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**Economic and Social Commission for Western Asia**

**EXPERT GROUP MEETING TO REVIEW A  
DRAFT DOCUMENT ON INTEGRATED WATER RESOURCES MANAGEMENT  
(IWRM) FOR THE ESCWA REGION  
BEIRUT, 29-31 MARCH 2004**

**FINAL REPORT**

**Summary**

The aim of the Expert Group Meeting was to bring together high-caliber regional and international experts to discuss the contents of a comprehensive training material prepared at ESCWA on the application of IWRM in the region. The preparation of this manual is part of ESCWA's initiative on capacity building programmes for IWRM in order to ensure the sustainable use of water resources in the region.

In this respect, twenty high caliber water resources, social and economic, legal and institutional experts from the region, international specialists in the different disciplines and fields related to IWRM in addition to members of AWARENET, the Arab Integrated water resources management network, representatives of regional United Nations agencies such as UNEP/ROWA, WHO/EMRO, UNESCO-IHE and UNESCO-Cairo Office, and international organization such as GWP (Global Water Partnership) and GWA (Gender Water Alliance) attended the meeting.

Discussions centered on the concept of IWRM underlying the preparation of the training manual, and on the different modules presented in the manual. The expert group meeting concluded with a set of recommendations on the improvement and enhancement of the IWRM Training Manual for the ESCWA region in addition to proposals for the dissemination of the training material. Future activities will involve the organization of two regional training workshops that will involve in the first place representatives at minister/director general level from the water, agricultural and environmental ministries in the ESCWA countries, and in the second place national water resources managers from these ministries.

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## INTRODUCTION

1. The ESCWA countries, as mandated in the WSSD, Johannesburg 2002, will prepare national and river basin Integrated Water Resources Management (IWRM) plans by 2005. The preparation and effective implementation of national and river basin IWRM plans will depend on filling current capacity and awareness gaps at all levels on IWRM in the ESCWA region,
2. To respond to the immediate and long-term needs, ESCWA, in collaboration with the Federal Institute for Geosciences and Natural Resources (BGR), Germany has initiated a programme to promote IWRM in the region and build capacity of policy makers, water resources practitioners and researchers involved in water resources management. A first draft training document composed of 16 Modules organized thematically in addition to 2 cross cutting modules which focus on poverty alleviation and gender within the IWRM framework. Though IWRM represented a tool to transmit multi-aspects knowledge and enhanced awareness on IWRM to different groups of stakeholders.
3. It is anticipated that the training manual will be adapted into more than one manual to cater for different target groups and will be disseminated through a series of workshops. The series of training events will start with two regional meetings/ workshops to be held by ESCWA no later than September/October 2004 with;
  - A commitment-building meeting of representatives at senior managerial/ decision making level from the Water, Agricultural and Environmental Ministries in the ESCWA countries to introduce the concept and themes of the training material, and
  - A workshop for national and basin level water resources managers in the region for launching and introducing the IWRM training manual and conduct the training.

## ORGANIZATION OF WORKS

### a- Venue and date

4. The Water Issues Team, Sustainable Development and Productivity Division, ESCWA, organized with support from BGR an Expert Group Meeting to review a draft document on IWRM for the ESCWA countries. The meeting was held at the United Nations House, Beirut, Lebanon from 29-31 March 2004.
5. The objective of the meeting was to bring together high-calibre regional and international experts to discuss the contents of a comprehensive training material prepared at ESCWA on the application of IWRM in the ESCWA region.

### b- Attendance

6. Present at the workshop were water resources specialists, social and economic, legal and institutional experts from the region, international specialists in the different disciplines and fields related to IWRM in addition to members of the Arab Integrated Water Resources Management Network (AWARENET). Representatives of regional United Nations agencies such as UNEP/ROWA, WHO/EMRO, UNESCO-IHE and UNESCO-Cairo Office also attended the meeting in addition to representatives of international organizations namely GWP (Global Water Partnership) and GWA (Gender Water Alliance). (List of participants contained in Annex I)

### c- Opening Session

7. In the opening ceremony, Mr. Hosny Khordagui, Team Leader of Water Issues Team, highlighted the role of ESCWA in promoting IWRM practices in the region through building capacity of policy makers, practitioners and researchers involved in water resources management. In this respect, ESCWA in collaboration with BGR built on the training of Trainers workshop held by CAP-NET (TOT/Cap-Net) the accumulated international and regional experiences through AWARENET to support the effort of ESCWA member states in implementing an integrated approach to water resources management, and the application

of IWRM concepts to the conditions of the ESCWA member states. (Programme of work contained in Annex 2)

## MEETING DISCUSSIONS

### a- Session 1: Concepts of IWRM: a multidisciplinary approach

8. The first session was chaired by Mr. Youssef Al-Mooji, Water Issues Team at ESCWA. In this session, Mr. Al-Mooji made a presentation on the concept of IWRM that was taken into consideration in the preparation phase of this training manual. He stressed on the importance of IWRM as a tool for sustainable development in addition to the different options available for building capacity for IWRM.

9. Afterwards, each expert commented on the document and proposed changes for the finalization of the manual. Module 0 to 1 (“Gender, Poverty Alleviation and IWRM” and “Concepts of Integrated Water Resources Management” respectively) were reviewed and concerned experts presented their recommendation to further enhance and enrich these two modules to reflect the overall setting of the manual.

### b- Session 2: Break up into three working groups

10. Participants were divided into three working groups to review separately modules of Technical, Socio-economic and legal and institutional dimensions. Three moderators were selected to steer and report on the findings of the discussions in each of the working group.

11. Working group one (WG1) on “Technical consideration” chaired by Mr. Abdulrahman Sharhan, from the Faculty of Sciences at the United Arab Emirates University, discussed the content, structure and flow of discussion of the following modules:

1. Module 6 “Water supply, sanitation and health within IWRM consideration”
2. Module 7 “Environment and IWRM”
3. Module 8 “Balancing water supply and demand”
4. Module 9 “Water demands: modelling and management”
5. Module 12 “Groundwater and IWRM”

12. Working group two (WG2) on “Socio-economic dimensions” chaired by Ms. Maria Arce Moreira, Executive Secretary of the Gender Water Alliance, discussed the content, structure and flow of discussion of the following modules:

1. Module 4 “Stakeholders in IWRM”
2. Module 5 “Economic dimensions of IWRM”
3. Module 10 “Cost and pricing of water resources”
4. Module 11 “Public-Private –Partnership (PPP) in water management”
5. Module 13 “Agriculture and IWRM”

13. Working group three (WG3) on “Legal and institutional dimensions” chaired by Mr. Salah El-Din Amer, Professor, Head of Public International Law Department at Cairo University, discussed the content, structure and flow of discussion of the following modules:

1. Module 2 “Enabling environment and institutional roles”
2. Module 3 “Legislative and organizational frameworks”
3. Module 14 “Management of shared water resources in the ESCWA region”
4. Module 15 “Capacity building issues and needs in IWRM at the national and regional levels in the ESCWA region”

### c- Session 3: Presentation of the three working groups

14. Mr. Salim Macksoud, Chairperson, Lebanon National Hydrological Committee chaired the third session. Each of the three moderators presented the comments and proposed changes of their respective working groups, which revolved around the following main points:
15. WG1 suggested elaborating more on sanitation, accessibility and other economic and social benefits issues under Water and Health. It also suggested merging modules 6 and 7, where the water and health issue will be addressed within an environmental context. It was recommended to elaborate less on problems of ecology and biodiversity and to focus on problems of pollution, desalination, groundwater mining and types of water use and its impact on the environment. Additionally WG1 suggested merging modules 8 and 9 under a common title "Water supply and demand management". Detailed information and examples are needed to show the benefits of the different types of modelling techniques. Further examples on statistical techniques and mathematical programming are needed to enrich the module.
16. Participants thought that the module on Groundwater was very lengthy. In this respect the module needs restructuring and a clear description of the expected output. Emphasis should be made on identifying the technical tools for monitoring and modelling groundwater resources. From a structural point of view, WG1 suggested the addition of illustrative graphs, charts, data and regional case studies to make the material user friendly and regionally specific and to include a glossary of technical terms used in these modules.
17. WG2 concluded that the gender component in IWRM was not well described nor given much in depth analysis in module 4 in particular and in other modules in general. Gender mainstreaming, as a tool for analysis should be further emphasized and explained in the manual given its importance in the various social aspects and its multi-disciplinary perspective. It should therefore be further defined and expanded in a stand-alone module where its crosscutting nature could be highlighted. Similarly, the conflict resolution component is to be further defined and described in a stand-alone module since this issue is of great interest to the region where most of the water is shared by two or more riparian states.
18. A new structure was recommended to the combined modules 5 & 10. The addition of explanatory tables, charts and regional case studies is necessary. Furthermore it is important to differentiate between the concepts of cost-benefit analysis and financial analysis in this module. Regarding the agriculture and IWRM module, WG2 suggested to emphasize on the correlation between agriculture and poverty alleviation, rural development, on-farm water use efficiency techniques and water rights associated with water allocation, permits and principles of water equity.
19. WG3 recommended addressing legislations and regulations related to water use in agriculture and irrigation separately from other usage to avoid unnecessary sensitivity. It was also suggested to elaborate on the different options in institutional set-ups taking into consideration the specificity at regional and sub-regional levels. Additionally, emphasis should be placed on the needed legal reforms, which stems from institutional reforms rather than illustrating the existing legislation, which is in most cases outdated. It was suggested to divide the module into two sections; section one illustrating the existing water institution and section two defining the needed institutional and legislative reform with concrete examples of existing experience in the region when available.
20. WG3 also proposed a new title for module 14 " Shared water resources". It was suggested to emphasize the importance of having conventions or agreements signed at a basin or aquifer levels. A thorough explanation of existing international agreements, such as the 1997 UN convention, should be provided. Furthermore win-win situations in dispute resolution should be highlighted. Drawing the attention to such examples in the region is very important. Regarding module 15, which reviews capacity building, additional substantive material and measures required to sustain capacity building initiatives is needed to enrich this important module. It was also recommended not addressing the issue in an academic manner but rather explaining it as a tool to develop capacity building strategies in the context of institutional development programme.

21. These comments and recommendations of technical nature will be taken into consideration during the revision phase of the manual. Participants elaborated on their comments and expanded on their vision of the structure of each module. (A synthesis of these recommendations is found in Annex 3).

#### d- Session 4: Revisiting the concepts of IWRM

22. Mr. Bo Applegren, expert in Water Management Policy and Planning at UNESCO-ISARM chaired this session. Participants re-visited the overall objective of the manual and brainstormed on issues that should be further addressed and emphasized to enhance this document and bring out its regional specificity. The general discussion revolved around the following issues:

1. Immediate and long-term objectives
2. Directions for capacity building
3. Comments, and revision of the Draft Training Material
4. Approaches and modalities for the implementation of IWRM capacity building programmes

#### e- Session 5: “Proposed plan of implementation of the IWRM capacity building initiative, ESCWA”

23. Mr. Vangelis Constantianos, Executive Secretary, Global Water Partnership – Mediterranean chaired the last session. Ms. Roula Majdalani, Water Issues Team made a presentation on the Implementation Strategy for the Application of the IWRM Manual in which she highlighted the main gaps in research and case studies and presented ESCWA’s vision for the mode and implementation procedure for the dissemination of the training manual in the ESCWA region. She suggested that the training material should spin off into a number of activities that includes conducting workshops with regional partners addressing the needs of different groups of stakeholders. This will result in a further revision of the manual and it will be refined to be translated into Arabic and disseminated to universities and research institutes in the ESCWA region. Ms. Majdalani also emphasized the important role of AWARENET in the development of training material and its effective role in customizing and disseminating the manual content to relevant stakeholders. She also stressed the importance of collaborating with regional and international partners in order to build synergy in capacity building initiatives on IWRM and to include as many stakeholders as possible in these activities.

### **CONCLUSIONS AND RECOMMENDATIONS**

24. The expert group meeting concluded with the following recommendations on the improvement and enhancement of the IWRM Training Manual for the region and for the dissemination of the training material in the region (A detailed synthesis of recommendations is found in Annex III)

25. The following aspects need to be further articulated in the revised manual:

- Stressing on awareness and communication, at national, regional, basin and community level;
- Enhancing integration of water with other renewable resources, in particular land resources;
- Emphasizing the importance of integrating water into all sectors of the economy, including social, economic and environmental sectors;
- Addressing the issue of mitigation of the impacts from risk and uncertainty, particularly in relation to the most vulnerable groups such as women, the poor and in relation to the environment.

26. All participants agreed that IWRM needs to build on:

- Improved water governance supported by effective enabling environments that include strengthened institutions for improved communication, for the management of water resources at the national level;
- Improved knowledge at different stakeholder levels;

- Access to human, financial and other resources.

27. The meeting acknowledged the high quality and relevance of the first draft-training document. However a revision is needed. ESCWA was requested to overview the finalization of the manual. Suggestions included the following:

- Incorporating suggestions and additional case studies and references as developed and identified in the meeting (and provided as individual and working group comments);
- Identifying and providing a list of reference material, in particular the many ESCWA publications and guidelines on water resources management, and other communication platforms made available on the web;
- Using a document structure for use with the different stakeholder groups as an executive summary section covering the IWRM concepts and the policy, legal and institutional and related aspects, with references to the detailed training modules on legal and institutional, socio-economic and environmental and technical aspects and options for IWRM;
- Mapping and schematic presentation of the manual in brochure-format;
- Presentation of templates for national and shared basin IWRM plans built on pre-set real or fictive cases, for use in participatory learning-by-doing sessions training workshops.

28. Regarding the capacity building and the training manual, it was agreed that they should be targeted and focused on gaps at national levels in the region related to knowledge, enabling environment and available resources.

29. Furthermore participants highlighted the importance of including regional capacity building on the management of the shared surface and groundwater resources in the region, to support the development of cooperative frameworks for the shared cross-country waters in the region.

30. The use of the training manual should be monitored for performance and result based on pre-set practical indicators.

31. The demand for the IWRM manual and training should be optimised to coincide with planning and strategy needs for review and reform at national and basin levels with particular reference to the preparation of IWRM plans under the WSSD mandate.

32. The meeting emphasized the importance of continued collaboration and partnerships with established international organizations, including UNESCO-ISRAM, UNESCO- Cairo Office, UNESCO-IHE, UNEP-ROWA, WHO-EMRO. The role of international and regional organizations/NGOs such as GWP, AWARENET, GWP, CAPNET, GWA and others to play a central role as catalyst in the delivery of capacity building. ESCWA was requested to identify and mobilize external assistance from international and bilateral donors, international foreign investors (IFIs) and through other partnership arrangements to support and supplement the capacity building programme and the establishment of IWRM in the ESCWA region.



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**ANNEX II**  
**ORGANIZATION OF WORK**

**Day 1, Monday 29<sup>th</sup> March**

- 09:00 – 09:30            - Registration  
09:30 – 10:00        - Welcome and Opening statement by Hosny Khordagui, Team Leader  
                             - Tour de table introduction of participants  
                             - Objective and organization of the EGM, ESCWA

10:00 – 11:00        Session 1: "Concepts of IWRM: a multidisciplinary approach"

**PLENARY SESSION**

- Module 1 "Concepts of Integrated Water Resources Management"
- Module 0 "Gender, Poverty reduction and IWRM"

- Moderator: Youssef Al-Mooji
- General discussion

11:00 – 11:15        Coffee Break

11:15 – 13:00        Session 1: "Concepts of IWRM: a multidisciplinary approach" (continue)

**PLENARY SESSION**

- Module 1 "Concepts of Integrated Water Resources Management"
- Module 0 "Gender, Poverty reduction and IWRM"

- Moderator: Youssef Al-Mooji
- General discussion

13:00 – 14:30        Lunch break

14:30 – 16:00        Session 2: "Break up into three working groups"

**PARALLEL SESSIONS**

Working group 1 "Technical consideration"

- Module 6 "Water supply, sanitation and health within IWRM consideration"
- Module 8 "Balancing water supply and demand"
- Module 9 "Water demands" modelling and management"
- Module 12 "Groundwater and IWRM"
- Module 7 "Environment and IWRM"
- Moderator: Abdulrahman Al-Sharhan
- ESCWA Secretariat: Youssef El Mooji, Ralf Klingbeil, Hanan Atallah

Working group 2 "Socio-economic dimensions"

- Module 4 "Stakeholders in IWRM"
- Module 5 "Economic dimensions of IWRM"
- Module 10 "Cost and pricing of water resources"
- Module 11 "Public-Private –Partnership (PPP) in water management"
- Module 13 "Agriculture and IWRM"
- Moderator: Maria Arce Moreira
- ESCWA Secretariat: Carole Chouchani, Rawya Kansoh, Julie Abouarab

Working group 3 "Legal and institutional dimensions"

- Module 2 "Enabling environment and institutional roles"
- Module 3 "Legislative and organizational frameworks"
- Module 14 "Management of shared water resources in the ESCWA region"

- Module 15 “Capacity building issues and needs in IWRM at the national and regional levels in the ESCWA region”
  - Moderator: Salah Amer
  - ESCWA Secretariat: Roula Majdalani, Karim Makdisi, Linda Karam

16:00 – 16:15 Coffee Break

16:15 – 18:00 *Session 2: “Break up into three working groups” (continue)*

## **PARALLEL SESSIONS**

### **Day 2, Tuesday 30<sup>th</sup> March**

08:30 – 11:00 *Session 2: “Break up into three working groups” (continue)*

## **PARALLEL SESSIONS**

11:00 – 11:15 Coffee Break

11:15 – 13:00 *Session 2: “Break up into three working groups” (continue)*

## **PARALLEL SESSIONS**

13:00 – 14:30 Lunch break

14:30 – 16:15 *Session 3: Presentation of the three working groups*

## **PLENARY SESSION**

- Moderator: Mr. Salim Macksoud
- Working group presentations
- General discussion

16:15 – 16:30 Coffee Break

16:30 – 18:00 *Session 4: “Revisiting the concepts of IWRM”*

## **PLENARY SESSION**

- Moderator: Bo Applegren
- General discussion

### **Day 3, Wednesday 31<sup>st</sup> March**

08:30 – 10:30 *Session 5: “Proposed plan of implementation of the IWRM capacity building initiative, ESCWA”*

## **PLENARY SESSION**

- Moderator: Vangelis Constantianos
- ESCWA presentation
- General discussion

10:30 – 11:00 Coffee Break

11:00 – 11:30 *Session 6: Wrap-up and concluding remarks*

## **PLENARY SESSION**

- Moderators: Roula Majdalani & Youssef Al-Mooji
- General discussion

11:30 – 17:00 Field trip including lunch

### ANNEX III

## **SYNTHESIS OF COMMENTS AND RECOMMENDATIONS SUBMITTED AT THE EGM<sup>1</sup>**

### **General comments**

1. Add an executive summary for the manual;
2. Add an executive summary for each module;
3. Add a flow-chart that relates each module topic to IWRM concepts and applications;
4. Add a glossary of terms (Arabic/English);
5. Add illustrative graphs, charts, diagrams, tables and descriptive case studies. These will make the material more appealing and easy to understand and conceptualise;
6. The language should be simplified and might differ depending on the target group addressed while using the same material;
1. Emphasize crosscutting issues such as gender and poverty.

### **MODULE 0: "Poverty Reduction and IWRM"**

1. The following issues need to be further elaborated and discussed in this module:
  - a. Rural development
  - b. Poverty in rural areas
  - c. Decentralization and community development for the eradication of poverty
2. Use existing studies and reference material in UN-Habitat to illustrate cases of linkages between water, poverty and community development.
3. Need to expand on the gender and IWRM section. In this respect, there is a need to clarify the role of gender in the manual and to adopt a clear vision on gender mainstreaming in water resources taking into consideration the cultural and regional specificities of ESCWA member countries.
4. Need to highlight the crosscutting attributes of gender and poverty throughout the manual. Examples of interlinkages between the different sectors, gender and poverty should be illustrated through the use of examples, boxes and case studies.

### **MODULE 1: "Concepts in Integrated Water Resource Management"**

1. Use recent terminology agreed upon and related concepts developed through major international processes and summits i.e. 2nd World Water Forum (The Hague, 2000), the International Freshwater Conference (Bonn, 2001), the World Summit for Sustainable Development (Johannesburg, 2002) and the 3rd World Water Forum (Kyoto, 2003);
2. Discuss in more details the role of the media in IWRM;
3. Tackle the governance issue and its relation to water management;
4. Focus on lack of enforcement mechanisms and provide examples of such situations in the region or in regions with similar conditions;
5. Update references and figures used in this module. Examples not directly labelled as IWRM applications such as the integrated catchments planning and management project in Oman and AFLAJ and Sana'a basin in Yemen could be used.

## **COMMENTS OF WORKING GROUP 1: TECHNICAL CONSIDERATION**

### **MODULE 6: "Water Supply, Sanitation and Health within IWRM Consideration"**

1. Need to reduce the level of details in this module and focus on strategic issues with implications for IWRM. Every topic discussed is of equal importance to the IWMR process.
2. Need to address health issues and policies in other modules as well since it touches on agriculture, groundwater, PPP.

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<sup>1</sup> The following comments are a synthesis of comments provided by participants during the expert group meeting.

3. Need to focus on the following aspects in relation to water supply:
  - a. Adequate sanitation
  - b. Accessibility to safe drinking water
  - c. Economic and social benefits

#### **MODULE 7: “Environment and IWRM”**

1. Need to focus on the following aspects in relation to environment:
  - a. Water Pollution
  - b. Water scarcity in the region
  - c. Desalination
  - d. Groundwater mining
  - e. Sectoral water use
  - f. New technologies used
2. Stress on the importance of public awareness campaigns
3. Reflect the spiritual and religious value of water with respect to the environment

#### **MODULE 8: “Balancing water supply and demand & MODULE 9: Water demands modelling and management”**

1. Propose to merge the two modules into one module titled: “water supply and demand management”;
2. Need to address the issue of increased water demand due to the expansion of irrigated agriculture;
3. Add figures on projected water demand in light of the trend in water use in the area;
4. Rewrite section on modelling techniques, taking into consideration non-technical stakeholders reading the manual. Use illustrative examples to understand the very technical aspect of water modelling;
5. Explain the advantages, disadvantages and differences between the different water modelling techniques to give the reader different options;
6. Provide more details on water recycling issues and techniques given its importance in increasing water supply.

#### **MODULE 12: “Groundwater and IWRM”**

1. Remove the part on economic valuation and include it in module 5;
2. Expand on the following issues:
  - a. Unsaturated zones
  - b. Groundwater dependency
  - c. Conventional and unconventional water resources
  - d. Artificial recharge
  - e. Probabilistic approach for decision-makers

### **COMMENTS OF WORKING GROUP 2: “SOCIO-ECONOMIC DIMENSIONS”**

#### **MODULE 4 “Stakeholders in IWRM”**

1. Propose to divide this module into three distinct modules, each addressing the following issues respectively given their importance to the specificities of the region:
  - a. Gender
  - b. Conflict resolution
  - c. Stakeholders
2. Discuss in more details the following issues:
  - a. Differentiate between primary and secondary stakeholders
  - b. Stakeholders’ categories in the region (youth, women, refugees, etc.)
  - c. Tools that measure and assess public participation
  - d. Transparency and public accountability

## **MODULE 5 “Economic dimensions of IWRM” & Module 10 “Cost and pricing of water resources”**

1. Propose to merge modules 5 and 10
2. Re-organize the module according to the following structure:
  - a. Basic review of computer programmes with some exercise to make trainees familiar with spreadsheets for linear programming, optimisation etc...
  - b. Basic review of project analysis from economic point of view
  - c. Basic review of project benefit analysis
  - d. Basic review of economic issues in water resources with some exercises, and then the theory of economic valuation could be introduced along with the concept of externalities.
3. Discuss the following issues in more details:
  - a. Risk factor in the assessment process
  - b. Food security issue and its relation to rural welfare, production, virtual water aspects and interregional trade.
  - c. Social and ecological components of water allocation
  - d. Economic instruments for water demand management
  - e. Water pricing
  - f. Water ethics that summarizes issues on poverty, efficiency and equity
4. Provide illustrative examples on the following issues:
  - a. Differentiating between components of cost-benefit analysis and financial analysis
  - b. Components of the total economic valuation (TEV) in terms of costs (direct/indirect); benefits (direct/indirect) and price. Show what needs to be included under “cost” and “price” to make them equal to one another within the framework of TEV.
  - c. Differences between flows and stocks and different water values that might differ depending on the source of water (renewable, non-renewable, recycled, desalinated)
  - d. Impacts of subsidies (costs and benefits)
  - e. Social and economic costs (and benefits)
5. Importance of taking into consideration social costs and benefits of infrastructure projects, and possibly of generating an exercise to enable students to think through these costs and benefits related to a specific (or hypothetical) project.

## **MODULE 11 “Public-Private –Partnership (PPP) in water management”**

1. Use the terminology PSP (private sector participation) rather than PPP,
2. Include Financing and investment section from modules 5 and 10 into this module due to its relevance to PSP
3. Discuss the following issues in more details:
  - a. Cost recovery /water tariffs
  - b. Sanitation aspects in PSP options
  - c. Limitations faced by poor section of the population in terms of accessibility and affordability
  - d. Equity/efficiency aspects

## **MODULE 13 “Agriculture and IWRM”**

1. Reorganize the module into the following structure:
  - a. Food security /regional politics/virtual water
  - b. Governance in agriculture planning, management and participation
  - c. Water allocation/permits/enforcement/equity and land and water rights
  - d. Water use efficiency / water cost recovery
  - e. Environmental sustainability: Salinity, groundwater level, droughts, floods
  - f. Rural development and poverty
2. Address the following issues:
  - a. Stress on the uniqueness of the region in terms of rural development (where the majority of the poor population reside), water scarcity, and floods and drought mitigation
  - b. Water use efficiency at local management levels (new irrigation techniques, etc.)



- c. Different training needs for industrialized farming irrigation and subsistence /rainfed farming
- d. Water allocation/permits/enforcement /equity
- e. Land and water rights
- f. Women's role in subsistence farming and water management
- g. Water quality
- h. Land tenure and use issues

### **COMMENTS OF WORKING GROUP 3: "LEGAL AND INSTITUTIONAL DIMENSIONS"**

#### **MODULE 2: "Enabling Environment and Institutional Roles"**

1. Change the title of Module 2 into "Enabling Environment, National Planning/Policy"
2. Move the capacity-building issues to Module 15.
3. Emphasize national policies and strategies in IWRM and propose a framework for national plan or policy for decision makers.

#### **MODULE 3 "Legislative and Organizational Frameworks"**

1. Address legislative and regulative issues related to water uses in irrigation and agriculture and deal with them separately from other forms of water uses such as urban and industrial water uses.
2. Emphasize on forward-looking legislation rather than existing legislation that are often outdated and do not meet IWRM needs.
3. Propose that new legislative framework should be written in general terms, as per the Common Law system. The institutional and legislative reform should therefore be dynamic and open to keep reform alternatives possible.
4. Emphasis should be made on the validity of the international law within the international legal order. International treaties should be looked at as part of the national legal order, especially in environment protection and shared water resources issues.
5. Highlight the role of institutions in the enforcement mechanisms, inter-alia the judicial system.
  - a. Add a new section on Institutional and legislative reforms where the following issues would be discussed: Discuss in more details institutional reform needed for the restructuring of the water related institutions to eliminate fragmentation and overlapping between the different institutions/organs and mandates.
  - b. Propose different possible institutional set up.

#### **MODULE 14: "Management of Shared Water Resources in the ESCWA Region"**

1. Use the term shared water resources rather than transboundary water resources
2. Mention that each river basin and shared aquifer should have its own convention/treaty to reflect its specificity.
3. Address gaps in the United Nations Convention Law of Non-Navigational Uses of International Watercourses of 1997 regarding groundwater resources.
4. Rectify the example on the Nile River Basin where it was mentioned that it involved one treaty between Egypt and Sudan (1959). In fact many agreements related to the Nile River Basin were signed. A successful initiative started in 1997 between 10 riparian countries and was a win-win situation.
5. Address the opportunity of creating a regional organization/entity with respect to shared water resources.

#### **MODULE 15: "Capacity building issues and needs in IWRM at the national level and the regional level in the ESCWA region"**

1. Discuss in more details capacity building measures and means for sustaining the capacity (reference is made to ESCWA paper presented in Kyoto).
2. Address capacity building issues in parallel with national reform or in the context of an institutional development program, rather than discussing it from an academic perspective.

# ANNEX IV

## EVALUATION (Percentage) Expert Group Meeting to review a draft document on IWRM for the ESCWA region 29-31 March 2004

QUESTION # 1	Not relevant	Relevant	Highly relevant	No response
Have the topics of the workshop been relevant to your work	0	27	73	0
QUESTION # 2	Long	Adequate	Short	
How do you rate the duration of the workshop	5	91	5	0
QUESTIONS # 3,4&5	No	Partially	Yes	
Has the meeting achieved its objectives	0	50	50	0
Has the meeting been up to your expectation	0	36	64	0
Has the workshop introduced new idea	18	18	59	5
QUESTION # 6	Not Much	Average	Very Much	
How much you have benefited from the workshop	0	41	55	5
QUESTIONS # 7&8	No	Partially	Yes	
Do you think the recommendations and conclusions are significant	0	41	55	5
Do you think there will be difficulties in applying the recommendations	5	68	27	0
QUESTION # 9	Financial	Administrative	Technical	Political
If yes, what type of difficulties	23	15	15	19
QUESTIONS 10-15	Poor	Adequate	V.Good	Excellent
How do you rate the quality of documents	0	23	59	18
How do you rate the quality of discussions	0	5	64	32
How do you rate the level of participation	0	5	50	41
How do you rate the organization of the workshop	0	14	41	45
How do you rate the secretarial services	0	5	27	68
How do you rate the hospitality provided	0	5	14	82