

**Capacity building for  
Integrated Water Resources Management – Sri Lanka**

**Work plan – 2008**

Submitted to  
**Cap-Net**

for a

**Grant support**

by

**Cap-Net Lanka**  
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## **1. Introduction**

Cap-Net Lanka, a key partner of the Sri Lanka Water Partnership (SLWP), has been working continuously with other institutions since 2004 in promotion of IWRM. The Cap-Net Lanka was able to bring together a diverse group of water professionals through its capacity building programmes and continue to work with them in numerous ways. The members find that the synergy of working together has helped to strengthen the linkages which were established through the Cap-Net Lanka. With the experience gained and the credibility established through its activities during last 3 years, Cap-Net Lanka expects to expand its activities to achieve its objectives. This document outlines the proposed activities for the year 2008.

## **2. Activities**

Activities have been planned under the following three outputs.

1. Access to education, training and research output in IWRM increased
2. Capacity of water users, water managers and policy makers developed for an effective water management
3. Capabilities in delivering capacity building services strengthened

### **Access to education, training and research output in IWRM increased**

1. Symposium on Water supply, sanitation and wastewater management: Progress and prospects towards clean and healthy society
2. Book on Drinking water supply (for school children)

### **Capacity of water users, water managers and policy makers developed for an effective water management**

3. Capacity building in micro watershed
4. Dialogue platform for water managers, decision makers and stakeholders
5. Dialogue and training workshop on water policy
6. Training on low-cost wastewater treatments and water pollution control
7. Gender and water dialogue
8. River sand mining dialogue
9. Water quality monitoring programme
10. TV programme

### **Capabilities in delivering capacity building services strengthened**

11. Training of school teachers on water related issues
12. ToT in IWRM
13. Training of trainers on water productivity in agriculture
14. Awareness program on IWRM and fund raising (Ratnapura)
15. Meeting of network members
16. Database and website maintenance

### **Activity 2.1: Symposium on Water supply, sanitation and wastewater management: Progress and prospects towards clean and healthy society**

Researchers and practitioners in the field of water supply, sanitation and wastewater management from various sectors (government, non-government and private) will be invited to present the innovations and lessons in the form of research papers and case studies. Training on writing papers and case studies will be conducted for authors who submit the abstract for symposium if necessary. The proceedings of the symposium will be compiled into printed form to disseminate the knowledge for a wider audience.

<b>Objectives</b>	To provide a common platform to the people who work on water supply, sanitation and wastewater management sectors to share their experiences and discuss the future directions and to disseminate the knowledge generated to wider audience
<b>Participants</b>	15 research papers / case studies will be accepted for presentation to a wider audience
<b>Period</b>	One day program
<b>Time</b>	May 2008
<b>Budget</b>	US\$ 2000
<b>Collaborators</b>	Sri Lanka Water Partnership – Financial support for printing the proceedings Partial contribution from participants
<b>Outputs</b>	National gathering, Printed proceedings
<b>Coordinator</b>	Dr. S. Pathmarajah

### **Activity 2.2: Book on Drinking water supply (for school children)**

Reading materials explaining the water treatment for domestic water supply in local languages are necessary to educate school education. This will help the younger generation to realize the importance of effective use of drinking water. A book on the above title will be written and designed for school students (Year 10) with simple and attractive format. This book will discuss the water treatment process adopted in a conventional water treatment plant, and give a general idea to the student how to assess the water quality, and also how to preserve the water quality. This book will be in Sinhala language at the beginning and will be translated into Tamil in the next year.

<b>Objectives</b>	To provide knowledge on water treatment for domestic water supply in a simple and attractive form (book)
<b>Participants</b>	5000 books
<b>Period</b>	-
<b>Time</b>	June 2008
<b>Budget</b>	US\$ 2500
<b>Collaborators</b>	-
<b>Output</b>	Printed book
<b>Coordinator</b>	Dr. D.R.I.B. Werallagama

### **Activity 2.3: Capacity building in IWRM in a selected watershed**

In the past, capacity building in IWRM has been done for various groups, professionals, teachers, students, etc. However, to have an impact at spatial level, it is better to initiate capacity building activities of various groups within a given geographical location.

A smaller watershed in Gampola will be selected for this purpose. In 2007, at the height of the epidemic ,more than 500 people particularly between the ages of 5 – 20 years have been admitted to the hospital in a month due to viral hepatitis which spread through contaminated drinking water supply. Conflicts between institutions and people have arisen. Action taken to create a consensus through a stakeholder platform is in progress but needs support form external actor such as Cap-Net. Therefore, a critical micro catchment in the area Pusselawa /Paradeka will be selected for the following activities:

- Collection of preliminary information, which include technical and social, political, economic, and institutional information.
- Identification of actors and water issues in the watershed
- Training needs of different groups
- Plan and develop training materials and
- Conduct training programmes for capacity development which lead to effective action in addressing water issues for sustainable development.

<b>Objectives</b>	Capacity of various institutions will be strengthen to fulfill their function effectively in water resources development & management. Public will be able to implement individually and collectively improved health, sanitation and wastewater management practices.
<b>Participants</b>	Service providers, Officers, Women, Children and Public at large
<b>Period</b>	One year
<b>Time</b>	January – December 2008
<b>Budget</b>	US\$ 3000
<b>Collaborators</b>	NWSDB, Hospitals and UC – Logistic support Sri Lanka Water Partnership – Partial financial support
<b>Outputs</b>	Meetings with different stakeholders, Reports, Training programs
<b>Coordinator</b>	Prof. Nimal Gunawardena (A team will work on this activity)

### **Activity 2.4: Dialogue platform of water professionals**

From the past experiences, it was found that lecture/presentation series with professionals in the water sector are very effective. A resource person can visit and deliver a lecture on a currently important topic and facilitate discussion to sensitize professionals. A lecture on “water policy” will be arranged to professional at the National Water Supply and Drainage Board (NWSDB) in Kandy followed by a discussion. This will provide them an opportunity to have an idea of what it means, implications and help them clarify any doubts. Suitable resource persons with information and knowledge on the subjects will be identified.

<b>Objectives</b>	Professionals will be able to understand the crucial issues on sustainable water resource management and assist its implementation
<b>Participants</b>	High, medium and low level officers at NWSDB, CEA,UDA and Health sector
<b>Period</b>	Half a day
<b>Time</b>	March, July and November
<b>Budget</b>	US\$ 750 (US\$250/programme)
<b>Collaborators</b>	NWSDB - Logistic support in organizing Central Environmental Authority (CEA) - Logistic support in organizing Health Sector - Logistic support in organizing
<b>Output</b>	Understanding on water policy and contribution to prepare the national water policy
<b>Coordinator</b>	Eng. L.L.A Peries

### **Activity 2.5: Dialogue and training workshop on water policy**

Sri Lanka does not have a water policy even after 12 years of initiating the process. The government of Sri Lanka has been trying to introduce a national water resources policy since 1996 with the main objective of achieving an efficient and equitable allocation of water resources in order to meet the short-term as well as long-term socio-economic and environmental goals under a market economic frame work.

This work was initiated with the funding provided by the Asian Development Bank, FAO and Dutch Government. Though the original draft of the act has been approved by the Cabinet of ministers in 2001, it was subjected to severe criticism made by the media, environmental groups and the civil society. The public reaction on the water policy is around several arguments: lack of transparency in the policy formulation process, lack of historical cultural concern, lack of environmental and resource conservation concerns, inadequate safety nets for the poor and disadvantages segments of the society, more market oriented approach and possibility of involvement of transnational cooperation.

As a result of these problems and the rejection of the policy by the public, the Ministry of Agriculture, Livestock, Lands and Irrigation in 2004 came up with an alternative policy document. Those who were involved in drafting this policy maintains that what is prepared and released to the public is a base document with the objective of preparing a comprehensive national water policy.

At present, two draft water policies exists in Sri Lanka and promoted by two ministries of the same government whilst no effective progress has been made towards finalizing a water policy for Sri Lanka.

With this back ground, the CapNet-Lanka along with the Board of Study in Agricultural Engineering of the Post Graduate Institute of Agriculture, University of Peradeniya held a Training Programme on Water Policy on 12<sup>th</sup> May 2005 with the following objectives.

1. To raise awareness of water policy principles of different water policies in the world in comparison to the two draft water policies of Sri Lanka,
2. To identify possible legal implications of implementing these two water policies, and
3. To identify major issues between those two policies and find ways and means of closing the gap and to come up with single water policy document for Sri Lanka.

Personal who have been involved with the formulation of two draft water policies along with the professionals in the water sector were present as resource persons (This is the first occasion where both groups discussed their respective water policies in a single forum). Key issues in relation to both policies were identified. The major differences of policy principles between two policies were also highlighted during the group work and panel discussion. It was agreed to compile a document based on the discussion and forward the same to the higher authorities for follow up action in order to close the gap between two water policy documents and come up with a single water policy acceptable to the people of Sri Lanka.

Since there was no follow up actions, the Ministry of Mahaweli and Rajarata Development in the present government which came to power in late 2005 went ahead and published the draft policy documents in National news papers for public comments. This draft was again could not proceed due to opposition from the other group.

The only path available is to have a dialogue between two main groups, narrow the differences and come up with an acceptable water policy to both groups. The Cap-Net Lanka would like to continue the initiative taken in 2005 to bring the parties together again, make them aware and build a dialogue in year 2008 with the aim of formulating a national water policy acceptable to all the Sri Lankan. A series of meetings and training programmes leading to a national workshop is proposed.

<b>Objectives</b>	To bring the parties together again and build a dialogue with the aim of formulating a national water policy acceptable to all the Sri Lankan.
<b>Participants</b>	Key institutions and individuals
<b>Period</b>	2008
<b>Time</b>	-
<b>Budget</b>	US\$ 2000
<b>Collaborators</b>	SLWP – Partial financial support
<b>Output</b>	Re-initiation of the process and proceed on water policy formulation
<b>Coordinators</b>	Prof. E.R.N. Gunawardena

### **Activity 2.6: Training on low-cost wastewater treatments water pollution control**

Last year training workshops on Wastewater management system for industries and officers of Central Environmental Authority, MASL and health sector were very effective. This has to be continued for a wider audience to find suitable remedies and practices to control water pollution. A field demonstration of the university wastewater treatment site and the interactive discussion will provide an opportunity for participants to discuss their own problems with the expert panel

<b>Objectives</b>	Educate the people on cleaner production concept and low cost techniques for wastewater treatment and encourage/guide the water users to adopt the treatment techniques
<b>Participants</b>	25/programme
<b>Period</b>	3 - One day program
<b>Time</b>	April, August and November, 2008
<b>Budget</b>	US\$ 3000 (US\$1000/Programme)
<b>Collaborators</b>	Agricultural Engineering Society of Sri Lanka – Logistic support SLWP – Financial support for one programme
<b>Output</b>	Convince the people to practice wastewater treatment techniques
<b>Coordinator</b>	Dr. D.A.N.,Dharmasena

### Activity 2.7: Gender and Water Dialogue

#### Activity 2.7a: Evaluation of Gender and Water Dialogue

Gender and water dialogues have been conducted in provincial level for last two years. In this year, effectiveness of the programme will be evaluated and necessary changes will be made based on the recommendation of the evaluator.

<b>Objectives</b>	To re-design and effectively conduct the programme in future
<b>Participants</b>	-
<b>Period</b>	January and May 2008
<b>Time</b>	-
<b>Budget</b>	US\$ 500
<b>Collaborators</b>	-
<b>Output</b>	Evaluation report with recommendations
<b>Coordinator</b>	Dr. S. Pathmarajah

#### Activity 2.7b : Gender and Water Dialogue: Nuwara-Eliya, Kalutara

In general, topics on gender and water are delivered in relation to local issues. Male and female participants working in water sector and administrative sectors will be invited for the programmes. Postgraduate students (IWRM) also will be resource persons.

<b>Objectives</b>	To promote IWRM and gender and water ; study relevance of gender issues on a district level ; to draw attention of policy makers to importance of gender issues in water sector
<b>Participants</b>	Two programmes (30 participants each)
<b>Period</b>	January and May 2008
<b>Time</b>	Two days residential programme
<b>Budget</b>	US\$ 2000
<b>Collaborators</b>	NetWwater and NWSDB – Logistic support Sri Lanka Water Partnership – Partial financial support
<b>Output</b>	Gatherings, report with follow up activities
<b>Coordinator</b>	Ms. Kusum Athukorala

## Activity 2.8: River Sand Mining Dialogue

### Activity 2.8a: Evaluation of River sand mining dialogue

As the previous activity (2.7), several dialogues and national workshops have been conducted to bring stakeholders together to discuss the problems and take actions. Because of these activities, several action committees have been formed. It is time to see the impact of those activities and to decide the way forward. In this year, effectiveness of the programme will be evaluated and necessary changes will be made based on the recommendation of the evaluator.

<b>Objectives</b>	To re-design and effectively conduct the programme in future
<b>Participants</b>	-
<b>Period</b>	January and May 2008
<b>Time</b>	-
<b>Budget</b>	US\$ 500
<b>Collaborators</b>	-
<b>Output</b>	Evaluation report with recommendations
<b>Coordinator</b>	Dr. S. Pathmarajah

### Activity 2.8b: River sand mining dialogue

Indiscriminate river sand mining is one of the challenges for sustainable water management. NetWwater with the support from Cap-Net Lanka, Sri Lanka Water Partnership and other private sector and well wishers has been engaged in activism against illicit and destructive river sand mining since 2005. As capacity building network, Cap-Net Lanka would like to continue to educate the public on problems face by river sand mining, identifying the potential as well as vulnerable areas of sand mining and alternatives.

<b>Objectives</b>	To support community organizations already working in advocacy against river sand mining in Deduru Oya and Ma Oya ; to support awareness building through media, with linkage to universities for expanding knowledge through future research and dissemination
<b>Participants</b>	Two programmes
<b>Period</b>	2 <sup>nd</sup> and 3 <sup>rd</sup> quarter of the year
<b>Time</b>	Two activities (which may be more than a day)
<b>Budget</b>	US\$ 2000
<b>Collaborators</b>	NetWwater and NWSDB – Logistic support Sri Lanka Water Partnership – Partial financial support
<b>Output</b>	Gatherings, Report with follow up activities
<b>Coordinator</b>	Ms. Kusum Athukorala

## Activity 2.9: Water quality monitoring programme

As a part of the water pollution control and management in Kandy and Nuwara-Eliya sensitive areas have to be identified and the public has to be educated. Monitoring of water quality of important streams of Mahaweli in Kandy and Nuwara-Eliya will be conducted by selected volunteer organizations, youth clubs and schools children (Environmental club) for one year. Training for people will be conducted in the laboratory of the National Water

Supply and Drainage Board (NWSDB) in water sampling and measurements. Support from the local government bodies will be obtained for this activity.

<b>Objectives</b>	Train the people on water quality monitoring; Awareness of the officers and public on water quality status of the important tributaries of Mahaweli
<b>Participants</b>	Volunteer organizations, Youth clubs and schools
<b>Period</b>	One year
<b>Time</b>	2008
<b>Budget</b>	US\$ 3000
<b>Collaborators</b>	NWSDB – Laboratory facilities for training
<b>Output</b>	Public post with quality information, Data from monitoring, trained people on water quality monitoring
<b>Coordinator</b>	Dr. M.I.M. Mowjood, Eng. L.L.A. Peries

### **Activity 2.10: Training for School Teachers**

School teachers play a major role in educating the children and parents on the local issues. Land slides due to heavy rains become a frequent phenomena in the upcountry. Water pollution by poor sanitary facilities and practices risks the health of the people particularly infants and children. On the other hand school teachers have not been trained on the current issues in the water resources management to educate the students and the parents.

<b>Objectives</b>	Teachers will be able to explain the processes of water pollution and land slides and mobilize the society through school children for effective water management in the localized areas.
<b>Participants</b>	50 teachers (different schools)
<b>Period</b>	Two days residential program
<b>Time</b>	September 2008
<b>Budget</b>	US\$ 1500
<b>Collaborators</b>	NWSDB – Demonstration on water quality testing
<b>Output</b>	One day programme, report with follow up activities
<b>Coordinator</b>	Dr. P.V.N Punyawardena and Eng. L.L.A. Peries

### **Activity 2.11: TV programme**

Media plays a major role in awareness and opinion making. In order to make awareness for a wider audience and educate the media personnel on the concept of IWRM as a solution for better management of water resources, a tour will be organized. This document will be telecast in the national channel and made available for students to discuss and debate on the issue.

<b>Objectives</b>	To highlight a selected issue relevant to Cap-Net's awareness raising program through a media tour and resultant national media coverage
<b>Participants</b>	30 participants
<b>Period</b>	To be determined
<b>Time</b>	June 2008

<b>Budget</b>	US\$ 750
<b>Collaborators</b>	NetWwater – Logistic work
<b>Output</b>	TV documentation
<b>Coordinator</b>	Kusum Athukorala

### Activity 2.12: TOT in IWRM

It is important to continue to train water sector professional in IWRM. This is same as what Cap-Net Lanka has been doing in the past (one regional and two national programmes). But the contents of the training programme and methods of delivery have to be updated in detail. A systematic follow up to the participants will be discussed in the programme. Similar action will be taken for the participants of the previous participants.

<b>Objectives</b>	The participants will be able to explain the concepts of IWRM for others and facilitate or guide the implementation of IWRM within their working environment.
<b>Participants</b>	30 (Academics, Managers, Policy makers and Practitioners in water sector)
<b>Period</b>	4 days - a residential course
<b>Time</b>	August 2008
<b>Budget</b>	US\$ 2500
<b>Collaborators</b>	Sri Lanka Water Partnership (SLWP) – Partial financial support for participants who are unable to pay the fees
<b>Output</b>	Programme, Network members to work in future in implementation of IWRM
<b>Coordinator</b>	Dr. M.I.M. Mowjood

### Activity 2.13: Training workshop for DOA

Balancing the water for food, eco system and domestic need is necessary for sustainable management of water. In order to keep the balance between the increasing demands, improvement of water productivity in agriculture is very much needed. Extension officers involve in water management from Department of Agriculture will be trained in water productivity improvement with various traditional and modern approaches and techniques.

<b>Objectives</b>	Educate the extension officers towards improving water productivity in Agriculture in Mahaweli areas
<b>Participants</b>	40 participants
<b>Period</b>	January
<b>Time</b>	One day programme
<b>Budget</b>	US\$ 1500
<b>Collaborators</b>	Department of Agriculture – Venue, Meals and audio facilities NWSDB – Laboratory facilities
<b>Output</b>	Programme, Report, follow up activities
<b>Coordinator</b>	Dr. P.V.N. Punyawardena

#### **Activity 2.14 : Awareness program on IWRM and fund rising (Ratnapura)**

As a follow up activity of Gender and Water Dialogue (Ratnapura) conducted last year, it was realized that awareness programme for opinion leaders and gemming community is important.

<b>Objectives</b>	Able to understand the serious of sustainable water management and to be support the capacity building IWRM in the water sector and other sectors
<b>Participants</b>	Gem merchants and others to be determined in consultation with Ratnapura stakeholders
<b>Period</b>	To be determined , a season where gemming activity is low
<b>Time</b>	2008
<b>Budget</b>	US\$ 500
<b>Collaborators</b>	NetWwater – Logistic work
<b>Output</b>	Financial support for the activities
<b>Coordinator</b>	Ms. Kusum Athukorala

#### **Activity 2.15 : Development of database & Website maintenance**

A database on institutions involve in water related activities in Sri Lanka will be created for strengthen the network and for others use.

Cap-Net Lanka website (<http://www.capnetlanka.org>) launched last year will be updated monthly with the information on activities and reports on the past events. IWRM materials translated into local languages will be available at the web site.

A web master will be assigned on contract basis for updating.

### 3. Summary of budget

No	Activity	Budget (US\$)
1	Symposium on Water supply, sanitation and wastewater management: Progress and prospects towards clean and healthy society	2000
2.	Book on water treatment for domestic water supply (for school children	2500
3	Capacity building in IWRM in a selected watershed	3000
4	Dialogue platform of water professionals	750
5	Dialogue and training workshop on water policy	2000
6	Training on low-cost wastewater treatments water pollution control	3000
7a	Evaluation of Gender and Water Dialogue	500
7b	Gender and Water Dialogue : Nuwara-Eliya, Kalutara	2000
8a	Evaluation of River sand mining dialogue	500
8b	River Sand Mining Dialogue	2000
9	Water quality monitoring programme	3000
10	Training for School Teachers	1500
11	TV programme	750
12	TOT in IWRM	2500
13	Training workshop for DOA	1500
14	Awareness program on IWRM and fund rising (Ratnapura)	500
15	Development of database & Website maintenance	500
16	Meeting of network members	750
17	Network support	6700
	<b>Total</b>	<b>35950</b>



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