# CENTRAL BOARD OF IRRIGATION & POWER OFFICE BEARERS

	0 018 014
President	: Mr. Major Singh, Chairperson, CEA
(i) Vice President	: Mr. G.S. Jha, Chairman, CWC
(ii) Vice President	: Mr. K.S. Popli, CMD, IREDA
(iii) Vice President	: Mr. Ashok Sethi, COO & ED, Tata Power
Secretary	: Mr. V.K. Kanjlia
Director	: Mr. P.P. Wahi
Director (WR)	: Mr. A.C. Gupta
Director (E)	: Mr. C.S. Malik

- 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

**CBIP Day Celebrations** 

## W&E INTERNATIONAL

- · Energy Section
- 24x7 Power Supply

Power Transformer Short-circuit Test Procedure, Present and Future Capabilities of CPRI, High Power Laboratory - Rajaramamohanaraa Chernu and J. Santhosh

#### W&E INTERNATIONAL

- · Water Resources Section
  - Is Managed Aquifer Recharge by Check Dam. Benefiting the Society? A Case Study S. Parimalarenganayaki and L. Elango

Water Quality Index of Groundwater in Haridwar District, Uttarakhand, India - Gopal Krishan, Surject Singh, R.P. Singh, N.C. Ghosh and Anurag Khanna

#### 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 HT Rocrkee)

Secretary General, CIGRE, France, Jose M. Martin Mendiluce Doctor Ingeniero de

Carninos ASINC, S.L., Spain, Alison Bartle - Editor, Aqua-Media International Ltd., United Kingdom.

Publisher, Printer and Editor Shri 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

5

6

28

42

47

55

<ul> <li>Minimum Environmental /Ecological Flows-Views of CWC - Bhopal Singh and N.N. Rai</li> </ul>	59
W&E RESEARCH DIGEST	
Water Resources Section	
<ul> <li>Transformation Technique for the Water Table Prediction Influenced by Recharge and ET – Surject Singh, Gopal Krishan and H.S. Chauhan</li> </ul>	66
STATISTICAL DATA	
Water Resources Section	71
Energy Section	72
WATER & ENERGY ABSTRACTS'	
Energy Section	74
Water Resources Section	75
FAR & NEAR IN WATER AND ENERGY	
News - Energy Section	77
News - Water Resources Section	79

# Shri G.S. JHA

takes over the charge of Chairman, Central Water Commission, Ministry of Water Resources, RD & GR

# Brief Profile of Shri G.S. Jha



He has done Graduation in Civil Engineering and Post-Graduation in Structural Engineering, both from BHU-IT, Varanasi with Hons, and joined Central Water Engineering (CWE) Gp-A Service (Central Water Commission) in April 1981. He has worked in various capacities in CWC, Ministry of Water Resources, RD&GR, Ganga Flood Control Commission (GFCC) and Brahmaputra Board since then. Prior to the assignments of Commissioner (CADWM) and Commissioner (Pen. Riv.) in the Ministry during 2008-14, he worked as Senior Joint Commissioner (CAD) during

1997-2002. He also worked in Food and Agricultural Organization (FAO) of United Nations as an Irrigation Expert for implementation of special programme on food security (SPFS) in Lesotho, Africa. He has authored / coauthored about 20 technical articles in different national & international seminars / conferences, delivered various lectures in different training / workshops, edited different journals and has written a book (manuscript), "Pubottaranjali", which is a collection of technical articles, mostly on North-Eastern part of the country in Hindi. Shri Jha who is Member (D&R) in CWC since 9th November 2015 with additional charge of Chairman, Ganga Flood Control Commission (GFCC), Patna has also taken over the charge of Chairman, Central Water Commission, w.e.f. 1st January 2016.

N

Z

M

Z