

ICJ

THE INDIAN CONCRETE JOURNAL

January 2017, Volume 91, Number 1

Founded in 1927

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, Maharashtra 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@acclimited.com

Editor: Ashish Patil

Editorial Team:

Alhas Fernandes

M. Abbas

TECHNICAL PAPERS

SPECIAL ISSUE - AGGREGATES

16

Quartz and feldspar as alternate coarse aggregates for sustainable concrete construction

M.V. Krishna Rao, P. Rethish Kumar and Seshadri Sekhar Tirumala

24

Use of fly ash concrete and recycled concrete aggregates – A cost-effective solution and durable option for construction of concrete roads

V.V. Arora and Brijesh Singh

34

Effect of indigenous aggregate type on mechanical properties of high strength concrete

V. V. Arora, Brijesh Singh and Shubnem Jair

45

Studies on self compacting concrete with steel slag as fine aggregate using empirical method

Krishnamurthy Pandurongen and Thurvaan Mahan Supraa

53

An experimental study on the use of blast furnace slag sand as an alternative to fine aggregate in self compacting concrete with emphasis on sustainability

S. Girish and Karthik Ramao S.

62

Durability studies of chemically cured fly ash pellet aggregate geopolymer concrete

K.V. Viswa Kheeni and J. Karthikeyan

68

Influence of different demolished old structures concrete as coarse aggregate on properties of concrete

M. Chakradhara Rao, S.K. Bhojacharya and S.V. Borai

FEATURES

04

EDITORIAL

06

THANK YOU REVIEWERS

08

NEWS & EVENTS

86

POINT OF VIEW: Performance of pervious concrete with recycled concrete aggregate

P. Pal, S. Shukla and A.K. Ranjan

93

INDEX 2016