

**15th NCB International Seminar on Cement,
Concrete and Building Materials**
05–08 December 2017
New Delhi, India

PROGRAMME

Venue:
Manekshaw Centre, New Delhi, India



Organised by
National Council for Cement and Building Materials

(Under the Administrative Control of Ministry of Commerce and Industry, Govt. of India)
34 km Stone, Delhi-Mathura Road (NH-2)
Ballabgarh-121 004, Haryana, India
www.ncbindia.com

WELCOME DELEGATES

Dear Delegates

It gives me immense pleasure to welcome you all to the 15th NCB International Seminar on Cement, Concrete and Building Materials, being held in New Delhi, India.



The objective of this Biennial International event, eagerly awaited by the industry and the academia alike, is to bring together the captains of the industry- planners, policy makers and technocrats, and the scientific and engineering community- scientists, researchers, technologists and academicians, on to a common platform, for sharing the knowledge on latest innovations and taking India's growth story forward.

The technical deliberations shall comprise of about 200 presentations in 25 technical sessions, apart from 2 special technical sessions, covering wide spectrum of themes relating to cement, concrete and construction sector. One invited Speech and a Panel discussion on a burning topic are going to be the highlight of this Seminar.

Concurrent Technical Exhibition showcases latest developments in plant and machinery, instrumentation and control systems from most of the world's leading companies.

On behalf of the Organizing Committee of the Seminar, I extend my sincere thanks to the sponsors supporting this seminar, media partners, authors of technical papers, exhibitors, dignitaries and all delegates.

We hope the seminar will provide a rewarding experience to all.

Kind Regards

Ashutosh Saxena

Director General (Actg.)- NCB

Chairman-15th NCB International Seminar Organizing Committee

SEMINAR & EXHIBITION AT A GLANCE

05-08 DECEMBER 2017

Venue : Manekshaw Centre, Parade Road, Delhi Cantt., New Delhi-110 010

Seminar : • Zorawar Auditorium • Ashoka Convention Hall

Exhibition : • Exhibition Halls • Exhibition Ground

REGISTRATION (AT VENUE):

Monday, 04 December 2017
1230 h to 1700 h

Tuesday, 05 December 2017
0900 h to 0945 h

PROGRAMME

INAUGURAL SESSION

Tuesday, 05 December 2017

Zorawar Auditorium	TS-I: Mine Planning & Raw Material Resource Management STS-I TS-II: Alternate / Waste Fuels and Raw Materials – I TS-III: Alternate / Waste Fuels and Raw Materials – II
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Wednesday, 06 December 2017

Zorawar Auditorium	TS-IV A: Cement Plant Machinery and Project Engineering STS-II TS-V A: Advances in Grinding Systems TS-VI A: Productivity Enhancement and Process Optimization – I TS-VII A: Productivity Enhancement and Process Optimization – II
Ashoka Convention Hall	TS-IV B: Portland, Blended and Special Cements – I TS-VB: Portland, Blended and Special Cements – II TS-VI B: Performance and Durability of Concrete TS-VII B: Other Building Materials and Binders

Thursday, 07 December 2017

Zorawar Auditorium	TS-VIII A: Productivity Enhancement and Process Optimization – III TS-IX A: Productivity Enhancement and Process Optimization – IV TS-X A: Environmental Management and Sustainable Development – I TS-XI A: Total Quality Management TS-XII A: Sustainable Construction Practices
Ashoka Convention Hall	TS-VIII B: Distress Investigation, Repair/ Strengthening/ Retrofitting of Concrete Structures TS-IX B: Use of Alternate Aggregates TS-X B: Emerging Trends – I TS-XI B: Environmental Management and Sustainable Development – II TS-XII B: Energy Conservation Systems- I

Friday, 08 December 2017

Zorawar Auditorium	TS-XIII A: Analytical Methods and Lab Automation TS-XIV A: Energy Conservation Systems – II
Ashoka Convention Hall	TS-XIII B: Environmental Management and Sustainable Development – III TS-XIV B: Emerging Trends – II
Zorawar Auditorium	CONCLUDING SESSION AND AWARDS PRESENTATION

PRESENTATION OF PAPERS

Considering the overwhelming response for Technical Papers and in order to give opportunity to all authors to present their papers, the time for presentation has been limited to 10 minutes per paper, depending on the number of papers actually presented in a Session. Accordingly the authors are requested to adhere to the time limit as decided by the Chairman of the Technical Session.

PARTICIPATION IN DISCUSSIONS

Delegates, who wish to participate in the discussion in a Technical Session, are requested to fill in the Discussion Slips (provided in the Seminar Kit) indicating clearly the title of the paper, name of the author to whom the question is addressed and question/comments. The question or comments should be brief and to the point.

The duly filled in Discussion Slips should be handed over immediately after the presentation of Technical Papers to any NCB Guide (wearing yellow name badges) in the Seminar Hall.

AUDIO-VISUAL PROJECTION FACILITIES

Presentation of Papers will be facilitated through Computer system with MS PowerPoint.

NCB GUIDES

NCB Guides, identified by their yellow colour name badges, are available at the Seminar Venue to assist the delegates.

HELP DESK AND MEDICAL ATTENTION

Information regarding all activities of the Seminar as also First Aid facilities are available at the Help Desk located in the corridor outside the Seminar Hall.

Emergency medical attention can also be arranged through Help Desk.

LUNCH COUPONS

Participation in lunch is facilitated through coupons provided to the delegates. Participants must bring relevant coupon for the day and hand over the same at the lunch counter.

1000 h – 1100 h

INAUGURAL SESSION

Venue – Zorawar Auditorium, Manekshaw Centre, New Delhi, India

Invocation

Lighting of Lamp

Welcome Address

Technological Perspective

Industrial Perspective

Future Outlook and Challenges

Presidential Address

Inaugural Address

Inauguration of Seminar

Release of Seminar Proceedings

Vote of Thanks

1100 h – 1130 h

Inauguration of Technical Exhibition

1130 h – 1200 h

Welcome Get-together

1200 h – 1330 h (Plenary Session)

TECHNICAL SESSION – I

Zorawar Auditorium

MINE PLANNING AND RAW MATERIAL RESOURCE MANAGEMENT

- 1 Prediction of Ground Vibration and Frequency due to Blasting using Artificial Neural Network at a Limestone Quarry
Ramesh Murlidhar Bhatawdekar and Tonnizam Mohamad Edy, *Geotropik, Universiti Teknologi Malaysia, Malaysia.*
Pankaj Sharma, *Shree Cement Ltd, India*
Laxmi Kant Sharma, Alok Singh and Trilok Nath Singh, *Indian Institute of Technology Bombay, India*
Alok Singh, *Birla Institute of Technology, India*
- 2 Progressive Mine Closure and Rehabilitation Plan for a Limestone Mine in Democratic Republic of Congo (DRC)
S K Gotecha and S N Sharma, *ERCOM Engineers (P) Ltd, India*
- 3 Challenging the Unexplored- An Approach to Explore Complex to Intricate Limestone Deposit: A Case Study from Maratha Limestone Mine of Ambuja Cements
Abani Kumar Padhy, Ajay Kumar Jain and Santwana Sahu, *Ambuja Cements Ltd, India*

- 4 Innovative Mine Planning and Scheduling Approach Towards Sustainable Mining by Ambuja Cements Limited
Suryanshu Choudhury, Vijay Kumar and Pankaj Saran, Ambuja Cements Ltd, India
- 5 Rock Mass Classification for Limestone In Tropical Climate For Blasting
Ramesh Murlidhar Bhatawdekar and Tonnizam Mohamad Edy, Geotropik-Universiti Teknologi Malaysia, Malaysia
Trilok Nath Singh, Indian Institute of Technology Bombay, India
Jahed Armaghani Danial, Amirkabir University of Technology, Tehran, Iran
- 6 Selection of Blast Free Mining Methodology for Aggregate Quarry in Thailand- A Case Study
Ramesh Murlidhar Bhatawdekar and Tonnizam Mohamad Edy, Geotropik, Universiti Teknologi Malaysia, Malaysia.
Subhash Niyogi, Marque Innovation, India
Naresh Prasad, Heavy Mining Equipment Consultant, India
- 7 Adoption of World Class Technology for Blast Performance in Opencast Mines
Ramesh Murlidhar Bhatawdekar and Tonnizam Mohamad Edy, Geotropik, Universiti Teknologi Malaysia, Malaysia.
Shweta Singhal and Nisarg Tripathi, Mine Excellence, India

1330 h – 1415 h (Plenary Session)

SPECIAL TECHNICAL SESSION – I

Zorawar Auditorium

Formation and Control of Dioxins in Dry Pre-heater/
Pre-calciner Kilns Co-processing Wastes
**Dr Kare Helge Karstensen, Foundation for Scientific
and Industrial Research (SINTEF), Norway**

1415 h – 1500 h

Lunch

Hosted by **Ambuja Cements Ltd, India**

1500 h – 1615 h (Plenary Session)

TECHNICAL SESSION – II

Zorawar Auditorium

ALTERNATE/WASTE FUELS AND RAW MATERIALS – I

- 1 Safe & Reliable Equipment for Alternative Solid Fuels Co-processing in Cement Plants
Luc Rieffel, Walter Materials Handling – ATS Group, France

- 2 Minimizing the Use of Mineral Gypsum & Increase Grindability by Addition of Waste Material of Bedash from TPP in Portland Cement Manufacturing
Bishwa Nayak, Arvind Gupta, Rakesh Kumar, Om Gautam and R K Singh,
Aditya R&D Center-Birla White, India, Ultratech Cement Ltd, India
- 3 Municipal Solid Waste (MSW) Usage in Indian Cement Plants
R Rajamohan, K Vinayagamurthi and R A Krishna Kumar,
Dalmia Cement (Bharat) Ltd, India
- 4 Alternative Fuel Conditioning and Integration in Cement Plants
Taís Mazza, Loesche GmbH, Germany
- 5 Feasibility Study for Enhancement of Liquid Alternate Fuels in Indian Cement Plants
M V Ramachandra Rao, Ashutosh Saxena, Rabindra Singh and Akashneel Banerjee,
National Council for Cement and Building Materials, India
- 6 Dry Beneficiation of Limestone and Flyash
Alka Mishra, Rajiv Sadavarti and R Balachandran,
FLSmidth Pvt Ltd, India
- 7 Limestone Beneficiation by Column and Conventional Flotation to Use as Raw Material for Cement
N Vasumathi, T V Vijaya Kumar, S Subba Rao, S Prabhakar and G Bhaskar Raju,
CSIR - National Metallurgical Laboratory Madras Centre, India
- 8 Utilization of Pond Fly Ash in Cement Grinding at JK Cement, Mangrol
S K Rathore,
JK Cement Ltd, India

1615 h – 1645 h

Tea/Coffee

1645 h – 1800 h (Plenary Session)

TECHNICAL SESSION – III

Zorawar Auditorium

ALTERNATE / WASTE FUELS AND RAW MATERIALS – II

- 1 Co-processing of Tannery ETP Sludge at M/s Dalmia Cement (Bharat) Ltd, Ariyalur
B R Prasannakumar and K Vinayagamurthi,
Dalmia Cement (Bharat) Ltd, India
- 2 Alternative Fuel & Raw Material: Our Journey with In-House Systems - A Glimpse
R Rajamohan, K Vinayagamurthi and R A Krishna Kumar,
Dalmia Cement (Bharat) Ltd, India
- 3 Classified Fly ash – Value Added Product in Cement & Concrete
Mayur Pathak,
Dirk India Pvt Ltd (Unit of Ambuja Cements Ltd), India
Manoj Sharma, Shrikant Varpe and B N Mohapatra,
Ambuja Cements Ltd, India

- 4 Utilization of High Sulphur Petcoke in Ambujanagar
K Subbulakshmanan, Durganath Khaware, Keshav Katare, Reshu Chauhan, Ramsinh Chauhan, Atul Chaturvedi, R K Joshi, Sukuru Ramarao and B N Mohapatra, Ambuja Cements Ltd, India
- 5 Feasibility Study for Enhancement of Solid Alternate Fuels in Indian Cement Plant
Suresh Kr Shaw, Ashutosh Saxena, Kapil Kukreja, M V Ramachandra Rao and V Venkatesh, National Council for Cement and Building Materials, India
- 6 Utilization of Industrial Waste Products as a Pozzolana Material in Cement Paste Backfill for Lead Zinc Mine
T M Rajan, S K Chaturvedi and Manish Mandre, National Council for Cement and Building Materials, India
Ashish Kumar and Akhilesh Shukla, Hindustan Zinc Ltd, India
- 7 Effective Co-Processing of Hazardous Waste at JK Cement, Mangrol
S K Rathore, JK Cement Ltd, India

0900 h – 1030 h (Parallel Session)

TECHNICAL SESSION – IV A

Zorawar Auditorium

CEMENT PLANT MACHINERY AND PROJECT ENGINEERING

- 1 Optimised Maintenance by Indigenously Manufactured Material with a Moto of “Make in India”
N K Sharma, Gujarat Sidhee Cement Ltd, India
- 2 Innovation in Cement Industries HT Motor in-situ Modification for Cost-effective Solution
P S Prasad, Gujarat Sidhee Cement Ltd, India
- 3 Spaceframe Sheds and Domes for Raw Material and Coal Stockpile Protection
K S Nalwaya, Jogesh Narula and Peter Hu, KSN Tech Ventures Pvt Ltd, India
- 4 Is Cooler Recuperator or Heat Generator?
S K Rathore and R K Bajaj, JK Cement Ltd, India
R Madhusudan and N Soundararaj, IKN Engineering India Pvt Ltd, India
- 5 Operational Enhancement with Improved lubricant for Open Gears
Bijuram R, Fuchs Lubricants (India) Pvt Ltd, India
- 6 Maag™ Cem Drive – Vertical Roller Mill Drive System
Sujith Varghese George, FLSmidth MAAG Gear, India
- 7 Cool Experience: Unique FLSmidth Cross-bar® Cooler Upgrades
K P Sathish Kumar and G Renga Prasad, FLSmidth Pvt Ltd, India
- 8 Reciprocating Cooler Improvement By Magotteaux
Bernard Muller, Magotteaux Industries S.A., Belgium
- 9 Energy Efficient Technologies and Operations- Fons Delta Cooler
Mogens Juhl Fons, Fons Technology International, Denmark

0900 h – 1030 h (Parallel Session)

TECHNICAL SESSION – IV B

Ashoka Convention Hall

PORTLAND, BLENDED AND SPECIAL CEMENTS – I

- 1 Advantage of Intermixing Over Intergrinding in PPC
Vijay Chauhan, Atul Chaturvedi, Ramsinh Chauhan, Reshu Chauhan, K Subbulakshmanan, R K Joshi, Sukuru Ramarao and B N Mohapatra, Ambuja Cements Ltd, India
- 2 Optimization of Granulometry of Raw Mix Based on Mineralogy of Raw Materials
Ramsinh Chauhan, K Subbulakshmanan, Atul Chaturvedi, R K Joshi, Sukuru Ramarao and B N Mohapatra, Ambuja Cements Ltd, India

- 3 Investigations on Role of Minor Constituents in Portland Slag Cement
S K Agarwal, M N K Prasad Bolisetty and S K Chaturvedi, *National Council for Cement and Building Materials, India*
- 4 Influence of the Size of the Periclase on Properties of Cement
K Suresh, Manish Kuchya, Mahesh Upadhyay and Jean Bosco Kazirukanyo, *UltraTech Cement Ltd, India*
- 5 Performance of High Volume Fly Ash Cements
Suresh Vanguri, G J Naidu, G Ahamed and S K Chaturvedi, *National Council for Cement and Building Materials, India*
- 6 Effect of Magnesium on Grindability of Industrial Clinkers
K Suresh, A Sadangi, M Kuchya and Jean Bosco Kazirukanyo, *UltraTech Cement Ltd, India*
- 7 Study on the Compatibility of Cement with Superplasticisers and the Economic Production of Concrete
Lelin Das and Murgesh Siddappa Bhustali, *Dalmia Cement Research Centre, India*
- 8 Influence of Chemical Additives and their Formulations on the Clinker grindability to improve performance of cement
A K Dikshit, S Palla, T M Rajan, and S K Chaturvedi, *National Council for Cement and Building Materials, India*
- 9 Investigations on Thermal Behaviour of Grey and White Cement Raw Mixes by Differential Thermal Analyser (TG/DTA) and Heating Microscope
Giasuddin Ahamed, Varsha Liju and S K Chaturvedi, *National Council for Cement and Building Materials, India*

1030 h – 1100 h
Tea/Coffee

1100 h – 1200 h (Plenary Session)

SPECIAL TECHNICAL SESSION – II

Zorawar Auditorium

PANEL DISCUSSION: WORLD BUSINESS COUNCIL FOR SUSTAINABLE DEVELOPMENT (WBCSD)

LOW CARBON TRANSITIONS FOR THE CEMENT AND CONCRETE SECTOR – A GLOBAL PARTNERSHIP APPROACH

Philippe Fonta (Moderator and Speaker), *CSI, WBCSD*

Sanjay Jain, *Dalmia Cement (Bharat) Ltd., India*

Sivaram Krishnamoorthy, *IFC South Asia*

Berthold Kren, *Geocycle, India*

1200 h – 1345 h (Parallel Session)

TECHNICAL SESSION – V A

Zorawar Auditorium

ADVANCES IN GRINDING SYSTEMS

- 1 How to Select the Right VRM Drive System
D Strohmeyer, Loesche GmbH, Germany
- 2 Quadropol Mill (QMC² -RD) for Cement Grinding Long-Term Operation Experience
Stefan Diedenhofen, Björn-Olaf Assmann and Carsten Sachse,
Thyssenkrupp Industrial Solutions AG, BU Cement, Germany
- 3 Local Cement Grinding in India - Benefits offered by Gebr. Pfeiffer Ready2Grind System
Falk Werner and Bernd Henrich, *Gebr Pfeiffer SE, Germany*
- 4 Efficient Grinding Solutions: Perspectives & Performances
Stefan Seeman and York Reichardt, KHD Humboldt Wedag GmbH, Germany
Vanam Venkatesh and Prakash Patil, *KHD Humboldt Wedag India Pvt Ltd, India*
- 5 Technical Comparison, Selection & Evaluation of Coal Grinding Technologies Based on Coal Types and Customer Preferences
Ivan Laszlo, Rajnish Chandra and Rajesh Sharma,
ARVOS Energy India Pvt Ltd, India
- 6 Separate Grinding of Petcoke & Coal vs Mix Grinding
Kapil Kukreja, Ashutosh Saxena and Ankur Mittal, *National Council for Cement and Building Materials, India*
- 7 Success of Clinker Grinding at Wonder Cement Line 2 - A Case Study
M S Marathe and V P Wadile, *Thyssenkrupp Industries India Pvt Ltd, India*
- 8 Manufacturing of Composite Cement in Loesche VRM
V H Chaudhary, *My Home Industries Pvt Ltd, India*
Rajesh Khanna, *LOESCHE India Pvt Ltd, India*
- 9 Improvement of Efficiency in Existing Grinding Systems
Harald Guenter and Thomas Hanstein, *Koppert, Germany*

1200 h – 1345 h (Parallel Session)

TECHNICAL SESSION – V B

Ashoka Convention Hall

PORTLAND, BLENDED AND SPECIAL CEMENTS – II

- 1 Indian Cements Produced In MVR and MPS Mills- Impact of Composite Material Properties
Caroline Woywadt and Bernd Henrich, *Gebr Pfeiffer SE, Kaiserslautern, Germany*
- 2 Laboratory Study on the Strength Development of High Early Strength PPC By Using Cement Grinding Additive
S Karthikeyan, *Sanghavi Industries Pvt Ltd, India*
A Prabakaran, *Mohammed Institute of Engineering and Technology, India*

- 3 Consequences of Chemical Composition and Particle Size on Kiln Feed Burnability
Rahul Tiwari, A K Rai and S P Pandey, *Dalmia Cement Research Centre, India*
- 4 Performance Evaluation of Granulated Blast Furnace Slag - Steel Slag Based Portland Slag Cement
S K Agarwal, Suresh Vanguri and S K Chaturvedi, *National Council for Cement and Building Materials, India*
A S Reddy and Anil Kumar, *Tata Steel Ltd, India*
- 5 Importance of SCM Types on Hydration Kinetics and Strength Development of Blended Cement with High Clinker Replacement at Low Temperature Curing
Arun Emmanuel, Sreejith Krishnan and Shashank Bishnoi, *Indian Institute of Technology Delhi, India*
- 6 Investigations on Portland Limestone Cement Compositions and their Performance Characteristics
Pinky Pandey, B M N K Prasad, R S Gupta, D Yadav and S K Chaturvedi, *National Council for Cement and Building Materials, India*
- 7 Application of Thermal Analysis for Cement and Cement Related Raw Materials
B N Mohapatra, Pravesh Kumar Sharma and Shrikant Varpe, *Ambuja Cements Ltd, India*

1345 h – 1430 h

Lunch

Hosted by **Dalmia Cement (Bharat) Ltd., India**

1430 h – 1615 h (Parallel Session)

TECHNICAL SESSION – VI A

Zorawar Auditorium

PRODUCTIVITY ENHANCEMENT AND PROCESS OPTIMIZATION – I

- 1 Digital Transformation in Packing Lines
Sachin Raja and Gaurav Gautam, *BEUMER India Pvt Ltd, India*
- 2 A New Energy Efficient VRM Technology for Raw Grinding
Janardhanan Anantha Krishnan and John Terembula, *FLSmidth Pvt Ltd, India*
- 3 Kiln Productivity Improvement – A Case Study
Anil Bajaj, K Karunakara Rao and Devraj Charan, *Dalmia Cement (Bharat) Ltd, India*
- 4 Understanding Gas Flow Behavior in Kiln Bag House Chimney through Computational Fluid Dynamics
Prateek Sharma, K R P Nath, Rayees Ahmed and Anupam, *National Council for Cement and Building Materials, India*
Vivek Vitankar, *FluiDimensions, India*

- 5 Optimization of Productivity and Clinker Quality through Kiln Process Optimization
Ankur Mittal, Rabindra Singh, Akashneel Banerjee and Prateek Sharma,
National Council for Cement and Building Materials, India
- 6 Project Engineering & Management - Best Practices
Rajesh Kumar Gupta, *JK Cement Ltd, India*
- 7 A Case Study to Reduce Pressure Drop Across the Cement Mill Cyclone without Compromising on Material Collection Efficiency, by Using CFD Modelling & Simulation
Kailash Singla, Manoj Bansal, Pankaj Sharma, Devesh Mudgal and Sunil Prakash, *Ambuja Cements Ltd, India*
- 8 Productivity Enhancement & Cost Reduction through Online Plant Analytics
Sudipta Bhattacharya, Kausik Sikdar and Kamal Kumar, *Holtec Consulting Pvt Ltd, India*
- 9 Refractory Repair Technology in Cement Plant by Shotcrete & Gunning – Comparison, Case Studies & Recommendations
Dipankar Banerjee, *Vesuvius India Limited, India*
Stephen Woodcock, *Vesuvius UK Limited, UK*

1430 h – 1615 h (Parallel Session)

TECHNICAL SESSION – VI B

Ashoka Convention Hall

PERFORMANCE AND DURABILITY OF CONCRETE

- 1 **Keynote Paper:** Durability of Cementitious Materials in Acidic Environments
K P Ramaswamy, *Indian Institute of Technology Madras India, T K M College of Engineering, India*
Manu Santhanam, *Indian Institute of Technology, Madras, India*
- 2 Experimental Investigation on Mechanical Properties of High Strength Concrete Containing Siliceous Materials
Arshdeep Singh and Nitesh Mankotia, *PEC University of Technology, India*
- 3 Effect of Variation in Composition and Method of Curing on Properties of CGAs Based Aerated Concrete
Arunima Shukla and Ashok N Bhaskarwar, *Indian Institute of Technology Delhi, India*
- 4 Concrete Performance by Using Composite Cement vis-à-vis Portland Pozzolana Cement
Bhavesht Trivedi, Anurag Sullerey and Sandipan Chatterjee, *Ambuja Cements Ltd, India*
- 5 Effect of Aggregate Types and Supplementary Cementitious Materials on Mechanical Properties of High Strength Concrete
V V Arora, Brijesh Singh and Shubham Jain, *National Council for Cement and Building Materials, India*

- 6 Performance of Ternary Blended Steel Fibre Reinforced Concrete Using Fly Ash and Ultrafine Slag (Alccofine1203)
Deepa A Sinha and A K Verma, *BVM Engineering College, India*
Yatin Joshi, *Alccofine Division, Ambuja Cements Ltd, India*
- 7 Fire Resistance Properties of High Performance Concrete with Alccofine 1203
Shamshad Ahmad, Shrikant Varpe and Yatin Joshi, *Alccofine Division, Ambuja Cements Ltd, India*
B N Mohapatra, *Ambuja Cements Ltd, India*
- 8 Volume Changes Occurring on Carbonation of Hydrated Cement Phases
Vineet Shah, Anuj Parashar and Shashank Bishnoi, *Indian Institute of Technology Delhi, India*
- 9 Service Life Prediction of RC Structures Using Short Term Durability Testing Methods/ Techniques
V V Arora and Puneet Kaura, *National Council for Cement and Building Materials, India*

1615 h – 1645 h
Tea/Coffee

1645 h – 1815 h (Parallel Session)

TECHNICAL SESSION – VII A

Zorawar Auditorium

PRODUCTIVITY ENHANCEMENT AND PROCESS OPTIMIZATION – II

- 1 Development of High Performance Alumina Bricks for Alternate Fuel Applications in Cement Industries
J P Nayak, B Ghosh, R Adhikari, A Tripathy, S Sengupta and P B Panda, *TRL Krosaki Refractories Ltd, India*
- 2 Capacity Enhancement of Kiln from 4500 TPD to 5600 TPD - A Case Study
Pankaj Kejriwal, A K Sinha, S P Shrimali, S K Kulshrestha, S K Pandey and B K Singh, *Star Cement Meghalaya Ltd, India*
- 3 Plant Performance Improvement through Optimization of Pyro-process
Akashneel Banerjee, O P Grover, Prateek Sharma and K P K Reddy, *National Council for Cement and Building Materials, India*
- 4 Technological Upgradation of Kapilas Cement Manufacturing Works
Manoranjan Sahoo, *Kapilas Cement Manufacturing Works, (A Unit of OCL India Ltd), India*
- 5 Diagnostic Study of Kiln Baghouse Chimney Corrosion in Cement Plant
Anupam, Rabindra Singh, Ankur Mittal and Prateek Sharma
National Council for Cement and Building Materials, India
- 6 Cement Mill Productivity Improvement
Ashok Khuntwal, Upendra Aole, Chetan Yadav and Kailash Depura, *Vikram Cement Works (UltraTech Cement Ltd), India*

- 7 Diagnostic Study of Minimizing Excessive Coating in Kiln – Case Studies
Anil Kumar Popuri, V Naga Kumar, G J Naidu, Anupam and Rabindra Singh, National Council for Cement and Building Materials, India
S P Shrimali, B L Suthar and Y K Singh, Star Cement Limited, India
- 8 Productivity Enhancement in Feeding & Airlocking Using RFS Technology - A Study by University of Western Australia (UWA) on How Anval's RFS Technology Combats Leak & Wear
Sreedhar Sukumaran, Anval Valves Pvt Ltd, India and Anval International Pte Ltd, Singapore

1645 h – 1815 h (Parallel Session)

TECHNICAL SESSION – VII B

Ashoka Convention Hall

OTHER BUILDING MATERIALS AND BINDERS

- 1 Nano-Materials as 'Novel Materials'?
Mainak Ghosal and Arun Kumar Chakraborty, Indian Institute of Engineering Science & Technology (IIST), India
- 2 High Early Strength Alkali Activated Clinkerless Cement
M V Karandikar, Nupur Hardikar and S A Khadilkar, ACC Ltd, India
- 3 Limestone-Calcined Clay Blend: An Approach to Minimize Environmental Impact
G Mishra, V Shah and Shashank Bishnoi, Indian Institute of Technology Delhi, India
- 4 Cost Effective Preparation of Nano Silica Using Different Sources and Applications in Building Materials
Saurabh Ahalawat, Rattan Lal Sharma, Subrat Biswas, Deepak Mishra, K Suresh and Jean Bosco, UltraTech Cement Ltd, India
- 5 Manufacture of Low Cost Building Brick for Rural Housing through Mineral Cementation Technology
S D Muduli, CSIR-Institute of Minerals and Materials Technology, India
- 6 Performance of Ground Granulated Blast Furnace Slag as Binder with Non Silicate Based Activator
V Kumar, B K Prasad and A Kumar, National Institute of Technology, India
N Ram kumar, Eco-Materials, India
- 7 Investigations on Preparation of Brick Shaped Bodies by Alkali Activation of Fly ash Mixed with Bottom Ash
R S Gupta, S Vanguri, V Liju, M N K P Bolisetty and S K Chaturvedi, National Council for Cement and Building Materials, India

1915 h – 2030 h

Cultural Programme

2030 h

Dinner

Hosted by Loesche India

0900 h – 10300 h (Parallel Session)

TECHNICAL SESSION – VIII A

Zorawar Auditorium

PRODUCTIVITY ENHANCEMENT AND PROCESS OPTIMIZATION – III

- 1 Process Design Optimization in Grinding and Pyro Processing System
Sivakumar Natesan, *FLSmidth Pvt Ltd, India*
- 2 Optimization of Kiln Lining for Energy Efficiency
Sumanta Mukhopadhyay, *Dalmia Refractories Ltd, India*
- 3 Learn How to Maximize the Performance of your Baghouse
Dilip Sakhpara, *Maxtech Industries, LLP, India*
- 4 Enhancing Plant Performance Through KHD Plant Services and Equipment Solutions: Case Studies
Martin Gierse, *KHD Humboldt Wedag GmbH, Germany*
Sitaram Sharma and K Vikram, *KHD Humboldt Wedag India Pvt Ltd, India*
- 5 Multivariate Model Predictive Control with Objective Cost Function to Optimize Cement Plant Operation & Improve the Productivity with Agility Gains through Continuous Remote Monitoring Using Indian Cement Plant as a Case Study
P Sridhar, Dinesh Sampath and Issac JobGods Feareth Thangadurai, *FLSmidth Pvt Ltd, India*
- 6 A Multifunctional Approach to Process Optimization and Plant Upgradation
D H Thanki and Suchismita Bhattacharya, *ERCOM Engineers Pvt Ltd, India*
- 7 Process Optimisation & Sustainable Product Quality with Higher Alkali Inherent in Limestone
R B M Tripathi, Jayant Malhotra, Umashankar Choudhary and Prakhar Shrivastava, *JK Cement Ltd., India*
- 8 RDS Technology: A Suitable Option also in Cement and Lime Industry
Fabio Ferrari, *Redecam Group, Italy*
Niccolò Griffini, *Isgec Redecam Enviro Solutions Pvt Ltd, Italy*

0900 h – 1030 h (Parallel Session)

TECHNICAL SESSION – VIII B

Ashoka Convention Hall

DISTRESS INVESTIGATION, REPAIR/STRENGTHENING/RETROFITTING OF CONCRETE STRUCTURES

- 1 Lignosulfonate, in Combination with either SNF or PCE, can be an Ideal Plasticiser Formulation for Concrete Contaminated with Silt
Srikanth Kalahasti, *Borregaard South Asia, India*
Phillip Chuah, *Borregaard SEA, Singapore*
Rolf Andreas Lauten, *Borregaard, Norway*

- 2 Chemically Reinforced Perlite Based Fire Resistant Mortar for Non-Structural Applications
R Chaudhury, M Sirajuddin, H Aiyer and A Chatterjee, *Aditya Birla Science and Technology Company Pvt Ltd, India*
D Pandey, *UltraTech Cement Ltd, India*
- 3 Experimental Studies on High Yield Strength Deformed (HYSD) Bars Used in Indian Construction Industry from Seismic Point of View
V V Arora, Brijesh Singh, Lalit Yadav and Amit Trivedi, *National Council for Cement and Building Materials, India*
- 4 Third Party Quality Assurance for Structural Repair of RCC Structure
T V G Reddy, Rizwan Anwar, Ankit Sharma and B S Rao, *National Council for Cement and Building Materials, India*
- 5 Experimental Studies on Flexural Behaviour of High Strength Reinforced Concrete Beams
V V Arora, Brijesh Singh, Lalit Yadav, Shubham Jain and Suhaib Khan, *National Council for Cement and Building Materials, India*
- 6 Retrofitting of Bridges Affected During Seismic Activity
Vinay Gupta, *Tandon Consultants Pvt Ltd, India*
- 7 Performance of Hybrid Fiber Reinforced Concrete in Fire
S K Singh and S K Kirthika, *CSIR-Central Building Research Institute, India*
Mayank Rai and Shilpa Pal, *Gautam Buddha University, India*

1030 h – 1100 h

Tea/Coffee

1100 h – 1245 h (Parallel Session)

TECHNICAL SESSION – IX A

Zorawar Auditorium

PRODUCTIVITY ENHANCEMENT AND PROCESS OPTIMIZATION – IV

- 1 Reducing Land Cost by Optimizing Plant Layout
Akshay Kadbe, Sunil Mhaskar and Gorakhanath Tilekar, *PENTA India Cement & Minerals Pvt Ltd, India*
- 2 Commercial Scale Production of Composite Cement- Compo cem, Ambuja Cements Ltd, India
Prem Kumar Srivastava, Subbaraidu Ayyagari, Rajesh Kothari, Shrikant Varpe and B N Mohapatra, *Ambuja Cements Ltd, India*
- 3 Uncoalers - Advanced Technology for Material Extraction from Hoppers, Silos and Stockpiles
K S Nalwaya, J Narula and Yong Wei, *KSN Tech Ventures Pvt Ltd, India*

- 4 Enhancement of Raw Mill Output
Lokesh Bahety and Rakesh Nayak, *OCL India Ltd (Dalmia Group), India*
- 5 Alternative Conveying Technologies
Markus Peitzmeier, *BEUMER Maschinenfabrik GmbH & Co. KG, Germany*
- 6 Newer Concepts in Pyro Technology (Jetflex® Burner & CCX Cyclone)
G Renga Prasad, *FLSmidth Pvt Ltd, India*
- 7 Fastest and Efficient Mechanized Method of Application for Time Saving – ACCSHOT
Saumen Sinha, ManirUzZaman, Rajeev Kumar Laharia, Purushottam Bedare and Santosh Upadhyay, *Calderys India Refractories Ltd, India*
- 8 Technological Upgradation of OCL Bengal Cement Works
Manoranjan Sahoo, *OCL Bengal Cement Works, (Dalmia Bharat Group), India*

1100 h – 1245 h (Parallel Session)

TECHNICAL SESSION – IX B
USE OF ALTERNATE AGGREGATES

Ashoka Convention Hall

- 1 **Keynote Paper:** Treatment and Recycling of Construction and Demolition Waste in India – A Collaboration Between India and Norway
C J Englesen¹, Gurvinder Singh², K H Karstensen¹, H Justnes¹ and P K Saha¹
¹*Sintef Building and Infrastructure, India*
²*Ministry of Housing and Urban Affairs, Govt of India, India*
- 2 High Strength Lightweight Concrete Using Sintered Fly Ash Aggregates for Structural Applications
Moghul Sirajuddin, Reetam Chaudhury, Hemantkumar Aiyer and Amit Chatterjee, *Aditya Birla Science and Technology Co Pvt Ltd, India*
Devendra Pandey, *UltraTech Concrete, India*
- 3 Properties of Pavement Quality Concrete with Jarofix as Partial Replacement of Fine Aggregate
Dinesh Ganvir, Binod Kumar and J B Sengupta, *CSIR-Central Road Research Institute, India*
- 4 Utilisation of Ferrochrome Slag as Fine Aggregate
V Kumar, B K Prasad and D Barnwal, *National Institute of Technology, India*
- 5 Bottom Ash as An Alternative to Natural Sand in Concrete
P N Ojha, Amit Trivedi, Nikhil Kaushik, Nitin Chowdhary and V V Arora, *National Council for Cement and Building Materials, India*

- 6 Thixotropy of High-Strength Self-Compacting Concrete Made with Recycled Aggregate
Ran Bir Singh and Bhupinder Singh, *Indian Institute of Technology, Roorkee, India*
- 7 Copper Slag and Blast Furnace Slag as an Alternative to Natural Sand in Concrete
V V Arora, P N Ojha, Nikhil Kaushik and M K Mandre, *National Council for Cement and Building Materials, India*

1245 h – 1330 h

Lunch

Hosted by Cement Manufacturers' Association, India

1330 h – 1445 h (Parallel Session)

TECHNICAL SESSION – X A

Zorawar Auditorium

ENVIRONMENTAL MANAGEMENT AND SUSTAINABLE DEVELOPMENT – I

- 1 A Journey Towards Water Positive
Nitin Duraphe and Puneet M Tripathi, *Prism Cement Ltd, India*
- 2 CFD Study of Calciner for NO_x Reduction by Primary Measures
Sameer Kumar Ande, Ramesh Kunuku, Ram Chaval and Chandrasekar Jayaraman, *Techport, Cement Industrial, India*
- 3 Composite Cement- An Emerging Product for Reduction in Carbon Footprint
Bibekananda Mohapatra, Shrikant Varpe, Ramsinh Chauhan, Rishi Kumar Joshi and Sukuru Ramarao, *Ambuja Cements Ltd, India*
- 4 Indian Cement Industry – A 400 MTPA Solution Waiting to be Fully Unleashed for Waste Utilization
Sanjay Jain and Anupam Badola, *Dalmia Cement (Bharat) Ltd, India*
- 5 Refining Cement Sustainability through High Belite Clinker Production
A K Rai, S P Pandey and Praseeja Shankaran, *Dalmia Cement Research Center, India*
- 6 Diagnosis of Dust Nuisance and System Design Improvement
Kapil Kukreja, Anil Kumar and Anupam, *National Council for Cement & Building Materials, India*
- 7 Comparison of the Reactivity of PCC And CFBC Fly Ash
K Suresh, Manish Kuchya, A Sadangi and Jean Bosco Kazirukanyo
UltraTech Cement Ltd, India

1330 h – 1445 h (Parallel Session)

TECHNICAL SESSION – X B
EMERGING TRENDS – I

Ashoka Convention Hall

- 1 Innovative On-Line Particle Sizing for Cement Industry
Stuart Barton, *Xoptix Ltd, UK*
- 2 Self-Unloading Cement Carriers
Mario Raemmele, *IBAU HAMBURG, Germany*
- 3 Investigations on Strength and Durability Aspects of Bacterial Mortars and Concrete
Amit Shah, Nupur Hardikar, M V Karandikar and S A Khadilkar, *ACC Ltd, India*
- 4 How to Establish Advanced Quality Control in Cement Production Today
Ing Roger Meier, *FLSmidth Automation, Denmark*
S Sankaralingam, *FLSmidth Automation, India*
- 5 Insmart Systems Disruptive Technologies in Automatic Sampling Systems
Abhinav Bisen, *Insmart Systems, India*
- 6 Method of Determination of Acoustic Resistance of Aerated Concrete Developed at NCB
Narendra Kumar Tiwary and K R P Nath, *National Council for Cement and Building Materials, India*
Ashok N Bhaskarwar, *Indian Institute of Technology Delhi, India*
- 7 Innovative Tools to Check the Properties of Manufactured Sands
Hitesh Barot and Shweta Agrawal, *Ambuja Cements Ltd, India*

1445 h – 1515 h

Tea/Coffee

1515 h – 1645 h (Parallel Session)

TECHNICAL SESSION – XI A
TOTAL QUALITY MANAGEMENT

Zorawar Auditorium

- 1 Laboratory Automation Towards- Zero Defect Zero Effect in the Product
Biswajeet Mallik, P S Chakraborty, Sumeet Shrivastava, Hemant Sahu and Shuchi Sharma, *ACC Ltd, Damodhar Cement Works, India*
- 2 Standardisation and Bench Marking of Cement Chemical Laboratories to Increase the Product Quality Reliability
Shweta Jha, P Ponnusamy and S P Pandey, *Dalmia Cement Research Centre, India*

- 3 Quality Management Systems Approach to Managing Risks and Stabilizing Organizations in Uncertain Business Environment: A Case Study in R&D and Customer Service Setting
S K Breja, V Naga Kumar, P Srikanth and A Agnihotri, *National Council for Cement and Building Materials, India*
- 4 Independent Quality Assurance Monitoring System in Construction-A Case Study for Delhi
Vikas Patel, Mohd Ali Saifi, B Pandu Ranga Rao, Brijesh Singh and Pritam Rawat, *National Council for Cement and Building Materials, India*
- 5 Project Management Technique for Profit Making in Cement Industry
Bibhanshu Sekhar Choudhary and Shantanu Prabhat Choudhary, *Aditya Birla Group, India*
- 6 Testing of Cement and Construction Materials: A Reality Check on Performance of Testing Laboratories in Cement and Construction Sector
S K Breja, V Naga Kumar, A Agnihotri, Nikhil Kaushik and V K Kandhari, *National Council for Cement and Building Materials, India*
- 7 Evolution of Corporate Social Responsibility (CSR) Guidelines in India
A K Singh and Rajesh Sagar, *Reliance Cement Company Pvt Ltd, India*
- 8 Customer Care from the Very Beginning
T Weiss and M Rasiraju, *IKN GmbH, Germany*
M Schubert, *IKN India Pvt Ltd, India*

1515 h – 1645 h (Parallel Session)

TECHNICAL SESSION – XI B

Ashoka Convention Hall

ENVIRONMENTAL MANAGEMENT AND SUSTAINABLE DEVELOPMENT – II

- 1 The Theory and Application of Acoustic Cleaners within Key Process Areas of the Cement Industry
Donald F Cameron, *Primasonics International Ltd, England*
- 2 FGD and DeNO_x Systems for Captive Power Plants in Cement Industry
Jogesh Narula, and Wu Yihao, *KSN Techventures Pvt Ltd, India*
K S Nalwaya, *BEIJING SPC Environment Protection Co Ltd, India*
- 3 Thermal Insulation System For Energy Efficient & Green Buildings
K K Mitra, *Lloyd Insulations (India) Ltd, India*
- 4 Water Conservation - Our Innovative Efforts Resulting in Conservation of 500 M³/Day
R Rajamohan, *Dalmia Cement (Bharat) Ltd, India*

- 5 Reduction of Emission by Primary Measures (Particulate Matter & NO_x)
S K Paneri, Vijay Agrawal, Vinod Mishra and Dharmendra Dwivedi,
Ambuja Cements Ltd, India
- 6 Preventive Maintenance Diagnostics of Fabric Filters for Better Emission Compliance
Vahid Mirsaiidi, FilterSense, USA
Rushabh Sakhpara, Maxtech Industries LLP, India
- 7 Sourcing of Aggregates from Malaysia for Singapore – A Case Study
Ramesh Murlidhar Bhatawdekar and Tonnizam Mohamad Edy, Geotropik-Universiti Teknologi Malaysia, Malaysia
Sanjay Nikam, Suru09 Services, India
- 8 Water Footprint Assessment Study of Cement Plants
M Selvarajan, Anand Bohra, K R P Nath, M V R Rao, N K Tiwary and A Saxena,
National Council for Cement and Building Materials, India

1645 h – 1830 h (Parallel Session)

TECHNICAL SESSION – XII A

Zorawar Auditorium

SUSTAINABLE CONSTRUCTION PRACTICES

- 1 **Keynote Paper: A Comprehensive Approach for Smart and Sustainable Built Environment**
Sanjay Pant and Milind Gupta, Bureau of Indian Standards, India
- 2 **V7 Dry Sand–Suitable for Quality Construction**
Sanjay Nikam, Suru Business Services, India
Ramesh Murlidhar Bhatawdekar and Tonnizam Mohamad Edy, Geotropik-Universiti Teknologi Malaysia, Malaysia
- 3 **Utilization of Ground Granulated Blast Furnace Slag in Pavement Quality Concrete Mixes**
Binod Kumar, CSIR-Central Road Research Institute, India
Lopamudra Sengupta, JSW Cement Ltd, India
- 4 **Role of Cement Chemistry and Mineralogy on Rheology of Concrete**
B N Mohapatra, Shrikant Varpe and Ramsinh Chauhan, Ambuja Cements Ltd, India
- 5 **High Performance High Early Strength Concrete with Ultrafine Additives**
Vinod Ailsinghani, Ambuja Cements Ltd, India
Bhupendra V Deodhar, L&T, Mumbai Metro Project, India
- 6 **Characterization & Durability Properties of Reactive Ultrafine Fly Ash and GGBFS Based Geopolymer Composites**
Dinesh H T, M S Dharmaprakash and R V Ranganath, BMS College of Engineering, India

- 7 Use of Biomass Fly Ash in Geopolymer Concrete
P S Ambily and B H Bharatkumar, *Advanced Materials Laboratory, CSIR-SERC, India*
- 8 Construction Technologies and Alternate Materials for Sustainable Construction
Vimal Kumar, *Centre for Fly Ash Research & Management (C-FARM), India*
- 9 Study on Alkali Activated Slag and Flyash Based Composite Concrete System
Lalit Yadav, Amit Trivedi, V V Arora and P Hemasree, *National Council for Cement and Building Materials, India*

1645 h – 1830 h (Parallel Session)

TECHNICAL SESSION – XII B

Ashoka Convention Hall

ENERGY CONSERVATION SYSTEMS- I

- 1 Waste Heat Recovery System for Cement Sector: Study Report
Tejomurtula Prasad, *Thyssenkrupp Industries India Pvt Ltd, India*
- 2 Energy, Efficiency Environment Practices: Overview & Guidelines - KHD Road Map
A K Dembla, P V R Murthy and Deepti Varshney, *KHD Humboldt Wedag India Pvt Ltd, India*
- 3 Emerging Trends and Technology in Cement Waste Heat Recovery
Deepansh Saxena and K V Anguraju, *Isgec Heavy Engineering Ltd, India*
- 4 Up-Gradation of Existing Cement Grinding Systems with VRPM for Capacity Enhancement and Reduction in Specific Power Consumption
Ankita Fulzele, Yogesh Ghotekar, M K Das and R K Sharma, *AMCL Machinery Ltd (AMCL), India*
- 5 Grinding Power Optimization at Ambuja Cements Ltd. , MGU, Surat Plant
Sanjay Bandopadhyay, Naeem Munshi and Priyesh Joshi, *Ambuja Cements Ltd, India*

0900 h – 1030 h (Parallel Session)

TECHNICAL SESSION – XIII A

Zorawar Auditorium

ANALYTICAL METHODS AND LAB AUTOMATION

- 1 Development of Rapid Method for Assessment of Gypsum Dehydration During Cement Grinding
D D Kulkarni, S B Sarase, Nupur Hardikar, A Morajkar, M V Karandikar and S A Khadilkar, ACC Ltd, India
- 2 Development of Innovative Rapid Method for Determination of Pyritic Sulphur in Limestone & Process Samples
R S Vaity, S V Kadam, A R Dalvi, A A Darne, V R Palav and S A Khadilkar, ACC Ltd, India
- 3 Designing a Future-proof Automated Laboratory: A 5 – Step Process
Sudeep Sar, Thyssenkrupp Industries, India
Michael Enders, Thyssenkrupp Industrial Solutions, Germany
- 4 Manual V/S Mechanical Mixing: Its Impact on Cement Strengths
Pravin P Shinde, Amit V Shah, R S Parulekar, M V Karandikar and S A Khadilkar, ACC Ltd, India
- 5 Quick Prediction of Cement Behaviour in Concrete Application
Jai Prakash Vrati, Kamal Virendra Singh, G V Ramakrishna, B C Pandey and B N Mohapatra, Ambuja Cements Ltd, India
- 6 State-of-the-Art Performance Improvement with Near Infra-Red Online Analysis
Petra Mühlen, SpectraFlow Analytics AG, Switzerland
- 7 Impacts of Fusion Bead Preparation for Cement Application
Marc Boivin, Katanax® inc, Canada
- 8 A Study of Mineralogy and Microstructure of Clinker by XRD and Microscopy
Jai Prakash Vrati, Kamal Virendra Singh, G V Ramakrishna, B C Pandey and B N Mohapatra, Ambuja Cements Ltd, India
- 9 Effect of Use of Mechanical Mixer on the Physical Performance of OPC, PPC and PSC
Suresh Vanguri, G J Naidu, G Ahamed and S K Chaturvedi, National Council for Cement and Building Materials, India

0900 h – 1030 h (Parallel Session)

TECHNICAL SESSION – XIII B

Ashoka Convention Hall

ENVIRONMENTAL MANAGEMENT AND SUSTAINABLE DEVELOPMENT – III

- 1 Mineral Resource Conservation: An Initiative for Sustainable Development and Cost Optimization at Ambuja Cements, Darlaghat
Vinod Kumar Sharma, Geetesh Srivastava, Anil K Gupta, Anupam Agrawal, Pravesh Kumar Sharma and B N Mohapatra, Ambuja Cements Ltd, India
- 2 Meeting the Demands of Sustainability through Environmental Compliance
P K Ghosh and Suchismita Bhattacharya, ERCOM Engineers Pvt Ltd, India
- 3 Impact of Mining on Salinity Intrusion, Ground Water Level and Its Quality – A Case Study
Anand Bohra, K R P Nath, M Selvarajan, N K Tiwary, K V Kalyani and Ashutosh Saxena, National Council for Cement and Building Materials, India
P K Deshpande, Saurashtra Cement Ltd, India
- 4 Cement Plant ESP Efficiency Enhancement Using Modupower
Elavarasu Jayakumar, Schenck Process Solutions India Pvt Ltd, India
- 5 NO_x & SO_x Emission Control through Primary Mitigation in Cement Plants
Srinivasan Annamalai, Rajiv Sadavarti and R Balachandran, FLSmidth Pvt Ltd, India
- 6 Atmospheric CO₂ Sequestration Through Mineral Carbonation of Cement Kiln Dust
N K Dhal and S D Muduli, CSIR-Institute of Minerals and Materials Technology, India
- 7 Dalmia Bharat: Envisioning Green to Greener
Sanjay Jain and Anupam Badola, Dalmia Cement (Bharat) Ltd, India

1030 h – 1100 h

Tea/Coffee

1100 h – 1230 h (Parallel Session)

TECHNICAL SESSION – XIV A

Zorawar Auditorium

ENERGY CONSERVATION SYSTEMS – II

- 1 Energy Efficient Technologies and Operation
M P Malav, JK Cement Works, India
- 2 Waste Heat Recovery System for Power Generation
S Peddanna, D H Thanki and B B Dheer, ERCOM Engineers Pvt Ltd, India

- 3 Increased Raw Mill Output and Reduction of Specific Power Consumption through Innovative Approach
G Sakthivel, *Dalmia Cement (Bharat) Ltd, India*
- 4 Moving Ahead: State of the Art Pyroprocess Solutions & Energy Efficient Approach
Andreas Hand, *KHD Humboldt Wedag, Cologne, Germany*
Balesh Singh and Anurag Johari, *Humboldt Wedag India Pvt Ltd, India*
- 5 Auxiliary Power Reduction in Our Captive Power Plant Our Innovative Efforts Resulting in Improvement from 9.91 to 8.19%
S Gnanavel, A L Nachiappan and R Rajamohan,
Dalmia Cement (Bharat) Ltd, India
- 6 Reduction in Total Specific Electrical Energy Consumption of Raw Mill Grinding by 1.5 kWh/t RM
S K Paneri , Vijay Agrawal, Vinod Mishra and Dharmendra Dwivedi,
Ambuja Cements Ltd, India
- 7 The Effective Way of Energy Utilization - A Journey From 71 kWh/mt Clinker to 52 kWh/mt
G Gurumurthy, *Dalmia Cement (Bharat) Ltd, India*
- 8 Specific Power Consumption Reduction in Crusher
T Robert, *Dalmia Cement (Bharat) Ltd, India*

1100 h – 1230 h (Parallel Session)

TECHNICAL SESSION – XIV B
EMERGING TRENDS – II

Ashoka Convention Hall

- 1 Made to Last – Performing Under tough Conditions
Aashish Maheshwari, *Evonik India Pvt Ltd, India*
Georg Rathwallner, *Evonik Fibres GmbH, Austria*
- 2 BCFC Wagons, The Future of Flyash Transport in India
Kapil Kukreja, Ashutosh Saxena and Saurabh Bhatnagar, *National Council for Cement & Building Materials, India*
Abdul Samad, *Malabar Cement Ltd, Walayar, India*
- 3 Flyash Based Geopolymer Sand: An Alternative to Fine Aggregate
P N Ojha, Vaibhav Chawla and V V Arora, *National Council of Cement and Building Materials, India*
Swapnil Wanjari, *VNIT, India*
- 4 Effective Utilization of Fly Ash for Different Applications
G V P Bhagath Singh and Kolluru V L Subramaniam, *Indian Institute of Technology Hyderabad, India*

- 5 Study on the Hydration of Limestone Calcined Clay (LC²) Pozzolana in the Presence of Calcium Hydroxide Using X-Ray Diffraction
Anuj Parashar, Vineet Shah and Shashank Bishnoi, *Indian Institute of Technology Delhi, India*
- 6 Air Domes- Latest Concept In Stockpile Cover
K S Nalwaya and Jogesh Narula, *KSN Techventures Pvt Ltd, India*
- 7 Standardless Analysis by XRF for Various Cement Raw Materials Using Fundamental Parameter Method
Hisashi Inoue, Yasujiro Yamada, Yasushi Kusakabe and Yoshiyuki Kataoka
Rigaku Corporation, Japan
- 8 Aeris Cement: A New Benchtop XRD Solution for Cement Industry
Mangesh Mahajan, *PANalytical, India*

1230 h – 1315 h

Lunch

Hosted by JK Lakshmi Cement Ltd., India

1345 h – 1515 h

CONCLUDING SESSION AND AWARDS PRESENTATION

Venue – Zorawar Auditorium, Manekshaw Centre, New Delhi, India

Welcome Address

Seminar Overview

Industry's Response

Valedictory Address & Presentation of Awards

Vote of Thanks

1515 h –

Farewell Get-together

