

**AGENDA FOR THE 6<sup>TH</sup> MEETING OF THE  
WORKING GROUP ON IRRIGATION DEVELOPMENT AND MANAGEMENT (WG-IDM)**

28 November 2021, 14:00-15:45 hours (Session I) and 16:15-18:00 hours (Session II)  
Marrakesh, Morocco

**Strategy Theme: Schemes**

**Presented by the Chair**

**Year of Establishment: 2015**

**Completion of the Mandate: 2023**

**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 economic performance enhancement (cost reduction and efficiency improvement).

**Website:** [http://icid-ciid.org/inner\\_page/118](http://icid-ciid.org/inner_page/118)

**WG-IDM Agenda Item 1: Action taken report by Chair<sup>1</sup>**

1. The Chair will present the report on the actions taken on the decisions and proposals of the working group at its last meeting held in October 2020.
2. The Egyptian National Committee of ICID (ENCID) has nominated Dr. Gamal Mohamed Elkassar for the membership of the working group, Dr. Gamal participated during the first virtual meeting held in July 2021 and his membership was accepted. In September 2021, Chinese National Committee on Irrigation and Drainage (CNCID) has nominated Prof. Huang Jiasheng, Prof. (Ms.) Chen Jing, Dr. Liu Jing - Young Professional (China) for the membership of the working group.
3. Chair in consultation with Vice Chair, Secretary of the WG and the Central Office have updated the membership of the WG as given at **Annex 1** (*refer electronic version for latest list*). New nominations, if any, for the membership received will be dealt suitably after the meeting.

**WG-IDM Agenda Item 2: Brief of the virtual meeting organized in July 2021**

4. During the second monthly meeting on 7 June 2021, ICID President Dr. Ragab Ragab (UK) discussed various activities of the ICID. During the virtual meeting, President Dr. Ragab has suggested ICID Central Office to contact the Chair/ Vice Chair/ Secretary of the working group and request them to organize at least two virtual meetings in a year apart from the physical meetings organized during the annual IEC meetings of ICID. Accordingly, ICID Central Office has communicated with the Chair/ Vice Chair and Secretary to organize virtual meeting.
5. Accordingly, the first virtual zoom meeting of WG-IDM was organized on 2 July 2021 wherein about seven members participated. During the meeting, Chair discussed various activities being undertaken by the WG as part of Road Map to ICID Vision 2030, publications, updating MTD etc. Minutes of the virtual meetings of all work body have been uploaded on a dedicated webpage - [https://icid-ciid.org/inner\\_page/152](https://icid-ciid.org/inner_page/152).

**WG-IDM Agenda Item 3: Road Map to ICID Vision 2030 – Status of activities on irrigation development and management**

6. During virtual meeting, the group reviewed and updated the activities as part of Road Map to ICID Vision 2030 (*refer Annex 2*). The WG agreed to discuss the status of various activities and will report the progress to Permanent Committee for Technical Activities (PCTA).

<sup>1</sup> This will also include details of membership of WG as **Annex**

7. **A6 Strategy 6.7:** In March 2021, Mr. Ahmet Seren (Turkey) shared the Technical Report on “Drivers and Social Resistances within the Systems to Improve Irrigation Management in Turkey” to Chair and Secretary for comments/ suggestions while Eng. Ali Mohamed Ahmed Elhaj (Sudan) had already shared the documents in respect of works done in Gezira Irrigation Scheme in Sudan. In February 2021, Central Office requested VPH Ian Makin about collaboration with his WG in this activity and in response, VPH Makin informed that he is touch with the Chair and members of UK about possible information on UK experiences.

8. **B1 Strategy 1.14:** Report on south-south cooperation for capacity development in the field of irrigation management - WG Chair Ms. Mary Jean Gabriel (South Africa) informed the progress on capacity development in African region in consultation with the African Regional Working Group (AFRWG). Chair will write a brief report and share additional information on this matter.

9. **B3 Strategy 3.1:** Assess methods and develop guidelines on relevant water balance approach - Dr. Amgad Elmahdi shared the table of contents of publication titled “Guidelines on relevant water balance approach” to Chair, Vice-Chair and Secretary of WG on 8th February 2021 and the same was circulated in the meeting.

10. **D2 Strategy 2.3:** Investigating and documenting the social and economic impacts of irrigation systems – In July 2021, Dr. Akie Mukai (Japan) informed the Chair that she was working on the assignment and will submit the same in due course of time. Dr. Akie Mukai (Japan)/ WG Chair will provide further updates in the meeting.

11. **C1 strategy 1.3:** Organize workshop, seminar and symposium on Water Balance Approach – Since there is no update, as suggested by the Chair, in August 2021, Central Office has requested WG members to share their views directly to Chair on this matter. WG Chair will provide further updates, if any during the meeting.

#### **WG-IDM Agenda Item 3.1: Publication of the WG**

12. Goal C4 - Strategy 4.17 titled “Overview paper on the Irrigation Development for publication in Irrigation and Drainage (IRD)” by Dr. Ming-Young Jan (Chinese Taipei) is under preparation. During the virtual meeting in July 2021, the group noted that Dr. Ming-Young Jan was unable to attend the last two virtual meetings, the group agreed to contact him by email on the matter. Dr. Ming/ WG Chair will provide further updates during the meeting.

13. Chair invited all members of WG to provide their inputs to other two documents entitled “Norms and standards of irrigation development” and “Condensed overview of existing documents and practical examples on water balance approach”. As suggested by the WG Chair, Central Office once again circulated documents to the WG members on 27 August 2021 and requested them to deliver suggestions and inputs on the documents directly to Chair.

14. Dr. Katsuyuki Shimizu (Japan) reported that he modified the second draft report titled “Investigating and providing information on the positive amenities, services and goods provided by irrigation systems” based on the comments by Chair and Vice-Chair. As agreed during the virtual meeting in July 2021, Dr. Shimizu shared the final version to Chair, Vice Chair and Central Office. Chair will provide further updates at the meeting.

#### **WG-IDM Agenda Item 4: Presentation by the working members**

15. During the virtual meeting in July 2021, Prof. L.B. Roy (India) offered that he will make a presentation in the next meeting and the group agreed. Accordingly, on 8 September 2021, Prof. Roy shared the final paper titled "Study of ET<sub>0</sub> by using Conventional and Soft Computing Techniques in the Eastern Gandak Project in Bihar, India – A Case Study" to Chair and Central Office. Chair and Central Office encourage members of WG to make presentations related to mandate of the WG at the next meetings.

#### **WG-IDM Agenda Item 5: Exchange of information, knowledge & networking -website**

##### **WG-IDM Agenda Item 5.1: Website of the group**

16. ICID established a new website of the WG and is accessible at [https://icid-ciid.org/inner\\_page/118](https://icid-ciid.org/inner_page/118). Members are requested 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 keep themselves up-to-date with new developments in the various aspect of drainage. Members are also requested to provide information, papers, presentation made on topics related to scope of work of the WG to the ICID Central

Office for uploading on the website of the WG. In order to ensure regular contribution of the members, Working Group is encouraged to make full use of Zoom platform for virtual meetings in between face to face meeting during IEC.

**WG-IDM Agenda Item 5.2: Webinar**

17. An interesting Webinar titled “Role of ICT Technologies for sustainable irrigation management and scheduling (MENA Region-Case studies)” was delivered by Dr. Amgad Elmahdi, Head of MENA Region-IWMI (member of WG-IDM) while Prof. Dr. Yusuf Ersoy Yildirim, Dean of Eskisehir Osmangazi University (Turkey) delivered presentation on “Information and Communications Technology (ICT) Application in Irrigation Projects in Turkey” on 7 April 2021. Taking into consideration of above webinar, Chair and Secretary have proposed to organize series of webinar viz. case study of South Africa, Asian countries, etc.

18. Webinar/ Web-based seminars are the new way to reach wider audience through video conferencing. Members should take a lead in organizing Webinars in consultation with Central Office. Members can also invite specialists to deliver talks on important topics of interest. Members may decide the broad topics and a tentative schedule to organize these Webinar.

**WG-IDM Agenda Item 6: Updating Multilingual Technical Dictionary (MTD)**

19. Dr. Shimizu shared the Excel file with the sheets for (5) Headworks, (6) Design of irrigation canals, (7) Canal structures, (8) Project Water Management, and (17) Operation, maintenance and management. In each sheet, he has included the candidate technical terms to be added in the revised MTD. Central Office circulated the above sheets to all members and requested them to add the terms in consultation with Dr. Shimizu. Similarly, Dr. Amgad Elmahdi (Australia) has also volunteered for contribution in Arabic.

20. In February 2021, ICID Central Office requested Dr. Amgad Elmahdi (Australia) to volunteer to contribute in Arabic translation and also encouraged WG member to contribute to update the MTD. ICID Central Office suggested Dr. Amgad to get in touch with the Egyptian National Committee on Irrigation and Drainage (ENCID) for the latest version of the MTD translated into Arabic version. Accordingly, Dr. Amgad contacted ENCID for the latest version of the MTD. Dr. Amgad/ ENCID representative will provide further updates at the meeting.

21. In response to ICID Central Office’s request, in February 2021, VPH Ian Makin has informed that he is touch with the Chair and members of UK about possible updating MTD. VPH Ian Makin will provide further updates at the meeting.

**WG-IDM Agenda Item 7: Any other business**

22. **ICID Members' Profile Section:** As a new initiative, ICID has launched a new website (<https://icid-ciid.org>) as part of ICID's 70th Anniversary Celebration to meet the 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 account and change their password to maintain accuracy. Members are requested to review and update their information using their credentials and help us to maintain accurate information.

23. **Register on World Irrigation Projects (WIP):** ICID has taken an initiative to document the development of irrigation projects in the world by establishing an online Register on “World Irrigation Projects (WIP)”. WIP will fulfill 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 Gross Command Area can submit their information for inclusion in the register. The irrigation projects approved by National Committee/ ICID Central Office for inclusion are entitled to Certification. Members are also requested to encourage all irrigation project owners, managers, and researchers across the world and especially in our member countries for contributing to the register. This facility is also extended to non-member countries if the information is received from an authorized agency. The review process and other details are outlined on the portal < <https://wip.icidevents.org/> > in detail.



**NOTES FOR CHAIRPERSON:**

1. Draft minutes of this meeting to be submitted to ICID Secretariat at Marrakesh, Morocco after the meeting.
2. Chair to participate and present the WG report to PCTA meeting on 29 November 2021.



**A. Members and their attendance at 2019 and 2020 meetings**

Sl. No.	Members	Member from (Year)	2019		2020		Remarks
			Self	Contributed by mail	Self	Contributed by mail	
1.	Ms. Mary Jean M. Gabriel, Chair (South Africa)	2015	•	•	•	•	
2.	Mr. Ahmet Şeren, Vice Chair (Turkey)	2016			•	•	
3.	Dr. Katsuyuki Shimizu, Secretary (Japan)	2015	•	•	•	•	
4.	Dr. Wu Jingwei (China)	2015					
5.	Ir. Mat Hussin Bin Ghani (Malaysia)	2015					
6.	Mr. Ming-Young Jan (Chinese Taipei Committee)	2015	•				
7.	Mr. Waleed Hassan (Egypt)	2015			•	•	
8.	Dr. Amgad Elmahdi (Australia)	2016		•	•	•	
9.	Dr. Narges Zohrabi (Iran)	2016	•			•	
10.	Mr. Tariq Altaf (Pakistan)	2017					
11.	Prof. LB Roy – Direct Member (India)	2018			•		
12.	Eng. El Sayed El Yamani Ali Sarkees (Egypt)	2018					
13.	Dr. (Ms) Eman Ragab Mohamed Nofal (Egypt)	2018	•			•	
14.	Dr. Mukai Akie (Japan)	2020			•		
15.	Engr. Ali Mohamed Ahmed Elhaj (Sudan)	2020			•	•	
16.	Secretary General, ICID				# <sup>2</sup>		
<b>Permanent observers</b>							
(i)	VPH Ian Makin (UK)	2015			•		
(ii)	VPH Hafied Gany (Indonesia)	2015			•		

**B. New nomination received from the National Committee**

No.	Name	Country	Remarks
1.	Dr. Gamal Mohamed Elkassar	Egypt	Recommended as member, subject to his presence else provisional member
2.	Prof. Huang Jiasheng	China	Recommended as member, subject to his presence else provisional member
3.	Prof. (Ms.) Chen Jing	China	Recommended as member, subject to her presence else provisional member
4.	Dr. Liu Jing - Young Professional	China	Recommended as member, subject to her presence else provisional member



<sup>2</sup> Represented

**ROAD MAP TO ICID VISION 2030 – ALLOCATION OF TASKS**

Goal/ Strategies	Activities	Outcomes/ Outputs	Responsible person
<b>Goal A: Enable higher crop productivity with less water and energy</b>			
<b>A1. Strategy:</b> 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
<b>A6. Strategy:</b> 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 K Shimizu
	6.7 Identify drivers and social resistances within the systems to improve Irrigation management	Report	Mr. Ahmet Seren Ali Mohamed Ahmed Elhaj – to share experiences in the work done in Gezira Irrigation Scheme in Sudan Mr. Ian Makin (to assist)
<b>Goal B: Be a catalyst for change in policies and practices</b>			
<b>B1.Strategy:</b> Support development of appropriate policies	1.14 Report on South-South cooperation for capacity development in the field of irrigation management	Report	Ms. MJ Gabriel
<b>B3. Strategy:</b> Integrated Irrigation and Drainage Management	3.1 Assess methods and develop guidelines on relevant water balance approach	Guidelines	Dr. Amgad Elmahdi Mr. Ian Makin (to assist)
<b>Goal C: Facilitate exchange of information, knowledge and technology</b>			
<b>C1.Strategy:</b> Providing knowledge sharing platform for AWM professionals	1.3 Organize Workshop, Seminar and Symposium on Water Balance Approach	Proceedings	TBD
<b>C4.Strategy:</b> 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	Dr. Ming-Young Jan
<b>Goal D: Enable Cross Disciplinary and Inter-Sectoral Engagement</b>			
<b>D2. Strategy:</b> Developing Technical Documents in Non-technical Language	2.3 Investigating and documenting the social and economic impacts of irrigation systems	Technical report	Dr. A Mukai

