr. Jalaluddin Mohd. Abdul Haye, Director General, WARPO on 17 June, 2009 at 9:30 A.M. He briefed the Team Leader about overall progress and problems of WARPO activities in connection with action plan of Organizational Development Plan (ODP) .eg. Clearing house functions, Monitoring & Evaluation, ICZM second phase activities, Revision of Water resources Planning Act of WARPO, Draft Water Act (2008), Updating Status of NWMP, Progress of WARPO WMIP Components (Package-S1 &S2). After briefing session with Director General, Twinning Committee members had a day-long session with Taskforce Members which was chaired by Mr. Md. Shahjahan, Director Planning & Taskforce Coordinator, Twinning Committee, WARPO as of ToR of present Twinning Committee:

Progress of WMIP project Activities, especially the Institutional aspects and HRD

Review progress Taskforce Activities of WARPO & Consultation session with sub-groups

Strategic Advice of TC-23 and follow up Activities

The second session was commenced at 10:30 a.m.,with the overall presentation from the chair reflecting summary progress of six sub-groups and Regional Technical assistance (RETA) Study output .eg. status of Water Act(2008), NWMP updating road map and progress on ICZM second phase activities. After overall presentation, six sub-group presentations which is organized under six main implantation role of WARPO as below, was presented by subgroup leaders:

Apex Planning\Macro Planning

Monitoring & Evaluation

Clearing House



Mr. Md. Shahjahan, Director (Planning) and TF Coordinator, is conducting the Dutch Training Mission Meeting.

Human Resources Development (HRD)

Information & Data Support System(IDS)

Program Coordination Unit(PMU)

On 23 June, 2009 Twinning Committee and WARPO had a half day pre-wrap session to discuss and reaching consensus on problems and prospects identified in detailed progress review consultation meeting which was held on 17 June 2009. It was agreed that in the wrap up meeting (which was held in MoWR on 24 June 2009) following main recommendations would be raised:

Present Govt. Choice regarding the water sector, as River Management and especially dredging as a way to train rivers get much attention

In the update of NWMP, an overall vision on river management is needed and WARPO will take care

TM recommends WARPO to really take the lead in ICZM

All these main recommendations were presented in Twinning Committee-24 wrap-up session & discussed.

WARPO official attended the Regional Launch Workshop of Centre for River Basin Organizations and Management (CRBOM) in Solo City, Indonesia

The Regional Launch Workshops of Center for River Basin Organizations and Management was organized by Centre for River Basin Organization and Management (CRBOM) and the Asian Development Bank (ADB) in Collaboration with Network of Asian River Basin Organizations (NARBO) and Asia Pacific Water Forum (APWF) Knowledge Hubs.

This workshop was conducted within the framework of APWF, network of regional Water Knowledge Hubs. The workshop was intended to seek guidance from the participants on proposed work plan, modalities for country assessment, benchmarking of river basin organizations, and preparation of action-oriented river basin development roadmaps, as initiated by NARBO



Bengewon Solo River Basin in Indonesia



Mr. Hasan Parvez, PSO, WARPO in his residence venue of the workshop seen in the picture

The inaugural speech was delivered by Mr. Wouter Lincklaen Arriens, Lead Water Resources Specialist, Asian Development Bank on Completion Workshop of RETA 6351. The TA objectives as pointed out by Mr. Wouter are: Strengthening policy, regulatory and institutional framework for IWRM, Developing and implementing IWRM strategies and Strengthening capacities for IWRM planning and implementation.

After the inaugural speech four participating countries: Bangladesh, Indonesia, Pakistan and Viet Nam made power point presentation on their findings and achievements.

The report from Bangladesh was structured on three pillars of IWRM i.e. Enabling environment, Institutional framework and Management instruments. The main achievements are:

Enabling environment: revise Bangladesh Water Act, Water Resources Planning Act

Institutional framework: reform process for BWDB and WARPO, interagency coordination, water and sanitation sector review

Management instruments: improve data systems, tariff and cost recovery, updating national water management plan

The report finally produces a road map for IWRM implementation. The following actions are included in the road map under the three pillars of IWRM:

- i) Enabling environment: (a). Updating National Policy for Safe Water Supply and Sanitation, (b). Revisiting and Finalizing the National Wetlands Policy, (c). Promulgation of the National Water Act to Enable the National Water Policy (d). Drafting a National Water Code and (e). Legal framework to Ensure Access to Data.
- ii) Institutional Framework: (a). Approving WARPOs Organizational Development Plan, (b). Reviewing and Revising the Water Resource Planning Act (1992).
- iii) Management Instruments: (a). Implementation of NWMP-II Project, (b). Outsourcing Collection and preliminary Processing of Hydrometric Data, (c). Rationalizing data collection Activities, (d). Operationalizing NWRD Guidelines for Data and (e). Managing Data Backup and Archiving.

The report also contains recommendations for ADB's future operational strategy in two broader field, these are i) Water for Agriculture and ii) Water Supply and Sanitation

ADB's Strategy for Water Resource Development highlights some fields of investments in this report, these are: i) Strengthening Local Government Institutions, ii) Updating National Water Management Plan, iii) Agriculture and Water Management, a). Improved Performance of Existing Public Surface Water Irrigation Schemes, b). Participatory Small-Scale Water Resources Development, iv) Coastal Zone Development, v) Flood and River Erosion Mitigation for the Poor, and vi) Urban and Rural Water Supply and Sanitation

Indonesia made their presentation on Implementing IWRM in river basins. Pakistan made their presentation mainly on Strengthening IWRM in Punjab province. Viet Nam focused their findings on implementing IWRM in river basins.

The organizing committee including the representatives of ADB were requested from the participants to continue some assistance to the recently completed RETA 6351 for nourishing the experience gained and achievements made under that TA. There was an assurance from the organizer on continuing this sort of assistance, if there is a positive response from the countries involved in RETA 6351.

Updating of National Water Resources Database (NWRD)

Bangladesh, being a country with abundant of water resources in wet seasons, it needs an up-to-date and reliable database for planning and utilization. The primary objective of establishing the NWRD is to meet the demand of water resource planners by continuous updating of existing database and enhancing it with more information and transforming it to the knowledgebase information. NWRD integrate land use, land cover, climate, environment, socio-economic in conjunction with surface and groundwater hydrology; and use state-of-the-art GIS to maximize data management and decision making in different water issues.

The demand of integrated database outside WARPO is growing over time since the establishment of NWRD. Considering the huge demand of NWRD, the database is being updated with the use of advance methodology along with the metadata and tools. The component 3B-2 of Water Management Improvement Project (WMIP) i.e. 'Maintenance, Updating and Dissemination of National Water Resources Database (NWRD)' is the gateway for further development and enhancement of NWRD. The Project is being implemented over a period of about 7 (seven) years from November 2007 to June 2015.

Some of the worth-mentioning output of the project component 3B-2 of WMIP (Maintenance, Updating and Dissemination of National Water Resources Database) will be,

- Incorporated or updated data layers on hydrology, hydrometeorology, social and environmental and other features and metadatabase for NWRD

- Linkage of the databases of Meghna Estuary Study (MES), Coastal Embankment Rehabilitation Programme (CERP) and Char Development and Settlement Project (CDSP) and other available databases with NWRD as sub-sets

- Updating and upgrading of Integrated Coastal

- Resources Database (ICRD) which is already established in WARPO

- A web-enabled WARPO library system with linkages with other such library system including library systems of BWDB, CEGIS, IWM and other Organizations

- Web enabled metadatabase on the Internet

- Updated data inventory reports containing up-to-date information on the data holdings of different organizations

- Flood maps of different flood frequencies

- Finalization of reports on two (Time Series and Spatial) data quality control guidelines

- Procedures and systems within WARPO for data quality assessment based on Quality Control Guidelines

- Measures for quality improvement of spatial data layers

- Updated and upgraded NWRD tools for searching, viewing and editing

- A guideline to bring the geo-reference base at an adequate level for geo-referencing existing and new images

- Formation of data users and data provider groups

- Data Management Policy and Strategy for NWRD

- Finalization of Data Dissemination Policy

- A web-based Project and Programme MIS (P-MIS) for Clearing House Function of WARPO

- An MIS for Monitoring and Evaluation of NWMP Programmes

- Linkage of NWRD with MIS and P-MIS

WOMEN'S PARTICIPATION IN WATER SECTOR

There is no doubt that life of riverine country like Bangladesh is based on water. Availability of water, in both quantitative and qualitative terms, is a basic human right and sound planning is necessary to ensure it. From past experience, it is clear that water management can not be carried out effectively if the local stakeholders are not involved in the all stage of the project cycle starting from identification to operation and maintenance of resources schemes. Due to intervention of a water resources development project the beneficiaries and Project Affected Person (PAPs) can be women and men belonging to the households of farmer, fishermen, small traders, craftsman, boatman, landless people, destitute women or any other member of the local community. Here high lights the women participation in water sector development strategies and planning process. During National Water Management Plan (NWMP, 2001) preparation three round People Participation Consultation Program (PPCP) was conducted



Participants are seen in participatory workshop in water sector

throughout the country. It revealed that women participation in round-I, round-II and round-III workshop were 36%, 42% and 40% respectively. On the other hand, the average participation of women in workshops was 33% in Ganges Dependent Area (GDA, 2002) study. In the time of the preparation of Integrated Coastal Zone Management Plan (ICZMP, 2005), 28% women participation was ensured. However, it may be stated that Government of Bangladesh is very much concern about these and this regard Government policy, plan and guidelines of all sectors especially water sector are initiating to ensure the involvement of women and local people in all stages of project preparation as well as maintenance & operation of the water sector projects to make it sustainable & environmentally sound.

Training Workshop on Integrated Flood Management for Countries in Western Asia and the Arab Region

The training workshop, jointly organized by UNW-DPC, the World Meteorological Organization (WMO) and the Regional Centre on Urban Water Management - Tehran (RCUWM) took place from 11-14 May 2009 in Tehran, Iran. More than 29 participants, including top and mid-level managers and professionals in water resources management, disaster management, land use management and spatial planning, met in Tehran to share their experiences and best practices regarding the national situation of Integrated Flood Management in their countries. Two professionals from Water Resources Planning Organization (WARPO) participated in the workshops are Md Siddiqur Rahman, Principal Scientific Officer (computer & info) and Saiful Alam, Principal Scientific Officer (Water resources).

The main objective of the training workshop was to familiarize participants with the concept of Integrated Flood Management and prepare them to identify possible paths of action towards implementation of the concept in their own field of work. The technical presentations and the practical exercises were designed to provide the participants with an in depth exposure to the social, economic, environmental and institutional dimensions of flood



WARPO Participants and other participants from different countries and the organizers are seen in the picture

management and allow them to develop an integrated perspective on floods, floodplains and the development process in their own country.

Training Course on Facing the Challenges of Climate Change at ITN-BUET

ITN-BUET in collaboration with the Department of Civil Engineering, Bangladesh University of Engineering and Technology (BUET) organized a training course on **Facing the Challenges of Climate Change: Impact, Issues and Adaptation Strategies for Bangladesh with focus on Water and Waste Management** from July 19-21, 2009 at seminar room of ITN. Eminent facilitators from home and abroad in this 3 day long program facilitated various sessions. Nahid Sultana, scientific officer has attended in the training course from Water Resources Planning Organization (WARPO). The sessions mainly included global warming: a closer look at climate processes, analysis and modelling of impacts of climate change, global initiatives to combat climate change, impact of climate change on agriculture, impacts of climate change: a gender perspective, problems of water supply and sanitation in Bangladesh and its linkage with the effect of climate change, mitigation measures and adaptation strategies for WatSan sector etc.



Nahid Sultana, SO, WARPO receiving certificate from Vice Chancellor, BUET in the Certificate Awarding Ceremony of the training program at ITN-BUET

Participatory Scenario Development Workshop for Climate Change Adaptation at BIDS

Bangladesh Institute of Development Studies (BIDS) is carrying out a study on “Vulnerability assessment and Participatory Scenario Development for Costing Climate Change Adaptation in Bangladesh” which is a part of the Economics of Adaptation to Climate Change (EACC) study of the World Bank. For gratifying the aims of the study BIDS together with the Social Dimensions of Climate Change (SDCC) Team from the Social Development Department of the World Bank organized the Second Participatory Scenario Development (PSD) workshop on 07 October 2009 at BIDS conference room, Agargaon, Sher-e-Bangla Nagar, Dhaka. The workshop was facilitated by a team of PSD Experts from IISD, Canada. Dr. Nilufa Islam, Director (Technical), Dr. Md. Aminul Haque, SSO, Nazmun Nahar Chowdhury, Librarian, Nahid Sultana, SO and Md. Hasan Shahriar, SO from Water Resources Planning Organization (WARPO) participated in the workshop.

Publication Ceremony of Climate Change Cell (CCC), Department of Environment

To address current impacts and manage future risks of climate change and variability towards development of a climate resilient Bangladesh, the government has established the Climate Change Cell (CCC) in Department of Environment (DoE) under the Comprehensive Disaster Management Programme (CDMP) in 2004. Over the past years the Cell has initiated a number of activities to achieve the objectives to enable the management of long term climate risks and uncertainties as an integral part of national planning. The major working areas of the cell are: Mainstreaming; Adaptation research; Modeling (Impact prediction, Economic); Capacity building; Awareness' programme; Knowledge Management etc.

To sustain the achievements in the last 5 years, cell has prepared several working documents, awareness toolkits, research documents, study reports and other publications. All these documents and reports have been published and are ready for dissemination.

To introduce the publications, Cell organized a Publication Launching Ceremony on 14 October 2009 at the National Press Club (VIP Lounge). The event was chaired by Dr. Zafar Ahmed Khan, Director General, Department of Environment. Dr. Hasan Mahmud MP, State Minister, Ministry of Environment and Forests was present as the Chief guest and Dr. Mihir Kanti Majumder, Secretary, Ministry of Environment and Forests (MoEF) as Special Guest. Among others, representatives from government agencies, development partners, implementing partners, media professionals were present in the event. WARPO professionals attended the ceremony.



Dr. Zafar Ahmed Khan, Director General, Department of Environment.

Dr. Hasan Mahmud MP, State Minister, Ministry of Environment and Forests (MoEF)



Heartiest Congratulation to Shahla Farzana

Our heartiest congratulations to Shahla Farzana (Tina) for her brilliant results in H.S.C Examination which was held in 2009. She obtained Golden GP (5.00+) from "SHAHEED BIR-UTTAM LT. ANWAR GIRLS COLLEGE", Dhaka Cantonment. She got admitted into 1st. year B.SC Engineering in Computer Engineering and Science (CES) Bangladesh University of Engineering & Technology (BUET) in session 2009-2010. She is the second daughter of Mrs. Afroza Begum and Mr. Md. Shahjahan, Director Planning, WARPO, Ministry of Water Resources.

Editorial

E-governance

An effective use of ICT Management

E-government, also known as digital government or online government, is the use of Information & Communication Technology (ICT) to delivery the government service and information to the public using electronic devices. E-governance is extended views of e-government. It views on how government and its citizens to relate each other that improve government services with the direct and prompt interaction with people.

E-governance facilitates greater openness, transparency, and accountability. As more information is given to the public, greater citizen engagement in the overall policy and greater accountability for public officials may be ensured. In other words, to government employees and agencies, it would mean the facilitation of cross-agency coordination and collaboration to ensure appropriate and timely decision-making.

E-government has four key elements: e-services, e-commerce, e-democracy and e-management. The goal of e-government is to enhance the interaction between three main actors in society- government, citizens and business- in order to stimulate political, social and economic progress in the country.

Water Resources Planning Organization (WARPO), as a center of excellence of the Water Sector, under the supervision of Ministry of Water Resources is maintaining updating and disseminating all water related data and information to the users, people and planners of the Water Sector. WARPO is planning to serve to the government and as well as the common people and expertise in conformation with government's ICT policy through the following tools:

Computerized Inventory Management System for WARPO

Computerized Library Management & cataloguing system

Computerized Office File Management System

Computerized/Modernization of Accounting System

Web based e-mailing system.

HRP (Human Resource Planning) Software for WARPO

Project Management Software for NWMP program/project

Dynamic website for WARPO

E-Citizen Service through web portal, such as: Search/view NWRD Data, NWRD Data requirement, estimation, payment etc. by outside users through Online, and Online library

As, Bangladesh, a third world developing country is under a great threat of corruption, impediments in the bureaucracy and natural calamities, the democratic government can be made much more effective, efficient and responsive by introducing e-government in its different arms of management. It can also strengthen government's drive toward effective governance and increase transparency to better manage the country's social and economic resources for development and achieve its goal.

Contributors list

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Md. Hasan Parvez

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Dr. Aminul Haque

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WARPO Directors Participated in the Training Course on "Integrated Water Resources Management (IWRM) at the River Basin Level" organized by JICA in Tokyo, Japan

The River Basin approach seeks to focus on implementing IWRM principles on the basis of better coordination amongst operating and water management entities within a river basin, with a focus on achieving water security for all purposes through allocation and delivering reliable water-dependent services in an equitable manner.

The river basin is an appropriate unit for integrated management

IWRM can effectively deliver a triple bottom line of economic efficiency, social equity and environmental sustainability that are essential for sustainable development

Applying IWRM enables appropriate inclusion of water-related disaster management and alleviation of environmental impacts

The importance of water should be recognized at the highest level of decision-making as well as at the basin level. Each sector benefits by participating in IWRM

IWRM is the foundation for progressing adaptation to climate change

Mr. Md. Shahjahan, Director (Planning) and Dr. Nilufa Islam, Director (Technical), of WARPO, attended the Group Training Course on Integrated Water Resources Management (IWRM) at the River Basin Level which was held in Tokyo, Japan from August 23 to September 5, 2009 organized by JICA. This training program was a unique opportunity to know and share the experiences of History of Integrated Water Resources Management at the River Basin level of Japan and participating countries .eg. Phiphines, Myanmar, Laos, Comodia, Zimbabwe. For all participating countries representatives had special presentation on respective Country; and discussion session. From Bangladesh side two papers were presented. Presentation of Director Planning was focus on problems and prospects of IWRM at river basin level in Bangladesh and Director Technical, presentation was on overall problems and prospects of Bangladesh water resources focus on NWMP of Bangladesh.

Training course was organized into class lectures and field visits. Field visits were mainly to Hydraulic Dams & Multi-purpose barrage sites .eg. Oi dam upstream of the Kiso River, NAGARAGAWA Estuary Barrage downstream of Kiso Rivers and AICHI-CANAL Irrigation Project.

Nagaragawa Estuary Barrage is serving the purpose of flood control, prevention of saintly intrusion which improved fresh water availability and water is used for municipal\domestic , industrial, irrigation(through Aichi Canal) & for fisheries. One of the important component of Nagarawa Estuary Barrage is that it has kept provision of three types Fish-pass .eg. Natural, Artificial & Induced Fish Pass and these are performing well. Japan's unique advantage for successful implementation of IWRM at River Basin level is that not a single river is interfaced with other countries.



Mr. Md. Shahjahan, Director (Planning), WARPO is seen in the IWRM Training in Japan addressing closing ceremony on behalf of participating countries



Mr. Md. Shahjahan, Director(Planning), Dr. Nilufa Islam, Director (Technical) and other participants are seen in group photos.

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