

**MINUTES OF THE 9TH MEETING OF
WORKING GROUP ON MODERNIZATION AND REVITALIZATION OF
IRRIGATION SCHEMES (WG-M&R)**

06 November 2023, 14:00-15:30 hours (Session I) and 16:00-17:30 hours (Session II)
Visakhapatnam (Vizag), Andhra Pradesh State, India

Strategy Theme: Schemes

Presented by the Chair

Year of Establishment: 2015

Completion of the Mandate: 2023

Scope of work: To investigate, analyze, 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 Hon. Ian Makin, Chair (UK); (2) Dr. Hwa-Lung Yu (Chinese Taipei Committee); (3) Dr. Shinji Fukuda (Japan); (4) Dr. Toshihiko Kuno (Japan); (5) Mr. Mohd Yazid bin Abdullah (Malaysia) represented by Mukhlis Zainol Abidin; (6) Dr. Mona Liza Delos Reyes (Philippines); (7) Dr. Kwang-Sik Yoon (South Korea).

Permanent observer: Dr. Alok Sikka – IWMI representative (India)

Observers: (i) Ms. Maria Christina Kurniawati (Indonesia); (ii) Ms. Ni Putu Arianti (Indonesia); (iii) Mr. Tikaram Baral (Nepal).

Webpage: http://icid-ciid.org/inner_page/117

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

1. The Chair presented the action taken report on the decisions and proposals of the working group at its meeting held in October 2022. The chair briefly informed the major activities of the WG viz. (i) Virtual meetings of the WG to discuss the development of the two publications in preparation (Item 3.1 and 3.2), and (ii) the preparation and delivery of the International Symposium in Vizag (Item 7).

2. The group reviewed and accepted the nominations of Mr. Mohamad Ramdani (Indonesia) and Ms. Bedriye Nur Dikenli Aytekin (Turkey) as Members (attended the virtual meeting) while Mr. Muhammad Adrie Azhari (Indonesia), Mr. Ali Volkan Seyfi (Turkey), and Mr. Bilal Alpaslan (Turkey) as Provisional Members due to their non-attendance. Membership status is given in **Annex 3, page 31**.

WG-M&R Minutes Item 2: Brief of the virtual meetings organized in 2023

3. The chair informed that the WG organized the virtual meetings on 12 December 2022, 24 January 2023, and 6 April 2023. During the virtual meetings, the Chair discussed various activities being undertaken by the WG as part of the Road Map to ICID Vision 2030, development of guidelines on modernization of irrigation and drainage services, Reporting Norms and Processes for O&M of irrigation and drainage systems, e-discussion, the progress of the work plan, organization of the international workshop, coding, and analysis of responses, etc. Minutes of the virtual meetings of all work bodies have been uploaded on a dedicated webpage at: https://icid-ciid.org/inner_page/152.

WG-M&R Minutes Item 3: Road Map to ICID Vision 2030 – Status of activities on modernization and revitalization

4. As the mandate of the WG will end during the 25th Congress and 74th IEC, the group reviewed the progress of the various activities included in the Road Map to ICID Vision 2030 and made recommendations for consideration by PCTA for future activities related to the Modernization of Irrigation and Drainage Services. The group did not revise the Road Map commitments as this may tie-the-hands of the new WG that will take over the remaining mandate activities. The group discussed the progress towards the Road Map commitments and plans for finalization of those outputs in the following sections. Although the formal mandate will end in 2023, the publication of the (i) Guidelines on Modernization of Irrigation and Drainage Services, and (ii) Study on Norms and Processes could not be completed. However, the work of the WG-M&R on modernization is strongly recommended to continue under one of the new WG's.

WG-M&R Minutes Item 3.1: Publication of the WG – Guidelines on modernization

5. The Chair summarized the progress towards completion of the Guidelines noting Drafts of most sections being edited for consistency. A couple of chapters are still to be completed, however, discussions with potential authors are ongoing. There is a potential to strengthen some chapters with information from the International Symposium (refer to Agenda Item 3.4, page 234). The group proposed to complete the final (1st edition) in early 2024 and future updates will be produced under the new WG.

6. Members of the WG requested information on where to find the case studies, workshop papers, and presentations from earlier meetings and events organized by the WG-M&R. Searching through Google leads to the URL = <http://wg-mr.icidonline.org/> but is no longer active. Accessing the updated web pages for the WG through the new ICID Home page, and the work bodies pages is not very intuitive; however, the previous outputs of the WG are available at: <http://wg-mr.icidonline.org/> Although the WG-M&R will be closed after this IEC, the members requested ICID to review the design of the WG webpage to make the content more accessible and exposed to search engines, so the work is not lost.

WG-M&R Minutes Item 3.2: Develop norms of O&M of Irrigation systems

7. Dr. Mona-Lisa Delos Reyes (Philippines) reported that despite several requests to the members of the team working on the survey analysis, no responses were received. In addition, Dr. Reyes had been heavily committed to other work for the past few months but would seek to complete the analysis of the information provided over the next few months.

WG-M&R Minutes Item 3.3: Condensed overview of Key books, manuals, and Guidelines

8. The chair reported that no significant updates have been received, but informed that the earlier reference materials are on the WG-M&R web pages.

WG-M&R Minutes Item 3.4: Exchange of information, knowledge & networking

9. In addition to the three virtual meetings of the WG-M&R (organized since the Adelaide meeting in 2022), the WG chair led the development and preparations for the International Symposium on Pathways to Modernization during the 25th Congress on 4 November 2023 in Vizag (refer to Item 7 below).

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

10. WG-M&R provided over 400 terms for inclusion in the MTD in previous years. Dr. Mohsen Barahimi (Iran) has overseen the translation of these terms (and possibly other elements of the MTD) into Farsi.

WG-M&R Minutes Item 5: ICID Members' Profile Section

11. The chair informed the WG members that as a new initiative, ICID has launched a new website (<https://icid-ciid.org>) as part of ICID's 70th Anniversary Celebration to meet new web technologies. One of the newly added web features provides WG members access to their profile section using their dedicated account. ICID CO vide email dated 9 July 2021 <<https://icid.bmeurl.co/C7D4D2E> > informed all members on how to access their accounts and change their passwords to maintain accuracy.

WG-M&R Minutes Item 6: World Irrigation and Drainage Schemes (WI&DS)

12. ICID has taken the initiative to document the development of irrigation and drainage schemes in the world by establishing an online Register on "World Irrigation and Drainage Schemes (WI&DS)". WI&DS will fulfil the need for a much-awaited global repository of information in systematic irrigation and agricultural water management. Irrigation projects having 5000 Hectares and above of Command Area can submit their information for inclusion in the register. More details regarding the process required and other details, in case of any doubt, are outlined on the portal < <https://wip.icidevents.org/> > in detail.

WG-M&R Minutes Item 7: International Symposium on Pathways and Technologies for Modern Irrigation Services, November 2023, Vizag, India

13. The chair informed that the International Symposium attracted about 20 proposed papers, some 15 papers have been accepted for inclusion in the proceedings, and 11 papers presented in the Symposium on 4 November 2023. About 60 people participated in the Symposium.

14. A softcopy of the draft proceedings including most of the papers accepted was made available to all Congress participants in the USB drive provided in the registration pack. An updated Proceedings, with all accepted papers

and the presentation files to be included as Annexes will be compiled and published online in early 2024. A summary of findings and recommendations will be included in the updated proceedings.

WG-M&R Minutes Item 8: Recommendations for follow-up on WG-M&R following completion of mandate in 2023

15. Members of the WG-M&R supported the restructuring of the ICID work bodies and the conclusion of the Mandate of this WG. Although the formal mandate of WG-M&R will end at the IEC in November 2023, the publications on (i) Guidelines for Modernization and Revitalization of Irrigation and Drainage Services, and (ii) the Study on Norms and Processes could not be completed. The members wish to complete the Guidelines as an important output of the working group. The group proposed the following activities to PCTA:

- (a) The completion of the Guidelines continues with the current authors (assuming the willingness of individuals) under the mandate of a new WG, but published as an output of the WG-M&R
- (b) The new WG considers how (and if) to complete the Norms and Processes study.
- (c) Finalize the Proceedings of the International Symposium by the members of the WG-M&R with authors of the papers and ICID Central Office as a publication of the WG-M&R
- (d) Modernization of Irrigation and Drainage Services is of critical and growing importance to the sector in the efforts to achieve food security in an increasingly resource-constrained environment. The challenges that climate change and agricultural demographics pose to secure food production will continue to mount. The group requested PCTA to ensure that work on Modernization remains a central topic of the ICID program.
- (e) All members of the WG-M&R are accepted as members of the new WG (WG-IWM&D) if they wish to continue. There are several proposed members that have been accepted provisionally. Their membership may be considered by the new WG. With fewer WGs there may be a strong case for further relaxation of ICID By-laws regarding country representation in work bodies, allowing more members from individual countries to further strengthen the capacity of the new WGs. A report on the restructuring of the working groups is given in **IEC Annex 4, page 44**.

WG-M&R Minutes Item 9: Any other business



Annex [Appendix XXVI, Item 3]

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	Milestone for Year 2022	Milestone for Year 2023	Responsibility
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	Edited volume of case studies – published on the ICID website	Authors of case studies
	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	Cancelled				
	1.6 Develop Guidelines for Modernization of Irrigation systems	Guidelines (This is to be reviewed and possibly revised in Mexico in 2017)			Release Guidelines in WIF3				Release Guidelines	Lead Authors (Ian Makin, Dong Din, Sani Bala)
A2. Strategy: Improving O&M of Irrigation Systems	2.1 Advocacy paper to draw attention to the need of adequate resources for O&M	Advocacy paper								
	2.2 Develop norms of O&M of Irrigation systems	Technical Report					Survey developed and submitted for distribution to ICID NCs	Survey to be sent out by CO – Q1, 2022 Analysis and draft report by Q3, 2022	Final report on Norms and processes – presented at WIF 4, Beijing	Core writing team, led by Mona Liza del le Reyes
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								
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			International Workshop in Adelaide in 2023		Ian Makin
Goal F: Facilitate capacity development										
F4. Strategy: Developing and sharing AWM knowledge	4.4 Condensed overview of Key books, manuals and Guidelines	Book Overview								Ongoing – all members of WG_M&R

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

