

APPENDIX XXVII [PCTA Item 10.3]

**AGENDA FOR THE 2ND MEETING OF
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.

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

1. During the last International Executive Council (IEC) all the workbodies were requested to make use of the video conferencing facilities now being made available by the Central Office which enables monitoring of the actions taken on the decision of the WG. A virtual meeting through video conference also provides opportunity of participating in the activities of the WG for those members of the WG who are unable to attend the meeting physically and to continue their membership. WG may please take note. The Chair will present report on the actions taken on the decisions and proposals of the working group at its last meeting held at Montpellier.

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

2. The 66th International Executive Council (IEC), vide Resolution IEC-4/66 has approved the new Vision, Mission and six Organizational goals of ICID. In order to develop action plan, the Consultative Group (CG) requested inputs from ICID Work Bodies in prescribed format in May 2016 to identify actions to achieve the Organizational Goals in their area of activities which would form part of ICID Action Plan for Vision 2030.

3. As part of the Implementation Roadmap (IR) adopted at the WWF7 number of action points for each focus areas were identified and WG discussed and developed actions to be implemented by the WG during the Montpellier meeting in 2015 (**Annex 1**). Based on these action points and mandate of the WG, an action plan for Vision 2030 for WG has been prepared in consultation with the WG Chair (refer **Annex 2**). WG will discuss and finalize the action plan of the group and provide its input to PCTA. The updated activity plan incorporating all the comments will be submitted to the CG for incorporation in the ICID Action Plan for Vision 2030. WG Chair will provide further updates at the meeting.

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

4. At Montpellier meeting, WG deliberated and included in its work plan to finalize a report on “Modernization irrigation/drainage for a new Green Revolution” to be delivered as input to the 8th World Water Forum (WWF) in Brasilia in 2018 as an outcome of 23rd Congress at Mexico with the similar theme. In this connection WG is organizing a full day side event on the topic ‘New Developments in Irrigation and Modernization’ during WIF2 at Chiang Mai, Thailand which would act as the initiation of preparation of the WG-M&R program output, a publication titled “*Modernization irrigation/drainage for a new Green Revolution*” to be presented at the ICID 23rd Congress and 68th IEC in Mexico in 2017.

5. WG also considered to formulate an appeal on needs for modernization of irrigation system to policy-makers and decision-makers in governments, private sectors and international financial institutions. Chair will provide further updates in the matter.

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

6. During the 2nd World Irrigation Forum (WIF2), the WG is organizing a full day Side Event on ‘New Developments in Irrigation Modernization’ on 7 November 2016 in Chiang Mai to discuss various aspects of modernization approach and process through key note address and invited case study presentations. As an outcome, WG is expected to adopt a working definition of irrigation modernization for use by ICID and others; and initiate development of guidelines for revitalization and modernization of irrigation services through a collaboration by ICID national committees, national research and extension organizations, farmer organizations and international institutions with irrigation portfolios viz. ADB, AfDB, FAO, IFAD, IWMI, and WB. Chairman may provide a brief outcome of the event at the meeting.

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

7. At Montpellier, WG discussed the action points from Session 2.1.3 of WWF and suitably incorporated these action points in its work plan. During Montpellier meeting, the group agreed to establish a small working group/team to support initiative of Turkey in preparation of a paper on the status of modernization in countries around the world and also to develop guidelines for the design and maintenance of low pressure piped networks. Accordingly, in May 2016 the ICID Central Office requested Chairman to establish a small group and coordinate with member from Turkey (Mr. Meral Çiçek) to initiate action on preparation of paper and guidelines. Response is awaited. Chair/ a representative from Turkey will provide further updates in the matter. ICID Central Office in consultation with WG Chair developed broad outline for preparation of the case studies/ country papers in respect of modernization and revitalization of irrigation system (**Annex 3**). WG may review, discuss and finalise this outline so that there is uniformity in case studies / country papers from members and other professionals.

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

8. At Montpellier, Chair requested members 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, methods and approaches. In May 2016, members were 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 web site of the WG. In order to facilitate discussion among members, WG Chair has established a discussion forum on WG website. Members may like to further discuss how to make fruitful use of this discussion forum and evolve methodology for sharing of information and updation of WG website. In order to ensure regular contribution of the members, WG is encouraged to make full use of Web-Ex platform for virtual meetings in between face to face meeting during IEC.

9. During the Montpellier meeting, PCTA agreed to the establishment of a coordination mechanism consisting of respective Theme leaders and WGs Chair and Co-Chairs of WG-IDM, WG-M&R, WG-WATS, WG-SON-FARM and WG-PQW considering that mandate of these WG are related and complement/ supplement the work of each other. In May 2016, the ICID Central Office requested Chair to interact and coordinate with the Chairs of the above workbodies. Chairman will provide further updates in the matter.

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

10. At the 65th IEC, it was decided that ICID Central Office will bring out an online version of the MTD and make it available through ICID website. In this connection, Central Office is collecting the terms available with different NC in their respective languages, based on 2010 version of MTD. During Montpellier meeting in October 2015, the Permanent Committee for Technical Activities (PCTA), considering this as an important input for working towards SDGs, recommended setting up of new workbody to review/ update the existing MTD. Accordingly, a Task Force on MTD has been proposed to be set up with WG Chair/ nominee as members along with members from various expert international organizations (Refer PCTA Agenda Item 4, page 82).

11. Since PCTA would require a feedback from each of the WGs as to how they plan to review / update the terms that fall within their respective scope of activities, the group may like to discuss this issue and nominate a suitable expert as a nodal person for reviewing the terms related to the activities of the group. To achieve this goal, it is proposed that WG undertake review of the concerned terms depending on their domain of expertise suggesting changes / modification and addition of new terms, along with contributing pictures, links and videos related to respective term.

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

12. In order to increase the efficiency and functioning of the Working Group during annual face to face meeting and avoid spending a lot of time on administrative matters, the Management Board (MB) has decided that the admission of new members or discontinuation of the membership of the group will be dealt by Chairman in consultation with Vice Chair, Secretary and ICID Central Office prior to the meeting itself through emails/ web conference.

13. The Pakistan National Committee (PANCID) has nominated Mr. Usman-e-Ghani for the membership of the group. The existing membership of the WG and new nominations are given at **Annex 4** (*see the electronic version for the latest list*). Any new nominations for the membership received during the meeting will be dealt suitably after the meeting.

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

SUPP:

WG-M&R Agenda Item 9.1: Webinar/ web-based seminar

14. Webinar/ web-based seminars are organized on web platform using video conferencing. This platform is used to organize workshop, seminar, presentations, etc. Many international organizations are using this platform to disseminate their knowledge. In order to share vast expertise available with ICID fraternity with Members of the NCs, it is proposed to organize on average about 2 webinars per month with the support of WG experts. WG will discuss and suggest 5-6 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.



NOTES FOR CHAIRPERSON:

1. Draft minutes of this meeting to be submitted to ICID Secretariat at Chiang Mai (Thailand) after the meeting.
2. Chair to participate and present the WG report to PCTA meeting on 11 November 2016.

ACTIONS TO BE IMPLEMENTED

Action	Timeline	Coordinator	Implementation
ICID 66th IEC, establish Task Force on “Monitoring actions after WWF7” appoint coordinator for forwarding actions on irrigation modernization and develop inputs to WWF8	10.2015 - 03.2018	ICID POs from IOs	Task Force will be established in Montpellier
November 2016, WIF2 and 67th IEC in Thailand, symposium on irrigation modernization in collaboration with other sectors and IOs	11.2016	ICID POs from IOs	In relation to Sub-theme 1. Key issues of irrigation and drainage in balancing water, food, energy and ecology FAO is planning to host a side event on the topic Irrigation Modernization
October 2017, ICID 23rd Congress and 68th IEC in Mexico, release an appeal on Modernization of irrigation to policy-makers and decision-makers of governments, private sectors and international financial institutions and formulate inputs to WWF8 in 2018	-03.2018	ICID POs from IOs	In consultation with MXCID WG-M&R will establish a small group to prepare the appeal
October 2015, ICID 66th IEC, establish WG on “Modernization and revitalization of irrigation schemes” and develop a scoping document		ICID POs from IOs	The WG-M&R has been established and had its first meeting at the occasion of the Montpellier meeting
Work together with IOs and other Institutions: FAO, IWMI, ICARDA, ICBA, IFAD, ICOLD, IHA, ADB, AFDB, IADB, WB, WWC and Universities	-10.2021	ICID POs from IOs	This item doesn't require a specific action, but has to be taken up in the other actions
November 2016, WIF2 and 67th IEC in Thailand, international workshop on new developments in irrigation modernization technology in collaboration with other sectors		ICID POs from IOs	This will be taken up in relation to Topic 1.4. Innovations and extension under new irrigation and drainage performance and services requirements for national water and food security
October 2017, 23rd Congress and 68th IEC in Mexico discuss standards and codes of practice associated with irrigation design, installation and evaluation to address socio-economic and environmental effects	10.2017	ICID POs from IOs	There are already proposals for such an activity by New Zealand and Turkey. In addition Central Office requests young professionals who receive support to provide the standards and codes of practices of their countries. All members of WG-M&R are requested to submit the relevant documents of their countries. WG-M&R will establish a small group consisting of its members to analyse the standards and codes of practices and to come up with guidelines and recommendations
October 2017, 23rd Congress and 68th IEC in Mexico disseminate report on Modernization irrigation/drainage for a new Green Revolution including application to American continent	10.2017	ICID POs from IOs	WG-M&R will establish a small group consisting of some of its members to prepare the report. To a large extent the report can be based on the papers for Question 61: State of knowledge of irrigation techniques and practicalities within given socio-economic settings

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:

		Outcomes / Outputs	Milestone for Year2017	Milestone for Year2018	Milestone for Year2019	Milestone for Year2020	Milestone for Year2021
Goal 1: Enable higher crop productivity with less water and energy	WG Activity 1.1		Milestone 1	Milestone 2	Milestone 3	Milestone	Milestone 5
Goal 2: Be a catalyst for change in policies and practices	2.1 Prepare position Paper on Key Issues on Modernization of Irrigation Schemes	A Position/Policy Paper of ICID		Release at WWF8 in Brasilia			
Goal 3: Facilitate exchange of information, knowledge and technology	3.1 Organize Workshops, Seminar and Symposium	Compilation of proceedings	Main Theme of Congress, Inputs to Congress				
	3.2 Exchange of information, knowledge, experience and networking		Milestone 1	Milestone 2	Milestone 3	Milestone	Milestone 5
Goal 4: Enable cross disciplinary and inter-sectoral engagement							

		Outcomes / Outputs	Milestone for Year2017	Milestone for Year2018	Milestone for Year2019	Milestone for Year2020	Milestone for Year2021
Goal 5: Encourage research and support development of tools to extend innovation into field practices	5.1 Preparation and presentation of Case studies	Compilation of Case Studies	6 Case Studies	2 Case Studies	2 Case Studies	2 Case Studies	2 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				
Goal 6: Facilitate capacity development	6.1 Condensed overview of Key books, manuals and Guidelines	Book Overview					
	6.2 Develop Guidelines for Modernization of Irrigation systems	Guidelines			Release Guidelines in WIF3		

MODERNIZATION AND REVITALIZATION OF IRRIGATION

Broad Outline for Case Study / Country Paper

(Guide – ideally about 9-10 pages – max length 14 pages)

1. **Introduction** – Very brief overview (**max 1.5 pages**)
 - (a) general country information such as topography, climate, agriculture and water resources development, and
 - (b) Irrigation and drainage development and achievements in the past
2. **Policy** – This section should briefly describe the (**max 1.5 pages**)
 - (a) challenges of food security,
 - (b) challenges of water scarcity,
 - (c) how irrigation water allocations are being effected,
 - (d) What are the shortcomings in irrigation systems,
 - (e) what strategies are being adopted, and
 - (f) how increasing more crop per drop challenge is being/ proposed to be met.
3. **Approach to modernization** – This section may include (**guide 1-2 pages**)
 - (a) details of the approach/ methodology adopted for modernization including
 - (i) stakeholders' consultation,
 - (ii) tools used for identification of components for modernization such as rapid appraisal, MASSCOTE, remote sensing and GIS etc.,
 - (b) components of modernization including cost estimates, benefits etc. and
 - (c) Funding mechanism
4. **Project information** – This section may include (**guide – up to 3 pages**)
 - (a) general information on project(s),
 - (b) its (their) performance in the past,
 - (c) identification of issues/concerns,
 - (d) need for modernization of the project(s);
 - (e) components of modernization of projects taken up, and
 - (f) component details etc.
5. **Implementation of modernization proposal** – This section may include (**Max 1.5 pages**)
 - (a) how modernization proposal was implemented,
 - (b) monitoring of project implementation,
 - (c) contribution from beneficiaries,
 - (d) how the need for new technology (if deployed) is being addressed.
6. **Lessons learnt including benefits from modernization** – This section may summarize (**Max 2 pages**)
 - (a) bottlenecks/issues/concerns faced during implementation,
 - (b) how these were overcome,
 - (c) lessons learnt from modernization process,
 - (d) impact and outcome of modernization of project etc.

7. **Way forward** – This section may provide **(Max 3 pages)**

- (a) summary and conclusions,
- (b) recommendations for future modernization plans,
- (c) roadmap for modernization of irrigation development in the country etc.
- (d) Funding required
- (e) Possible funding mechanism

References, maps, tables (as needed)



A. Members and their attendance at 2015 meeting

Sl. No.	Members	Member from (Year)	2015		Remarks
			Self	Contributed by mail	
1.	VP Ian Makin, Chairman (UK)	2015	•		
2.	Dr. Dong Bin, Vice Chairman (China)	2015	•		
3.	Engr. Muhammad Sani Bala, Secretary (Nigeria)	2015	•		
4.	Mr. Vyacheslav Rozhon (Ukraine)	2015	•		
5.	Mr. Mehrzad Ehsani (Iran)	2015	•		
6.	Ir. Eko Subekti (Indonesia)	2015	•		
7.	Dr. Yohei SATO (Japan)	2015	•		
8.	Mr. Bir Singh Dhimi, Young Professional (Nepal)	2015	•		
9.	Dr. Kwang-Sik Yoon (Korea)	2015	•		
10.	Mr. Mohd Yazid bin Abdullah (Malaysia)	2015	•		
11.	Ms. Meral Çiçek (Turkey)	2015	•		
12.	Mr. Puleng Mofokeng (South Africa)	2015	•		
13.	Dr. Brian T. Wahlin, Provisional Member (USA)	2015			
14.	Secretary General, ICID				
Permanent observers					
(i)	Mr. Alan Kendall Clark (UK)	2015	•		
(ii)	FAO Representative (Ms. Robina Wahaj)	2015	# ¹		

B. New nomination received from the National Committee

Sl. No.	Name	Country	Remarks
1.	Mr. Usman-e-Ghani	Pakistan	Recommended by Chair subject to his presence or else Provisional Member



¹ # Through representation