

**AGENDA FOR THE 2ND MEETING OF
WORKING GROUP ON WATER SAVING IN IRRIGATED AREAS (WG-WATS)**

12 October 2017, 09.00-10.30 hours (Session I)
12 October 2017, 11.00-12.30 hours (Session II)
Mexico City, Mexico

Strategy Theme: Schemes

Presented by the Chair

Year of Establishment: 2015

Completion of the Mandate: 2021

Scope: (a) water accounting and irrigation auditing (and other ancillary uses); (b) irrigation water measuring devices; (c) assessment of water loss in various components of irrigation systems; (d) various methods and techniques used for water saving in irrigation; (e) policies and strategies for irrigation water saving; (f) charging for Irrigation Services; (g) success stories and best management practices in water saving; (h) tools and processes applied in irrigation water saving; (i) outreach of water saving technologies; and (j) WatSave Awards.

Website: <http://wg-wats.icidonline.org/>

WG-WATS Agenda Item 1: Action taken report by Chair

1. The Chair will present report on the actions taken on the decisions and proposals of the working group at its last meeting held at Chiang Mai in November 2016.

2. No new nominations have been received from NCs during the year. Eng. S. Mohanarajah (Sri Lanka) and Mr. Abijit Joshi (Jain Irrigation Systems Limited) have not contributed to the activities of the WG during last two years. In January 2017, the Central Office followed-up with the Sri Lankan National Committee and Jain Irrigation Systems Limited for the replacement however, there is no response from them and hence membership of Eng. Mohanarajah and Mr. Joshi is discontinued. Chairman in consultation with Vice Chair, Secretary of the WG and the Central Office have updated the membership of the WG as given at **Annex 1** (*refer electronic version for latest list*). New nominations, if any, for the membership received will be dealt suitably after the meeting.

SUPP: Pakistan National Committee (PANCID) vide their email of 8 September 2017 has nominated Dr. Ashfaq Ahmed Sheikh for the membership of the group.

WG-WATS Agenda Item 2: Road Map to ICID Vision 2030: Activities on water saving in irrigated areas

3. During the Chiang Mai meeting, the group discussed and finalized the draft ICID Action Plan 2030. Based on the inputs from the workbodies at the 67th IEC and fresh inputs received upto March 2017, the Consultative Group (CG) on Action Plan 2030 finalised Action Plan for ICID as presented in their report "A Water Secure World Free of Poverty & Hunger : A Road Map to ICID Vision 2030". Action Plan for WG-WATS as presented in CG report is given as **Annex 2**. During Chiang Mai meeting, the group identified some activities for actions and deliverables for the WG. Brief update on actions initiated on these is given below for further deliberation during Mexico meeting of the group.

- (a) **Goal A: Activity 3.2 - Best Practices and Successful Story on Water Saving:** At the Chiang Mai meeting, the group decided to organize a Seminar / Symposium on 'Water Saving' to explore all those innovations and success story and share outcome with the professional experts and policy makers. In April 2017, Chair proposed that since the theme of 23rd Congress Question 60.1 'Emerging issues and challenges of water saving' already covers the objective of the proposed seminar on best practices and successful story on water saving so there is no need to organize a separate seminar on the topic by the WG. Chair Mr. Mehrzad Ehsani is one of the Panel of Experts/Co-Chair and Mr. Soman is one of the reviewers of the papers for question 60.1. Chair will provide brief updates of the outcome of discussion on this question during the meeting of the WG.
- (b) **Goal B: Activity 1.4-Policy and legal approaches to water saving:** At Chiang Mai, the group agreed to identify, collect, review and analyse the appropriate law and regulation of countries in order to provide a handbook on the above topic. Ms. Jianxin Mu (China) agreed to develop questionnaire to collect the information from the NCs for preparing the first draft of a unique framework and template including topics and subtopics. In February 2017, Ms. Jianxin Mu informed that the draft questionnaire on policy and legal approaches to water saving is under preparation. Ms. Jianxin Mu/ Chair will provide further updates at the meeting.

SUPP: On 19 September 2017, Prof. (Mrs.) Jianxin Mu (China) has submitted the draft "Questionnaire on Laws and Regulations of Countries for Technical Guidance on Policy and Legal Approaches to Water Savings" as contribution

to activity 1.4. Chair Dr Mehrzad Ehsani has suggested to include the draft blank questionnaire (**Annex 4**) for discussion during the WG meeting.

- (c) **Goal B: Activity 1.5 - Water Charging Policies:** During Chiang Mai meeting, the group agreed to start preparing a technical book on water charging policies and mechanism to collect water charges. Chair volunteered to make the first draft of framework and template for collecting the required information. In April 2017, Chair Mehrzad Ehsani circulated the draft of technical framework for collecting information for Technical Book on Water Charging Policies (**Annex 3**) to the members of the group for their review/ comments so that the final version can be circulated to all National Committees for collecting information. In May 2017, VPH Dr. Gerhard Backeberg has suggested that water charging policies of ICID member countries should be investigated from the perspective of how water charging can contribute to water saving. Accordingly he proposed to change the activity to “Assess the extent to which charging for water use can contribute to water saving”. Members would deliberate on the issue and decide on further action to finalise contents of the book and initiate collection of required information.
- (d) **Goal B: Activity 1.11 - State of the art on water saving:** In order to highlight the most recent researches and newest ideas on the scope of this working group, members decided to prepare an overview paper on the state of the art on the aspects of management, technology, technique and policies for water saving in irrigated areas. It was proposed that the paper would be submitted for publishing in ICID Journal on Irrigation and Drainage. In February 2017, VPH Dr. Gerhard Backeberg informed that he in association with Dr. Stevens will finalise the draft framework for the paper for requesting contribution from all member countries of ICID and members of WATS for preparing state of art on water saving. Dr Backeberg/ WG Chair will provide further updates at the meeting.
- (e) **Goal C: Activity 4.8 – Condensed overview of existing key books, manuals, guidelines and other relevant publications on water saving:** During the Chiang Mai meeting, the group discussed the topic on overview of existing key books, manuals, guidelines etc. on water saving and Mr. Mortaza Yazdekhashti (Iran) volunteered to take up the task with the cooperation of other working group members and requested WG members to send any articles and books which are new in this area of knowledge. Mr. Mortaza Yazdekhashti/ Chair will provide further updates at the meeting.

WG-WATS Agenda Item 3: Presentation by the WatSave Award winner(s)

4. As decided at Montpellier meeting, in order to compile success stories and best management practices in water saving which includes techniques, technology, management and innovation, the Watsave Awards winners are being requested to share their experience and present their respective works during the meeting of the WG. Accordingly, two winners from China and Thailand shared/ presented their respective works on water saving during Chiang Mai meeting which provided a very good opportunity to exchange the experiences among members.

5. In 2017, seventeen nominations have been received for four categories of WatSave Awards (viz. technology, management, young professional and farmer) from nine National Committees viz. Australia, Brazil, China, Egypt, Hungary, India, Iran, Iraq, and Turkey. ICID Central Office, in consultation with the WG Chair, would invite the WatSave Award winners, who would be present during IEC meeting to receive award in person, to share their experience and present their respective works in the WG meeting.

WG-WATS Agenda Item 4: Dissemination of activities of WG – Website of the group

6. The website of the working group <http://wg-wats.icidonline.org/> has been updated with the new membership list, agenda, minutes, links, publications etc. In February 2017, VPH Dr. Gerhard Backeberg has informed that articles/ reports related to water saving were uploaded by the Water Administration System (WAS), South Africa on their website www.wateradmin.co.za. He also provided list of many interesting reports brought out by WAS which has been uploaded on the group's website.

7. Members are requested to provide interesting articles/ papers/ presentations/ documents related to the activities of the group for uploading on the ICID website. Members may like to discuss and evolve methodology for sharing of information and updation of WG website.

WG-WATS Agenda Item 5: Updating Multilingual Technical Dictionary (MTD)

8. During Chiang Mai meeting, the group discussed the reviewing and updating the existing MTD. It was decided that the WG members would review the terms in the existing dictionary to consider whether any additional terms are required to be included to cover aspects related to water saving in irrigated area. Ms. Kyung Sook Choi (Korea) volunteered to review the MTD, as well as gather other working group members to review and complete the task. In February 2017, the Central Office followed-up the matter with Ms. Choi to initiate the review process and provide updates. Ms. Choi/ Chair will provide further updates at the meeting.

9. As per Resolution IEC-2/67 held at Chiang Mai on 12 November 2016, the Council approved the establishment of a Task Force for Updation and Maintenance of Multilingual Technical Dictionary (TF-MTD) under the Chair of PCTA consisting of Chair or its representatives of the WG-IDM, M&R, SON-FARM, SDRG and IOA, and representatives of FAO, IWMI, ADB as its members. ICID vide notification 14 of 2017 dated 10 July 2017 notified

establishment of TF-MTD. The Task Force will hold its first meeting during 68th IEC in October 2017 and shall report progress of its activities to IEC through PCTA. Further work on updation of MTD will be taken up as per direction of TF-MTD.

WG-WATS Agenda Item 6: Any other business

NOTES FOR CHAIRPERSON:

1. Draft minutes of this meeting to be submitted to ICID Secretariat at Mexico City (Mexico) after the meeting.
2. Chair to participate and present the WG report to PCTA meeting on 13 October 2017.

Members and their attendance at 2015 and 2016 meetings

Sl. No.	Members	Member from (Year)	2015		2016		Remarks
			Self	Contributed by mail	Self	Contributed by mail	
1.	Mr. Mehrzad Ehsani, Chairman (Iran)	2015	•		•	•	
2.	VPH Adama Sangare, Vice Chairman (Mali)	2015	•		•	•	
3.	Mr. Mortaza Yazdekhasti - Young Professional, Secretary (Iran)	2016			•		
4.	Prof. (Ms.) Kyung-Sook Choi (Korea, Rep. of)	2015	•		•	•	
5.	VPH M. Hassan Amer (Egypt)	2015	•			•	
6.	Dr. Hassan Aboalbasher Ali (Sudan)	2015			•		
7.	Dr. P. Soman – Direct Member, Jain Irrigation Systems Limited – JISL (India)	2015			•	•	
8.	Dr. Joe Stevens (South Africa)	2016			# ¹	•	
9.	Ms. Jianxin Mu (China)	2016			•	•	
10.	Mr. Kamal Kumar Jangid (India)	2016					Provisional member No contribution since Chiang Mai. Recommended for discontinuation after Mexico meeting if no contribution
11.	Mr. Yalçın Dalgın (Turkey)	2016					Provisional member No contribution since Chiang Mai. Recommended for discontinuation after Mexico meeting if no contribution
12.	Mr. Dhuha Mahmood Hussein (Iraq)	2016					Provisional member No contribution since Chiang Mai. Recommended for discontinuation after Mexico meeting if no contribution
13.	Mr. Mohammed Alaa Dheyaa as Young Professional (Iraq)	2016				•	
14.	Eng. S. Mohanarajah (Sri Lanka)	2015					Discontinued No contribution during last two years.
15.	Mr. Abijit Joshi – Direct Member, JISL (India)	2015					Discontinued No contribution during last two years.
16.	Secretary General, ICID				•		
	Permanent observers						
(i)	Mr. S.P. Jadhav – Direct Member, JISL (India)	2015				•	
(ii)	IWMI Representative (Mr. Ian W. Makin – UK)	2015	•			•	
(iii)	FAO Representative (Ms. Robina Wahaj)	2015	#			•	

New nomination received from the National Committee

¹ #Through representation

Sl. No.	Name	Country	Remarks
(1)	Dr. Ashfaq Ahmed Sheikh	Pakistan	Recommended subject to his presence or else Provisional Member



ROAD MAP TO ICID VISION 2030 – ACTIVITIES OF WORKBODIES

Goals/ Strategies	Activities	Outcomes/ Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021
Goal A: Enable higher crop productivity with less water and energy							
A3. Strategy: Improving water saving techniques and technologies	3.1 Support Watsave award winner selection	Awards	Presenting Annual Watsave Awards	Presenting Annual Watsave Awards	Presenting Annual Watsave Awards	Presenting Annual Watsave Awards	Presenting Annual Watsave Awards
	3.2 Best Practices and Successful Story on Water Saving	Documents	Workshop on Watsave awards	Announcing annually for watsave awards and selecting successful stories	Announcing annually for watsave awards and selecting successful stories	Announcing annually for watsave awards and selecting successful stories	Setting up 10 years respective work as the documents and release by CO (2010 -2020)
Goal B: Be a catalyst for change in policies and practices							
B1. Strategies: Supporting development of appropriate policies	1.3 Disseminate the water saving award technologies	Workshop proceedings					
	1.4 Policy and legal approaches to Water Saving	Policies/ Document	Breakdown the works in the WG	-Workshop -Designing and preparing questionnaire to collect data	Collecting and reviewing relevant laws and regulations from NC	Providing first draft	Finalize the book on policies and strategies drives on water saving
	1.5 Water Charging policies	Position paper	Define responsibility in WG	Designing Standard questionnaire	Reviewing Water Charging procedure on NC	Providing first paper	Final Paper
	1.11 State of the art on water saving	Journal Paper		Preparation of the draft of first paper	Submission of first paper for IRD	Preparation of the draft of second paper	Submission of second paper for IRD
Goal C: Facilitate exchange of information, knowledge and technology							
C1. Strategies: Providing knowledge sharing platform for AWM professionals	1.1 Organize Workshop, Seminar and Symposium	Compilation of proceedings	Seminar/ Symposium on Water Saving	Workshop			Workshop
C4. Strategy: Compile, collate and share knowledge and experiences	4.8 Condensed overview of existing key books, manuals, guidelines and other relevant publications on water saving	Technical report		Release the first report		Release the second report	Release of third report

(Source: Consultative Group (CG) Report: A Water Secure World Free of Poverty & Hunger: A Road Map to ICID Vision 2030)



Technical Framework

**AGRICULTURAL WATER CHARGING
Country Report**

(Max length 12 pages)

1. **Introduction – Very brief overview (max 1.5 pages)**
 - ❖ General country information such as climate, population, food and water security policy,
 - ❖ Agriculture and water resources development, including Rain fed & Irrigated Agriculture;
 - ❖ Irrigation infrastructure; Irrigation and drainage development, Annual Water Withdrawal and consumption from surface and Ground-water Resources for crop production, etc.
 - ❖ Ownership and governance of irrigation schemes;
2. **Policies and Institutions on Irrigation Water Charging (max 2 pages)**
 - ❖ Rules and regulations on irrigation water charging;
 - ❖ Policies on surface and groundwater charging;
 - ❖ Water charging policies for lands with specific water-right comparing with new developed land;
 - ❖ Legal Authority & Policy levels for offering and approving the rates (Tariffs);
 - ❖ Conflict regulations policy and responsibilities (example unpaid water price; conflict of water price rate);
 - ❖ The level of irrigation services and level of prices.
3. **Process of Water Charging Determination (max 2 pages)**
 - ❖ Mechanism and formulation of agricultural water charging for specific crops or irrigated lands;
 - ❖ Services provide to farmers by administration;
 - ❖ Effective factors on agricultural water charging rate (Measure and criteria);
 - ❖ Examples for water charging tariff based on volumetric water delivery and/or different type of crops or even per hectare water charges (non-volumetric methods) (US dollar);
 - ❖ Case studies;
4. **The Method of Collecting Water Charging (max 1.5 pages)**
 - ❖ Methods of measuring water delivery to the Farmers;
 - ❖ Methods and mechanism of receiving water price (Payment methods), etc.
 - ❖ Constraints to collect water charging (lack of motivation to pay, weak institutional mechanisms, lack of reliable system and etc.)
 - ❖ Successful stories
5. **Cost Recovery (max 1 page)**
 - ❖ Analyses of collecting water fees from users to recover system costs including O&M costs).
 - ❖ Assessing costs of operation and maintenance of irrigation scheme;
 - ❖ Cost recovery analyses;

6. Summary and Conclusion (max 1 page)

- ❖ Bottlenecks /issues/ concerns on water charging policies, payment, collecting systems;
- ❖ How these issues were overcome;
- ❖ The impact of water charging on water saving;
- ❖ the capacity and feasibility study of Increasing Water Price in the Irrigated Areas;
- ❖ The Farmers' satisfaction from the irrigation services;
- ❖ Recommendations for improving the situation, etc.

7. References, maps, tables (as needed)



Annex 4 [Appendix XXXI, Item 2]

**Questionnaire on Laws and Regulations of Countries for
Technical Guidance on Policy and Legal Approaches to Water Savings**

	Questions	Yes	No	Answers
Part 1	General Rules			
1	Please list the water-related laws and regulations in your country.			
2	Do you have Water Law in your country?	Yes ()	No ()	
	If yes, please elaborate the mission of the Water Law			
	If yes, please elaborate the items related to water savings in the Water Law			
3	Do you have laws and regulations on water savings in your country? If yes, please list the names of these laws and regulations and detail the purpose and basis for the introduction of the regulation.	Yes ()	No ()	
4	Please detail the basic principles in water savings in your country			
5	Please detail the government duties in water savings in your country			
6	Please detail the management system in water savings in your country			
Part 2	Primary Management System			
7	How do you make water saving plan in your country?			
8	Do you have any regulations in control of water use amount and intensification ?	Yes ()	No ()	
9	Do you require water resources argumentation some industrial, agricultural and energy development planning involved in significant water resources allocation?	Yes ()	No ()	
10	Do you implement sectoral water use quota system in your country?	Yes ()	No ()	
11	Do you implement water use supervision system in your country	Yes ()	No ()	
12	Do you implement water measurement system in your country	Yes ()	No ()	
13	Do you implement water statistics system in your country	Yes ()	No ()	
14	Do you implement water balance measurement system in your country	Yes ()	No ()	
15	Do you implement water use efficiency identification system in your county?	Yes ()	No ()	
16	Do you implement water use efficiency identification system in your county?	Yes ()	No ()	
17	Do you implement water saving products authentication system in your county?	Yes ()	No ()	
Part 3	Optimal Allocation and Efficient Use			
18	Do you establish water saving society in your county?	Yes ()	No ()	
19	Do you implement whole-process water savings in your country?	Yes ()	No ()	
20	Do you encourage use of unconventional water resources in your country?	Yes ()	No ()	
21	What kind of water saving technologies and measures are mainly applied in your country?			
22	Do you encourage rainwater harvesting in your country?	Yes ()	No ()	
23	Do you implement water savings in rural domestic use in your country?	Yes ()	No ()	
24	Do you implement industrial water savings in your country?	Yes ()	No ()	
25	Do you encourage urban water savings in your country?	Yes ()	No ()	
26	Do you encourage reclaimed water use in your country?	Yes ()	No ()	

	Questions	Yes	No	Answers
27	Do you encourage urban rainwater harvesting in your country?	Yes ()	No ()	
Part 4	Encouragement and Support Measures			
28	Please detail the investment policies in water savings in your country.			
29	Does your country encourage social investment into water savings?	Yes ()	No ()	
30	Do you have tax incentives in water savings in your country?	Yes ()	No ()	
31	Does your country award and subsidize water savings ?	Yes ()	No ()	
32	What kind of financial policies in water savings are applied in your country?			
33	What kind of water price policy is adopted in your country?			
34	Do you encourage water right trading in your country?	Yes ()	No ()	
35	Do you implement water saving supervision mechanism in your country?	Yes ()	No ()	
36	How do you implement water saving management in your country?			