

**MINUTES OF THE 9<sup>th</sup> MEETING OF THE  
WORKING GROUP ON INSTITUTIONAL AND ORGANIZATIONAL ASPECTS OF  
IRRIGATION/ DRAINAGE SYSTEM MANAGEMENT (WG-IOA)**

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**

**Submitted by the Chairman**

**Year of Establishment: 2015**

**Completion of the Mandate: 2023**

**Scope:** The WG will investigate, analyse and disseminate information and knowledge on following issues: (1) Legal Framework and Organizational Structures of Water User Association for Water Supply Services including- (a) institutional and organisational requirements for sustainable operation and maintenance of irrigation/drainage systems, (b) improvement of organisational arrangements for management, operation and maintenance of irrigation/drainage systems, (c) financing of operation and maintenance of irrigation/drainage schemes, (d) approaches and requirements for water regulatory authorities, land property questions, water rights, and (e) roles, responsibilities and requirements for sustainable Water Users Associations (WUA); (2) Participatory Irrigation Management and Irrigation Management Transfer covering (a) approaches and conditions for successful Participatory Irrigation/Drainage Management (PIDM), and (b) approaches and conditions for successful irrigation/drainage management transfers (IDMT), including legislation and institutional requirements for transfer of responsibilities and/or ownership of irrigation and drainage systems to water users associations; and (3) Public Private Partnership, and Mechanism for Cost Recovery covering (a) possibilities of and requirements for successful Public Private Partnerships (PPP) in irrigation/drainage, and (b) methods and mechanisms for charging of irrigation/ drainage services and determination of level of cost recovery.

**Members present:** (1) VPH Dr. Hafied A. Gany, Chair (Indonesia); (2) Dr. Keigo Noda, Vice Chair (Japan); (3) Mr. Taku Mori, Secretary (Japan); (4) Dr. Yu-Chuan Chang (Chinese Taipei Committee); (5) Mr. Abdullahi Abdul Rahman (Nigeria).

**Observers:** (1) Dr. Ching Tien Chen (Chinese Taipei Committee); (2) Mr. Yen Hsu Chen (Chinese Taipei Committee); (3) Mr. Sravan Kumar (India); (4) Mr. K.S. Kumar (India); (5) Mr. K. Yatheendra (India); (6) Mr. M. Gopalakrishnan (India); (7) Dr. B.S. Kumar (India); (8) Mr. Anuj Kanwal (India); (9) Dr. Henny (Indonesia); (10) Mr. Mustapha Usman Khalil (Nigeria).

**Webpage:** [http://icid-ciid.org/inner\\_page/115](http://icid-ciid.org/inner_page/115)

**WG-IOA Minutes Item 1: Action taken report by Chair**

1. The Chair presented the report on the actions taken on the decisions and proposals of the working group at its last meeting held in Adelaide, Australia on 8 October 2022, including (a) preparation of the draft chapters of the final report; (b) Implementation of International Workshop on PPPs; (c) Actual progress of draft of chapters; (d) Subsequent plan for the preparation of the final report, parallel with the newly amalgamated Working Group of IOA to be done by the former members of the WG-IOA before amalgamation.

2. The Chair Dr. Hafied Gany informed the meeting about his proposal to step down as the Chairman of the WG due to his health issues (80 years old). It is not possible for him to carry out the activities of the group efficiently and also unable to travel long distances so he proposed that the Secretary of the WG-IOA, Mr. Taku MORI take over his position until the new Chair is identified by the WG. However, during the process of identification of the new Chair, Dr. Hafied Gany is willing to help temporarily as Co-acting chairman of WG-IOA, and the subsequent amalgamation of the WG till the new Chair is identified and approved by the IEC meeting.

3. The group reviewed the nomination of Mr. Ahmet Şeren (Turkey) and Dr. Neslihan ŞENGÜL (Turkey) received for the working group membership. After discussion, the group accepted them as Provisional Members due to their non-attendance at the meeting.

4. Eng. Sabreen Abdalradha Charloob Obied Subah (Iraq) and Mr. Philip J. Riddell (UK) had neither participated nor contributed to the activity of the WG for the last two years so the group decided to discontinue the membership as per ICID By-law 3.5 and requested the NC for new nominations. Membership status is given in **Annex 3, page 31**.

**WG-IOA Minutes Item 2: Brief review and adjustment of virtual meetings previously organized**

5. The chair briefed the members about the virtual meetings organized by WG and the various activities undertaken by WG as part of the Road Map to ICID Vision 2030 i.e. preparation of chapters and time schedule for the final report of the WG, organization of the international workshop, etc.

**WG-IOA Minutes Item 3: Road Map to ICID Vision 2030 – Status of activities on institutional and organizational aspects of irrigation**

6. Due to the constraint faced during the COVID-19 pandemic, the Final Report of the WG-IOA mandate could not be completed based on the previous schedule, therefore, the review of completion of the mandate will be conducted parallel with the newly amalgamated WG and hence adjusted accordingly with the Road Map to ICID Vision 2030 (refer to **Annex**).

**WG-IOA Minutes Item 3.1: Review Schedule for Publication of the WG or Reorganization into new WG**

7. Chair presented the status of the draft report of the publication of WG-IOA based upon WG mandate with the topic “Institutional and Organizational Reform in Irrigation and Drainage Sector for Sustainable Agriculture Water Management” and informed that responses from some of the chapters are still waiting.

8. The overall draft structure was not materialized because of the non-existence of the draft by the assigned members (Dr. Qazi Tallat Mahmood Siddique (from Pakistan), and the re-scheduled plan through a virtual meeting was not possible (but the overall material has been published electronically based on the result of the Mexico Symposium of 2017).

- (a) **Chapter I:** *Introduction, prepared by Dr. Hafied Gany (from Indonesia) has already been drafted, reviewed, and edited.*
- (b) **Chapter II:** *Legal Frameworks of WG-IOA, has already been prepared, reviewed, and edited by Mr. Taku Mori (from Japan).*
- (c) **Chapter III:** *Participatory Irrigation / Drainage (PIM) and Management Transfer (IDMT), the draft is still under preparation by Dr. Sunil D Gorantiwar (from India).*
- (d) **Chapter IV:** *Observed Impacts of Participatory Irrigation Management, has been drafted, reviewed, and edited by VPH Dr. Ding Kunlun (from China).*
- (e) **Chapter V:** *Public Private Partnership (PPPs) in Irrigation Management, by Dr. Neelam Patel (from India) is still under preparation. Taking into consideration the presentations and discussions held at International Workshop on “Public-Private-Partnership (PPPs) in Irrigation and Drainage, Operation and Maintenance toward Sustainable Irrigated Agricultural Water Management” in Adelaide, Australia, in October 2022*
- (f) **Chapter VI:** *The Way Forward and Recommendation by Dr. Gorantiwar and Dr. Patel is still under preparation.*

9. Proposed Schedule for Publication of the Final Report of WG-IOA: Considering the fact that all data and information have already been collected including the results of the Mexico Symposium 2017 and the e-Publication of the Mexico Symposium 2017, workshops and seminars related to WG-IOA are available and accessible on the database of the WG website. The working group proposed that publication of the final report of WG-IOA be conducted parallel with the implementation of the newly amalgamated Working Group, to be conducted and followed up as part of the activities of the newly amalgamated Working Group, principally by the former members of individual WG-IOA but with relevant support by other new members.

**WG-IOA Minutes Item 4: Presentation by the Working Group Members**

10. So far, no presentation related to WG-IOA aspects such as PIDM, IMT, PIM, or PPPs has been done by the group member because most of the above IOA-related materials have been collected, compiled, discussed, and presented in the scheduled workshops, seminars, and symposiums.

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

11. The Chair informed the group that Dr. Yu Chuang Chang from the Chinese Taipei Committee (CTCID) has managed to represent WG-IOA during TF-MTD and reported the result regularly to the meeting of WG-IOA.

**WG-IOA Minutes Item 6: Any other business**

12. Discussion on the Newly Amalgamated Working Group of Institutional and Organizational Aspects on Irrigation/Drainage System Management (WG-IOA)

- (a) **The New Working Group Structure:** (Integrating WGs of near similar mandates to reduce overlapping in topics and activities and avoid duplication)
- (b) **Sustainable Development and Management:** Capacity Building, History, Institutional and Socio-Economical Aspects of Irrigation and Drainage Schemes (Long-Term Activities).
- (c) **(c) New Integration of Working Groups:** WG-IOA (Institutional and Organizational Aspects on Irrigation/Drainage System Management) + WG-VE (Value Engineering) + WG-IDM (Irrigation Development and Management) + WG-M&R (Modernization and Revitalization of Irrigation Schemes) will be combined together and the new name of WG-IOA which reflects the inclusion of the outgoing Working Groups will be “Institutional and Organizational Aspects on Modernization of Irrigation Development and Management with the Support of Value Engineering -- The shortened form is WG - I&O MIDVE”. A brief report on the restructuring of the working groups is given on IEC **Annex 4, page 44**. New group WG-I&O MIDVE under the theme Sustainable Development will cover the following aspects, which are to yet be discussed and determined through the process of restructuring of the working groups:

**(Draft Proposal) Scope:** The working group will investigate, analyze, and disseminate information and knowledge on the following issues:

- (1). **Legal frameworks on institutional and organizational requirements for sustainable irrigation development and management, including:** (a). Institutional and organizational requirements for sustainable irrigation development and management; (b). Improvement of organizational arrangement for sustainable management; (c). Roles, responsibilities, and requirements for sustainable irrigation development and management; (d). Technical as well as non-technical aspects associated with improvement of sustainable modernization and revitalization of irrigation schemes development and management; and (e). Financial availability and management for sustainability of the modernized and revitalized irrigation schemes.
- (2). **Value Engineering support for modernization and revitalization of irrigation development and management, including:** (a). Motivating National Committees to set up their Working Groups to follow the newly amalgamated structure; (b). Provision of guidance for compilation, publication, and/or utilization of Value Engineering support for modernization and revitalization of irrigation schemes; and (c). Promotion of interdisciplinary exchange of information, knowledge, and experience as well as networking on the topic of modernization and revitalization of irrigation schemes.
- (3). **Irrigation development and management under the modernized and revitalized at the infrastructural and farm levels, including:** (a). Assessment of water use demand at the infrastructural and at the farm level; (b). Water resources demand management according to the available resources at the infrastructural and at the farm level; (c). Assessment of water losses on various components of irrigation at the infrastructural and farm levels; (d). Groundwater development and management for irrigation conjunctive use of surface and groundwater in irrigation, artificial recharge of the aquifer from canal losses and excessive irrigation; (e). Water measuring methods and devices and relevant technology; (f). Drivers for and resistances at the system level to improve irrigation management; (g). Social issues to be considered along with technical and economical ones; (h). Ways towards economic performance enhancement; and (i). Performance evaluation of modernization and revitalization of irrigation schemes at all levels.

- (4). Modernization and Revitalization of Irrigation Schemes including investigation, analysis, and dissemination of new irrigation development, formulation, and recommendation with respect to:** (a). Planning and preparation for modernization and revitalization of irrigation schemes operation and maintenance; (b). Multiple/ interactive relationships amongst modernization, revitalization, and underlying operation and maintenance; (c). Cost sharing of modernization, revitalization, and operation & maintenance; (d). Institutional and organizational frameworks required for modernization, revitalization, operation, and maintenance; (e). Methods and techniques of conveyance and distribution canals, control, and automatization system, using the internet, mobile communication, and remote sensing monitoring canal operation; (f) Modification to improve communication, operational capacities, and flexibilities in operation and maintenance systems; and (g). Standardization and codes of practices in irrigation system management.

**(d) (Draft Proposal) Newly Amalgamated Mandates of WG-I&O MIDVE**

- (i). To prepare data collection in terms of reference books, reports, results of research, standardization literature, and related publications regarding institutional and organizational aspects of modernization on irrigation development with the support of value engineering.
- (ii). To organize symposiums, seminars, colloquiums, workshops, and discussions in terms of face-to-face or virtual meetings at ICID events or other related events, activities to enhance understanding, notions, and awareness concerning the activities of WG-I&O MIDVE.
- (iii). To prepare papers, technical reports, literature, and references on application and performance as well as evaluation of activities of WG-I&O MIDVE at operational and management levels.
- (iv). To finalize the reports or books on the application of all implementation activities of WG-I&O MIDVE on operational and evaluation levels.
- (v). To encourage member countries to produce papers on the application of activities of WG-I&O MIDVE with special adjustments with local circumstances of application at the locally specific and the respective study cases at member countries cases.
- (vi). To promote planning, design, and execution of face-to-face classical training/capacity building, and capacity development by means of face-to-face or virtual meetings of the entire aspects of implementation as well as evaluation of activities of WG-I&O MIDVE.



## Annex [Appendix XXV, Item 3]

## ROAD MAP TO ICID VISION 2030 – ACTIVITIES OF WORK BODIES

| Goals/<br>Strategies   | Activities  | Outcomes/<br>Outputs             | Milestone<br>for Year<br>2017 | Milestone<br>for Year<br>2018        | Milestone<br>for Year<br>2019 | Milestone<br>for Year<br>2020                 | Milestone<br>for Year<br>2021 | Milestone<br>for year<br>2022 | Milestone for<br>year 2023 |
|--|---|----------------------------------|-------------------------------|--------------------------------------|-------------------------------|---|-------------------------------|-------------------------------|----------------------------|
| <b>Goal A: Enable higher crop productivity with less water and energy</b>                          |   |                                  |                               |                                      |                               |   |                               |                               |                            |
| <b>A4.<br/>Strategy:</b><br>Promoting<br>institutional<br>reforms                                  | 4.1 Introduce<br>suitable<br>institutional<br>setup   | Guidelines                       |                               | Prepare the<br>first draft<br>report |                               | Finalise the<br>draft report<br>& publication |                               |                               |                            |
| <b>A6.<br/>Strategy:</b><br>Improving<br>performance<br>of irrigation<br>systems                   | 6.3 Facilitate<br>policy<br>analysis for<br>improved<br>water<br>governance<br>with a focus<br>on<br>agricultural<br>water<br>management<br>and<br>sustainable<br>rural<br>development.                         | Technical<br>Paper               |                               |                                      |                               |   |                               |                               |                            |
|  | 6.4 Develop<br>generalized<br>legal<br>regulations<br>(guidelines)<br>and<br>implementing<br>changes in<br>the public and<br>private<br>sectors of<br>agriculture<br>and water<br>economies of<br>the countries | Guidelines                       |                               |                                      |                               |   |                               |                               |                            |
|  | 6.5<br>Implementing<br>changes in<br>the public and<br>private<br>sectors of<br>agriculture<br>and water<br>economies   | Position<br>paper                |                               |                                      |                               |   |                               |                               |                            |
| <b>A8.<br/>Strategy:</b><br>Encouraging<br>Participatory<br>Management<br>of Irrigation<br>Systems |   |                                  |                               |                                      |                               |   |                               |                               |                            |
| <b>Goal C: Facilitate exchange of information, knowledge and technology</b>                        |   |                                  |                               |                                      |                               |   |                               |                               |                            |
| <b>C1.<br/>Strategy:</b><br>Providing<br>knowledge<br>sharing<br>platform for                      | 1.7 Organize<br>Workshop,<br>Seminar and<br>Symposium   | Compilation<br>of<br>proceedings | Symposium                     | Symposium                            | Symposium                     | Symposium                                     |                               |                               |                            |

| 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   |
|--|--|-------------------|-----------------------------|--|---|--|--|---|---|
| AM professionals   |  |                   |                             |  |   |  |  |   |   |
| <b>C4. Strategy:</b><br>Compile, collate and share knowledge and experiences | 4.10 Condensed overview of existing key books, manuals, guidelines and other relevant publications on the institutional, organizational aspects of irrigation management | Technical report  |                             | Release the first report                         |   | Release the second report  | Release of final report  |   |   |
|  | 4.11 Overview paper on the state of the art on the IOA of I&D in Irrigation and Drainage (IRD)   | Paper             | Paper; Workshop; Symposium. | Preparation of the draft of papers on IOA of IDM | Submission of the published paper by ICID-Wiley Publication: "Global Review of Institutional Reform....." | Submission of the published paper by ICID-Wiley publication: "Present Status and development ..... to ICID Vision 2030 (AXEL IRD 2303) | Preparation of the draft of Final Report of WG-IOA (reviewed and discussed on 7 <sup>th</sup> WG-IOA meeting)<br><br>Preparation of the draft of Final report would be done till November 2023 through other possible means such as through virtual meeting, outsourcing etc., | Submission of the Final Report of WG-IOA (to be launched at the 73 <sup>rd</sup> IECM).<br><br>(Due to some constraints, one reason Publication and launching of the Final Report of WG-IOA would be postponed till November 2023). | Publication and launching of the Final Report of WG-IOA could be conducted during the 75 <sup>th</sup> IEC meeting of ICID in November, 2023 in Visakhapatnam (Vizag), Andhra Pradesh State, India -- the time of which is still within the frame work of WG-IOA. |
|  | 4.12 Exchange of information and sharing knowledge through case studies on institutional and organizational  | Case studies      | Exchange of information     |  | Exchange of information   |  | Exchange of information  |   |   |

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

