

**MINUTES OF THE 1ST VIRTUAL MEETING OF THE
WORKING GROUP ON SUSTAINABLE DEVELOPMENT
OF TIDAL AREAS (WG-SDTA)
held on 13 May 2022**

Members Present: (1) Dr. Ruey-Chy Kao (Chinese Taipei Committee), Chairman; (2) Vice President Ddato. Ir. Hj. Nor Hisham bin Mohd Ghazali (Malaysia), Vice-Chairman; (3) Mr. Paavan Kumar Reddy (India), Secretary; (4) Dr. (Ms.) Hsiao-Weng Wang (Chinese Taipei Committee); (5) Prof. Budi Sasntoso Wignyosukarto (Indonesia); (6) Prof. Zhang Zhanyu (China); (7) Dr. Vijay K. Labhsetwar (India); (8) Mr. Alok Paul Kalsi (India); (9) Mr. Arthon Suttigarn (Thailand) represented by Dr. Surat Thanusin; and (10) Er. B.A. Chivate, Director (Technical), ICID Central Office, New Delhi

Observers: (i) Ir. Lee Hinle (NAHRIM, Malaysia); (ii) Ir. Nor Aslinda Awang (Malaysia); and (iii) Hjh Wan Soon Noorul Hafilh (Malaysia).

WG-SDTA Minutes Item 1: Review of Membership

The Chinese National Committee on Irrigation and Drainage (CNCID) has nominated **Ir. LIU Zhitong (China)** for the membership of Working Group on Sustainable Development of Tidal Area (WG-SDTA). However, Ir. LIU Zhitong could not join the virtual meeting of the WG. WG accepted his membership in the WG as provisionally.

WG-SDTA Minutes Item 2: ICID Action Plan 2030: Activities of Sustainable Development of Tidal Areas

The WG reviewed the Action Plan 2030 (Road Map to ICID Vision 2030) based on the new mandate by updating the activities on sustainable development of tidal area issues and provided latest updates about the fresh action plan for 2018-2023 (**Annex-1**).

During the virtual meeting, Prof. Hsiao-Wen Wang (Chinese Taipei Committee), member of the WG, presented a detailed procedure for the paper submission and review process for the Special Issue. The Special Issue is planned to be published by the end of year 2022. The WG members have greatly appreciated Prof. Wang for her contribution.

The publication of the Special Issue is based on the presentation papers of the 2019 International Workshop. The date for asking authors for their willingness is May 31, and the date for submitting improved or upgraded papers is July 15.

WG-SDTA Minutes Item 3: Upcoming WG Events

WG-SDTA Minutes Item 3.1: International Workshop on 'Integrated Solution for Irrigation and Drainage Tails and Land Subsidence in Tidal Areas' in 2022 at Adelaide, Australia

It was decided that WG would organize an International Workshop on '**Integrated Solution for Irrigation and Drainage Tails and Land Subsidence in Tidal Areas**' during the 73rd IEC meeting & 24th ICID Congress in October 2022 at Adelaide, Australia. Due to the COVID-19 pandemic restrictions (2020 & 2021), the WG annual meetings (physically) could not organize normally, so it was difficult for the Chair, Vice-Chair and Secretary of the group to discuss the theme, sub-themes and related topics with details of the international workshop. The WG & ICID CO may consider to announce the 'Call for papers' as soon as possible in order to organize the international workshop as scheduled in October 2022.

Further, Chair requested Prof. Hsiao-Wen Wang to prepare a plan for the workshop with draft preliminary content for call for papers. Prof. Wang presented the themes and sub-themes of the international workshop and after a detailed discussions within the working group members, the following discussions has been finalized with a theme of "Integrated Solution for Irrigation and Drainage Tails and Land Subsidence in Tidal Areas" and Sub-themes of -

- i. Adaptation measures and strategies strengthening irrigation, drainage and flood prevention facilities in tidal areas,
- ii. Case studies, and knowledge and experiences towards the better understanding of practical issues,
- iii. Institutional management and stakeholders' participation to address pressing challenges.

In the last week of May 2022, the draft Call for papers of the International Workshop of the WG-SDTA will be shared to ICID CO for dissemination to all stakeholders of the ICID.

WG-SDTA Minutes Item 3.2: Short Course titled 'Tidal Prediction and Land Subsidence Prevention and Reclamation'

With regard to organize a Short Course titled 'Tidal Prediction and Land Subsidence Prevention and Reclamation', the WG members brainstormed the effectiveness of the web-based or online based program. The most of the members felt that the objective of the 'Short Course' may be diluted due to the online meetings since last two years, participants may not have focus. By closely observing the COVID-19 situations in the 2022, Chair will inform the right-time to organize the 'Short Course' in Taiwan.

WG-SDTA Minutes Item 3.3: Web-based Seminar and e-Discussions

During the virtual meeting, the WG brainstormed very intensively on the delivering the three web-based seminars before next Congress in October 2022 and in-considering the time we have and slots availability may not be a good option to organize all the three webinars as mentioned in the agenda. Further, the WG agreed to organize a Webinar topic "Innovative coastal protection on Mangrove Coast" by Vice President Dr. Hj. Nor Hisham bin Mohd Ghazali (Malaysia). Dr. Hisham will share the 'Concept Note' along with Speakers and their CV and photograph with the proposed date / time to the ICID Central Office by May-end 2022. Based on the Webinar slot availability, ICID CO will communicate further in this regard. While two webinars of the WG would be delivered post-congress i.e. after October 2022.

WG-SDTA Minutes Item 4: Groundwater and the Land Subsidence on the coastal areas

During the virtual meeting, Chair initiated the discussions on how the groundwater and land subsidence matters in the coastal areas. In the earlier decades electric pumps were used to supply water demand for agriculture and others. In addition to this extracting the underground oil, gas & minerals leading more towards land subsidence without being noticed. To consider, especially in the case of coastal areas the effect of land subsidence is double superposition effect of the sea level rise and threaten the drainage capacity of original designed channels. In case of extreme rainfall, the flood disaster will be more extensive and serious. Vice-Chair Dr. Hisham shared a case of Malaysia, 90% water requirements come from surface water and five to ten percentage only usually comes from the ground water. But he expressed, there are some patches available in the coastal areas which are having water scarcity and in future the dependency on ground water will be enhanced.

The problems related to groundwater and land subsidence in coastal areas will become more important and can no longer be ignored. Chair informed that he will identify the lead person from university professors for how we can take it forward in the next three months.

WG-SDTA Minutes 5: Updating Multilingual Technical Dictionary (MTD)

During the virtual meeting, the Vice Chair Dr. Hisham informed about the status of the Malaysia technical dictionary, which is decade older than the existing terms, but Dr Vijay K Labhsetwar suggested that we need to add the missing terms in the ICID MTD only. If any new terms/abbreviations are available in the country specific, if it is not available in ICID MTD repository, then it can be added to the MTD.

WG-SDTA Minutes Item 6: A format for the 2-page 'Country Note' – Sustainable Development of Tidal Areas

During the virtual meeting, Chair requested the NCs except The Netherlands, Japan, Malaysia and India for Country Note on "Sustainable Development of Tidal Areas". If ICID CO can help us in sharing the remainder mail will be very grateful.

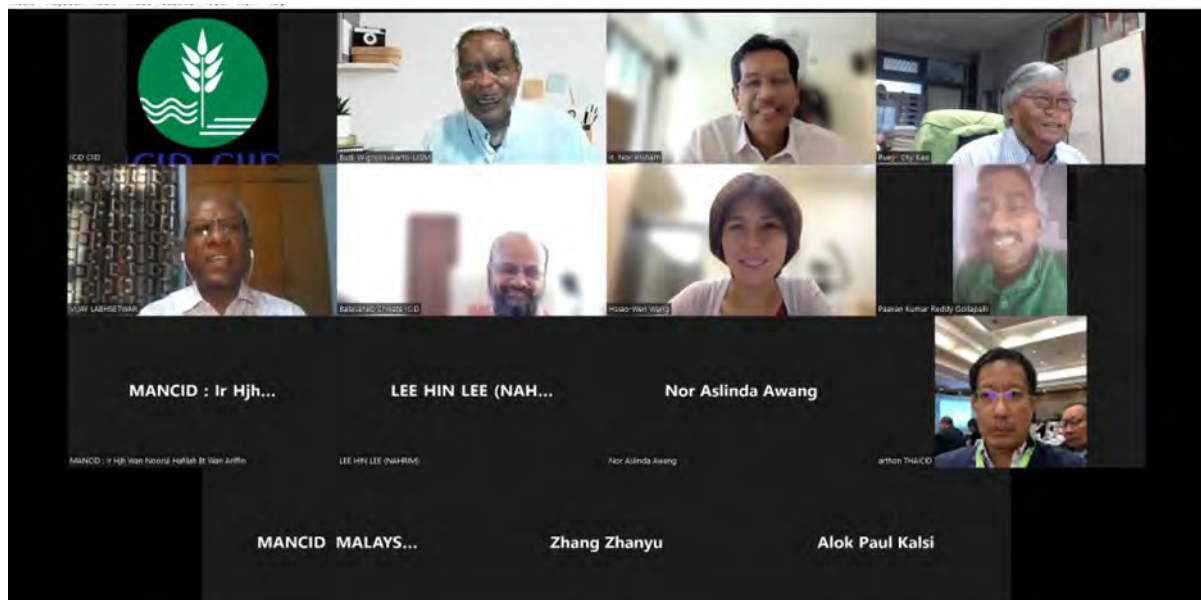
WG-SDTA Minutes Item 7: ICID Member's Profile Section

Chair requested the WG members to update their profile in the ICID website member profile section as soon as possible.

WG-SDTA Minutes Item 8 Register on World Irrigation and Drainage Schemes (WI&DS)

During the virtual meeting, Er. B.A. Chivate, Director (Technical), ICID CO requested all the WG members to circulate the information and update the details as soon as possible which was mentioned in the minutes of the WG.

WG-SDTA Agenda Item 9: Any other business



Annex 1

ROAD MAP TO ICID VISION 2030 – ACTIVITIES OF WG-SDTA (REVISED)

	Activity	Outcomes/ Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021	Milestone for Year 2022	Milestone for Year 2023
Goal B: Be a catalyst for change in policies and practices									
Strategy B1 : Supporting Development of Appropriate Policies	1.1 Promoting Sophisticated water-saving irrigation development with IOT and watersaving irrigation model techniques exchanges	Technical report, workshop proceedings and water industry web site	Preparing: Promoting demonstrative plan	Site tests demonstration: Hardware construction and software tests	Site tests demonstration: Hardware, software and system control integrating process	Site tests plan: Workshop observation	Examination Plan results & improvement	Examination Plan results & improvement	Examination Plan results & improvement; expand to other areas
	1.2 Promoting up-to-date watersaving experience exchange	As above	As above	As above	As above	As above	As above	As above	As above
	1.10 Sustainable drainage management experience exchange	Internet of Things Water industry workshop					Web-based seminars on SDTA	Webbased seminars on SDTA	Internet of Things Water industry workshop
Goal C: Facilitate exchange of information, knowledge and technology									
Strategy C4 : Compile, Collate and Share Knowledge and Experiences	4.26 Special Issue of ICID Journal on SDTA	Special issue of IRD	Announcement of special issue, inviting authors etc.	Setup Review Committee for selected papers based on the workshops	Submission of final drafts	Review Papers: 2019 International workshop papers	1. Publishing Special Issue of IRD 2. 2021 International workshop "Integrated Solution for Irrigation and Drainage of Drainage Tails and Land Subsidence in Tidal Areas"	Review Papers: 2021 International workshop papers	Publishing Special Issue of IRD
Strategy C5 : Dissemination of Data, Information, Tools, Knowledge & Know How	5.8 Develop and maintain the ICID web site as a knowledge hub	On-line					Develop and maintain the ICID web site as a SDTA knowledge hub	Update and maintain the ICID web site as a SDTA knowledge hub	Update and maintain the ICID web site as a SDTA knowledge hub

Goal E: Encourage research and support development of tools to extend innovation into field practices									
Strategy E3 : Develop and Promoting Tools for AWM	3.2 The application for output of development tools from academic institutions			Prepare tidal prediction and typhoon wave model		Prepare Short Course (2021)	Prepare "Tidal Prediction and Land Subsidence Prevention and Reclamation"	Prepare "Numerical Simulation of estuary and drainage flood in Tidal areas"	Prepare "Numerical Simulation of estuary flood and coastal flow field"
Goal F: Facilitate capacity development									
Strategy F3: Technical Training of Young Professionals from Member Countries	3.7 workshop/Training Workshop on Sustainable Development of Tidal Areas	Technical transfer and internet information short course /training workshop	Scope, theme and announcement		Short Course/Training Workshop on SDTA		Short Course / Training Workshop on SDTA	Web-based seminars on SDTA	Short Course / Training Workshop on SDTA
	3.8 To launch eDiscussion on Sustainable Development	E-discussion	E-discussion on Sustainable Development of Tidal Areas		e-Discussion on SDTA		e-Discussion on SDTA	e-Discussion on SDTA	e-Discussion on SDTA

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

