

Chairman, BBMB Elected as Vice President of International Commission on Large Dams



Devendra Kumar Sharma

The International Commission on Large Dams (ICOLD) having membership of 101 countries with more than 15,000 members provides a forum for the exchange of knowledge and experience in dam engineering. The Organization leads the profession in ensuring that dams are built safely, efficiently, economically, and without detrimental effects on the environment. It encourages advances in the planning, design, construction, operation and maintenance of large dams and their associated civil works, by collecting and disseminating relevant information and by studying related technical questions.

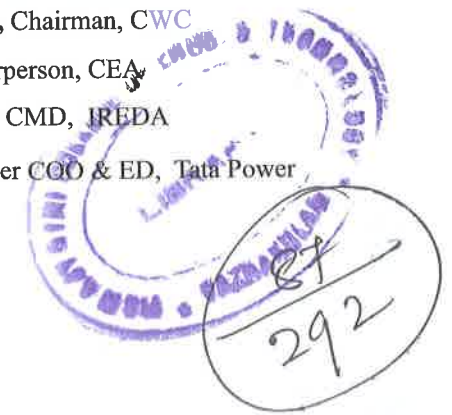
In its 87th Annual General Body meeting held in Ottawa, Canada on 14th June, 2019, Er. Devendra Kumar Sharma, Chairman, Bhakra Beas Management Board was elected as its Vice President of the ICOLD Board for the term 2019-2022. Mr. Sharma was elected in a triangular contest between candidates for the post of Vice President from India, Japan and Egypt. Mr. Sharma got this honour and achievement to be member in the ICOLD Board from India after a gap of 17 years. By his election to this coveted post Mr. Sharma has brought laurels to the country as well as to the Indian dam community.

Position of Vice President for India in ICOLD Board will help the country for getting the international expertise to address the water and energy issues to provide food security to the nation. In addition, it will also help to address concerns such as dam safety, monitoring of performance, reanalysis of older dams and spillways, effects of ageing and environmental impact.

S
T
E
T
E
N
T
I
O
N
A
L

CENTRAL BOARD OF IRRIGATION & POWER OFFICE BEARERS

President	: Mr. S. Masood Husain, Chairman, CWC
(i) Vice President	: Mr. P.S. Mhaske, Chairperson, CEA
(ii) Vice President	: Mr. K.S. Popli, Former CMD, IREDA
(iii) Vice President	: Mr. Ashok Sethi, Former COO & ED, Tata Power
Secretary	: Mr. V.K. Kanjlia
Director	: Mr. P.P. Wahi
Director (WR)	: Dr. G.P. Patel
Director (Energy)	: Mr. A.K. Bhatnagar



- The statements and opinions expressed in this Journal are not necessarily of Central Board of Irrigation & Power.
- Reproduction of articles from Water and Energy International is subject to approval of the Editor.
- Interested authors from India and abroad are requested to contribute their articles to this Journal and send the same to Secretary, Central Board of Irrigation & Power, well in advance.

All communications should be addressed to :

Secretary
Central Board of Irrigation & Power
Malcha Marg, Chanakyapuri
New Delhi 110 021
Ph. : 91-11-2611 5984
Fax : 91-11-2611 6347
E-mail : cbip@cbip.org
Website : www.cbip.org

Total Pages 84

Monthly Subscription ₹ 200/-
Annual Subscription ₹ 2400/-

FROM EDITOR'S DESK

V.K. Kanjlia, Secretary, CBIP 5

NEWS LETTER

Energy Section

- Hands on Training Program on HV Gas Insulated Switchgear, 27-29 May 2019, Vadodara 6
- Conference on Reliable & Quality Power, 30-31 May 2019, CBIP New Delhi 10

Energy Section

- Power Quality of Electricity to Consumers - *Shilpa Agarwal* 18
- Power Quality - Developed Countries Improved & it's Time for India - *Devendra Vyasa* 24
- PQ Issues - Gaps Today and Challenges for the Future - *Manas Kundu* 29
- Case Study - Power Quality Assessment and Mitigation at Steel Plant - *Rintu Kalita, Jignesh Shah and Nikhil Gujar* 32
- Feasibility of Biogas Production from Napier Grass using Animal Manure as Co-substrate on Pilot Scale Reactor - *Harshal Warade, Dr. P.B. Nagarnaik and Dr. Ramesh Daryapurkar* 36
- Frequently Asked Questions & Answers - (SPARK Ignited to share - A Power Engineers WhatsApp Group) 42

INTERNATIONAL EDITORIAL ADVISORY BOARD

- V.C. Patel - Distinguished Professor and Director, University of IOWA, U.S.A.
- Donggi Zuo - Prof. & President's Advisor of Hohai University, Ministry of Water Resources, People's Rep. of China,
- K.G. Ranga Raju - Former Professor of Civil Engineering University of Roorkee (Now IIT Roorkee)
- Secretary General, CIGRE, France,
- Jose M. Martin Mendiluce - Doctor Ingeniero de Carinos ASINC, S.L., Spain,
- Alison Bartle - Editor, Aqua-Media International Ltd., United Kingdom.

Publisher, Printer and Editor Mr. V.K. Kanjlia on behalf of Central Board of Irrigation and Power, Printed at M/s Chandu Press, D-97, Shakarpur, Delhi, published from Central Board of Irrigation and Power, Malcha Marg, Chanakyapuri, New Delhi 110 021

CONTENTS

(contd.)

W&E INTERNATIONAL

Water Resources Section

- Charts for Techno-Economic Design of Masonry Breast Walls – *Rajendra Chalisgaonkar* 50
- Spatial, Seasonal Variation and Biodiversity in Phytoplankton Communities in Al-Diwaniyah River - IRAQ
– *Ahmed Mahmoud Falih-Al-Khalidi and Raid Kadhim Abed Al-Asady* 60
- A Small-Scale Horizontal Subsurface Flow Constructed Wetland for On-Site Treatment of Household Wastewater in Sub-Tropical Region in India – *Tofeeq Aalam* 63
- Groundwater Institutions and Governance in North Indian States Evidence and Lessons from Hoshiarpur and Jammu Districts – *Ishita Singh and Megha Dhawan* 69

STATISTICAL DATA

- *Water Resources Section* 76
- *Energy Section* 77

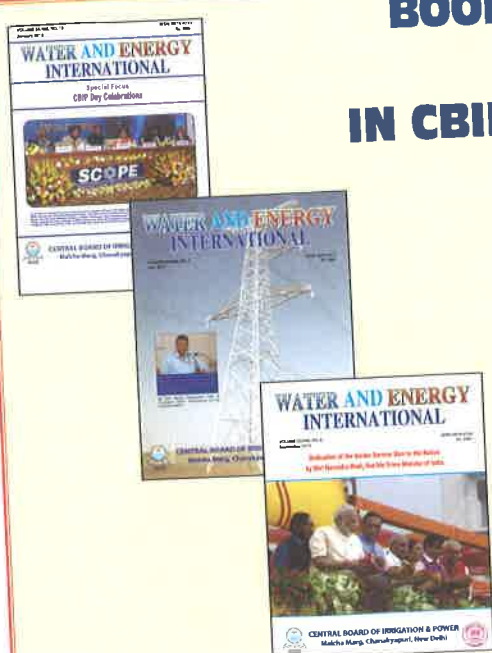
WATER & ENERGY ABSTRACTS

- *Energy Section* 79
- *Water Resources Section* 80

FAR & NEAR IN WATER AND ENERGY

- *News - Energy Section* 81
- *News - Water Resources Section* 82

BOOK ADVERTISEMENT TODAY IN CBIP W&E INT. JOURNAL (Monthly Issue)



Tariff

Back Cover	Rs. 35,000/-*
2nd/3d Cover	Rs. 25,000/-*
Inner Pages	Rs. 15,000/-*

***GST 5% extra**

For Advertisement Please Contact :
Secretary
Central Board of Irrigation and Power
Malcha Marg, Chanakyapuri, New Delhi 110 021
Phone: 91-11-26115984/1294/26116567
Fax: 91-11-2611 6347 E-mail : cbip@cbip.org