

**AGENDA FOR THE 4TH MEETING OF THE
WORKING GROUP ON SUSTAINABLE ON-FARM IRRIGATION
SYSTEM DEVELOPMENT (WG-SON-FARM)**

04 September 2019, 14.00-16.00 hours
Bali, Indonesia

Strategy Theme: On-Farm

Presented by the Chairman

Year of Establishment: 2016

Extended the completion of the Mandate: 2022

Mandate: (a) On-farm irrigation structures and water distribution system networks are properly designed, installed, managed and maintained; (b) Soil moisture is monitored, technical and management measures for enhancing the water infiltration and retention capacities of soils are investigated and implemented; (c) Trade-offs among on-farm irrigation technologies, socio-economic and environmental benefits are optimized; (d) Innovative local institutional arrangements are developed and promoted for operation and maintenance; (e) Top-notch scientific and development relevant research is conducted and its results are translated into actionable recommendations.

Website: <http://wg-on-farm.icidonline.org/>

WG-SON-FARM Agenda Item 1: Action taken report by Chair¹

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 at Saskatoon 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 web-ex meeting of the WG could be arranged during the year.
3. Dr. Abraham Mehari Haile (The Netherlands) vide his email 9 October 2018 has confirmed to continue his membership and ready to contribute to the activities of the group hence, the group may like to continue the membership of Dr. Haile. Mr. Mohd Yazid bin Abdullah (Malaysia) has not contributed to the activities of the group during last two years so recommended to be discontinued and new member would be invited from the National Committee as well as other NCs. 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 dealt suitably after the meeting.

SUPP: Malaysian National Committee (MANCID) has nominated Dr. Teoh Chin Chuang for the membership of the group. WG may like to consider the nomination during Bali meeting.

WG-SON-FARM Agenda Item 2: Road Map to ICID Vision 2030 – Status of activities on sustainable on-farm irrigation

4. The group reviewed the activities as part of Road Map to ICID Vision 2030 and updated the progress (refer **Annex 2**). During Saskatoon meeting, the group agreed to prepare three papers - one position paper, one overview paper and one thematic document to be presented during the Bali meeting in September 2019 for which Dr Ghinassi, Mr Carl Walters and Dr Yu-Min Wang agreed to prepare one paper each. Accordingly, ICID Central Office has requested them to initiate actions to prepare the papers and present it at the Bali meeting. In response, Prof. Yu-Min Wang has informed that he will be presenting a paper titled "An Environment Friendly Approach for Saving Irrigation Water and Fertilizer in Paddy Field" during Bali meeting. Chair/ respective WG members will provide further updates at the meeting.

WG-SON-FARM Agenda Item 2.1: Publications of the working group

5. At Saskatoon, after discussion, the Chair Dr Randev agreed to discuss the finalization of the article titled "Improvement of the on-farm irrigation systems using simple water control, measuring and application devices" and paper titled "Micro irrigation for smallholders and greenhouses" with ex-Chair President Felix Reinders for its

¹ This will also include details of membership of WG as **Annex**

possible publication in the ICID Journal. ICID Central Office has requested the Chair to update the status of finalization of the paper. Chair will provide further updates at the meeting.

WG-SON-FARM Agenda Item 3: Collection and collation of micro and sprinkler data

6. During Saskatoon meeting, the Chair requested members to access the website and provide the updated information in respect of data pertaining to their countries so that the datasheet of Sprinkler and Micro Irrigation can be updated regularly. In response to the circular, National Committees of USA and Turkey were provided the updated data. The updated table of total sprinkler and micro area (in descending order) is available at <http://www.icid.org/sprinklerandmicro.pdf>.

WG-SON-FARM Agenda Item 4: Dissemination of activities of WG

WG-SON-FAMR Agenda Item 4.1: Website of the group

7. The website of the working group <http://wg-on-farm.icidonline.org/> is fully updated with new membership list, agenda, minutes etc. ICID Central Office has requested members to share information, knowledge & experience and provide papers, presentations, articles, reports etc. related to any outcome of their research or development efforts at their respective working places for uploading on the WG website for wider dissemination.

WG-SON-FAMR Agenda Item 4.2: Webinar/ Web based seminar

8. Dr. Graziano Ghinassi (Italy) delivered an ICID webinar on the topic 'Smart technology to reduce energy consumption for water spreading and pipe production in hose reel sprinkler irrigation' on 5 December 2018. Mr. Sergio Sacchini (Expert Assistant) joined as a panellist during the webinar. The webinar primarily focused on the use and performance of a new device which allows the positioning of an anti-friction plastic tape below the pipe of hose reel machines when sliding over the field surface. The proceeding of the webinar is available at http://www.icid.org/icid_webinar_13.html. Members are requested to explore possibility of delivering webinar on the topic related to the mandate of the WG as well as participate in the upcoming webinar by visiting the above website.

WG-SON-FARM Agenda Item 5: Updating Multilingual Technical Dictionary (MTD)

9. At Saskatoon meeting, WG discussed about updating of MTD and after discussion, the Chair encouraged members to undertake the review of the concerned terms depending on their domain of expertise and suggest changes/ modifications and additions of new term(s), if any along with pictures, links and videos related to respective term(s). Chair will provide further updates at the meeting.

WG-SON-FARM Agenda Item 6: Joint Session of Strategy Theme On-Farm, September 2019, Bali

10. At Saskatoon, the group successfully organized the Joint Session meeting of Strategy Theme 'On-Farm' on 15 August 2018. Similarly, this year too, a Joint Session of three WGs under Strategy Theme On-Farm will be organized on 5th September 2019 at Bali during 70th IEC and WIF3. WG-WATER & CROPS, WG-SON-FARM and WG-NCWRI fall under the strategy theme 'ON-FARM'. In this respect, 1st online WebEx meeting was organized on 31 May 2019. The minutes of the WebEx meeting are available at **Annex 3**. Members of the WG are requested to participate in the joint session of strategy theme On-Farm on 5 September 2019.

WG-SON-FARM Agenda Item 7: 9th International Micro Irrigation Conference, 16-18 January 2019, Aurangabad, India – Feedback

11. The 9th International Micro Irrigation Conference (9IMIC) was successfully organized from 16-18 January 2019 in Aurangabad, Maharashtra, India on the theme 'Micro Irrigation in Modern Agriculture'. The Conference was hosted by the Indian National Committee on Surface Water (INCSW), which is a part of the Ministry of Water Resources, River Development and Ganga Rejuvenation (MoWR, RD&GR), Government of India in association with WAPCOS Limited. The conference was inaugurated by Hon'ble Union Minister Mr. Nitin Gadkari (Ministry of Road Transport and Highways, Shipping and Water Resources, River Development and Ganga Rejuvenation, Government of India); presided by Hon'ble Chief Minister of Maharashtra Mr. Devendra Fadnavis, and Hon'ble Union Minister Mr. Radha Mohan Singh (Ministry of Agriculture and Farmers Welfare, Government of India); Hon'ble Minister Dr. Mahendra Reddy (Ministry of Agriculture, Rural and Maritime Development and Waterways and Environment, Government of Fiji). Mr. U.P. Singh, Secretary, MoWR, RD&GR, Govt. of India; Mr. S. Masood Hussain, Chairman, (INCSW, Central Water Commission); Er. Felix B. Reinders, President and Er. A.B. Pandya, Secretary General from ICID were also present during the conference. The event witnessed a large group of eminent international and national experts and local farmers sharing their experiences in the field of latest development in micro irrigation technology to enhance crop production and water management for optimal use in agriculture, technical and sociological interventions for sustainable water, food and agriculture. Around 700 delegates from 30 countries participated in the conference that provided a global platform to professionals and exhibitors to showcase

their knowledge and technologies from around the world. Broad recommendations of the 9IMIC can be accessed at https://www.icid.org/9th_microirri.html.

WG-SON-FARM Agenda Item 8: International Young Professionals Training Program, 22-25 April 2019, Gyeonggi Province, Republic of Korea – Response from YPs on questionnaire

12. As agreed at Saskatoon meeting in August 2018, the Korean National Committee (KCID) organized the International Young Professionals Training Program (YP-TP) on “Climate Resilient Smart Irrigation Systems” from 22-25 April 2019 at Gyeonggi Province (Republic of Korea) in collaboration with the Chinese National Committee (CNCID) and ICID. KCID has also organized an International Workshop on “Irrigation Technologies to Mitigate Climate Change” on 26 April 2019 to provide an opportunity to the young professionals 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. During the YP training, thirty-four young professionals from 17 countries participated and gained the knowledge. As part of YP training, each YP was requested to provide their response to the following five questions: (i) How the recent climatic extremes are affecting water management for agriculture in your country/region? (ii) What new and innovative approach and technologies are being adopted to address these climate change issues? (iii) What management approach and solutions are being considered to adapt to climate change? (iv) How would you like to modify/augment water management practices and policies in region to generate a long-term strategy? (v) What is your view and contribution to promote climate smart agriculture?

13. The responses received from the YPs have been compiled, and the same is available at: <https://www.icid.org/ypqnrresponse.pdf>. It is felt that some of the responses relate to the mandate of the WG and the group may like to take note of the views and suggestions from YPs from different countries and discuss it during the meeting. Chair will provide further updates at the meeting.

WG-SON-FARM Agenda Item 9: Any other business

SUPP: Pr. El Houssine Bartali, Vice President of Moroccan National Committee (ANAFIDE) vide his email of 26 August 2019 has submitted a proposal for organization of 10th International Micro Irrigation Conference (IMIC) on the theme “Micro irrigation in the era of technology innovation and digital transformation” and 72nd International Executive Council (IEC) meeting from 26 September to 2nd October 2021 in the city of Agadir, Morocco. ANAFIDE representative will provide further updates at the meeting.



NOTES FOR CHAIRPERSON:

1. Draft minutes of this meeting to be submitted to ICID Secretariat at Bali, Indonesia after the meeting.
2. Chair to participate and present the WG report to PCTA meeting on 6 September 2019.

Annex 1 [Appendix XXIII, Item 1]

A. Membership of the working group at 2017 and 2018 meetings

Sl. No.	Members	Member from (Year)	2017		2018		Remarks
			Self	Contributed by mail	Self	Contributed by mail	
1.	Dr. A.K. Randev, Chairman, 2016 (India)	2015	•	•	•		
2.	Mr. Carl Walters, Vice Chair, 2016 (Australia)	2015	# ²	•	•		
3.	Mr. Suman Sijapati, Secretary, 2016 (Nepal)	2015	•	•		•	
4.	Dr. Graziano Ghinassi (Italy)	2015	•	•	•		
5.	Mr. Hassan Shantia (Iran)	2015			#		
6.	Dr. Abraham Mehari Haile (The Netherlands)	2015					Confirmed to contribute
7.	Mr. Mohd Yazid bin Abdullah (Malaysia)	2015					No contribution during last two years. Recommended for discontinuation
8.	Dr. Akira Iwamoto (Japan)	2015	•		•		
9.	Dr. Chen, Ching-Tien (Chinese Taipei)	2015	•	•	•		
10.	Mr. Bashu Dev Lohanee (Nepal)	2015	•		•		
11.	Dr. Hossein Dehghanisani (Iran)	2015	•	•		•	
12.	Mr. S.P. Jadhav (Direct Member), JISL (India)	2015				•	
13.	Mr. Siboniso Phillip Mkhali (South Africa)	2015	•				No contribution during last one year.
14.	Mr. Ömer Faruk Akbulut (Turkey)	2015	•				No contribution during last one year.
15.	Mr. Yao Bin (China)	2016	#				No contribution during last one year.
16.	Dr. Zhang Guohua, Young Professional (China)	2016			•		
17.	Prof. Chang Eon Park (Korea, Rep. of)	2016	•		•		
18.	Eng. S. Mohanarajah (Sri Lanka)	2016		•			
19.	Dr Yu-Min Wang (Chinese Taipei)	2018			•		
20.	Dr. Ibrahim Mohamed Mahmoud (Egypt)	2018					No contribution during last one year
21.	Prof LB Roy, Direct Member (India)	2018				•	
22.	Secretary General, ICID						
	Observers/ Permanent Observers						

² # Through representation

Sl. No.	Members	Member from (Year)	2017		2018		Remarks
			Self	Contributed by mail	Self	Contributed by mail	
(i)	Mr. Sher Singh (India)						
(ii)	Mr. M.S. Sudhakar (Direct Member), JISL (India)						
(iii)	Mr. Abijit Joshi (Direct Member), JISL (India)						
(iv)	Dr. Jano Anter (Germany)						
(v)	Mr. Bruno Molle (ISO)						
(vi)	FAO Representative						

B. New nomination received from the National Committee

No.	Name	Country	Remarks
1.	Dr. Teoh Chin Chuang	Malaysia	Recommended as member, subject to his presence else provisional member



ROAD MAP TO ICID VISION 2030 – ACTIVITIES OF WORK BODIES

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
Goal A: Enable higher crop productivity with less water and energy							
A1.Strategy: Modernizing irrigation systems	1.3 Prepare country overview papers	Papers	Prepare two country overview papers	Prepare one country overview paper	Prepare two country overview papers		
A5.Strategy: Supporting water productivity enhancement	5.1 Prepare how to do thematic documents ready	Technical Document	Prepare one how-to-do document	Prepare one how-to-do document	Prepare one how-to-do document	Prepare one how-to-do document	Prepare one how-to-do document
	5.2 Develop a position paper on key issues on sustainable on-farm irrigation systems	Position paper	Prepare first draft paper	Finalize the position paper	Prepare second draft paper	Finalize the position paper	
Goal C: Facilitate exchange of information, knowledge and technology							
C3.Strategy: Promoting regional cooperation	3.9 Organize international workshop, seminar or symposium	Compilation of proceedings	First internal Workshop	Organization of the 9th International Micro Irrigation Conference (IMIC) in January 2019 at Aurangabad, India	Hosted 9th International Micro Irrigation Conference (IMIC) in January 2019 at Aurangabad, India	Second workshop	Third workshop
C4. Strategy: Compile, collate and share knowledge and experiences	4.20 Database on sprinkler and micro irrigation in the world	Database	Updating database	Updating database	Updating database	Updating database	Updating database
	4.27 Research article on state of the art for publication in Irrigation and Drainage Journal	Study report	Prepare one article	Publication in Journal	Prepare one article	Publication in Journal	Prepare one article
Goal E: Encourage Research and Support Development of Tools to Extend Innovation into Field Practices							
E2. Strategy: Strengthening Extension Services with AWM information							
E5.Strategy: Compilation of Global Data Sets on Irrigation and Drainage	5.1 Datasets for irrigated area	Database	Updating database	Updating database	Updating database	Updating database	Updating database
	5.2 Datasets for Pressurised Irrigation Systems	Database	Updating database	Updating database	Updating database	Updating database	Updating database

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



ONLINE/VIRTUAL MEETING OF JOINT SESSION OF STRATEGY THEME – ON FARM

Date: 31 May 2019; Time: 18:30 hours (India Time)

MINUTES

Members present: (1) VP Dr. K. Yella Reddy (India), Strategy Theme Leader – ‘On-Farm’ and Secretary of WG-WATER & CROPS; (2) VPH Ragab Ragab (UK), Chair of WG-WATER & CROPS; (3) VPH Laurie C. Tollefson (Canada), Vice-Chair of WG-WATER & CROPS; (4) Dr. A.K. Randev (India), Chair of WG-SON-FARM; (5) Mr. Carl Walters (Australia), Vice-Chair of WG-SON-FARM; (6) Dr. Wenyong Wu (China), Vice-Chair of WG-NCWRI; (7) Er. A.B. Pandya, Secretary General; (8) Er. Harish Kumar Varma, Executive Director; and (9) Dr. Vijay K. Labhsetwar from ICID Central Office.

ISSUES FOR DISCUSSIONS

Item 1: Background / Introduction

At the onset, Er. A.B. Pandya, Secretary General, welcomed all the members present and briefly narrated the background for the meeting. He reiterated that the consensus during the Canada meeting (2018) was to proceed with the development of a common agenda for the combined meeting of three WGs i.e. WG-WATER & CROP, WG-SON-FARM and WG-NCWRI (erstwhile PQW) with the aim to make the meetings more-lively, reduce number of parallel events, if possible.

Item 2: Outcome / Recommendations of the Joint Session of Strategy Theme – On Farm

Name of the Strategy Theme: During the Joint Session of Strategy Theme – On Farm held in Canada (2018), the new names proposed for the Strategy Theme were ‘Water Productivity’ or ‘Water Productivity and Environmental Sustainability’. However, considering reservations from PH Dr. Gao Zhanyi, Chair of SC-E-THEMES, members unanimously agreed to a revised name of “*On-farm Water Management*”. This would be placed for confirmation during the Bali meeting.

Structure of the Joint Session: SG A.B. Pandya brought the attention of the members to four components of the joint meeting i.e. WG Presentations, Workshops / Seminars, Panel Discussions and Webinar/e-Discussions and sought the opinion of the Chairs and members.

It was agreed to make WG presentations of mutual interest in the Jt. Meeting. WG-WATER & CROP is already organizing an International Workshop on ‘*Improving the water use efficiency and productivity within the water-energy-food nexus*’ on 01 September 2019 at Bali and members from the other WGs were invited to contribute to this workshop. As far ‘Panel Discussion’, it was thought appropriate to organize a 60-minute discussion on “*Building capacities for farm level water management*” (tbc) and Chaired by the Theme leader/s. Webinar/e-Discussions are to be organized during the year and not at the Joint Meeting.

Item 3: Tenure and expected output of the WGs of Strategy Theme ‘On-Farm’

Given the variable tenures of the three WGs and to bring out an expected output (guidelines / position papers, technical reports etc.) in due course of time, it was thought appropriate to extend the tenures of the WG-WATER & CROP (closing in 2019) and WG-SON-FARM (closing in 2022) to year 2025 which is closing of the WG-NCWRI (PQW). A proposal to this effect will be made to PCTA at Bali.

Item 4: Draw a combined agenda for the Joint Session on 05 Sept.2019 (13:30 to 17:00 hours)

The task of preparing a combined agenda was assigned to ICID Central Office. Accordingly, a draft agenda has been prepared. Chairs and members are requested to peruse the agenda and improve the same as appropriate by 01 July 2019 as time is scarce and confirmations have to be sought.

Item 5: Any other suggestion / observations

