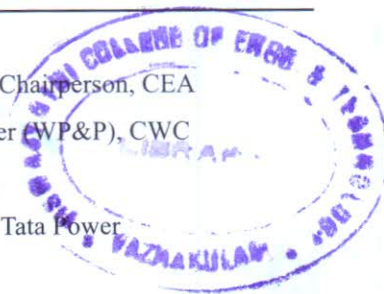


CENTRAL BOARD OF IRRIGATION & POWER OFFICE BEARERS

| | | |
|----------------------|---|--------------------------------------------|
| President | : | Mr. Ravindra Kumar Verma, Chairperson, CEA |
| (i) Vice President | : | Mr. S. Masood Husain, Member (WP&P), 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) | : | Dr. G.P. Patel |
| Director (E) | : | Mr. C.S. Malik |



69
292

- 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 |
| – The Tutorials and The International Colloquium on High Voltage Insulated Cables, 12-14 October 2017, New Delhi, India | 6 |
| – National Conference on Power Transformers, 24-25 October 2017, Hyderabad | 21 |
| – Workshop on Technical and Testing Challenges for Smart Meters, 2 & 3 November 2017, New Delhi | 26 |

W&E INTERNATIONAL

| | |
|----------------------------------------------------------------------------------------------------------------|----|
| • Energy Section | |
| – What brings Smartness - Smart Meter or Smart Analytics? – <i>Dr. Anukram Mishra</i> | 39 |
| – Smart Meter - A Paradigm Shift in Utility Approach – <i>Praveer Sinha, Subrata K Das and S. Raychaudhuri</i> | 46 |

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 Caminos 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

CONTENTS

(contd.)

W&E INTERNATIONAL

• Water Resources Section

- Geotechnical Suitability of Tehri Dam Site, Uttarakhand, India
 – *Rajendra Sanwal and Dr. Harish Bahuguna* 50
- Complex Flow Phenomena of Horizontally Placed Underwater Cylinder above Water Bed
 – *Biprodip Mukherjee, Subhasish Das and Asis Mazumdar* 57
- Energy Efficient Sealing Optimization Technique for Wicket Gate and Main Shaft in Pumped Storage Power Plants – *K.P. Parthiban, Dr. N. Kuppuswamy and Dr. P. Sridharan* 65

STATISTICAL DATA

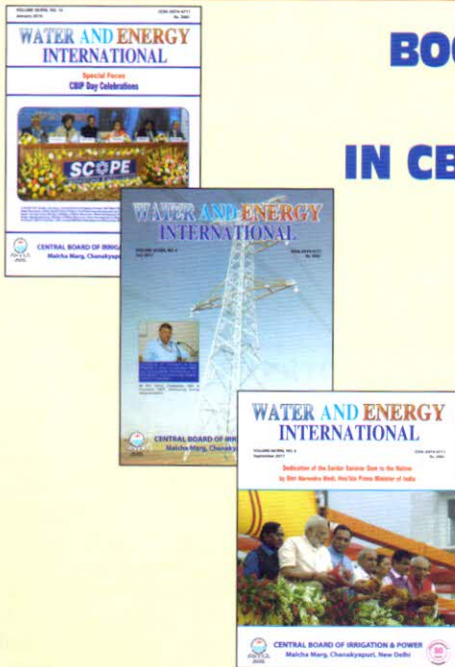
- *Water Resources Section* 71
- *Energy Section* 73

WATER & ENERGY ABSTRACTS

- *Energy Section* 75
- *Water Resources Section* 76

FAR & NEAR IN WATER AND ENERGY

- *News - Energy Section* 77
- *News - Water Resources Section* 79



BOOK ADVERTSIEMENT 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 18% 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