

**MINUTES OF THE VIRTUAL 2ND MEETING OF THE
WORKING GROUP ON USE OF NON-CONVENTIONAL WATER
RESOURCES FOR IRRIGATION (WG-NCWRI)**

04 November 2020, 14:30 Hours (IST)

Strategy Theme: On-Farm

Presented by the Chair

Year of Establishment: 2018

Completion of the Mandate: 2024

Mandate: To exchanging knowledge, experience and data as well as networking on the topic in order to be up-to-date with new developments, methods and approaches; to preparing comprehensive reviews and prospects with respect to different aspects of NCWR. Producing technical manuals, guidelines or standards with respect to all NCWR including waste water, drainage water and saline/brackish water; to organizing international workshops, seminars and meetings on the NCWR topic, to producing documents on successful case studies with the new developments with respect to NCWR presented by the members from different countries; to enlarging the membership of the WG by encouraging more member countries where the use of non-conventional waters is a common practice for irrigation management.

Members Present: (1) Dr Anna Tedeschi, Chair (Italy); (2) Dr. Wenyong Wu, Vice Chair/ Secretary (China); (3) Dr. Tapas Kumar Biswas (Australia); (4) Dr. Ratan Chand Jain (India); (5) Dr. Tasuku Kato (Japan); (6) Mr. Mohammed Ouhssain (Morocco); (7) Dr. Muhammad Munir Ahmad (Pakistan); (8) Vice President Hon. Ragab Ragab (UK); (9) Secretary General represented by Er. B.A. Chivate, Director (Technical), ICID (India).

Observers: (i) Vice President Dr. Marco Arcieri, ITAL-ICID Secretary General (Italy); and (ii) Mahmoud Badiss.

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WG-NCWRI Minutes Item 1: Introduction of the new Working Group by the Chair

1. Chair welcomed all the members and presented a brief report on the action taken on the decisions and proposals of the working group at its last meeting held at Bali Indonesia at September 2019. The group was happy to see the attendance of Dr. Muhammad Munir Ahmad (Pakistan) and the Chair hoped that the other members who failed to attend can do at the next meeting, especially the one has the status as Provisional Member. The group suggested that with the next WG meeting, it is necessary to verify the membership of the members because in some cases there has been no feedback for long-time. If there is no news and/ or contributions by mail, the WG should take some decision on the continuation of the membership. Membership status is given in **Annex 3 (Page 43)**.

WG-NCWRI Minutes Item 2: Road Map to ICID Vision 2030 – Activities on non-conventional water resources for irrigation

2. The group reviewed the Road Map to ICID Vision 2030 under the activities on non-conventional water resources for irrigation and updated it (refer **Annex**). During the WG meeting, following presentations concerning the new mandate of the working group was presented:

- (a) Prof. Wu Wenyong - Retrospect of reclaimed water irrigation guidelines in different countries.
- (b) Dr. R.C. Jian - Brackish groundwater resource and its potential for utilization in irrigated agriculture for water security in India.
- (c) Dr. Tapas K Biswas - Australia's upcoming AquaWatch satellite mission for 24/7 monitoring of inland and near coastal water quality from the space

3. The contributions were in line with the ICID Vision of 2030 and with the Road Map. The presentations were very interesting and several interesting comments and fruitful debates were taken place.

4. Moreover, the draft document of reclaimed water irrigation guideline is expected to be finalized by Dr. WU Wenyong and that showed the progress of the work. The contributions were very interesting and several comments of interest and participation from the audience happened.

WG-NCWRI Minutes Item 3: Discuss and develop work plan based on new mandate

5. The WG reviewed the work plan mandate of 2018 and proposed to revisit according to the action plan for the 2022 and according to the Road Map to ICID Vision 2030. The WG underlined how it is increasingly important to work on the theme of the WG's mandate, and in fact with the new global objectives aimed at smart cities, the reuse

of various waste products and among these also the recycled water becomes a crucial point for the goal of smart cities. Therefore, reiterating the importance of the group, the WG underlined the importance of creating greater multi-discipline-interaction linked to the reuse of non-conventional water, such as hydraulic engineering, sensors to monitor soil water content, sensor for quality water and their application, and precision agriculture approach.

WG-NCWRI Minutes Item 3.1: Prepare a state-of-the-art document on use of NCWR

6. The group noted that during Bali meeting, two contributions were presented by Dr. Fumi Okura on behalf of Dr Tasuku Kato and Dr. Muhammad Munir Ahmad, the members were invited to submit a document on the use of non-conventional waters, during the last WG meeting, and a new invitation to the members was done requesting to finalize the paper.

WG-NCWRI Minutes Item 3.2: Developing manuals/ standards with respect to NCWR

7. Dr. WU Wenyong illustrated the draft of the guideline on reclaimed water irrigation guideline in which evaluation, feasibility allocation, crop classification, irrigation technology, monitoring and assessment were included. Dr. WU invited all members to participate and make contributions.

WG-NCWRI Minutes Item 3.3: Organizing international workshop on NCWR topics

8. The Chair and the Vice Chair recalled the question of the workshop proposed during Bali meeting and requested interest of members in favor of organizing the workshop that was scheduled at Sydney 2020 (now proposed to be held in 2022 in Adelaide). The members were interested and confirmed the idea of wanting to continue with the plan even if the COVID-19 pandemic condition exist then the Workshop will be organized by webinar format.

WG-NCWRI Minutes Item 3.4: Publication of the erstwhile WG-PQW

9. After discussion, the WG agreed with the idea to prepare a technical report and for this purpose Chair will invite again the members for their active participation in processing the publication.

WG-NCWRI Minutes Item 4: Any other business

10. The WG discussed the possibility, considering that the 3 years of mandate of the current Chair have elapsed, and due to personal reason Chair Dr. Anna Tedeschi desired to step down from the Chairperson, the group decided to open the position of Chair. Two candidatures were proposed viz. Dr. Wu and Dr. Tapas and the members voted & the results were - 5 for Dr. Wu and 3 for Dr. Tapas.

11. The meeting ended with vote of thanks to all members for their active participation and contribution.



Annex [Item 1]

ROAD MAP TO ICID VISION 2030 – ACTIVITIES OF WORK BODIES

Goals/ Strategies	Activities	Outcomes/ Outputs	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021	Milestone for Year 2022
A7. Strategy: Using Wastewater or Poor-Quality Water for Irrigation	7.1 Compile best practices for sustainably managing and using non- conventional water resources	Case studies			State-of-the- art document on use of NCWR		
	7.2 Contribute to the establishment of national policy for re-use of treated wastewater in irrigation	Position Paper			Publishing a Paper of Reclaimed water irrigation in China		
	7.3 Participate in research on the development of sewage	Guidelines			Reclaimed water irrigation guideline		

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

