

**Minutes of the 9<sup>th</sup> Meeting of the  
WORKING GROUP ON WATER AND CROPS (WG-WATER & CROP)**

10 November 2016, 13.30-15:00 hours (Session-I)

10 November 2016, 15.30-17.00 hours (Session-II)

Chiang Mai, Thailand

**Strategy Theme: On-Farm**

**Presented by the Chairman**

**Year of Establishment: 2007**

**Completion of the Mandate: 2019**

**Mandate:** To promote the efficient use of water in crop production, to provide input to test crop water models, to investigate the use of energy crops for bio-fuel production, to develop techniques for rainfall harvesting, to promote the multifunctional use of water in paddy (rice) cultivation, to investigate the adaptation of agriculture to climate change and to promote low input agriculture.

**Members Present:** (1) VPH Ragab Ragab (UK); (2) VPH Laurie C. Tollefson (Canada); (3) Dr. K. Yella Reddy (India); (4) Dr. Marco Arcieri (Italy); (5) Ir. Adang Saf Ahmad (Indonesia); and (6) Dr. P. Soman (India), JIL.

**Observers:** (i) Dr. Sandor Szalai (Hungary); (ii) Ir. Sukras (Indonesia); (iii) Dr. Ismail Widadi (Indonesia); (iv) Ir. Syaiful Mahdi (Indonesia); (v) Ir. Mohd Anuar Musardar (Indonesia); (vi) Ir. Momon Sodik (Indonesia); (vii) Ir. Yuli Sri Wilanti (Indonesia); and (viii) Ir. Nita Yulianti (Indonesia).

**Website:** <http://wg-crop.icidonline.org>

**WG-W&C Minutes Item 1: Action Taken Report by Chair**

1. The chair briefly presented the action taken report of the WG since its last meeting in Montpellier in 2015.
2. The Chair referred to the video-conferencing facilities being made available by the Central Office which enabled monitoring of the actions taken on the decision of the WG. The chair and members expressed that presently they were well connected through e-mails and using video-conferencing facilities has some difficulty due to the different time zones of the members countries. However, based on the requirement this facility may be used in future.

**WG-W&C Minutes Item 2: ICID Action Plan 2030: Goal-wise Action Points**

3. The chairman informed that the 66<sup>th</sup> International Executive Council (IEC) had approved the new Vision, Mission and six Organizational goals of ICID. He requested the members to identify actions to achieve the Organizational Goals in the area of mandate of the WG which would form part of ICID Action Plan for Vision 2030. The Working Group discussed in depth the 6 goals listed and prepared the activity plan which has given at **Annex**.
4. WG decided to 'Develop guidelines on efficient use of water in crop production'. The detailed information on the existing procedures and methods followed from different regions and countries will be obtained, synthesized, analysed and detailed guidelines prepared. The ICID Central Office will be requested to facilitate in obtaining country/region wise information.
5. The WG proposed to organize an International workshop/seminar on '*Improving the Water Use Efficiency within the Water-Energy-Food-Nexus*' at Saskatoon, Canada in 2018. The papers from the seminar would be published in a special issue of the journal.

**WG-W&C Minutes Item 3: Multi-functionality of water use in paddy (Rice) cultivation**

6. The chair informed that the WG decided to bring out a 'Technical Report' based on the work carried out so far which included reports on : (a) efficient use of water in crop production, (b) crop water models, (c) multifunctional water use in paddy, and (d) rainfall harvesting and energy crops. NCs of Philippines, China and Indonesia have contributed their papers for the 'Technical Report' during the Montpellier meeting in 2015. Further, Central Office requested the members/NCs from Korea, Thailand and Chinese Taipei to contribute their papers in the area of the 'Multi-functionality of water use in paddy (Rice) cultivation' in their countries enriching the 'Technical Report' of the working group.

**WG-W&C Minutes Item 4: Publications of the Working Group****WG-W&C Minutes Item 4.1: Technical Report**

7. The chair informed that during the Montpellier meeting (2015), the WG discussed the reports by VPH Ragab Ragab (UK); Prof. Kim (Korea); Dr. Koji (Japan); and VPH Laurie C. Tollefson (Canada). However, report from Dr. K.Y. Reddy (India), Dr. Graziano Ghinassi (Italy) and Dr. Leon van Rensburg (South Africa) were awaited. Dr. Reddy (India) informed that the draft report on '*Efficient Use of Water in Crop Production*' was ready and he will submit it to the chairman shortly after making a few improvements. The chairman highlighted the importance of submission of the reports from other members who have been assigned the responsibility. It was also agreed that the report will be finalised in early 2017.

**WG-W&C Minutes Item 4.2: Best papers for Special Issue of IRD**

8. The WG had organized International Workshops: (1) "*Management of Water, Crops and Soils under Climate Change*" in 2013 at Mardin, Turkey and (2) '*Precision Irrigation for Sustainable Crop Production*' in 2015 at Montpellier, France. It was proposed to publish selected best papers in the Special Issue of IRD Journal.

9. The Chairman informed the members that French National Committee has taken responsibility of identifying the best papers from the Montpellier workshop for printing in the IRD journal.

**WG-W&C Minutes Item 5: Report of the Sub-theme 1 - Key issues of irrigation and drainage in balancing water, food, energy and ecology of WIF2**

10. The Chair informed that Sub-theme 1 of the Second World Irrigation Forum (WIF2) titled '*Key issues of irrigation and drainage in balancing water, food, energy and ecology*' was closely related with the mandate of the WG. VPH Ragab Ragab (UK), Chairman of the WG was member of the Work Team (WT) who prepared the Background Paper for Sub-theme 1 of WIF2 under the Chairmanship of Dr. Reza Ardakanian (UNU-FLORES). The Background Paper of Sub-theme 1 was available at <[http://www.icid.org/wif2\\_bg\\_pap\\_st1.pdf](http://www.icid.org/wif2_bg_pap_st1.pdf)>. Dr. Ragab was Co-chair of Parallel Session 1.5, whereas VPH Laurie Tollefson, Vice Chair of the WG was Rapporteur of Parallel Session 1.3 besides being a member of the 'International Review Committee' for WIF2. The WG appreciated their contributions.

**WG-W&C Minutes Item 6: Updating Multilingual Technical Dictionary (MTD)**

11. The Chair briefly described the process of updating the multilingual technical dictionary. The group discussed the issue and invited voluntary nomination from the members present to serve as nodal person for reviewing the terms related to the activities of the group. Dr P. Soman (India) volunteered to act as nodal person on behalf of the WG.

**WG-W&C Minutes Item 7: Dissemination of activities of WG – Website of the group**

12. The chair informed the members that as part of Water4Crops project 'SALTMED' online distant learning course had been developed. The details of the web-links had been shared within the website of WG-Water & Crops and WG-PQW. In order to share the experiences and communicate with each other, a forum has also been created at <[www.saltmed.createaforum.com](http://www.saltmed.createaforum.com)>.

13. The Chair requested members to share any important tools, manuals, technologies relevant to the working group activities for uploading on the ICID website for wider use. Dr Reddy informed the chair that the video on '*Ultra Sonic Sensors for efficient on-farm water management*' developed by WALAMTARI (India) under ClimaAdapt Project which was presented in the Side Event 6 of WIF2 '*Building Farm level capacities in irrigation water management to adapt to climate change*' would be made available to ICID for uploading on the website of the WG.

14. The Chair Dr Ragab and Dr Marco, member of the Working Group attended a workshop in Italy in October 2015 and made presentation on the topics relevant to the group activities and promoted ICID at the workshop.

15. Dr Laurie, Co-chair of the WG attended a conference in Cuba in April 2016 and made presentation on 'Water Use Efficiency'.

16. Dr K Y Reddy, the Secretary of WG along with the partners of 'ClimaAdapt Project' organized an 'International Conference on Climate Change, Water, Agriculture and Food Security' during 2-3 Nov 2016 at ICRISAT, Hyderabad, India. He has also organized a Side Event in WIF2 on '*Building Farm level capacities in irrigation water management to adapt to climate change*' in which both the Chairman and Co-Chairman of the WG participated and contributed towards the mandate of the WG.

**WG-W&C Minutes Item 8: Review of the membership of the Working Group**

17. The chair informed that new nominations of Dr. Nader Heydari (Iran) in place of Ms. Jaleh Vaziri and Dr. Wu Di (China) have been received from the Iranian National Committee on Irrigation and Drainage (IRNCID) and Chinese National Committee on Irrigation and Drainage (CNCID), respectively. The Chairman read out their brief bio data and recommended their membership for the WG. Their membership was unanimously accepted. Since the new nominees were not present during the meeting, the nominations were accepted as 'Provisional Member' for one year.

18. The Iraqi National Committee of ICID (IRQCID) has nominated Ir. Abbas Fadhel Mohammed and Ir. Shatha Salim Maged (*Young Professional*) for the membership of the group. Both nominees were admitted as 'Provisional Member' until the nominee attend the meetings or else contribute to the activities of the working group through e mail/video conference meeting. Membership status is given in **Annex 5 (page 33)**.

19. Dr. Allah Bakhsh (Pakistan), Provisional Member of the WG in 2015 contributed by e-mail and also submitted his paper on "*Tubewell run on Solar Energy and its use in Agriculture*" which had been accepted for oral presentation in the Side Event 10: "*Solar Energy in Irrigation and Drainage*" of WIF2. Though he was not present in the WG meeting, in view of his contributions, his membership is hereby regularized/continued.

20. On the basis of non-attendance, non-participation, no communication with ICID (ICID by-law 3.5) during the last 2 or more consecutive years, Chair recommended discontinuation of membership of Dr. Koji Inosako (Japan) and proposed to request the National Committee of Japan to nominate a new member in his place.

21. The Chair and members present expressed serious concern for non-presence of all four permanent members of the WG in the meeting. The Central office may take a note of it and take necessary action for removing/replacing them.

**WG-W&C Minutes Item 9: Any other business**

22. The members opined that there was an overlapping of work body activities with other Working Groups. The presence of 'Theme Leader' is necessary to overcome the issue of overlapping and streamline the activities.

23. The members opined to have Skype meetings to discuss about the WG activities and share the progress. All members agreed to share their Skype accounts to the Secretary of the WG for circulation among all.

**Webinar**

24. The members discussed the feasibility of organizing Webinar/ web-based seminars on web platform using video conferencing. It was proposed to organize one Webinar initially on any suitable topic. Dr K.Y. Reddy volunteered to organize one webinar on behalf of the work body.





## Annex [Appendix XVI, Item 2]

## ICID ACTION PLAN VISION 2030 – ACTIVITIES BY WORKBODIES

**Name of the Chairman and members filling this questionnaire:** VPH Dr. Ragab Ragab (UK); VPH Laurie C. Tollefson (Vice-Chairman) and Dr. K.Y. Reddy (Secretary)

**Dated: 10 November 2016**

		Outcomes / Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021
<b>Goal 1: Enable higher crop productivity with less water and energy</b>			<b>Milestone 1</b>	<b>Milestone 2</b>	<b>Milestone 3</b>	<b>Milestone 4</b>	<b>Milestone 5</b>
	1.1 Develop guidelines on efficient use of water in crop production	Guidelines	Outline of guidelines - Introduction	Release the first draft guidelines	Finalise the draft guidelines	To publish it	
<b>Goal 2: Be a catalyst for change in policies and practices</b>	2.1 Technical Report	Report	Prepare the first draft report for discussion	Release the second draft report	Finalise the draft report	To publish it	
<b>Goal 3: Facilitate exchange of information, knowledge and technology</b>	3.1 International workshop/ seminar on 'Improving Water Use Efficiency in the frame work of Water Energy Food Nexus'	Workshop Proceedings	Announcement of Workshop	Organizing Workshop in Canada	Publication of Papers in the Special Issue of the Journal		
<b>Goal 4: Enable cross disciplinary and inter-sectoral engagement</b>	4.1 Crop – Water – Energy Nexus	Technical report		Workshop		Workshop	
<b>Goal 5: Encourage research and support development of tools to extend innovation into field practices</b>	5.1 Support research and development of modelling tools	Development of suitable Models, Sensors, Tools for field use	Prepare action plan	Draft report on various developments	Consolidation and final report		
<b>Goal 6: Facilitate capacity development</b>	6.1 Crop Water Models Aqua Crop	Conduct Training Workshops	Training Workshops		Training Workshops		



