

APPENDIX XVII [PCTA Item 8.1]

**AGENDA FOR THE 4<sup>TH</sup> MEETING OF THE  
WORKING GROUP ON CAPACITY DEVELOPMENT, TRAINING AND EDUCATION (WG-CDTE)**

05 September 2019, 14:00-16.00 hours (Session I)  
05 September 2019, 16.15-18.15 hours (Session II)  
Bali, Indonesia

**Strategy Theme: Knowledge**

**Presented by the Chairman**

**Year of Establishment: 2015**

**Completion of the Mandate: 2021**

**Mandate:** (i) Coordinate and guide the knowledge management activities of the Commission and the capacity development activities by various WGs; (ii) Compile the status of training and educational programmes offered in different regions; (iii) Compile the Educational Programs being offered in irrigation and drainage in different regions; (iv) Identify the training and education requirements, and identify gaps in available training programs, explore the feasibility of developing e-learning program and prepare guidelines for their development to support education and training programmes; (v) Explore the scope of use of IT in capacity development including distant learning, and implement where feasible; (vi) Make available various tools required for sustainable development; (vii) Oversee the establishment and functioning of a Technical Support Unit for supporting NCs; and (viii) Facilitate the process of balancing education and training requirements, and provision of training services.

**Website:** [http://www.icid.org/wg\\_cdte.html](http://www.icid.org/wg_cdte.html)

**WG-CDTE Agenda Item 1: Action Taken Report by Chair<sup>1</sup>**

1. The Chair will present report on the actions taken on the decisions and proposals of the working group from its last meeting held at Saskatoon, Canada in August 2018.
2. ICID Central Office vide e-mail of 19 November 2018 to all Chairs/ Vice Chairs/ Secretaries suggested to make full use of web-ex platform for virtual meeting so as to ensure regular contribution from the WG members as well as discuss and initiate follow-up actions emerging from the minutes of the previous WG meeting and review the progress of the action points. In order to organize the WebEx Meetings, Webinars and e-Discussions, Chair of the workbodies were requested to send the 'Expression of Interest' to initiate the processes. No WebEx meeting of the WG could be arranged during the year.
3. No new nominations have been received from the NCs during the year. Chairman 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 processed suitably after the meeting. The Chair may provide further updates at the meeting.

**SUPP:** The ICID-Chinese Taipei Committee (CTCID) vide email of 24 July 2019 has nominated Dr. Wen-Pin Shu (Chinese Taipei) as member in the WG-CDTE.

The Malaysian National Committee of ICID (MANCID) vide email of 7 August 2019 has nominated Dato' Ir. Haji Hanapi bin Mohamad Noor (Malaysia) for the membership of WG-CDTE.

**WG-CDTE Agenda Item 2: Road Map to ICID Vision 2030 – Status of Activities on capacity development, training and education**

4. During Saskatoon meeting (2018), the WG decided to review the Action Plan of Road Map to ICID Vision 2030 based on the mandate by updating the activities on capacity development, training and education and education issues (refer **Annex 2**) which could not be discussed due to absence of the majority of the members of the group. In this regard, the WG decided to review this item in the next meeting of the WG in September 2019 at Bali, Indonesia.
5. As a follow-up, the ICID CO has requested WG Chair VPH Prof. Abdelhafid Debbarh to review the progress of various issues indicated in the action plan along with other relevant issues related to the mandate of the WG. The Chair will provide further updates at the meeting and WG members will deliberate on evolving monitoring mechanism of achieving milestones in the action plan.

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

**WG-CDTE Agenda Item 3: Promoting capacity development, training and education**

**WG-CDTE Agenda Item 3.1: Updates on activities of Technical Support Unit (TSU)**

6. During the Saskatoon meeting (2018), the WG apprised on the latest status of Technical Support Programme (TSP) activities. It was informed that Technical Support Unit (TSU) was established in 2016 with the overall objective to “undertake capacity development activities in the field of agricultural water management (AWM) in support of rural development” for the national stakeholders which is available at <<https://www.icid.org/tsu.html>>

7. In accordance with Resolution IEC-2/69, NCs were requested to (i) take full advantage of the establishment of the Technical Support Unit (TSU), and (ii) to contribute towards the Fund created for undertaking activities of TSP through Technical Support Unit (TSU). National Committees were also requested to volunteer and nominate suitable expert/ professional both for long-term (initially 6 months) as well as short-term (upto 10 days at a time) to support the activities of TSP. Korean Rural Community Corporation (KRC) and Korean National Committee of ICID (KCID) have indicated interest and full support in the activities of the technical support program and supported TSP activities through services of a long-term expert in the ICID Central Office. WG appreciated the KRC and KCID for their support to TSP. The WG also appreciated Iranian National Committee on Irrigation and Drainage (IRNCID) for supporting capacity development program i.e. ‘Workshop on ‘National Water Accounting’ through IRPID in December 2018 under TSP.

8. ICID’s 69<sup>th</sup> IEC meeting held on 17 August 2018 at Saskatoon, Saskatchewan, Canada, approved (*Resolution IEC-2/69*), a comprehensive Technical Support Programme (TSP) to be implemented by the TSU, giving details of the aims and scope, consultation of Core Group, mechanism to implementation TSP along with Terms of Reference (ToR) for Engaging Experts for TSU, which was shared with the NCs in January 2019. WG may like to discuss nomination of short term and long-term experts to implement TSP through TSU.

**WG-CDTE Agenda Item 3.2: International Training Workshop on Water Accounting Programme, 23-26 February 2019 at Tehran, Iran**

9. During the year, ICID supported under Technical Support Programme (TSP), an International Training Workshop on ‘Water Accounting – Concepts and Tools’ jointly organised by FAO, ICID and IRPID-IRN from 23-26 February 2019 at two cities of Tehran and Ahwaz (Khuzestan) in Islamic Republic of Iran. The workshop aimed to introduce concepts and tools to a wide range of audiences including high-level decision-makers, academics and professionals in the water, agriculture and environmental sectors, global experiences, international activities and state-of-the-art of knowledge on water accounting; discuss challenges in developing and implementing water accounting frameworks; highlight the need to apply water accounting frameworks for efficient water resources management at different geographical scales (from farm to catchment); and draw the attention of decision-makers at the national level to the use of new concepts and tools for better water resource managements. More than 370 participants were attended the training workshop.

10. During the workshop, several presentations were made by FAO and ICID representatives, which are available at <http://irpid-iran.org/>. ICID supported participation of Dr. Amgad Elmahdi (Australia) as a Resource Person, made a presentation on ‘Australian Water Reform and National Water Account’ during the workshop. While Dr. Pasquale Steduto and Ms. Domitille Vallee from FAO explained the main concept of water accounting that provides valuable information for water resource planning and management. All the participants filled in a feedback questionnaire to evaluate the training course that projected their increased awareness of water accounting concept and its application for water resources management and allocation. The outcome/feedback of the training workshop is available at [https://www.icid.org/nup2019\\_3.pdf](https://www.icid.org/nup2019_3.pdf)

11. Representative from IRNCID will provide further updates at the meeting.

**WG-CDTE Agenda Item 3.3: International Young Professionals Training Program (YP-TP), 22-25 April 2019 at Seoul, South Korea**

12. ICID in association with the Korean National Committee (KCID) and the Chinese National Committee (CNCID) organized a five-day International Young Professionals Training Programme on the theme “Climate Resilient Smart Irrigation Systems” from 22-26 April 2019 at the Rural Community International Education and Exchange Center (RC-IEEC) in Republic of South Korea. The International Young Programme (YP) training program was attended by 34 participants from 17 countries namely, Afghanistan, China, Egypt, India, Iran, Italy, Korea, Myanmar, Nigeria, Russia, South Africa, Sri Lanka, Sudan, Tajikistan, Ukraine, USA and Zambia, focused on building resilient irrigation systems around the world in the face of climate change, how these systems may be implemented in different biophysical environments

and the advanced technologies that are currently in practice. The Inaugural Session organized on 22 April 2019 began with a Welcome Address by Mr. Kim In Sik, Chairman, Korean National Committee on Irrigation and Drainage (KCID) and Chief Executive Officer, Korea Rural Community Corporation (KRC) who gave a brief introduction about ICID and its endeavor to promote capacity development program to attract young minds to agricultural water management sector by organizing training programs for YPs internationally. ICID President Felix B. Reinders (South Africa), in his keynote address, expressed his jubilation to welcome participants from different countries especially young professionals who are the experts/professionals in irrigation and drainage, Secretary General Er. A.B. Pandya gave an overview of the young professionals training program and an introductory presentation on the knowledge management portal, and Er. Harish K. Varma, Executive Director of ICID gave a brief presentation on ICID activities and various initiatives undertaken for capacity development of young professionals.

13. As part of the training, KCID conducted a survey with five questions to find the goals, vision and challenges in the agricultural sector from Young Professionals from around the world. The questions were discussed in detail during an interactive session steered by Dr. Marco Arcieri (Italy), Vice President, ICID and Secretary General ITAL-ICID on 24 April 2019. Besides, all the YPs provided a detailed write-up of their country profile on the current status of technology usage in the irrigation sector, prior to the training program. The training programme also included a one-day technical tour (25 April 2019) to nearby dams and irrigation systems to understand practical aspects of operational performance of irrigation systems in addition to classroom lectures and demonstrations. The training program was followed by an international expert consultation workshop on “Irrigation Technologies to Mitigate Climate Change” (26 April 2019) that provided an opportunity to the young professionals (YPs) to have a broader and in-depth exposure to emerging irrigation technologies and management scenarios considering the urgent need for a sustainable climate change-resilient agriculture sector. **KCID representative** will provide further updates at the meeting.

**WG-CDTE Agenda Item 3.4: 1<sup>st</sup> African Young Water Professional’s Forum (Af-YWPF) in October 2018 in Cairo, Egypt and Establishment of AF-IYPeF**

14. The Egyptian National Committee of ICID (ENCID) organized 1<sup>st</sup> African Young Water Professional’s Forum (Af-YWPF) during 1<sup>st</sup> Cairo Water Week (CWW1) from 14-18 October 2018 at Cairo, Egypt. The theme of the Forum was “Water Conservation for Sustainable Development”. VPH Dr. Mohamed Abd-MoneimWahba (Egypt), chaired the African Regional Working Group (AFRWG) of ICID, promoted and established the African Young Water Professionals Forum (Af-YWPF) with the objectives and mandate of the Forum. The Forum was supported by Ministry of Water Resources and Irrigation of Egypt (MWRI), International Commission on Irrigation and Drainage (ICID), Korea Rural Community (KRC), International Water Management Institute (IWMI), Global Water Partnership-Mediterranean (GWP-MED), the Nile Basin Capacity Building Networks (NBCBN) as well as National Committees on Irrigation and Drainage of Morocco, Italy and South Africa. The main aim was to create awareness among Young Professional’s on water resources, irrigation and drainage challenges and capacity development to facilitate sharing of experiences between the Young Professional’s (YP’s) in water related fields. More than 300 members were present during the Forum.

15. A three-day Training Workshop of the Forum brought together 24 African future water leaders from 12 African countries, including Sudan, Morocco, Ethiopia, Kenya, Mauritania, South Africa, Uganda, Nigeria, Malawi, Tanzania, Ghana and Egypt. The workshop included opening and closing sessions, four training workshops and four keynotes speeches given by international experts, with hopes to challenge and inspire young water professionals within the continent about leadership in the research and innovative space and motivate their action.

16. The training workshop exposed participants to important issues such as Water Food Energy Nexus, value engineering, current trends, technologies and research gaps in water resources, irrigation and drainage as well as simulation modelling in irrigation and drainage. Discussions ranged from climate change impact and vulnerability assessments in the Arab Region to using solar energy in irrigation. It was a fantastic opportunity for YP’s to showcase their knowledge and broaden their perspective to sustainable water management in an international setting, learn from shared experiences to broaden their minds and thinking of new and experienced water professionals. This gave them the opportunity to reflect on the skills and attributes they can bring to leadership in their different organizations, encourage innovative thinking and motivate societal-driven research. It also provided an exceptional networking platform for YPs to mingle with themselves and establish meaningful connections to promote their innovations among organizations and future engagement in research and development and other work-related matters. VPH Dr. Mohamed Wahba (Egypt) will provide further updates at the meeting.

**WG-CDTE Agenda Item 3.5: 5<sup>th</sup> African Regional Conference on Irrigation and Drainage, 16-19 March 2020, Marrakesh, Morocco**

17. The Moroccan National Committee of ICID (ANAFIDE) will be organizing the 5<sup>th</sup> African Regional Conference on Irrigation and Drainage (ARCID) from 16-19 March 2020 in Marrakesh, Morocco to

exchange experiences about lessons drawn, innovative technologies and irrigation development strategies to reduce deleterious impacts of climate change on African agriculture. The 5th ARC will focus on the theme “Sustainable Management of Irrigation for Improved Resilience of Agriculture in Africa” considering the need to address the aforementioned challenges to improve resilience in agriculture productivity for ensuring food security for the present and future generations in the African region. The following four sub-themes will be covered under the main theme: (i) Strategies to cope with water scarcity; (ii) Valorization of irrigation water; (iii) Management of irrigation schemes at different scales; and (iv) Drainage and ecological issues. The conference will bring together a wide range of participants, including policy decision makers, professionals, academicians and researchers from Africa and beyond working in irrigation and drainage or closely related fields and will provide an opportunity to revisit Moroccan achievements in modernized irrigated agriculture and appreciate historical attractive places in the country. During Mexico meeting, it was agreed that a training programme for YP’s from African region will also be organized preceding 5AfRC.WG Chair

Dr. Abdelhafid DEBBARH and representative of ANAFIDE will provide further updates at the meeting.

#### **WG-CDTE Agenda Item 4: Knowledge Management Strategy (KMS)**

18. The need for an integrated approach of Knowledge Management within ICID, being a knowledge based network, and particularly in view of the adoption of the ‘Road Map for ICID Vision 2030’ has already been acknowledged. Accordingly, a “Concept note on the Knowledge Management Strategy (KMS)” was presented at Mexico City meeting of the Committee in 2017. The Committee broadly agreed to the approach adopted in the draft strategy presented and desired that the draft strategy may be firmed up in consultation with various stakeholders so as to be presented at Saskatoon in 2018. Following Committee’s recommendation, a revised version of KMS (named ICID Knowledge Portal) was presented last year at Saskatoon in 2018, and the Committee recommended that KMS as presented may be followed up and launched in about a year’s timeline, by involving YPs for content generation and management.

19. With an objective to provide more support to the WGs to be able to contribute to the implementation of the strategy, the Central Office has a dedicated team for KM activities.

20. Based on an extensive keyword analysis of ICID publications since its inception, proceedings of two recent Congresses, i.e. 22<sup>nd</sup> and 23<sup>rd</sup> ICID Congresses in 2014 and 2017, and two recent World Irrigation Forums (WIFs), WIF1 (2013) and WIF2 (2016); a master keyword list has been prepared to make the search in Knowledge Portal more intuitive and efficient. The Knowledge Portal prototype is in testing phase and will be shared with ICID stakeholders for their feedback and suggestions.

21. Any further progress will be presented at the Committee’s meeting.

#### **WG-CDTE Agenda Item 4.1: Dissemination of Knowledge**

22. During the Saskatoon meeting, the group noted that the website of the WG-CDTE [http://www.icid.org/wg\\_cdte.html](http://www.icid.org/wg_cdte.html) was updated with new membership list, agenda, minutes, presentations, papers etc. In January 2019, the ICID CO has followed-up with the members and requested to provide interesting articles/papers/presentations/documents related to the scope of the group for uploading on the ICID website. Members may like to discuss and evolve methodology for sharing of information and updation of WG website.

#### **WG-CDTE Agenda Item 4.2: Sharing of Knowledge**

23. At Saskatoon meeting, the WG discussed about the organization of webinars to share vast knowledge available with ICID fraternity among members of the NCs with the support of WG experts. In January 2019, the ICID CO has followed-up with the members and requested to participate in the Webinar/Web-based seminar and also to suggest topics along with name of experts who can be consulted to deliver webinar. Response is awaited. WG will discuss the matter and provide list of topics along with name of the experts to deliver webinar. The updated Live recording of webinars organized by ICID so far is available at the ICID website [http://www.icid.org/icid\\_webinar.html](http://www.icid.org/icid_webinar.html).

#### **WG-CDTE Agenda Item 4.3: E-learning programmes as a capacity development tool**

24. During the last meeting, the WG supported the idea of development of e-learning programmes as a part of capacity development mandate and agreed to make effort to gather information on existing e-learning models on subjects related to agricultural water management (AWM) as well as identify the gaps and compile inventory of national institutes and education and training centres through the WG members and the NCs. In January 2019, the ICID Central Office has followed-up with the members of the group to provide any information available with them on various e-learning modules and details of training institutes in their country directly to WG Chair Prof. Abdelhafid Debbarh, with a copy to ICID Central Office. WG may

like to discuss how the existing capacities in the NCs could be used to establish a regular e-learning programme in ICID.

**WG-CDTE Agenda Item 5: Any other business**



**Annex 1 [Appendix XVII, Item 1]**

**A. Members and their attendance at 2017 and 2018 Meetings**

Sl. No.	Members	Member from (Year)	2017		2018		Remarks
			Self	Contributed by mail	Self	Contributed by mail	
1.	Prof. Dr. Abdelhafid DEBBARH (Morocco), Chairman	2015					
2.	Dr. Young D. Kim (Korea), Vice-Chairman	2015		# <sup>1</sup>			
3.	Mr. Mirza Asif Baig (Pakistan)	2016			•		Provisional Member. No contribution.
4.	Dr. Nader Heydari (Iran)	2016					Provisional Member. No contribution.
5.	Eng. Abu Obieda Babiker Ahmed Hassan (Sudan)	2016					Provisional Member. No contribution.
6.	Mr. Hasan Basri Yuksel (Turkey)	2016	•		#		Provisional Member. Contributed his paper in WG-IOA workshop in 2018
7.	Ms. Dahile Abdulquader Abdulhammed (YP) [Iraq]	2016					Provisional Member. No contribution.
8.	Mr. Raad F. Amein Taha (Iraq)	2016					Provisional Member. No contribution.
9.	VPH Dr. Mohamed (Egypt)	2018					Provisional Member.
10.	Dr. Shinji Fukuda (Japan)	2018	•				Provisional Member.
11.	Dr. Vijay K. Labhsetwar, ICID Central Office	2018	#				Provisional Member.
12.	Secretary General, ICID			#		•	

1. *Through representation*

S.No.	Name	Country	Remarks
01.	Dr. Wen-Pin Shu	Chinese Taipei	Recommended as member, subject to his presence else provisional member
02.	Dato' Ir. Haji Hanapi bin Mohamad Noor	Malaysia	Recommended as member, subject to his presence else provisional member



**Annex 2 (Appendix XVII, Item 2)**

**ROAD MAP TO ICID VISION 2030 – ACTIVITIES OF WG-CDTE**

	Activity	Outcomes/ Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021
<b>Goal C: Facilitate exchange of information, knowledge and technology</b>							
<b>C5. Strategy:</b> Dissemination of Data, Information, Tools, Knowledge and Know How	5.1 Guide and support organization of seminar/ workshops etc. by WGs and NCs	Networking and exchange of knowledge (development of knowledge portal)	Regular	Regular	Regular	Regular	Regular
	5.2 Report on role of ICT in capacity development	Study report	Discussion, collection and analysis of information Draft report	Finalisation and release of report	Collection of additional data and information	Update of report	Collection of additional data and information
<b>Goal E: Encourage research and support development of tools to extend innovation into field practices</b>							
<b>E1. Strategy:</b> Support Improving Research Prioritization in the Countries	1.3 Overseeing activities of Technical Support Unit (TSU)	Capacity development and technical support to NC	Regular	Regular	Regular	Regular	Regular
<b>Goal F: Facilitate capacity development</b>							
<b>F1. Strategy:</b> Enhancing Institutional Capacity Development of Member Countries	1.1 Provide technical support of National Committees, member and non-member of ICID (TSU)						
	1.2 Assisting to find capacity gaps in NC (TSU)						
	1.7 Contribute in the process of reorganization of NCs (TSU)						
<b>F2. Strategy:</b> Support Capacity Development Activities of Member Countries	2.1 Facilitate donor NCs supports joint research, invitations training, YP support program, or membership subscription in certain period (TSU)	Technical Report	Finalisation and dissemination of technical report				
	2.2 Report on capacity development needs, available training courses, gaps, institutes which can provide training to fill gaps etc.	Study report	Discussion, collection and analysis of information Draft report	Finalisation and release of report	Collection of additional data and information	Update of report	

	Activity	Outcomes/ Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021
	2.3 Organizer Webinar	Online meeting	Identification of topics and resource persons/ institutes	Support development of webinar material and its wider dissemination	Support development of webinar material and its wider dissemination	Support development of webinar material and its wider dissemination	Support development of webinar material and its wider dissemination
<b>F3. Strategy:</b> Technical Training of Young Professionals from Member countries	3.1 Develop on-line training and extension material to be used in support of improving irrigation practices and increasing water productivity				International training for YPs in cooperation with KRC/KCID at RC-IEEC, KRC, Korea (April 2019)	YP training programme prior to 5 <sup>th</sup> AfRC on I&D 16-18 March 2020 at Rabat, Morocco	
	3.3 Establishment of a distance learning mechanism	e-learning modules	Identification of topics and resource person/institutes for development of e-learning modules	Development of e-learning modules and its wider dissemination	Development of e-learning modules and its wider dissemination Identification of additional topic etc.	Development of e-learning modules and its wider dissemination	Development of e-learning modules and its wider dissemination
	3.4 Capacity development/training program on request from NCs	Training of professionals	Organisation of regional training program one every year	Organisation of regional training program one every year	Organisation of regional training program one every year	Organisation of regional training program one every year	Organisation of regional training program one every year
	3.5 An online directory of institutes providing formal degree in Irrigation and Drainage	Online course	Collection and analysis of information and its wider dissemination	Update of information	Update of information	Update of information	Update of information
<b>F5. Strategy:</b> Providing Technical Support to NC's (TSU)							

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

