

## REPORT

on

### **the national workshop conducted in Tajikistan within the Cooperative Program of UNESCO-IHE and SIC ICWC of Central Asia “Capacity Building for Integrated Water Resources Planning and Management for Central Asia”**

**1. SIC ICWC of Central Asia together with UNESCO-IHE** (Institute for Water Education, UNESCO IHE, Delft, Netherlands) implements the project named “Capacity Building for Integrated Water Resources Planning and Management for Central Asia” (hereinafter – the Project). One of the project objectives is development of the training system in the water sector of the five Central Asian countries.

In 2010-2011, a series of regional workshops on the preparation of national trainers (training of trainers) was delivered with the assistance of key experts of the foreign project partner (Institute for Water Education) and by using the resources of SIC ICWC in four fields:

- Block # 1. Integrated Water Resources Management (IWRM);
- Block # 2. Improvement of Irrigated Agriculture (IIA);
- Block # 3. International Water Law and Policy (IWLP);
- Block # 4. Regional Cooperation in Trans-boundary Rivers (RCTR)

Leaders of each Block (regional trainers), leading experts of SIC ICWC, have developed training programs, training modules, and prepared a package of required training materials.

**2. The next stage** of the training activity of the project will provide delivery of national workshops in each of the five countries of the Central Asian region.

The first series of the national workshops was conducted in Uzbekistan.

The workshops were held during 12-21 September 2011 in Tashkent city (12-14 September), Samarkand (15-17 September), and Fergana (19-21 September) in consideration of regional conditions of the republic. The topic of the national workshops – «Organization of hydrometry, planning of water use, and improvement of WUA activities» fitted the subjects of several modules in the Block # 1 (IWRM) and the Block # 2 (IIA). 99 specialists were trained, including 34 trainees in Tashkent, 37 trainees in Samarkand, 28 trainees in Ferghana.

The national workshops in Kazakhstan were held in the Southern-Kazakhstan region (Shymkent city, 8-10 November) and Kyzylorda region (Kyzylorda city, 11-12 November).

The topics of these workshops covered all the above-mentioned 4 training blocks/directions (IWRM, IIA, IWLP, RCTR).

52 specialists were trained, including 28 trainees in Shymkent, and 25 trainees in Kyzylorda.

The national workshop in Kyrgyzstan was held in Bishkek city on 8-9<sup>th</sup> of December 2011. The topic of this national workshop covered all the above-listed 4 training blocks/directions as in Kazakhstan. 30 specialists were trained.

The national workshop in Turkmenistan was held in Ashgabat city on 26-31 of January 2012. The topics of this workshop covered all the training blocks (IWRM, IIA, IWLP, RCTR).

12 specialists were trained.

**3.** Two national workshops were planned to hold in **Tajikistan**, one of which is held in Khujand (Sogd Province) on 16-17 February 2012.

Contingent of the audience consisted of leaders (chiefs and deputy chiefs) of District State Department of Water Resources (RGUVH), State Unitary Enterprise (GUP) «Khodjabakirgan»<sup>1</sup>, GUVH units (departments, sectors) GUVH, Sogd Regional Office of Melioration and Water Resources (SOUMWR), Main and Leading Specialists of RGUVH and SOUM WR of Ministry of Melioration and Water Resources (MMWR) in Tajikistan. MMWR of the Republic of Tajikistan assisted and supported in organizing and conducting national training, national trainer strained in regional workshops were the direct organizers of the workshop. SIC ICWC of Central Asia (CA) provided technical, advisory and other assistance in training.

#### **4. Moderators/lecturers:**

- 1) A. A. SATTOROV (IWRM Block) - Main specialist of water resources, science and technique management of MMWR of Republic of Tajikistan (RT), national trainer
- 2) D. HOLMATOV (AIA Block) - Research Associate, GUP “TADJIKNIIGIM” of MMWR of RT, national trainer
- 3) S.E. DAVLATOV (IWLP Block) – Head of Division, MMWR of RT, national trainer
- 4) B.A. GAFAROV (RCTR Block) – Deputy Director of Tajik branch of SIC ICWC CA, national trainer
- 5) A.KHOMIDI – National Coordinator of the Project “IWRM - Fergana”, invited lecturer MIRZAEV N.N. (regional trainer on “IWRM” Block) participated as a moderator and consultant in the national workshop.

#### **5. The main issues considered (subjects):**

##### **5.1 “IWRM” Block:**

- 1) Introduction to IWRM
- 2) Development of a national water policy, development and realization of the national plans for implementation
- 3) The experience, lessons and ways to reform water management and agriculture
- 4) Water resources management (supply) and demand for water. The form and principles of water governance
- 5) The principle of public participation (role, stages, shapes). The transfer of irrigation management (PUIS)
- 6) The results of the implementation of IWRM in the Fergana Valley (project "IWRM-Fergana")

The first 5 topics were taught by national trainer A.A. SATTOROV, sixth theme – by invited lecturer A.KHOMIDI.

##### **5.2 “AIA” Block (Lecturer - D.HOLMATOV):**

- 7) Introduction. Irrigated agriculture in Central Asia, water demands and water use planning
- 8) Information and Control Systems (ICS) and the operation and maintenance of drainage systems
- 9) Management of water consumption and water conservation
- 10) The conditions of economic sustainability of the channels control operation and Water Users Associations (WUAs)

##### **5.3 “IWLP” Block (Lecturer -S.E. DAVLATOV)**

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<sup>1</sup>Main canal – YU.R

- 11) International Law (IL)
- 12) The concept and the essence of the International Water Law (IMP), sources of IMP
- 13) The basic principles and norms of the IL
- 14) International disputes and conflicts related to the use of transboundary water resources
- 15) Mechanisms for resolving international disputes over the use of transboundary water resources

#### **5.4 "RCTR" Block (Lecturer -B.A. GAFAROV)**

- 16) Experience in water and energy resources management of transboundary rivers of the Aral Sea Basin (ASB)
- 17) Methods and tools of complex analysis and integrated water and energy resources management of transboundary rivers of ASB
- 18) Methods and tools for constructing and evaluating scenarios for water and energy sectors of ASB
- 19) Economic instruments for water and energy resources management, the search for consensus on the interstate and inter-sectoral levels
- 20) The organizational structure of inter-state water and energy resources management of transboundary rivers of ASB

#### **6. Participants of the national training (quantity):**

Altogether, the national workshop was attended by 20 specialists-trainees.

**7.** After finishing the training the following trainees were assigned as potential trainers on the basis of evaluation of their active participation and knowledge obtained:

- 1) Block # 1: S. CHALILOVA, Main Specialist of SOUM WR
- 2) Block # 4: M. ABDUSAMADOV, Deputy Chief of SOUM WR
- 3) Block # 2: H.R. HODJIEV, First Deputy Chief of SOUM WR
- 4) Block # 3: H. OLIMOV, Leading Specialist of Kanibadam RGUVH

According to the National Coordinator of the project "IWRM-FERGANA" A.KHOMIDI, candidates for potential trainers are the following specialists:

- 1) H. OLIMOV, Leading Specialist of Kanibadam RGUVH
- 2) B. MIRSOLIEV, Head of Division of Babadjan-Gafur RGUVH
- 3) N. SAIDJODJAEV, Main Engineer of Isfara RGUVH
- 4) A. HODJAMATOV, Head of Division of Chabbor-Rasulov RGUVH

According to the experts, in particular, an expert from SIC ICWC of Central Asia (MIRZAEV N.N.), potential trainers must undergo a preliminary training, and it is desirable to assist them in teaching and methodological context.

**8.** Assessment of the training course and teaching quality (the score was given on the basis of a scoring scale (5 - excellent; 4 - good; 3 - satisfactory; 2 - unsatisfactory; 1 - bad; the final mark by positions and in total was determined as arithmetical mean value).

(Note: in the original questionnaire these scores are given in the following form: "I absolutely agree" (5); "I agree" (4); "Neutral" (3); "I do not agree" (2); "I absolutely disagree" (1)).

A) The training was evaluated by 20 participants:

Questionnaire items and scores (in brackets - variation limits):

- 1) Teaching quality (training's goal is reached) – 4,2 (3-5);
- 2) Enough time for questions, discussions and learning – 3,6 (2-5);
- 3) Theory-practice relation – 4,3 (4-5);
- 4) Method of evaluation of knowledge got by the trainees upon completion of the training courses – 4,2 (4-5).
- 5) Quality of training materials (easy to understand) – 4,3 (3-5);
- 6) Enough time for acquaintance with lecture materials – 4.4 (2-5);
- 7) The materials (notes, hand-outs, etc.) are clear and well-structured– 4,5 (3-5);
- 8) The relevance of the developed training materials - 4,4 (3-5);
- 9) The general (integral) score given to the training course - 4,4 (4-5).

In comparison with the high estimate of the position 6 (Enough time for acquaintance with lecture materials) – 4,4 points, a relatively low score of position 2 (Enough time for questions, discussions and learning) – 3,6 points, which implies the need for more time to teaching the course and this is reflected in the comments of participants.

With an overall assessment of the relatively high rate (4.4 points) and the quality of teaching (4.3 points) the participants more highly rated lecture A.KHOMIDI (coordinator of the project "IWRM-FERGANA") – invited lecturer.

Thus, the national trainers have an average of 4.2 points for the quality of teaching, then as invited lecturer - 4.6 points. This obviously showed a great experience of the invited lecturer in water management, his familiarity with the specific water problems and water resources management in Sogd Province and his experience as a Coordinator of Project “IWRM-Fergana”.

As part of Block "RCTR" the role play was conducted.

B) Main comments and suggestions of trainees concerning various aspects of training are as follows:

- 1) Duration of the training is not enough, and it is hard to master presented material during 1-2 days (this applies to all units –YU.R).
- 2) The need to expand the topics, including more extensive coverage of issues on water use, land reclamation, provision of water supply, WUA activity, water assessment at the grassroots level.
- 3) At the rate of "MVPP" noted the logical interconnection of Blocks. It is recommended to further consider the issues of transboundary water disputes and their resolution mechanisms under international water law.
- 4) It is proposed cover such issues as market relations in the water sector (water and markets), pricing issues.
- 5) The need to add questions and examples of the interdependence of the issues of water use in transboundary and national level.
- 6) Features of the development and implementation of national IWRM plans, the need to link reforms in water sector to land reform.
- 7) The experience and lessons of the reform of water management and agriculture in Uzbekistan.

**9. The information about the Joint UNESCO-IHE and SIC ICWC Project "Capacity Building in the Integrated Water Resources Management and Planning in Central Asia»** was presented by S.E. DAVLATOV, Head of Division, MMWR of RT, national trainer on IWLP Block and MIRZAEV N.N., regional trainer on “IWRM” Block.

The workshop participants thanked the initiators of the joint project of the Institute for Water Education (UNESCO IHE) and SIC ICWC and underscored the importance of the trainings for enhancing the trainees' educational capacity.

Training Center staff carried out preparation of national workshop from December 2011 till first half of February 2012 in cooperation with the persons in charge of the national workshop in Tajikistan.

The interest and support of MMWR Tajikistan represented by the Minister (Mr. Bobokalonov R.B.) and its First Deputy (Mr. Rakhimov S.N.) have played a big role in the successful organization of national workshop.

The national workshops held in Tajikistan like in Uzbekistan, Kazakhstan, Kyrgyzstan and Turkmenistan have shown that the national trainers trained at regional workshops have acquired required skills, become armed with training materials, and are able to deliver trainings in the regional countries on their own and at a highly professional level allowing for local specifics.

In all cases (national workshops in Uzbekistan, Kazakhstan, Kyrgyzstan, Turkmenistan and Tajikistan) the approaches, methods, training materials worked out and tested by SIC ICWC together with its foreign partners from the Institute for Water Education, UNESCO IHE, Netherlands, were applied.

**Note:** The delay in the preparation of this Report was due to uncertainty about the second national workshop in Tajikistan. The information that it will not take place came to be known on May 29, 2012

**Training Center of SIC ICWC in Central Asia**

**May 31, 2012**