

Founded in 1927

**ICJ**

THE INDIAN CONCRETE JOURNAL

March 2017, Volume 91, Number 3

Published by ACC Limited, L.B. Shastri Road, Near Teen Haath Naka, Thane (W) 400604.

The contents of this journal are contributions of individual authors, and reflect their independent opinions, findings, conclusions and recommendations and do not necessarily imply that they reflect the views of the Publisher, ACC Limited. The Publishers are not liable for any damage or inconvenience, caused to anyone who may have acted on the information contained in the publication.

The Indian Concrete Journal, ISSN 0019-4565

Copyright © 2017 ACC Limited.

ACC Limited - Registered Office - Cement House, 121, Maharshi Karve Road, Mumbai 400 020.

The copyright, database rights and similar rights in all materials published in The Indian Concrete Journal are owned by ACC Limited. None of this material may be used for any commercial or public use, other than for the purpose of fair dealing, research or private study, or review of the contents of the journal, in part or in whole, and may not be reproduced or stored in any media for mass circulation without the prior written consent of the publisher.

## PUBLISHING / EDITORIAL / ADVERTISEMENT & CIRCULATION OFFICE

The Indian Concrete Journal

ACC Limited

L.B. Shastri Road, Near Teen Haath Naka

Next to Eternity Mall, Thane (West) 400 604,

Maharashtra, INDIA.

Tel: 00-91-22-33027646

Website: www.icjonline.com

E-mail: info@icjonline.com

icj@accimitted.com

Editor: Ashish Patil

Editorial Team:

Ulhas Fernandes

M. Abbas

## TECHNICAL PAPERS

- 11 | Simple and cost effective methods to test the fineness of fly ash  
Abhinav Bindal, Saumesh Sahai, Salya Madepalli and Shashank Bishnoi
- 17 | HFRHPC interior beam-column-joints with slab under reverse cyclic loading  
N. Ganesan, M. Nidhi and P.V. Indira
- 26 | Design methodology for fibre reinforced concrete slabs-on-grade based on inelastic analysis  
Sunitha K. Nayar and Ravindra Gettu
- 37 | Study of the parameters governing the chloride induced corrosion of reinforcement steel in cracked concrete  
Bhaskar Sangoju, Ravindra Gettu, and B.H. Bharatkumar
- 49 | Evaluation of performance of concrete with calcined clay limestone cement  
Ashok K. Tiwari, Sandeep Keskar and Subrato Chowdhury



## FEATURES

- 04 | EDITORIAL
- 06 | NEWS & EVENTS
- 56 | POINT OF VIEW: Some steps towards producing durable structures in cement concrete at project sites  
Kartik Chandra Tai
- 73 | POINT OF VIEW: Challenges in design and construction of temporary bridges across water bodies  
Vivok G. Abhyankar