

**MINUTES OF THE 5TH MEETING OF
WORKING GROUP ON MODERNIZATION AND REVITALIZATION OF
IRRIGATION SCHEMES (WG-M&R)**

05 September 2019, 14:00-16:00 hours (Session I)

05 September 2019, 16:15-18:15 hours (Session II)

Bali, Indonesia

Strategy Theme: Schemes

Presented by the Chair

Year of Establishment: 2015

Completion of the Mandate: 2021

Scope of work: To investigate, analyse, disseminate information on new developments and to formulate recommendations with respect to: Planning and preparation for modernization and revitalization of irrigation schemes; Interaction between modernization, revitalization and required operation and maintenance; Cost sharing for modernization, revitalization and required operation and maintenance; Institutional and organizational framework required for modernization, revitalization and operation and maintenance; Methods and techniques of lining of conveyance and distribution canals; Canal control systems with respect to their automation, using internet, mobile communication and remote monitoring in canal operation; Modification to improve communication, operational capacities and flexibility in operation and maintenance of systems; Standardization and codes of practice in irrigation systems.

Members Present: (1) VPH Ian Makin, Chair (UK); (2) Dr. Dong Bin, Vice Chair (China); (3) Engr. Muhammad Sani Bala, Secretary (Nigeria); (4) Ir. Eko Subekti (Indonesia); (5) Dr. Yohei Sato (Japan); (6) Dr. Kwang-Sik Yoon (Korea, Rep. of); (7) Ms. Mona Liza Delos Reyes (Philippines); (8) Engr. Reyne B. Ugay (Philippines); (9) Dr. Chih-Hung Tan (Chinese Taipei).

Observers: (1) VPH Shinsuke Ota (Japan); (2) Robyn Johnson (Australia); (3) Li Yinong (China); (4) Murtinin Grum (Indonesia); (5) Aminmullah Syar (Indonesia); (6) Sigt S. Ali (Indonesia); (7) Rizal Siregar (Indonesia); (8) Abin Lee (Korea, Rep. of); (9) Garantigui Traore (Mali); (10) Remco Dost (Netherlands); (11) Iliya M. London (Nigeria); (12) Ali Mohammed Abdulkarim (Nigeria); (13) Ipinlaye Olaiyu (Nigeria); (14) Mamman Modu (Nigeria); (15) Abegte Ibrahim A. (Nigeria); (16) Engr. D.B. Madu (Nigeria); (17) Ally Ailyne C. Agtuca-Sevoa (Philippines); (18) Portia S. Angulo (Philippines); (19) Imedlda G. Timbang (Philippines); (20) Kun-Hsien, Lin (Chinese Taipei); (21) Tseng-Ching, Tang (Chinese Taipei); (22) Ching Yuang (Chinese Taipei); (23) Lin Feng Sheng (Chinese Taipei); (24) Kang-Han Fan (Chinese Taipei); (25) Lin Chun Chi (Chinese Taipei); (26) Chiang Shih Chi (Chinese Taipei); (27) Yuan Tau An (Chinese Taipei); (28) Chia Yi Chien (Chinese Taipei); (29) Ksieh Kun-Cheng (Chinese Taipei).

Webpage: http://www.icid.org/wg_mnr.html

WG-M&R Minutes Item 1: Action taken report by Chair

1. At the onset, the Chair welcomed all the members and briefed on the latest status on the action point emerging from the minutes of the previous meeting of the WG held at Saskatoon, Canada.
2. Mr. Vyacheslav Rozhon (Ukraine), Mr. Bir Singh Dhami (Nepal), Ms. Meral Çiçek (Turkey) and Mr. Firas Hussain Ali (Iraq) neither attended the meeting nor contributed to the activities of the group for more than one year so the group suggested to invite new nominations from the respective NCs. The group noted that Mr. Mehrzad Ehsani is also a Chair of WG-WATS and hence he is unable to attend the meeting at the same time. Mr. Ehsani proposes a new candidate for the membership for which WG welcomes. The group noted that Dr. Brian T Wahlin (USA) has been contributing to the activities of WG through correspondence.
3. Dr. Mona Liza Delos Reyes (Philippines) participated in the meeting and introduced her research interests and the group accepted his membership while Eng. Reyne B. Ugay (Philippines) was not present but was represented by Portia S. Angulo (Philippines). After discussion, the group accepted membership of Eng. Reyne B. Ugay subject to his participation in the WG activities by correspondence or presence at the next meeting in Sydney in 2020.
4. In addition, Engr. Sani Bala (Nigeria) requested the WG to accept the participation of an additional five (5) representatives from Nigeria as members, namely (i) Iliya M London; (ii) Ali Mohammed Abdulkarim; (iii) Ipinlaye Olaiyu; (iv) Alammon Mody; (v) Ibrahim A. Abegte. Chair welcomed the strong interest from the Nigeria National Committee and informed that each NC may nominate 4 members of the WG, provided at least one of the additional members is a young professional and the others are welcome to participate as Permanent Observers (refer *ICID Bylaws* 3.5). The group requested ICID Central Office to follow-up with the Nigerian NC to confirm the names of the members and Permanent Observers. Membership status is given in **Annex 4 (page 27)**.

5. Chair reported on the preparation of the International Workshop (*refer Item 2 below*) and thanked members of the WG for their contributions to the review and finalization processes.

6. A representative of a commercial organization asked how innovative companies could promote new ideas through ICID. He noted that without policy buy-in in countries, adoption of innovation is difficult and asked whether ICID could assist in promoting new innovations and technologies. Chair encouraged them to participate fully in ICID conferences and working groups which seek to do exactly that. The WG noted that partnership with local entities was more likely to be successful compared to stand-alone international organizations.

7. After discussion with Chair WG-IDM (Mary-Jean Gabriel – South Africa), it was proposed that the WG-M&R and WG-IDM either schedule at different times or organize joint sessions at future meetings. Members of WG-IDM joined the WG-M&R for the closing session wherein it was agreed to work together on further terms for the MTD.

WG-M&R Minutes Item 2: Road Map to ICID Vision 2030 – Status of activities on modernization and revitalization

8. WG discussed and considered the following actions agreed in relation to the Road Map (*refer Annex*), namely:

A1. Strategy: Modernizing irrigation systems

1.4 Preparation and presentation of Case studies

9. A further 9 case studies have been prepared and presented at the International Workshop on 1 September 2019. An additional case study from Indonesia was presented during the WG-M&R on 5 September, making over 20 case studies available. Further case studies on selected aspects of modernization will be prepared for inclusion in publication for Sydney (*refer Item 1.5 below*).

1.5 *Prepare an overview paper on State of the Art on Modernization of Irrigation Systems*

10. Available case studies will be summarized and collated as a state-of-the-art paper which will form the basis for preparing guideline on modernization (*refer item 1.6 below*). A revision to the proposed definition of modernization will be developed for consideration by the WG-M&R to increase the focus on services to farmers but retaining the overall philosophy developed in the working definition of modernization finalized by the WG earlier.

1.6 *Develop Guidelines for Modernization of Irrigation systems*

11. It was proposed that based on case studies presented – a generic guideline on processes will be developed.

A2. Strategy: Improving O&M of Irrigation Systems

2.1 *Advocacy paper to draw attention to the needs of adequate resources for O&M*

12. The group noted that it was deleted in Saskatoon. It was proposed that it will be addressed through the proposed survey on O&M norms and subsequent paper.

2.2 *Develop norms of O&M of Irrigation systems*

13. After discussion, it was proposed to postpone until current publications completed. Planning for publication in 2020 / 2021.

B1. Strategy: Supporting development of appropriate policies

1.9 *Prepare position Paper on Key Issues on Modernization of Irrigation Schemes*

14. The group noted that it was proposed for WWF 8 but could not be done. Due to other activities in hand, it was proposed to postpone till current program of works are completed.

C1. Strategy: Providing knowledge sharing platform for AWM professionals

1.5 *Organize Workshops, Seminar and Symposium on modernization*

15. The group organized the International Workshop during WIF3 at Bali on 1 September 2019 wherein 9 case studies presented and discussed. More than 70 professionals participated in the workshop.

F4. Strategy: Developing and sharing AWM knowledge

4.4 Condensed overview of Key books, manuals and Guidelines

16. After discussion, the group proposed to consider it after Sydney meetings.

WG-M&R Minutes Item 2. 1: Publication of the WG

17. Based on case studies presented in Bali and previous meetings of the WG-M&R, a generic guideline on processes will be developed for publication at the Sydney Congress in 2020. It is proposed to include the state-of-the-art review as the introduction to the publication, with case studies illustrating experience and future directions.

18. It was proposed that work during 2019/20 will include preparation of a questionnaire to obtain updated information on O&M norms from member countries as the basis for a review paper for publication by ICID or in the Journal. Chair requested members to contribute in the development of the questionnaire with WebEx conference planned in early 2020 to confirm the questions before circulation to the NCs. The paper will be planned for 2021 publication.

WG-M&R Minutes Item 3: Exchange of information, knowledge & networking

19. Chair encouraged members to access the website of the WG <http://wg-mr.icidonline.org/> and provide the interesting articles/ papers/ presentations/ documents related to the activities of the group for uploading on the website. The presentation materials as well as the photos in the previous WG meetings were uploaded.

WG-M&R Minutes Item 4: Updating Multilingual Technical Dictionary (MTD)

20. The WG-M&R submitted a list of 477 terms on canal automation to TF-MTD for consideration for inclusion in English language version. The WG suggested that Central Office to consider converting MTD into multilingual database where nominated editors from NC can provide translations on-line and users can obtain multilingual information.

WG-M&R Minutes Item 5: International Workshops on Modernizing Irrigation Services for Water, Food, and Nutrition Security, September 2019, Bali

21. International Workshop on Modernizing Irrigation Services for Water, Food and Nutrition Security was organized during Third World Irrigation Forum (WIF3) on 1 September 2019 at Bali wherein 9 case studies were presented and discussed. The workshop was attended by more than 70 professionals. The workshop was well attended and the case studies, including updates to previous presentations, generated lively discussions.

22. Proposals for specific case studies on low- and high-pressure pipelines for tertiary system distribution networks will be invited for presentation in Sydney and inclusion in the publication on guidelines.

WG-M&R Minutes Item 6: International Young Professionals Training Program, 22-25 April 2019, Gyeonggi Province, Republic of Korea – Response from YPs on questionnaire

23. Dr. Dong Bin (China) reported his participation as a resource person at the workshop, noting the high value to the participants and thanked Korean National Committee (KCID) and Korean Rural Corporation (KRC) for organization of the event.

24. Dr Petra Schmitter (IWMI observer) reported on the YP E-forum that she had facilitated on solar powered irrigation and technology.

25. Dr Schmitter suggested ICID to consider requesting exhibiting companies at ICID events to offer internships for ICID YPs to gain additional experience in their companies.

WG-M&R Minutes Item 7: Any other business



Annex [Appendix XXVIII, Item 2]

ROAD MAP TO ICID VISION 2030 – ACTIVITIES OF WORK BODIES

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							
A1. Strategy: Modernizing irrigation systems	1.4 Preparation and presentation of Case studies	Compilation of Case Studies	6 Case Studies	5 case studies presented	9 Case Studies	Selected case studies to address key missing aspects	
	1.5 Prepare an overview paper on State of the Art on Modernization of Irrigation Systems	State of the Art Paper		State of the Art Paper	State of the Art Paper re- arranged		
	1.6 Develop Guidelines for Modernization of Irrigation systems	Guidelines (This to be reviewed and possibly revised in Mexico 2017)			Release Guidelines in WIF3	Release Guidelines	
A2. Strategy: Improving O&M of Irrigation Systems	2.1 Advocacy paper to draw attention to the needs of adequate resources for O&M	Advocacy paper					
	2.2 Develop norms of O&M of Irrigation systems	Technical Report					
Goal B: Be a catalyst for change in policies and practices							
B1. Strategy: Supporting development of appropriate policies	1.9 Prepare position Paper on Key Issues on Modernization of Irrigation Schemes	Position/Policy Paper of ICID				Release in Sydney in 2020	
Goal C: Facilitate exchange of information, knowledge and technology							
C1. Strategy: Providing knowledge sharing platform for AWM professionals	1.5 Organize Workshops, Seminar and Symposium on modernization	Compilation of proceedings	Main Theme of Congress, Inputs to Congress		Full-day workshop on modernization	Conference Session in Sydney in 2020	
Goal F: Facilitate capacity development							
F4. Strategy: Developing and sharing AWM knowledge	4.4 Condensed overview of Key books, manuals and Guidelines	Book Overview					

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

