



**DR. VERGHESE
KURIEN
CENTENARY**

International e-Conference on

WATER MANAGEMENT IN DAIRY SECTOR

(on virtual platform)

12th October 2021

organized by

**Vergheese Kurien Centre of Excellence (VKCoE)
IRMA Water Centre**

co-organizers:

**National Dairy Development Board (NDDB)
Indian Society of Agricultural Economics
Indian Dairy Association (IDA)**



**NATIONAL
DAIRY
DEVELOPMENT
BOARD**



**Institute of Rural Management Anand
Anand 388001 (India)**

PROLOGUE

The current water supply on Earth comes from surface water runoff, groundwater, and snow, etc., which is threatened by over-development for agriculture, Dairy, Industrial purposes, domestic, increasing need for growing population, urbanization & other usages. Only three percent of the Earth's water supply is made up of freshwater, with only half a percent of that available for human consumption. Thus, water conservation plays an important role in ensuring prudent use of the limited resource and ensuring that the future generations are not left with a dry earth.

India is the largest user of groundwater in the world with an estimated usage of 230 km cube per year. Globally, areas under groundwater irrigation are the highest in India (39 million ha), followed by China (19 million ha) and the USA (17 million ha), and at present 204 km cube of groundwater is pumped annually in India.

Sustainable use of water is becoming critical in India and requires effective participation from local communities along with technical, social, economic, policy and political inputs. The sustainable management of water requires considerations of both demand and supply side aspects of water sources and how the two are harmonized to achieve equity, livelihood improvement and sustainability.

India is the highest producer of milk, accounting for 21% of the global milk production. Dairy farming is a water intensive activity involving not only direct consumptive water use as drinking and cleaning water for animals, but also water required for feed. Sustainable Water Management by increasing water use efficiency and balancing the competing water needs with inextricable linkages to food security, peoples' need, industrial growth, and ecosystem services is a challenge for our country today.

In view of the critical issues of water is being faced by us for all purposes, IRMA has taken lead for organizing the e-Conference with the aim to create a platform for dairy industry experts and researchers, civic societies to discuss various issues of enhancing water use efficiency for dairy production and processing and to chart out actions for drawing up future roadmap for research and development in the sector.

An e-Conference on Water Management in Dairy Sector has been planned by the Verghese Kurien Centre of Excellence (VKCOE) & IRMA Water Centre, IRMA on October 12, 2021 with the participation of national & international experts from Industry, civic societies/ practitioners, Government and Academic Institutions.

THEME

The theme of the e-conference is centered on “Water Management in Dairy Sector (for production & processing)”. The Dairy industry is aiming towards becoming water saver and carbon neutral by adopting various means to achieve these goals. Efficient water Management is one of the most important steps in the world for living beings. The conference will have speakers from Industry experts, policy makers/planners, academicians, researchers and presentation of original research of the scholars in various areas on water management in dairy industry.

Some indicative areas of research are given below:

A. Water usage in Milk Production

- Water requirements for different types of feeds and fodder
- Water requirement of different breeds of milching animals
- Effect of lactation and milk yield on water requirements
- Water requirement for dairy animal livelihood.

B. Water usages in Dairy Processing

- Water requirements for different processing steps like cooling, pasteurization, sterilization etc.
- Water required for manufacture of different types of products
- Optimization of water usage in cleaning and sanitization
- Measures for water conservation, management & recycling

We shall also organize a competition among the budding researchers with their research outcome related to efficient water management in the dairy sector and their presentation.

PROGRAM

A. Inaugural Session

B. Expert Presentations

A few invited lead papers on the theme topic will be presented and published in the proceedings.

C. Young Scientist Presentation and Poster Session

The original research work on various aspects related to water management as listed above will be presented by young scientists and scholars in this session. Selected papers will orally be presented while some other will be selected for presentation as posters. Presentations and poster will be judged by a panel of experts and the best presentations in oral & posters will be awarded prizes with a certificate.

CALL FOR PAPERS

Original research papers on the theme and befitting to any aspect of water management are invited for presentation at the conference. Each paper will be reviewed on the basis of an extended abstract. The authors may submit the extended abstract.

The last date for submission of extended abstract by email on irmawc@irma.ac.in is **5th October 2021**. The authors will be informed about the acceptance of their papers **within five days**. Full paper would be accepted within 13 days after the e-Conference (**positively before 25 October 2021**) by email only in word doc). Only a registered delegate shall be allowed to present poster & papers. Participants from fresh students pursuing research (Masters & Ph.D, Post-doctoral) and young scientists in the dairy sector will be encouraged and accorded priority.

Format for extended abstracts

- Title
- Authors with affiliation & address
- Email and mobile number of corresponding author
- Objective
- Methodology & Samples
- Results with tables/figure & Salient findings
- Conclusions/recommendations

The paper may have around **1500 words** based on secondary and primary data sources. Technical review with extensive research and analysis for drawing conclusions may be accepted by the Committee. Non-technical, unorganized paper or less than 1000 words abstracts will not be accepted.

PUBLICATION

Proceeding of the conference in the form of a book with ISBN number will be published. The manuscripts received from experts, original papers and abstracts from young researchers/ academicians will be edited and published by the organizers.

REGISTRATION

There are no registration fees, but it is mandatory to have advance registration for participation in the conference. All the registered participants will be issued a certificate of participation after receiving their feedback forms.

About VKCoE

The Verghese Kurien Centre of Excellence (VKCoE) was established at the Institute of Rural Management Anand (IRMA) in the name of Padma Vibhushan Dr. Verghese Kurien, to take his legacy forward. The VKCoE is actively engaged in research, consultancy, extension and outreach while striving to contribute to policies related to Dairy and Cooperative Sectors, including agriculture cooperatives and other forms of organizations. The Centre also provides consultancy services to cooperatives, producer organizations and large dairy entrepreneurs. The research outputs are disseminated at various forums through publications. It is ensured that the research findings reach the target beneficiaries through workshops, seminars and meetings with stakeholders. The research carried out at the centre ultimately lead to policy contributions in the dairy sector by bringing in the opinion of leaders, decision makers and development practitioners. The VKCoE is open to collaborate with you in the interest of the Dairy Industry in general and milk producers in particular. Being dairy professionals, it is our moral duty to work for the prosperity of millions of our dairy farmers.

About IRMA Water Centre

Water scarcity and poor water management are the burning issues that the planet faces today. The ramifications for India are far more serious than many other countries, on account of agriculture and dairy sector for meeting growing challenges of food security for growing population for rural and urban areas, low water use productivity, need for value added purposes, etc. Given the enormity of the water challenge, IRMA has set up the 'IRMA Water Centre' as a Centre of Excellence in research for efficient conservation, water use efficiency, water institutions and policies on management issues, with special focus on water security for rural communities. The Centre's objectives include, but are not limited to, research and consultancy; education and capacity building; and action-oriented research on sustainable water management. The deliverables of the IRMA Water Centre are Sustainable Water Management Models, Policy Briefs on Rural Water use, Education and Professional Development, Effective Water Institution Building/ Strengthening and Knowledge sharing among stakeholders. The IRMA Water Centre is committed to making some positive contributions towards sustainable agriculture and rural livelihoods.

For any clarification and support, please contact:

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