

**Minutes of the 2nd Meeting of
WORKING GROUP ON IRRIGATION DEVELOPMENT AND MANAGEMENT (WG-IDM)**

11 October 2017, 13.30-15.00 hours (Session I)
11 October 2017, 15.30-17.00 hours (Session II)
Mexico City, Mexico

Strategy Theme: Schemes

Presented by the Chair

Year of Establishment: 2015

Completion of the Mandate: 2021

Scope: (a) assessment of consumptive use of water for irrigation and resulting water balance at system level ; (b) water demand management according to available resource(s) and system capacity; (c) assessment of water loss in various components of irrigation systems, appraisal of water made available for another use downstream (non-consumptive); (d) ground water development and management for irrigation including conjunctive use of surface and groundwater in irrigation, artificial recharge of aquifers from canals "losses" and "excessive" irrigation; (e) water measuring methods and devices and relevant technology (flow rates and volumes); (f) drivers for and resistances at system level to improve irrigation management; (g) social issues to be considered along with technical and economical ones; (h) management of multi-use hydraulic systems, and interdependence between uses; (i) performance evaluation of irrigation schemes and benchmarking; (j) ways towards economical performance enhancement (cost reduction and efficiency improvement).

Member Present: (1) Ms. Mary Jean Gabriel, Chair (South Africa); (2) Dr. Katsuyuki Shimizu, Secretary (Japan); (3) Dr. Ming-young Jan (Chinese Taipei); (4) Mr. Mukhlis Zainol Abidin (Malaysia) represented Ir. Mat Hussin bin Ghani; (5) Er. Harish K Varma represented Secretary General Avinash Tyagi.

Permanent Observer: VP Ian Makin (UK)

Observers: (i) Mr. Najumuddin Anjum (Afghanistan); (ii) VP Ding Kunlun (China); (iii) Mr. Ephraim Sekyi-Annan (Ghana); (iv) Dr Narges Zohrabi (Iran); (v) Mr. Takeshi Kikutsuji (Japan); (vi) Mr. Mitsuo Ishijima (Japan); (vii) Ms. Mu Mu Than (Myanmar); (viii) Mrs. Oluniyi Esther Oyeronke (Nigeria); (ix) Mr. Olufemi Odumosu (Nigeria); (x) Dr. Ado K. Abdullahi (Nigeria); (xi) Mr. Michael I Nwabufo (Nigeria); (xii) Mr. Olayiwola Baruwa (Nigeria); (xiii) Ms. Monaliza F. Delos Reyes (Philippines); (xiv) VPH Felix Reinders (South Africa); (xv) Mr. Siboniso Mkhali (South Africa), (xvi) Dr. A. Senzanje (South Africa).

Website: http://www.icid.org/wg_idm.html

WG-IDM Minutes Item 1: Action taken report by Chair

1. Chair welcomed the members and presented a 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. Egyptian National Committee (ENCID) nominated Eng. Mohammed Omar Makram Afify – a Young Professional and the Pakistan National Committee (PANCID) nominated Mr. Tariq Altaf for the membership of the group. Both the nominations were provisionally accepted as they were not present during the Mexico meeting. Membership status is given in **Annex 7 (page 55)**.
3. Member from Iran viz. Mr. Mohammad Kazem Siahi and provisional members from Iraq have not contributed to the activities so the group recommended to discontinue their membership and invite new nominations. Dr Narges Zohrabi (Iran) is currently a member of WG-IDM so a new member would be invited from Iraq National Committee as well as from other NCs.

WG-IDM Minutes Item 2: Road Map to ICID Vision 2030 - Activities on irrigation development and management

4. During the meeting, the WG reviewed the Road Map to ICID Vision 2030 and felt that the timeline for achieving various milestones and activities under action plan for the WG need to be modified keeping in view the revised scope and mandate and availability of resources. Accordingly, WG modified its action plan as well as assigned certain tasks to its members (refer **Annex**).
5. Chair reiterated that the group need to focus on the approach of water balance in irrigation with the objective to develop appropriate guidelines in this respect, as per discussion during Chiang Mai meeting. The group also decided to address the issues and challenge related to ensuring success of relevant and efficient water management in irrigation on a system level (i.e. drivers and resistances, social issues, management of multi-use systems, technical and economical performance).

WG-IDM Minutes Item 3: Presentation by the working group members

6. During the meeting, three presentations were made by the members *viz.* (i) "Irrigation development and management in Japan" by Secretary Dr. Katsuyuki Shimizu (Japan); (ii) "Water + Power: Floating solar power system - Agondian reservoir, Southern Taiwan" by Dr. Jan Ming-Young (Chinese Taipei); and (iii) "Efficient irrigation by applying a water balance" by VPH Felix Reinders (South Africa). These presentations have been uploaded on the WG website.

WG-IDM Minutes Item 4: Exchange of information, knowledge & networking**WG-IDM Minutes Item 4.1: Website of the WG**

7. WG chair requested members for their active participation in the activities of the WG and facilitate exchange of information, knowledge and experience, as well as networking on the topic in order to be up to date with new developments, methods and approaches. Members were also requested to provide interesting articles/ papers/ presentations/ documents related to the mandate of the WG-IDM from the respective countries and National Committees for uploading it on the ICID website http://www.icid.org/wg_idm.html.

WG-IDM Minutes Item 4.2: Webinars/ Web based seminars

8. The group discussed about organization of webinar and noted that the first webinar held on 1 March 2017 was presented by VPH Felix Reinders on the topic "Water Use Efficiency". Chair requested members to suggest topics for webinars to be organised during 2018 so as to share knowledge and experience with other professionals within and outside ICID fraternity.

WG-IDM Minutes Item 5: Updating Multilingual Technical Dictionary (MTD)

9. During the meeting, the WG discussed about updating of MTD and after discussion WG identified the following chapters: (5) Head works; (6) Design of irrigation canals; (7) Canal structures; (8) Project water management; (17) Operation, maintenance and management, which relate to mandate of the WG. Dr. Katsuyuki Shimizu, Secretary of the WG also volunteered to take up the task of updating the MTD at the meeting.

WG-IDM Minutes Item 6: Brief report on "Water accounting for agriculture" – Dr. Amgad Elmahdi

10. In absence of Dr. Amgad Elmahdi (Australia) at Mexico meeting, the item on water accounting for agriculture was not discussed by the group. However, the members may note that Food and Agriculture Organization (FAO) organized an online discussion on "Water Accounting & Water for Food" from 9 June to 21 July 2017 in which ICID and several of its stakeholders participated actively. This discussion was organised as part of the World Water Council (WWC) Members' initiative on water accounting for decision making in the agricultural sector facilitated by FAO. The main objective of the initiative was to raise the awareness on the relevance of water accounting for decision making and planning and gather evidences and experiences through a process consisting of expert consultations and policy level interactions.

11. Some water accounting examples from around the world were also shared during the discussion and in the middle of the 6-week discussion ICID organized a Webinar in July 2017 on Australian experiences of water accounting and its use in national water management delivered by Dr. Amgad Elmahdi (Australia). The Webinar was very well attended by both ICID members and the participants of the above FAO online discussion. In addition, similar webinars on water accounting were delivered by Dr. Gonzalo E. Espinoza (UNESCO-IHE) in Spanish and Dr. Yasir A. Mohamed (UNESCO-IHE) in Arabic.

12. As a follow up of the above discussion, WWC members including ICID, have started the development of a White Paper on Water Accounting for planning and decision making in agricultural management. Considering the potential utility of Water Accounting as a policy development tool, ICID is also engaged in developing a detailed position paper, based on the ICID work on water balance approach over the last several years and its ongoing activities, for sharing with NCs as well as international partners including WWC and FAO.

WG-IDM Minutes Item 7: Workshop on water balance approach, 2018

13. WG noted that as per action plan of the WG, a Workshop on Water Balance Approach and how to conceive guidelines is proposed during the year 2018. However, due to paucity of time no decisions were made on this matter and it was agreed to discuss matter further in next meeting of the WG through web ex or in the meeting at Saskatoon.

WG-IDM Minutes Item 8: Any other business

Annex [Appendix XXVII, Item 2]

ROAD MAP TO ICID VISION 2030 – ALLOCATION OF TASKS

Goal/ Strategies	Activities	Outcomes/ Outputs	Responsible person
Goal A: Enable higher crop productivity with less water and energy			
A1. Strategy: Modernizing irrigation systems	1.1 Develop a program for introducing standards for irrigation systems	Standards for Irrigation and Drainage	Dr Ming-Young Jan / Ms M J Gabriel
	1.2 Report or case studies on recent development in Irrigation Drainage Management	Case studies Presented in WG meetings	Dr Narges Zohrabi
A6. Strategy: Improving performance of irrigation systems	6.1 Investigating and providing information on the positive amenities, services and goods provided by irrigation systems (in consultation with WG-ENV)	Technical Report	Dr Shimizu
	6.7 Identify drivers and social resistances within the systems to improve Irrigation management	Report	TBD
Goal B: Be a catalyst for change in policies and practices			
B1.Strategy: Support development of appropriate policies	1.14 Report on South-South cooperation for capacity development in the field of irrigation management	Report	TBD
B3. Strategy: Integrated Irrigation and Drainage Management	3.1 Assess methods and develop guidelines on relevant water balance approach	Guidelines	Mr Ian Makin (to assist)
Goal C: Facilitate exchange of information, knowledge and technology			
C1.Strategy: Providing knowledge sharing platform for AWM professionals	1.3 Organize Workshop, Seminar and Symposium on Water Balance Approach	Proceedings	TBD
C4.Strategy: Compile, Collate and Share Knowledge and Experiences	4.9 Condensed overview of existing documents and practical examples on water balance approach	Technical Report	Ms MJ Gabriel
	4.17 Overview paper on the Irrigation Development for publication in Irrigation and Drainage (IRD)	Technical Paper	TBD
Goal D: Enable Cross Disciplinary and Inter-Sectoral Engagement			
D2. Strategy: Developing Technical Documents in Non-technical Language	2.3 Investigating and documenting the social and economic impacts of irrigation systems	Technical report	TBD
Goal E: Encourage research and support development of tools to extend innovation into field practices			
E6. Strategy: Dissemination of useful research outputs	6.2 Investigate and report on state of research, barriers or locks and promising paths in the field of irrigation management	Technical report	TBD



