

**MINUTES OF THE 6TH MEETING OF THE
WORKING GROUP ON SUSTAINABLE DRAINAGE (WG-SDRG)**

05 September 2019, 14:00-16:00 hours (Session I)

05 September 2019, 16:15-18:15 hours (Session II)

Bali, Indonesia

Strategy Theme: Scheme

Presented by the Chair

Year of Establishment: 2013

Completion of the Mandate: 2019

Mandate: (a) To promote drainage as part of integrated water resources management; and (b) To promote sustainable approaches for drainage and related projects through a balanced integration of (i) environmental, (ii) economic, and (iii) social and cultural aspects. The WG will work on – (a) Soil management and (integrated) water (resources) management; (b) Traditional and wise drainage management including (i) dry drainage and bio drainage, (ii) arid and semi-arid zones v/s rain fed zones, and (iii) controlled drainage and regulated drainage; (c) Operation and maintenance; (d) Promotion of multi-stakeholders approaches; (e) Reuse and multiple uses; (f) Promotion of risk assessment under global change, and (g) Assessment of drainage needs.

Members Present: (1) Mr. Bernard Vincent, Chairman (France); (2) Ms. Wang Shaoli (China); (3) Mr. Ardavan Azari (Iran); (4) Dr. (Ms.) Naoko Koshiyama (Japan); (5) Engr. Mohd Anuar Musardar bin Yusoff (Malaysia); (6) VPH Irena Bondarik represented Dr. Yurii Yanko (Russia); (7) Prof. Aidan Senzanje (South Africa).

Observers: (1) PH Chandra Madramootoo (Canada); (2) VPH Dr. Mohamed Wahba (Egypt); (3) Engr. Tanatuwa Damian Ngamwa (Nigeria); (4) Hao-Che Ho (Chinese Taipei); (5) Jong-Hsing Tsai (Chinese Taipei); (6) Arthon Suttigarn (Thailand).

WG-SDRG Minutes Item 1: Action taken report by the Chair

1. At the onset, the Chair Bernard Vincent welcomed all the members and briefed on the latest status on the action point emerging from the minutes of the previous meeting of the WG held at Saskatoon, Canada. Chair encouraged members to make full use of web-ex platform for virtual meeting to ensure regular contribution and initiate follow-up actions emerging from the minutes of the previous WG meeting.

2. The group reviewed the nomination of Dr. Ratan Chand Jain received from the Indian National Committee on Surface Water (INCSW) for the membership of the WG however, as he was neither present nor represented, he was accepted as 'Provisional Member' until the next meeting. The group also reviewed the nomination of Dr. Natsuki Yoshikawa (Japan) and accepted him as 'Provisional Member' pending his nomination to be recommended by Japanese National Committee to ICID Central Office.

3. Mr. Chen Hung-Kwai (Chinese Taipei), and Dr. (Ms.) Bilge Omar (Turkey) have not been contributing to the activities of the group during last two years so the group recommended to discontinue their membership and invite new nominations from their National Committees as well as other NCs. Membership status is given in **Annex 4** (page 27).

4. Chair Bernard Vincent briefed the group about the National Drainage Workshop held in France with the aim to discuss and sharing knowledge on various aspects related to agricultural drainage wherein 200 participants attended the event. During the event, 11 papers were presented, two round tables were organized and one special issue was brought out. Chair further informed about the representation of the French branch and promotion of the WG in the "French water partnership" through activities in the group SFN and water biodiversity. Chair highlighted the need of uploading small interviews, videos etc. on the WG's website for wider dissemination.

WG-SDRG Minutes Item 2: Road Map to ICID Vision 2030 – Status of activities on sustainable drainage

5. The WG reviewed the Road Map to ICID Vision 2030 as part of activities on sustainable drainage and updated it (refer **Annex**). While discussing roadmap WG Chair and members suggested to promote (a) drainage as part of integrated water resources management, and (b) adopt sustainable approaches for drainage and related projects through a balanced integration of (i) environmental, (ii) economic, and (iii) social and cultural aspects. After deliberation the WG agreed to work on the following:

- (a) Soil management and (integrated) water (resources) management

- (b) Traditional and wise drainage management including (i) dry drainage and bio drainage, (ii) arid and semi-arid zones v/s rain fed zones, and (iii) controlled drainage and regulated drainage;
- (c) Operation and maintenance;
- (d) Promotion of multi-stakeholders approaches;
- (e) Reuse and multiple uses;
- (f) Promotion of risk assessment under global change,
- (g) Assessment of drainage needs.

WG-SDRG Minutes Item 2.1: Publication of the WG

6. The group noted that Mr. Ardavan Azari (Iran) has prepared a design of pilot complex of bio saline agriculture activities for a region located in southern coastal area of Iran. Mr. Azari made a presentation on "*Bio-saline Agriculture Pilot complex in southern coastal area in Iran*".

7. Dr. Momon Sodik Imanudin (Indonesia) shared his power point presentation titled "DRAINMOD model adaptation for developing recommendations to maintain water table in the tertiary block of tidal lowland reclamations areas (A Case Study in Sugihan Kanan under Corn Cultivation)". Chair briefed the WG that so far, 1 paper was published on bio drainage (Gurbachan Singh) while on controlled drainage – 1 workshop was organized wherein 9 papers were received, and 3 presentations were made on wetlands. Further, Chair, encouraged members to make presentation on controlled drainage (The Netherlands, Finland) and dry drainage (China, Iran).

WG-SDRG Minutes Item 3: Updating database on 'Drained area in the world'

8. WG discussed and reviewed the updated database of drainage area which is available at <http://www.icid.org/world-drained-area.pdf>. Chair requested members to provide the latest information in respect of their countries to ICID Central Office every year regularly.

WG-SDRG Minutes Item 4: Updating Multilingual Technical Dictionary (MTD)

9. Due to paucity of time, updating Multilingual Technical Dictionary (MTD) was not discussed.

WG-SDRG Minutes Item 5: Dissemination of activities of WG

10. The group reviewed the website of the WG http://www.icid.org/wg_sdg.html and noted the updation of new membership list, agenda, minutes, events, etc. Chair requested members to provide articles/ papers/ presentations/ documents related to the activities of the group for the enrichment of the WG's website.

WG-SDRG Minutes Item 6: Organization of 14th International Drainage Workshop, 2020

11. Chair Bernard Vincent briefed the WG that the National Committee of Georgia had shown their interest for organizing the 14th IDW but status cannot be ascertained as no representative from the National Committee of Georgia could attend this meeting. However, representative from Russian National Committee (RuCID) explained that the Georgian proposal is on hold due to local re-organisation. Chair informed that he is aware following two proposals in respect of 14th IDW, which are still in discussion stage viz. (a) combining 14th IDW with IDS organised by ASABE and CIGR (joint proposal of Canada and USA) in 2021 to avoid the risk of over competition since the drainage community is not able to feed both events at a short interval of time; (b) China's IWHR and Wuhan University's National State Key Laboratory considering for organising 14th IDW as they have the huge capacity of to organize such event.

WG-SDRG Minutes Item 7: To revisit the mandate and include urban drainage – new item

12. The group noted that since urban flooding and its drainage is one of the important aspects of drainage which has direct bearing on lives of citizens in urban areas, environment, water quality and to some extent on urban agriculture also so it has been suggested and felt necessary that IDW may also deliberate on the topic of urban drainage. Accordingly, it is proposed to revisit the mandate of International Drainage Workshop (IDW) and explore possibility of including urban drainage also as part of IDW.

13. Seeing the importance of urban drainage in the light of flooding of urban areas in many countries in recent times, WG group agreed to discuss the issue of inclusion of urban drainage in the mandate of IDW at the meeting and provide the recommendation to PCTA.

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

14. The Chair informed that International Young Professionals Training Program (YP-TP) on “Climate Resilient Smart Irrigation Systems” held in Korea in April 2019 was organized by KCID in collaboration with the Chinese National Committee (CNCID) and ICID. WG suggested to review and try to utilize the outcomes of the Program YP-TP for the WG activities. A representative from South Africa informed that the delegates from South Africa attended the workshop and training program. From the questionnaire, the group noted one good idea to design controlled drainage so that adaptation to climate change will be easy.

WG-SDRG Minutes Item 9: Closure report and Scoping Document for the new Working Group

15. During the meeting, the group discussed and noted that drainage systems are required not only in irrigated areas but also in rainfed areas of humid and sub-humid countries. To address the drainage issues, the WG has been engaged in promoting drainage technology and management measures for sustainable agricultural production through a balanced integration of environmental, economic, and socio-cultural aspects.

16. The group noted that the WG completed its mandate, however, seeing the importance of drainage, the WG requested the PCTA to extend the completion of the mandate of the WG to one more year to enable the WG to set up a task team to prepare the scoping document for the establishment of new WG and based on recommendation of PCTA, IEC approved extension of WG-SDRG by one year.

WG-SDRG Minutes Item 10: Any other business

Annex [Appendix XXX, Item 2]

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 C: Facilitate exchange of information, knowledge and technology							
C4. Strategy: Compile, collate and share knowledge and experiences	4.23 Collection and compilation of drainage irrigation data	Database	Updating database	Updating database	Updating database		
Goal E: Encourage Research and Support Development of Tools to Extend Innovation into Field Practices							
E5. Strategy: Compilation of Global Data Sets on Irrigation and Drainage	5.3 Datasets for Drainage Area						

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

