

**Minutes of the 2<sup>nd</sup> Meeting of the  
WORKING GROUP ON MODERNIZATION AND REVITALIZATION OF  
IRRIGATION SCHEMES (WG-M&R)**

9 November 2016, 13.30-15.00 hours (Session I)

9 November 2016, 15.30-17.00 hours (Session II)

Chiang Mai, Thailand

**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) Vice President Ian Makin, Chairman (UK); (2) Dr. Dong Bin, Vice Chairman (China); (3) Ir. Eko Subekti (Indonesia); (4) Dr. Yohei Sato (Japan); (5) Dr. Kwang-Sik Yoon (Korea, Rep. of); (6) Dr. Brian T. Wahlin (USA); and (7) Mr. Harish K. Varma representing Secretary General Avinash Tyagi.

**Permanent Observers:** (i) Ms. Robina Wahaj, FAO.

**Observers:** (i) Mr. Chih-Hung Tan (Chinese Taipei); (ii) Mr. Anuj Kanwal (India); (iii) Dr. Alok Sikka (IWMI-India); (iv) Mr. Mochammad Amron (Indonesia); (v) Mr. Ismail Widadi (Indonesia); (vi) Mr. Adang Saf Ahmad (Indonesia); (vii) Mr. Soekrasno (Indonesia); (viii) Mr. Bistok Simauvaiah (Indonesia); (ix) Ms. Jyotsana Chuchra (Indonesia); (x) Mr. Nita Yulianti (Indonesia); (xi) Mr. Masao Miyazaki (Japan); (xii) Mr. Katsuhiko Yoshino (Japan); (xiii) Mr. Nikkun Nikman (Malaysia); (xiv) Mr. Jan Potgiet (South Africa); (xv) Mr. Panjasak Thepuayporn (Thailand).

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

1. Chair welcomed members to the meeting of the WG and informed them about the establishment of the website of WG-M&R wherein scoping document, agenda, minutes, membership, events etc. were posted besides contact information of the Chair, Vice Chair and Secretary. Members were urged to provide information, reference material on modernization to populate the website. Chair informed that the main activity of the group in the year was to prepare: (i) a working definition of modernization; (ii) an outline case study template in consultation with Central Office; and (iii) organization of the workshop/ side event on 9 November during WIF2 (*refer item 4*).

**WG-M&R Minutes Item 2: ICID Action Plan 2030 – Activities on modernization and revitalization**

2. During the meeting, WG Chair presented the draft Action Plan 2030 of the WG prepared by ICID Central Office in consultation with him. Members reviewed and updated the Action Plan 2030 (AP-2030) to reflect the proposed work plan of the group (**Annex**). After discussion, the group agreed specifically to:

- (a) Definition of irrigation modernization for review and adoption in Mexico Congress (2017)
- (b) Preparation of a position paper on key issues of modernization for the WWF8 (2018)
- (c) Preparation of case studies as a foundation for State of the Art review paper to be presented in Mexico congress (2017)
- (d) Organization of workshops and papers at forthcoming ICID events.

**WG-M&R Minutes Item 3: Report on Modernization irrigation/ drainage for a new Green Revolution**

3. WG Chair informed the members that the WG is tasked with preparation of document on state-of-the-art review of modernization for publication at the Mexico Congress (2017). Chair further informed that the Side Event held in November 2016 during WIF2 initiated the process of collecting case studies that will be the basis for this review and a template for this purpose would be developed and shared with WG-M&R members. WG Chair informed that PH Prof. Bart Schultz would be requested to provide the Report of WWF 6&7 and other materials which contain relevant

reference material for development of the review and also as a foundation for the preparation of a Position Paper for WWF 8 in Brasilia (2018).

**WG-M&R Minutes Item 4: Outcome of the side event on ‘New Developments in Irrigation and Modernization’, November 2016, Chiang Mai**

4. Chair provided a brief overview of the proceedings and discussions of Side Event held on 8 November 2016 wherein about 50 participants participated and 5 presentations covering different views of modernization from: (i) a consultant involved in design of modernization investments; (ii) a government implementing a modernization program; and (c) two multilateral financing organizations (ADB and World Bank) were made. After deliberation, the participants developed the working definition of modernization, as follows, and suggested ICID to consider and accept this as a common definition of modernization:

*“Modernization is the process of upgrading infrastructure, operations and management of irrigation systems to sustain the water delivery service requirements of farmers and optimize production and water productivity”.*

5. The WG discussed the definition and decided to solicit comments on the definition from members towards its finalization and will provide final definition to the ICID Central Office for distribution to the national committees. Chair further informed that the key messages from the side event include;

- (a) It is essential that all actions in modernization need to consider how current actions will meet the predicted requirements in 2030 as the design, implementation and impact of interventions will likely take over 10 years to be fully effective.
- (b) The participants emphasized the need to differentiate between modernization of irrigation and drainage systems that provide services for paddy from those that are designed for other crops.
- (c) Participants noted the need that any recommendations or guidelines that are proposed must be adapted to the needs of individual countries – one-size does not fit all.
- (d) Participants felt that a volume of well documented case studies may be of more value than a set of guidelines.

**WG-M&R Minutes Item 5: Preparation of a paper on the status of modernization in countries around the world**

6. During the meeting, the group discussed the broad outline for preparation of case studies/ country papers in respect of modernization and revitalization of irrigation system. After discussions, it resulted in agreement to follow-up actions leading to preparation of a publication on the status of modernization in countries around the world. Some of the agreed action points are as follows:

- (a) Members from the following 7 countries viz. China, India, Korea, Japan, Philippines, Indonesia and USA will provide country papers/ case studies on irrigation modernization from their own countries. FAO and IWMI Observers indicated that they would seek supporting documents from their organizations.
- (b) To increase the participation, Young Professionals and the YP network will be invited to participate in the review team for the publication, in addition, inviting their participation in preparation of case studies.
- (c) The draft definition of modernization was circulated to interested participants for their review and comments.
- (d) The case study template will be circulated to interested participants. The WG-M&R will follow-up with the representatives offering case studies to assist in the preparation of reports of the WG for the 2017 Mexico Congress.

**WG-M&R Minutes Item 6: Exchange of information, knowledge & networking - website**

7. Chair informed the members on the establishment of WG-M&R webpages, including the initial set-up of an on-line discussion forum. He felt that further work will be required to make the forum a secure system for exchange of views. However, an alternative would be to utilize an external discussion forum system, possibly such as those used by the YP-network. WG agreed to the following suggestions/views expressed by the participants:

- (a) Irrigation modernization has different meanings to different countries. The information and knowledge exchange is very important.
- (b) Put the country papers/ case studies/ country guidelines on the website and make them available through the website
- (c) Hold virtual meeting: identify 1-2 topics for discussion
- (d) Encourage and promote information exchange and sharing with other WGs

**WG-M&R Minutes Item 7: Updating Multilingual Technical Dictionary (MTD)**

8. During the meeting, the group discussed the updating MTD and it was agreed that the WG-M&R members would review the existing dictionary to consider whether additional terms are required to be included to cover modernization and revitalization issues. In addition, the membership will consider whether the current translations are adequate or require revisions. The representatives from Indonesia National Committee noted they had reviewed the 2010 version of MTD and encouraged other members to review the MTD further.

**WG-M&R Minutes Item 8: Review of membership of the working group**

9. During the meeting, the group reviewed the membership of the WG and unanimously decided to approve the nomination of Mr. Usman-e-Ghani (Pakistan) nominated by PANCID, Mr. Ali Omran Ali and Mr. Firas Husain Ali (*Young Professional*) nominated by IRQCID as Provisional Members since they did not attend the meeting. Membership status is given in **Annex 5 (page 33)**. The Chair requested Central Office to contact them to seek their contribution to the activities of the working group through email/ video conference meeting before face to face meeting of the WG in Mexico in 2017. .

10. After discussion, members requested clarification on whether it is essential to be present at the meetings to be considered as an active member. Chair informed that those members who were unable to attend the meeting physically but made contributions through emails, virtual meetings, etc. will continue to be regular member of the WG.

**WG-M&R Minutes Item 9: Any other business****Webinar/ web-based seminar**

11. WG supported suggestion of organizing webinars which will promote sharing of vast expertise available with ICID fraternity with Members of the NCs. WG Chair requested members to provide their suggestions on the topics, based on the mandate of the WG, on which webinar can be considered along with name of the relevant experts who could be contacted to develop webinars. WG agreed to discuss this issue during the first virtual meeting of the WG tentatively planned in early 2017.





## Annex [Appendix XXVII, Item 2]

## ICID ACTION PLAN VISION 2030 – ACTIVITIES BY WORKBODIES

**Name of the Chairman and members filling this questionnaire:** VP Ian Makin (Chair), Dr. Dong Bin (Vice Chair), Engr. Muhammad Sani Bala (Secretary)

**Date:** November 2016

		<b>Outcomes / Outputs</b>	<b>Milestone for Year 2017</b>	<b>Milestone for Year 2018</b>	<b>Milestone for Year 2019</b>	<b>Milestone for Year 2020</b>	<b>Milestone for Year 2021</b>
<b>Goal 2: Be a catalyst for change in policies and practices</b>	2.1 Prepare position Paper on Key Issues on Modernization of Irrigation Schemes	A Position/Policy Paper of ICID		Release at WWF8 in Brasilia			
<b>Goal 3: Facilitate exchange of information, knowledge and technology</b>	3.1 Organize Workshops, Seminar and Symposium	Compilation of proceedings	Main Theme of Congress, Inputs to Congress				
<b>Goal 5: Encourage research and support development of tools to extend innovation into field practices</b>	5.1 Preparation and presentation of Case studies	Compilation of Case Studies	6 Case Studies	TBD Case Studies	TBD Case Studies	TBD Case Studies	
	5.2 Prepare an overview paper on State of the Art on Modernization of Irrigation Systems	State of the Art Paper	State of the Art Paper Released				
<b>Goal 6: Facilitate capacity development</b>	6.1 Condensed overview of Key books, manuals and Guidelines	Book Overview					
	6.2 Develop Guidelines for Modernization of Irrigation systems	Guidelines (This to be reviewed and possibly revised in Mexico 2017)			Release Guidelines in WIF3		



