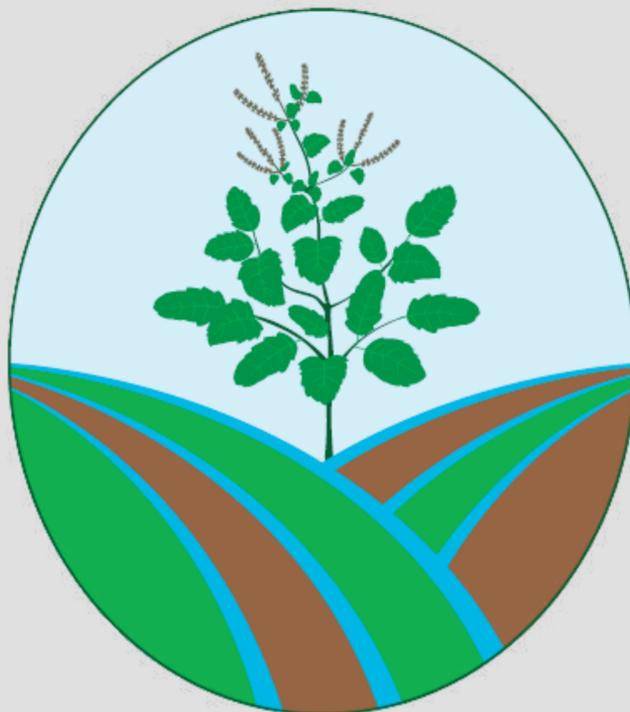




INCID

Indian National Committee on Irrigation & Drainage

A brief introduction



INCID

Indian National Committee on Irrigation & Drainage

Celebrating 7 decades

**INCID SECRETARIAT
CENTRAL WATER COMMISSION
GOVERNMENT OF INDIA**

September, 2022

Preface

Dr. R. K. Gupta - Chairman, CWC & Chairman INCID

Dr. R K Gupta pursued MS & PhD in Hydraulics from IHE, Netherlands. He joined Central Water Engineering Services in 1986. He has over 36 years of experience in water resources development & management esp planning, design and implementation of hydro power and water resources projects. As Chairman, KRMB, he looked after issues related to water sharing & conflict resolution. His expertise is in the field of hydraulic engineering, tunnelling & underground works and hydropower development.



Message from Chairman INCID

INCID has played a critical role in steering India's pursuit for agricultural development, irrigational infrastructure, technology & knowledge transfer. INCID has served as a platform to stimulate appropriate application of engineering, agriculture, economic, environmental, legal, social science & technology to improve irrigation, drainage, & flood management practices.

INCID has revamped itself to adapt better to newer challenges & complexities in the field of agricultural water management. It is praiseworthy to note that due to INCID's perseverance, India has bagged ICID's 10 World Heritage Irrigation Structure (WHIS) Awards and 12 WatSave Awards, and which are continuing.

In view of the plethora of developmental aspirations and challenges, I extend my heartiest wishes to INCID for successful and fruitful endeavors.

Mr. Kushvinder Vohra - Member (WP&P), CWC, Member - INCID & Chairman - Organizing Committee for 25th ICID Congress

Mr. Vohra has pursued B.E (Civil), LL.B (Law Degree) & M.A (Public Administration). He joined Central Water Engineering Services in 1986. His professional experience covers myriad of activities in areas crucial for sustainable development & management of water resources: natural resource, socio-economic aspects, and sustainability of environment. He has several awards & recognitions to his credit which include Water Digest Award 2018-19, Aqua Foundation Excellence Award 2019 & Eminent Water Resources Engineer Award-2019. He is also the President of the Indian Water Resources Society (IWRS).



Message from Chairman (Organizing Committee for 25th ICID Congress)

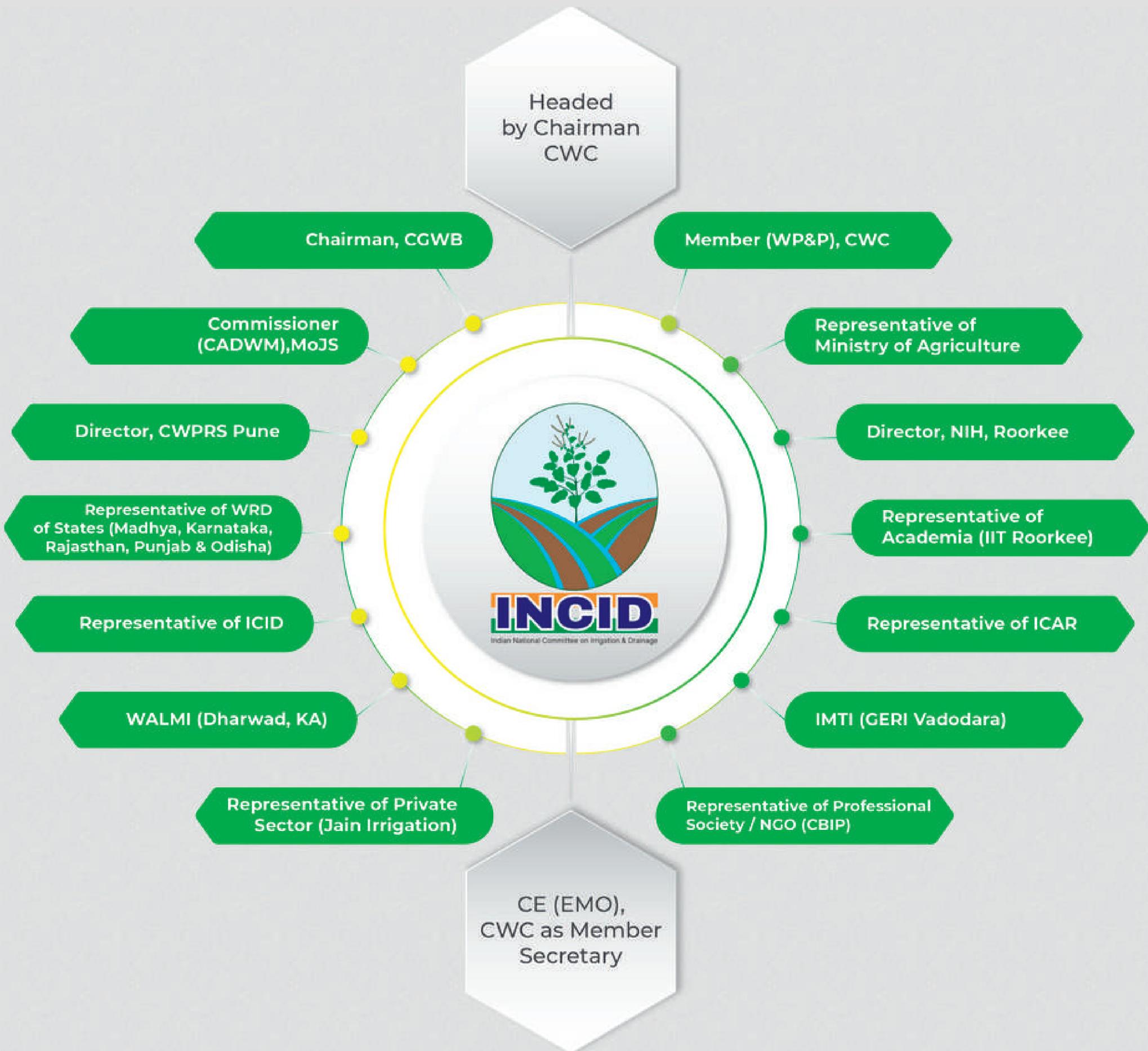
ICID & INCID have had a long and successful run for sustainable management of agricultural water resources. Both ICID and INCID turned 73 in 2022, with an unending list of achievements & success stories to their credit. Still, a lot is pending, especially in view of the upcoming challenges and complexities due to global warming, climate change and dwindling resources, which calls for greater impetus to water diplomacy, technical guidance, voice and representation. INCID, in its reconstituted version, has geared itself with a wide array of targets & assignments. The upcoming 25th ICID Congress scheduled to be held in India in November 2023 is one such milestone activity being hosted by INCID. Other current & upcoming initiatives include capacity building of grassroots agencies, rejuvenating & restructuring of institutes, new R&D research proposals namely, WALMI Meet 2022, Conclave on Water Security of India, National Certificate Course of Participatory Irrigation Management etc.

Mr. A K Kharya - Chief Engineer (EMO), CWC & Member Secretary INCID

After completing his M. Tech, Mr. Kharya joined the Central Water Engineering Services in 1988. During his 34 years of service, he has been put to various field assignments, water resources project development, bi-national issues with neighboring countries, policy & planning in the wake of climate change impacts on water resources etc. He has also served as the Head of the National Water Academy, a Center of Excellence for catering to training and capacity building needs of water sector professional. He is also a member of the ICID Working group on Capacity Development.



INCID ORGANIZATIONAL CHART



INCID Secretariat

Sh. R Giridhar

Director, INCID Secretariat

425-A (N), Sewa Bhawan,

R. K. Puram Sector -1, New Delhi - 110066



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ABOUT INCID

Indian National Committee on Irrigation and Drainage (INCID) was established along with the International Commission on Irrigation & Drainage (ICID) on 24th June 1950 to cater to India's needs for improvements in irrigation & drainage, through closer & active interactions with ICID.

INCID functions as India's representative National Committee for the ICID.

The primary objectives of INCID includes stimulating and promoting the development and application of irrigation, drainage, river training, and flood control techniques within India while integrating the efforts of Central Government, State Governments, academic institutions, and private sector in the field of agriculture water management.

INCID is serving as an ideal platform to stimulate appropriate application of engineering, agriculture, economic, environmental, legal, and social science technology to improve irrigation, drainage, and flood control practices.

INCID works towards identifying the technology upgradation needs of country and suggest import of technology from appropriate countries / organizations.

INCID was re-constituted in August, 2019 by the Ministry of Jal Shakti, Government of India. INCID is headed by Chairman, Central Water Commission (CWC) and Chief Engineer (Environmental Management Organization), CWC is its Member-Secretary, and Remote Sensing Directorate, CWC serves as INCID Secretariat.

OBJECTIVES

Stimulating & promoting development & application of irrigation, drainage, river training, & flood control techniques.

Integrating efforts of Central & State Governments, Academia & private sector for agriculture water management; and

Co-operating with ICID for distribution & interchange of information concerning irrigation, drainage, river training, & flood control between National Committees.

INCID SESSIONS

INCID has held two meetings after its reconstitution in 2019. The gist of the discussions held in these meetings is given below:

First Meeting of INCID - August 2020

- INCID highlighted the issue of wide gap between available technologies & the practices on ground.
- ICID & INCID provide an excellent platform to share and learn from each other at global level.
- Detailed discussion held on various topics including goals of INCID, ICID Road Map to Vision-2030, training programmes & initiatives for capacity development, ICID Awards and the gigantic task of the organization of 75th IEC and 25th Congress of ICID in India in 2023.

Second Meeting of INCID - July & October 2021

- Discussion was held on ICID's grand initiative on "World Register of Irrigation Projects"
- Deliberations held upon the action plan to take forward the Terms of Reference (ToRs) of INCID
- Committee agreed to create awareness among State Govts for sending nominations for ICID awards

OTHER ACTIVITIES

ICID Awards: INCID is actively involved in creating awareness regarding the various ICID Awards. INCID calls out the deserving nominations for the World Heritage Irrigation Structures from the States/UTs. The received nominations are examined and processed by INCID based on ground-truthing and the ICID guidelines.

Direct Membership of ICID: INCID examines and processes the cases for the Direct Membership of ICID received from Indian Individuals or Companies or Institutes.

Coordination with States and WALMI/IMTI(s): As the apex agency in the field on agricultural water management, INCID works at close coordination with the Indian States, WALMIs and IMTIs etc.

RECENT ACHIEVEMENTS

ICID World Heritage Irrigation Structures (WHIS) Awards

ICID awards the prestigious WHIS awards for Irrigation Structures that are more than 100 years old & are still functioning. It includes both old operational irrigation structures as well as those having archival value.

India received highest number of WHIS awards (**four**) in 2020 & 2021, along with 2 WHIS awards in 2018, (total 10 WHIS). Some of the WHIS structures from India are depicted below:



Grand Anicut (2nd Century)



Veeranam Lake (9th Century)



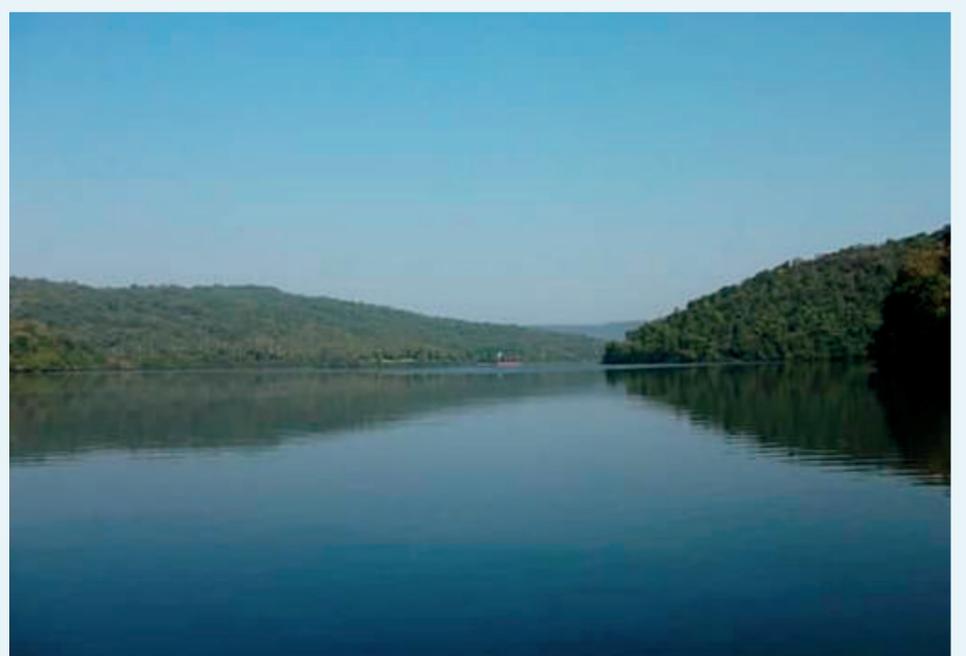
Kalingarayan Anicut (13th Century)



Porumamilla Tank (14th Century)



Cumbum Tank (16th Century)



Dhamapur Lake (16th Century)

ICID WatSave Awards

ICID constituted 4 categories of WatSave Awards in 1997 to identify and promote exceptional water conservation/saving practices in agriculture. They are presented every year to individuals or a team of individuals (including NGOs, Corporations, or Govt agencies) after evaluating actual realized savings; and not promising research results, plans or good ideas/intentions to save water.

Some of the WatSave Award Winners from India are:

WatSave Innovative Water Management Award

- **Prof. Dr. Subhash Madhawrao Taley (2011)** - *Participatory Rainwater Conservation of Rainfed Agriculture of Vidarbha Region (Maharashtra), India*
- **Messrs Shahaji Manikrao Somawanshi, Bharat Kawale and Sanjay Madhukar Belsare (2009)** - *Transformation of irrigation through management transfer user group*
- **Er. Suresh. V. Sodal (2004)** - *An initiative towards saving of water and sustainable Irrigation Management in Maharashtra State, India*

WatSave Technology Award

- **Dr. Yella Reddy, Mr. Satyanarayana & Mrs. G Andal (2008)** - *Micro Irrigation: A Technology for Prosperity*

WatSave Young Professional Award

- **Ms Neelam Patel (2006)** - *Water Banking? Micro Irrigation A technology to save water*
- **Er. Sanjay M. Belsare (2001)** - *Participatory Irrigation Management in Katepurna Irrigation Project: A Success Story*

WatSave Farmer Award

- **Mr. Mekala Siva Shankar Reddy (2020)** - *Micro-Irrigation with Fertigation*
- **Mr. Karan Jeet Singh Chatha (2019)** - *Water Conservation by use of Sprinkler & Drip Technologies in Paddy Crop*
- **Dr. Vijay Sharad Deshmukh (2017)** - *Effective Water Management through Farmer's Cooperative Interventions*
- **Mr. Chandra Shekhar H. Bhadsavle, Mr. Changdev K. Nirguda and Mr. Anil D. Nivalkar (2016)** - *Saguna Rice Technique - Zero Till, Conservation Agriculture*
- **Mr. Bhagwan M. Kapse (2015)** - *Group Farming and Micro Irrigation a Way to Prosperity*
- **Mr. Arvind Narayanrao Nalkande (2009)** - *Rainwater conservation through natural cracks in deep black soils*



INCID & ICID



INCID is the representative National Committee for India in the International Commission on Irrigation & Drainage (ICID). Both INCID and ICID were established on the same day in 1950.

ICID, established with India's initiative, is a leading scientific, technical, not-for-profit organization working internationally in the field of irrigation, drainage and flood management to promote 'sustainable agricultural water management'

ICID VISION
A water secure world free of poverty and hunger through sustainable rural development.

ICID MISSION
Working together towards sustainable agriculture water management through inter-disciplinary approaches to economically viable, socially acceptable and environmentally sound irrigation, drainage and flood management.

As a knowledge-sharing platform, ICID is dedicated to improving the status of agricultural water management practices including rain-fed agriculture, supplemental irrigation, deficit irrigation and full irrigation. Other core activities focus on the drainage of agricultural lands and the management of extreme climate events such as flood and droughts.

ICID partners with UN-Water and has close affiliation/liaison with UN Agencies like FAO, IFAD, UNEP, UNESCO, WHO, WMO, and other international professional organizations like ADB, AWC, GWP, ICARDA, ICOLD, ICRISAT, IFPRI, IGS, IHA, IUCN, IWRA, IWMI, ISO, AARDO, WWC, World Bank, etc. with an aim to bring together various stakeholders for sustainable agriculture water management.



ICID Website: <https://icid-ciid.org/>
Email: icid@icid.org

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RECENT INITIATIVES

WALMI Meet - 2022

Water & Land Management Institutes (WALMIs) / Irrigation Management Training Institutes (IMTIs) were set up in 1980s to promote advancement and acquisition of scientific knowledge and to provide scope for capacity building of the various stakeholders in the sector.

The huge gap between the technological developments vis-a-vis its application in water sector on one hand and need for behavioural change in water conservation and utilization practices by the people at large at other hand was realized by INCID and National Water Academy (NWA), Pune. It was also felt that having a greater collaboration and coherence in the activities of these institutes engaged in imparting water education will encourage synergetic outcomes.

NWA Pune & INCID jointly developed a Webinar Series, named "WALMI-Meet 2022", in collaboration with WALMIs/IMTIs to present their activities in respect of the issues, solutions, constraints etc. The webinar series was held from Feb, 2022 to July, 2022, in *One Week – One institute mode*, wherein presentations were made by the 14 WALMIs/IMTIs. This sharing of issues and constraints by the various institutes would pave way for critical restructuring & rejuvenating of these institutes.

It may be noted that there are 14 no of WALMIs/IMTIs or similar Institutes with slightly varying nomenclature spread throughout the country which takes up training and capacity development programmes for all stakeholders at the grassroot levels.

73rd Foundation Day Celebrations

INCID and ICID jointly celebrated their 73rd Foundation Day on 24th June 2022 at CWC, New Delhi. As part of the celebrations, a seminar on “*Role of Modern Irrigation in Global Food Security*” was organized. The invitations for the Foundation Day celebrations were extended to the various experts from State/UT Govts, Central Agencies/Departments including CGWB, UYRB, ICAR, NMCG, CWPRS Pune, NIH Roorkee, CSMRS, NWIC etc., ICID-member country Embassies and other international organizations working in the field of irrigation and drainage.

The Official Website of 25th ICID Congress along with Event Logo & First Announcement were also made public during these celebrations.



RECENT INITIATIVES

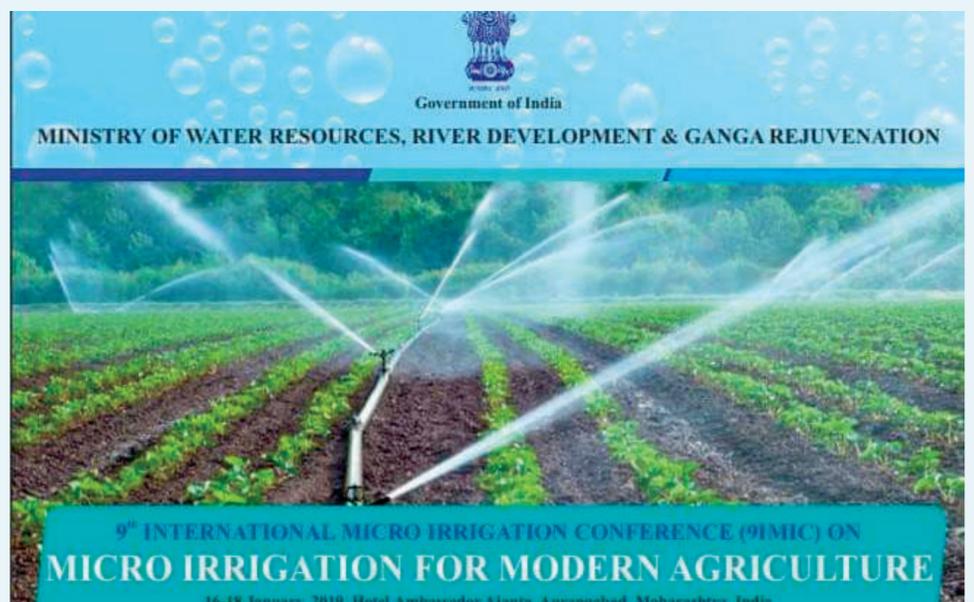
9th Micro - Irrigation Conference (2019)

ICID has been hosting the International Micro Irrigation Congress since 2005 with an objective of creating awareness among its members and irrigation community worldwide about latest developments in micro irrigation technology to enhance crop production. Since 2012, the event will be renamed as International Micro Irrigation Symposium.

The 9th International Micro Irrigation Conference was successfully held at **Aurangabad, India** from **16-18 January, 2019**. The event was jointly organized by ICID, INCID, CWC and WAPCOS. The conference aims and plans to provide a global platform for professionals and exhibitors by showcasing knowledge and technologies from the world over and providing business opportunities to the water resources communities.

The theme of the conference “**Micro Irrigation in Modern Agriculture**” aimed to share experiences in the use of new technologies and best management practices in drip, micro-sprinkler and other localized irrigation systems with sub-themes focusing on:

- *Design, Innovations, and New Techniques for increased Crop Productivity;*
- *Micro-irrigation funding and Government support;*
- *Micro Irrigation for ‘Cluster Level Farming and Small farm holders’; and*
- *Operation & Maintenance Services & Capacity Development for the Micro-Irrigation Systems.*



Register of World Irrigation & Drainage Structures

ICID has taken a visionary initiative to document the irrigation and drainage schemes at the global level to highlight the development of the irrigation infrastructure across the world. This Register of World Irrigation and Drainage Schemes will serve as a global repository of information for projects having the registered GCA of 5000 hectares or more. This exercise would help guide in the systematic management of irrigation and agricultural water.

Central Water Commission has prepared a Compendium on Irrigation Projects, which comprises of about 2000 projects. This list is being updated on regular basis and these projects are being integrated with ICID's web portal “World Register of Irrigation Projects” having registered GCA of 5000 hectares or above.

Web link: <https://wip.icidevents.org/>

CURRENT INITIATIVES

Conclave on "Water Security of India"

As an outcome of the discussion held among CWC, ICID, INCID and NWDA, a Conclave on "Water Security of India" has been planned as a 1½ day Side Event on **1st – 2nd Nov, 2022** during the 7th India Water Week (IWW) (1st – 5th Nov, 2022), to be organized by INCID, CWC & ICID and Prof Asit Biswas, a renowned water expert as main speaker.

The Conclave is proposed to be held in the form of a dialogue to deliberate upon the water security of India with eminent persons and thought leaders in the area of water resources. In view of the multidimensionality of the issue of water security, a total of 13 potential topics have been identified for deliberating the water security aspects pertaining to the country.

It is envisaged to publish the proceedings of the dialogue in the form of an edited book to give a permanent nature to the thoughts expressed by various experts. Further, resource persons for the potential topics have been identified and they are expected to make presentation as well as write a chapter on their respective topic, with the perspective of water security of India.

National Certificate Course on Participatory Irrigation Management (NCCPIM)

NWA Pune & INCID have joined hands for to develop and launch an online National Certificate Course on Participatory Irrigation Management (NCCPIM). NCCPIM is aimed to fulfill the long-standing need for PIM literacy among farmers and government field functionaries engaged in implementing PIM through the formation and strengthening of water user associations.

The online course will be effected thorough NWA Pune in association with the Indian Network on Participatory Irrigation Management (IndiaNPIM). The design, preparation and delivery of the training modules has been undertaken by IndiaNPIM and the course including all the course material has been hosted on the Moodle LMS of NWA (www.nwapune.gov.in).

Demo course on NCCPIM in Hindi & English mediums separately have been conducted for farmers to check the veracity and responsiveness of the website. No issues have been reported by the farmers and 90% of the farmers were able to finish the complete course in 10 days without any hurdle. NWA Pune has also conducted demo courses on the portal to check the process of registration and the responsiveness of the portal.

INCID is having deliberations with the stakeholders including NWA Pune and IndiaNPIM to discuss the schedule, modalities and arrangement for the launch ceremony of the online course.

CURRENT ACTIVITIES



25TH CONGRESS & 75TH IEC OF ICID

ICID Congress is the flagship triennial event aimed to deliberate & develop solutions for the concurrent global issues pertaining to agricultural water management.

INCID is hosting the 25th Congress & 75th International Executive Council (IEC) Meeting of ICID at **Vishakhapatnam, Andhra Pradesh, India** during **November, 2023** with the active collaboration of the Govt of Andhra Pradesh (India), ICID and ANGRA University, Andhra Pradesh (India).

Approval accorded in 72nd IEC Meeting of ICID & 5th African Regional Conference, at Marrakesh, Morocco in 2021.

Tentative Dates: 1- 8 November, 2023

International Executive Council (IEC) is the highest decision making body of ICID to deliberate on issues related to Policy, Budget, Finances, programmes, technical activities, etc.

Proud moment - ICID Congress being held in India after 66 years - 6th ICID Congress in 1966

Organizing Committee formed under chairmanship of **Mr. Kushvinder Vohra, Member (WP&P), CWC** in April, 2022 with members from INCID, CWC, Ministry of Jal Shakti, Govt of A.P, ICID & Acharya N. G. Ranga Agricultural University (ANGRAU), Guntur (AP). Mr. R Giridhar, Director - INCID Secretariat is the Organizing Secretary for the ICID events.

Theme: Tackling Water Scarcity In Agriculture

Ques 64: What alternative water resources could be tapped for irrigation agriculture?

64.1 Reinforcing conventional sources of irrigation water

64.2 Tapping non-conventional sources of water

64.3 Empowerment of farmers

Ques 65: Which on-farm techniques can increase water productivity?

65.1 Improving management of existing facilities

65.2 Improved Agronomics practices

65.3 Efficient application of irrigation water

Seminar: National policies for safe re-use of wastewater in irrigation

Symposium: Tackling Climate Change - Role of Storages for Irrigation



Govt of India



Central Water Commission



INCID



ICID



Govt of Andhra Pradesh



ANGRA University

Event website: <http://icid25congress.in/>

MORE ABOUT 25TH ICID CONGRESS

About the city

The event location

Vishakhapatnam (vizag) is one of the oldest port cities of India, situated in the heart of Andhra Pradesh, on the Bay of Bengal. Vizag is known for its picturesque beaches and serene landscape as well as rich cultural past.



Araku Valley, Vishakhapatnam



Arthur Cotton Barrage

Technical & Tourism Trips

EXHIBITION

Cultural Programmes

Venue: Radisson Blue Resort, Vishakhapatnam, Andhra Pradesh (India)

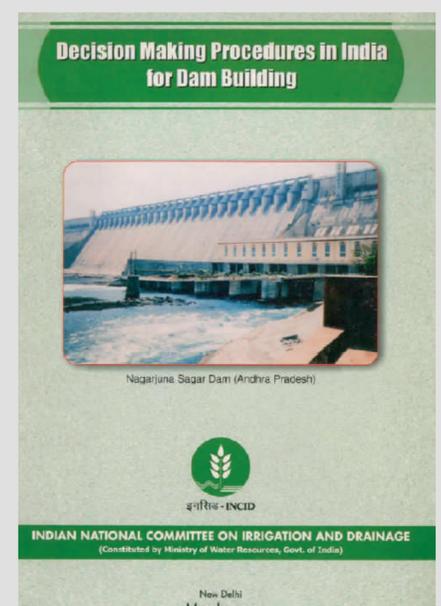
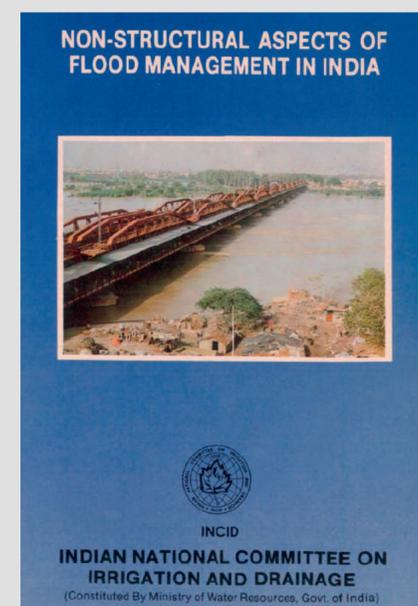
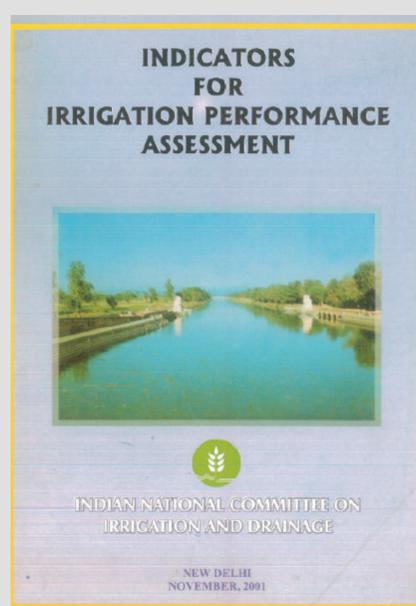
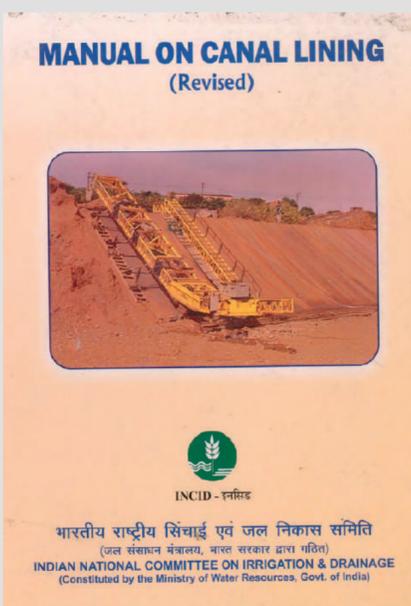
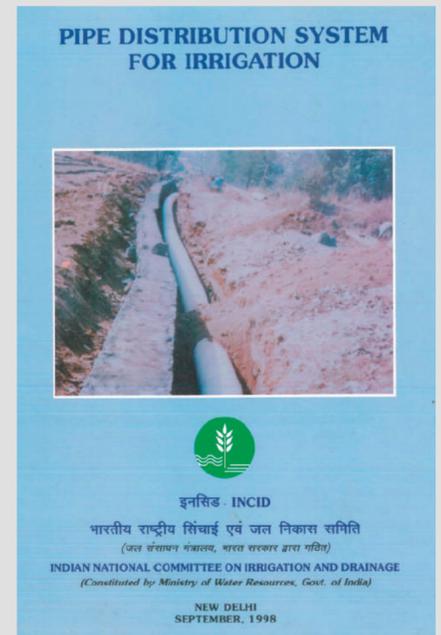
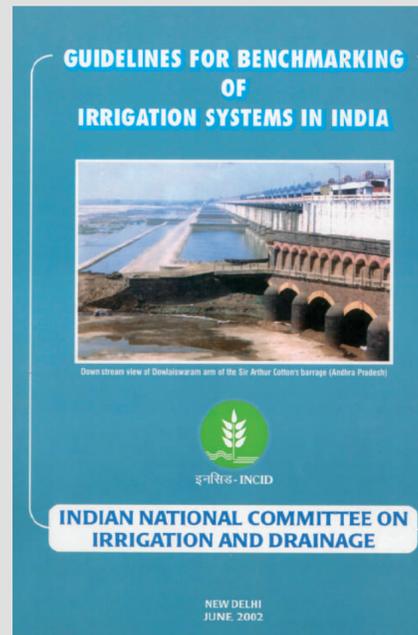
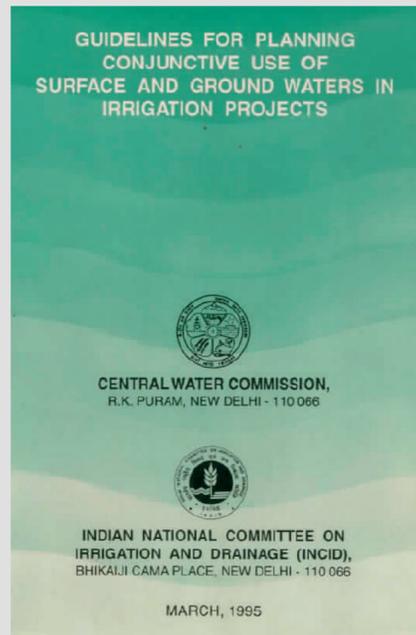
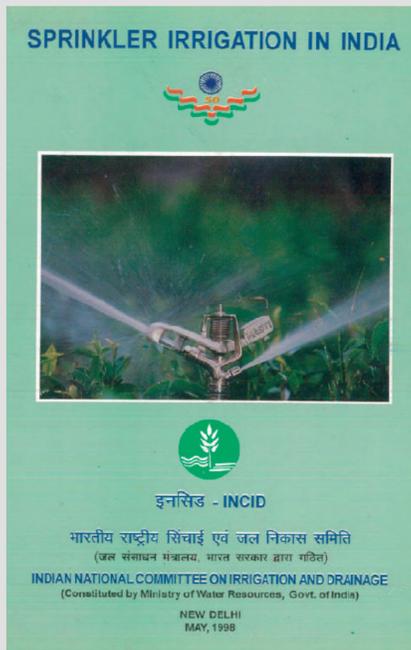


Event website: <http://icid25congress.in/>

INCID PUBLICATIONS



During the course of its 7 decades of illustrious legacy, INCID came up with several guidelines, research reports & publications, which have guided professionals, academia as well as other stakeholders from time to time. A few of them are listed below:



Joint Publications of INCID & ICID

- *The Indus Basin: History of Irrigation, Drainage and Flood Management*
- *Water Saving in Agriculture*
- *Multilingual Technical Dictionary*
- *Irrigation and Drainage in the World*
- *Irrigated Rice - A World-Wide Survey*
- *Flood Control in the World*
- *Design practices of Irrigation Canals in the World*
- *Irrigated Wheat - A World-Wide Survey*

Stay in touch for more info:

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