16th NCB International Seminar on Cement, Concrete and Building Materials 03-06 December 2019, Manekshaw Centre, New Delhi, India

	PROCEEDINGS		
	(Technical Sessions & Special Technical Sessions)		
	Tuesday, 03 December 2019		
IN	AUGURAL SESSION Zorawar Auditorium	1000 h to 1100 h	
Ina	uguration of Technical Exhibition	1100 h to 1130 h	
	5		
We	lcome Get-together	1130 h to 1200 h	
PA	NEL DISCUSSION-I	1200 h to 1300 h	
	NEL DISCUSSION -II	1300 h to 1400 h	
LI	NCH	1400 h to 1500 h	
		1400 II to 1500 II	
TF	CHNICAL SESSION – I A Zorawar Auditorium	1500 h to 1615 h	
	NE PLANNING & RAW MATERIAL RESOURCE MANAGEMENT		
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1.	Improvising Logistics and Supply Chain in Cement Industry (80)		
	Ravindra Kumar Singh, BEUMER India Pvt Ltd.		
2.	Indian Cement Industry – A Perspective (72)		
2	Jagdeep Verma, Holtec Consulting Private Limited		
3.	Conservation and Maximization of Limestone Reserves by following Scientific Method	of Mining (Case Studies)	
	(432)		
	Richa Mazumdar, Subrat Sahoo, A K Dubey and D K Panda, National Council for C	cement and Building	
4	Materials		
4.	Efficient Grinding of Slurry Material Along with Limestone in Gebr. Pfeiffer VRM for	Utilization of Grey	
	Siliceous Limestone (35)		
	Raghvendra Singh and Sudipta Mondal, Gebr. Pfeiffer (India) Pvt. Ltd.		
_	Piush Mishra, Chaibasa Cement Works (A Unit of ACC Ltd.)		
5.	Value Engineered Raw Material and Cement Grinding Plants (8)		
	Stefan Diedenhofen and Franz-Josef Zurhove, Thyssenkrupp Industrial Solutions AG,	Cement Technologies,	
	Beckum, Germany		
6.	Investigations on development of Portland composite cements based on Flyash and limes		
	B N Mohapatra, Varsha Liju, S Palla, S Vanguri, R Gupta, O P Sharma and S K Cl	haturvedi, National	
_	Council for Cement and Building Materials		
7.	Petcoke Additive Chemical for Improved Petcoke Burning in Cement Industry (95)		
	Halim Tekkesin and Seyda Arikan, Triple I Engineers		
	CHNICAL SESSION – I B Ashoka Convention Hall	1500 h to 1615 h	
	RTLAND, BLENDED AND SPECIAL CEMENTS – I		
1.	High Magnesia (MgO) Clinker for the Manufacture of PPC and PSC (428)		
	B N Mohapatra, G Ahamed, G J Naidu, G Bhatnagar and S K Chaturvedi, National	ul Council for Cement and	
_	Building Materials		
2.	Properties of Calcined Clay Based Geopolymer Mortars in Presence of Alccofine Powde	er and Polymer Fiber at	
	Room Temperature (61)		
	S K Saxena, Mukesh Kumar, S K Wali and N B Singh, JK LAKSHMI CEMENT LTD		
3.	Investigation on Utilization of Wollastonite in Manufacture of OPC Clinker (411)		
	Varsha Liju,S K Chaturvedi and B N Mohapatra, National Council for Cement and I	Building Materials	
	S Sridhar, Wolkem India Ltd. Udaipur,		
	Mukesh Kumar, J K Lakshmi Cement Ltd., Jajjar		
4.	Inter-Grinding of Clinker, Flyash and GBFS for Composite Cement Preparation-their Gr	rindability and Effect on	
	Physical Properties Cement (415)		
	Suresh Vanguri, G Prasad, A Sushmitha, V Ramaswamy, K V Kalyani, S K Chatu	rvedi and B N	
	Mohapatra, National Coucnil for Cement and Building Materials - Hyderabad		
5.	Determination of Slag & Flyash Content in Composite Cement By X-Ray Diffraction M	lethod (53)	
	Vaibhav Dixit, Hemant Sahu, Asit Parui, S V Kadam, K Rajesh, ACC Limited		
6.	Increase Utilization of Fly Ash in PPC at Birla Cement Works Plant (108)		
	Dinesh Kumar, D Banerjee, Narpat Anjana and G Palod, Birla Corporation Limited		

Tea/Coffee	1615 h to 1645 h	
TECHNICAL SESSION – II A Zorawar Auditorium	1645 h to 1800 h	
ALTERNATE / WASTE FUELS AND RAW MATERIALS	1010 11 00 1000 11	
1. LD Slag Utilization for clinker Production (21)		
S K Gupta, Chandan Sengupta and Lokesh Bahety, Dalmia Cement (Bharat) Ltd		
2. AFR Handling system (78) Mighal Hrolo, <i>PEUMEP Magahingufahrik Cruhhl & Co. KC</i>		
 Michal Hrala, <i>BEUMER Maschinenfabrik GmbH & Co. KG</i> Increase Usage of AFR and Waste Utilization (115) 		
Dinesh Kumar, R K Sharma and R P Badoni , <i>Birla Corporation Limited</i>		
 4. Handling of Multi type Alternative Fuel : A Challenge and Opportunity for Cement Plant (403) Kapil Kukreja, Anupam, Prateek Sharma and Saurabh Bhatnagar, National Council for Cement and 		
Building Materials		
5. Utilization of Leather Sludge in Cement Manufacture (409) Devender Yadav, Suresh Palla, S Vanguri, Munish Kumar, S K Chaturvedi, B N M	Iohapatra, National	
<i>Council for Cement and Building Materials</i>6. Fly Ash and Eggshell utilization in Portland cement (60)		
Mukesh Kumar, S K Saxena, S K Wali and N B Singh, JK Lakshmi Cement Ltd		
7. Use of De-carbonated Material 'LD SLAG' in the Manufacture of Portland Clinker (417))	
S K Agarwal, Varsha Liju, S K Chaturvedi and B N Mohapatra, National Council for	or Cement and Building	
Materials		
Nabonita Das, A K Gupta, Subhdra Sen and R V Ramna, Tata Steel Limited, JamshTECHNICAL SESSION – II BAshoka Convention Hall	1645 h to 1800 h	
PORTLAND, BLENDED AND SPECIAL CEMENTS – II	1045 II to 1600 II	
1. Use of High Phosphate Limestone in Cement Manufacture – A Case Study (76)		
M V Karandikar and Ashish Prasad, ACC Limited		
2. Effect of LD Slag on the Physical Performance of Composite Cement (433)		
Giasuddin Ahamed, Varsha Liju, S K Chaturvedi and B N Mohapatra , National Con Building Materials	uncil for Cement and	
3. Cost Saving by Optimization/uses of Overburden Limestone of Mines in Clinkerization w	ithout affecting the	
Clinker quality (91)		
Pankaj Kejriwal, S P Shrimali, Y K Singh, S K Pandey and Sanjay Chaurasia, Star C		
4. Investigations on Improving the Performance of Composite Cement by Separate Grinding Varsha Liju, Giasuddin Ahamed, P Pandey, S K Chaturvedi and B N Mohapatra, Na and Building Materials		
5. Reduction in LSF of Lime Stone Pile at Chanderia Cement Works Plant (112)		
Dinesh Kumar, D Banerjee and K K Singh, Birla Corporation Limited		
6. Investigation on Mechanical Properties of Portland Limestone Cements Prepared Using D (418)	ifferent Grade Limestone	
J P Vrati, K V Singh, A K Raykundalia and B C Pandey, Ambuja Cements Limited		
S K Agarwal, S K Chaturvedi and B N Mohapatra , <i>National Council for Cement and I</i>	Building Materials	
 7. Increase Utilization of Fly Ash in PPC at Chanderia Cement Works Plant (109) Dinesh Kumar, D Banerjee, D C Jagetiya and Narpat Anjana, Birla Corporation Lim 	iited	
8. Composite cement & its advantage (73)	uicu	
M. K. Kapoor, Vivek Agnihotri,		
Wednesday, 04 December 2019	Γ	
TECHNICAL SESSION – III A Zorawar Auditorium	0900 h to 1045 h	
CEMENT PLANT MACHINERY AND PROJECT ENGINEERING		
1. Technology up gradation & modernization for Inbound & Outbound vehicle (25)		
Manoranjan Sahoo and Santanu Giri, Dalmia Cement (Bharat) Ltd		
2. Mechanized Solution For Hdpe Bags (Bag Feeding & Loading (42)		
Vikesh Singh , <i>FLSmidth Private Limited</i>		
 Sampling and Safe Unloading Procedure Of Carbon Black/Fly Ash (30) A V Nagaraja and Naresh Singh, Dalmia Cement (Bharat) Ltd 		
 4. System Design - Optimization in Grinding and Pyro processing system (46) 		
4. System Design - Optimization in Grinding and Pyro processing system (46) Sivakumar Natesan, <i>FLSmidth Private Limited</i>		
 5. Mitigating Effects of Harmonics on Power System in Cement Industry (38) 		
S. Peddanna and R P Singh, ERCOM Engineers Pvt. Ltd		
 Paper on Optimizing the Fan Power of Vertical Roller Mill (Raw Mill) through Modific 	ation in Louver Ring (118)	

	 Rajpal singh Shekhawat, Pankaj Tiwari and Manish Vijay, J 7. Technologies for Upgradation & Modernization of Pollution Compared and Compared		
8	Henrik Vittrup Pedersen, Flemming Jensen and Unmesh Ch KHD Cooling Lines: PFC2 & PSC2 Cooler (102)	nandran, FLSmidth Aut	omation India
0.	Andre Sybon, KHD Humboldt Wedag, Cologne, Germany		
	Ravi Saksena and Anurag Johari , Humboldt Wedag, India Pvt I	Ltd	
	9. State of the Art Cooler replacement - flexible, quick, efficient		
	Ingmar Holst, Claudius Peters		
		oka Convention Hall	0900 h to 1045 h
	MERGING TRENDS- I		
1.	Uncoaler/Activator Feeder for Coal Extraction (82)		
	K.S.Nalwaya and Jogesh Narula, KSN Tech Ventures Pvt Ltd, Yong Wei, General Kinematics - Crystal Lake, Chicago Area, US	С Л	
2.	• • •	JA	
2.	Shrivats singhania, S K Wali and Mukesh Kumar, JK Lakshr	mi Cement Limited	
3.	New Technologies by ATS-Group for Alternative Solid Fuels Har		
	Luc Rieffel, ATS Conveyors India Pvt. Ltd.		
4.	Development of Belite Calcium Sulpho-Aluminate Cement using	Low Grade Limestone	and Industrial Waste
	(Jarosite). (412)		
	G J Naidu, Suresh Palla, S Vanguri, Varsha Liju, S K Chatury	vedi and B N Mohapa	tra, National Council for
5.	Cement and Building Materials India Advances in Concrete Paving Two-Layer Technology (133)		
5.	R K Jain, DCRUST)	
6.			
7.	Anupam Badola and Ashwani Pahuja, <i>Dalmia Cement (Bharat)</i> New Development for time saving - Calde RDS-PRE-Cast-Pre-Fin		
8.	· ·		erature Ionic Liquid of
0.	Cao-Sio2-Al2o3-Fe2o3-Mgo System (67)	fination of fingh temp	citatare forme Enquita of
	Tazuddin and Amit Chatterjee, Aditya Birla Science & Technol	logy Pvt. Ltd.	
9.	Improvement of Ash Quality Through Chemical/Mineral Doping	in Coal During its Gene	
	Suresh Palla, G J Naidu, S Vanguri, Giasuddin Ahamed, S K	Chaturvedi, National	Council for Cement and
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T	Building Materials		
Те	Building Materials ea/Coffee		1045 h to 1115 h
	ea/Coffee	Arawar Auditarium	1045 h to 1115 h
	ea/Coffee ECHNICAL SESSION – IV A Z	Zorawar Auditorium	1045 h to 1115 h
T	ea/Coffee ECHNICAL SESSION – IV A Z ADVANCES IN GRINDING SYSTEMS-I	Zorawar Auditorium	1045 h to 1115 h
T	ea/Coffee ECHNICAL SESSION – IV A Z ADVANCES IN GRINDING SYSTEMS-I Grinding Process Optimization Levers to Pull (3)		1045 h to 1115 h
T]	ea/Coffee Z ECHNICAL SESSION – IV A Z ADVANCES IN GRINDING SYSTEMS-I Z Grinding Process Optimization Levers to Pull (3) Caroline Woywadt and Bernd Henrich, Gebr. Pfeiffer SE, Kaise		1045 h to 1115 h
T]	ea/Coffee Z ECHNICAL SESSION – IV A Z ADVANCES IN GRINDING SYSTEMS-I Z Grinding Process Optimization Levers to Pull (3) Caroline Woywadt and Bernd Henrich, Gebr. Pfeiffer SE, Kaise Operations and Maintenance of HPGR Rolls A Case Study (7)		1045 h to 1115 h
T]	ea/Coffee Z ECHNICAL SESSION – IV A Z ADVANCES IN GRINDING SYSTEMS-I Z Grinding Process Optimization Levers to Pull (3) Caroline Woywadt and Bernd Henrich, Gebr. Pfeiffer SE, Kaise		1045 h to 1115 h
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	s Roads (124)		
3. White Topping: Cement Concrete Overlay on Bituminous Roads (124) Binod Kumar, CSIR-Central Road Research Institute, New Delhi,			
4. Partially Calcined Lime Sludge in Cement Mortar: An Environmental Friendly Approach (129)			
Prabhat Vashistha and S K Singh, CSIR-Central Building Research Institute, Roorkee			
5. Experimental Investigation of Ferrochrome Slag as Aggregate in Concrete (439)			
P N Ojha, Nikhil Kaushik, Vaibhav Chawla, National	l Council for Cement and Buildi	ng Materials	
6. Utilization & Impact of Wet Flyash (28)			
V J Mitra, Naresh Singh and K Karunakara Rao, Da			
7. Separation of Different Type of Slag by Magnetic Pulle			
A Chandilyan, V J Mitra, K Karunakar Rao, N V Pr		Cement (Bharat) Ltd	
8. KHD Pyro Process: Approach for Low Carbon Roadma			
Jens Breidenbach and Andreas Hand, KHD Humbold	dt Wedag, Cologne, Germany		
Anurag Johari, Humboldt Wedag India Pvt. Ltd.			
LUNCH		1315 h to 1400 h	
TECHNICAL SESSION – V A	Zorawar Auditorium	1400 h to 1545 h	
ADVANCES IN GRINDING SYSTEMS-II	(1, 1, 2, 2, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,		
1. Product Optimization by Using Grinding Aid at Prism J			
Pravesh Kumar Sharma, Ghanshyam Mishra, Ragh			
 Manish Kumar Singh and Manoj Kumar Jha, <i>PRISM</i> Energy Efficient VRM Technology for Cement and Slag 		(Division)	
Y Shigemoto and T Hinauchi, UBE Machinery Corpo			
R K Sharma , AMCL Machinery Ltd.			
 HEXADUR® in Cement Industry - 25 years of Operation 	on with HEXADUR® Protected	HPGR Rollers (96)	
 A. Single Roller Press Circuits: Stepping into Large Capacity 		III OK Kollers (90)	
York Reichardt, KHD Humboldt Wedag, Cologne, Ger	•		
A K Dembla and Vanam Venkatesh, Humboldt Weday	-		
5. Consolidated Journey of More than 100 Roller Presses i			
Balesh Singh, PVR Murthy, Atul Johri and Vimal Si		ot Ltd	
6. Roller Press in Finish Mode for Composite Cements: Fr	0		
A K Singh, Balesh Singh, Saida Shaik and Akshay Si			
7. JSW Green Foot Prints: Experiences with KHD Roller I	0		
G Veera Babu, JSW Cement Limited, India			
A K Dembla, Prakash Patil and Deepti Varshney, Humboldt Wedag India Pvt. Ltd.			
 A K Dembla, Prakash Patil and Deepti Varshney, Hi 8. Increase Throughput of Cement Mills at Chanderia Cem 			
	nent Works Plant (110)		
 Increase Throughput of Cement Mills at Chanderia Cem Dinesh Kumar, D C Jagetiya and Narpat Anjana, Bi TECHNICAL SESSION – V B 	nent Works Plant (110) <i>The Corporation Limited</i> Ashoka Convention Hall	1400 h to 1545 h	
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4.	Increase of Kiln-2 Throughput By 300 Tpd (20)		
	Lokesh Bahety and Rakesh Nayak, Dalmia Cement (Bharat) Ltd		
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	Manoranjan Sahoo, Dalmia Cement (Bharat) Ltd		
	Sougata Mahanti, Bengal Cement Works		
6.			
	Lokesh Bahety and Debi Prasad Das, Dalmia Cement (Bharat) Ltd		
7.		mprovements for the	
	polysius preheater system and the polysiuspolytrack® clinker cooler (41)		
	Sebastian Frie, ThyssenKrupp Industrial Solutions AG, Germany		
8.	8. Optimization of Raw Gridning Roller Press at Chanderia Cement Works Plant (111)		
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	AL QUALITY MANAGEMENT		
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	O P Agrawal, <i>Qualman Consultancy Services</i>		
2.	Excellence in Quality Management System through PDCA Model-An Enabler of bu		
	R Rajamohan, K Vinayagamurthi and R A Krishnakumar, Dalmia Cement (Bh	-	
3.	How to achieve stability in Quality and Process using advance predictive lab technic	ques (49)	
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4.	Market Study - Approach and Methodology for Cement Industry (39)		
_	Rahul Kumar Sadhu and Sharad Prahlad Aggarwal, ERCOM Engineers Pvt. Lt.	d	
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6	S K Gupta, Holtec Consulting Private Limited	(102)	
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7.	Raksha Rajani D Souza, Lavanya A R and Umesh R, N.M.A.M. Institute of Tech	nolom	
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9.	Materials Role of Calibration in Managing Measurement Risk and Decision Rule (447)	or Cement and Building	
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J P Nayak, B Ghosh, R Adhikari, R Dey, A Tripathy, Refractories Limited	S Sengupta and P B Pand	la , TRL Krosaki
	Ashoka Convention Hall	0900 h to 1045 h
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1. Importance of calibration standard, sample preparation an	d evaluation of analysis resu	ults in XRF analysis in
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 Mineralogical and Microscopy Techniques as Effective D Monitoring in Cement Manufacturing Process (74) 	Tagliostic 1001101 Flocess C	
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4. The Influence of Chemical and Mineralogical Variability A Sadangi, M Kuchya, A K Singh, K Suresh Raju Go		
5. Chemical Composition and Bond Work Index of Limeston	ne – Correlation (416)	
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Suresh Kumar Shaw, V Naga Kumar, Abhishek Agnih Building Materials	notri and P N Ojha, Nation	al Council for Cement and
 Mineralogical and Microscopy Techniques as Effective D Monitoring in Cement Manufacturing Process (75) 	iagnostic Tool for Process C	Control and Quality
Bjiu Mathew and M.V Karandikar, ACC Ltd.		
8. Deployment of Cold Fog Systems & Other Technologies	for Fugitive Dust Control in	Cement Plants: A Case
Study. (123)	C	
S Chakravarti and U S Chakravorti, Ecodea Projects &		
9. Determination of fly ash parameters to develop a simple	and effective blending tech	nique to reduce the
variation in fly ash concretes. (138)		
Satya Medepalli, Shashank Bishnoi, Indian Institute o	f Technology Delhi	
Satya Medepalli, Shashank Bishnoi, Indian Institute o Tea/Coffee	f Technology Delhi	1045 h to 1115 h
Tea/Coffee		-
Tea/Coffee TECHNICAL SESSION – VIII A	f Technology Delhi Zorawar Auditorium	1045 h to 1115 h 1115 h to 1315 h
Tea/Coffee	Zorawar Auditorium	1115 h to 1315 h
Tea/Coffee TECHNICAL SESSION – VIII A ENERGY CONSERVATION SYSTEMS-I	Zorawar Auditorium Footprint in Cement Plants (1115 h to 1315 h
Tea/Coffee TECHNICAL SESSION – VIII A ENERGY CONSERVATION SYSTEMS-I 1. False Air Reduction- The Method of Reducing Carbon F K K Sharma, Invotech Industrial Solutions Private Lime 2. IMPROVED ENERGY EFFICIENCY IN CPP (18)	Zorawar Auditorium Footprint in Cement Plants (<i>ited</i>	1115 h to 1315 h
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 Tea/Coffee TECHNICAL SESSION – VIII A ENERGY CONSERVATION SYSTEMS-I 1. False Air Reduction- The Method of Reducing Carbon F K K Sharma, Invotech Industrial Solutions Private Lim 2. IMPROVED ENERGY EFFICIENCY IN CPP (18) K A Mathew and Narendra Prasad Barik, Dalmia Ce 3. COOLER ESP EFFICIENCY EHNHANCEMENT (19) K A Mathew, Rajesh Chandravanshi, Dalmia Cement 4. Energy Conservation by adapting & Incorporating Energ B Madhu, D Kumaresan and R Rajamohan, Dalmia G 5. Eco-Friendly Transportation of Cement for Construction G V K Prasad, The KCP Limited 6. Reduction in Thermal Energy Consumption at Chanderin Dinesh Kumar, D Banerjee, D C Jagetiya, Narpat Am 7. Role of Captive Power Plants in Achieving P A T Energy Prateek Shrama, MV Ramachandra Roa, V. Venkata Council for Cement and Building Materials 8. Study of empirical relation between proximate analysis of Jishnu Devan Sankaran, Century Textiles & Industries 9. Energy Audit of Waste Heat Recovery Systems of Cement 	Zorawar Auditorium Footprint in Cement Plants (<i>ited</i> <i>ment (Bharat) Ltd</i> <i>t (Bharat) Ltd</i> <i>g efficient Technologies an</i> <i>Cement (Bharat) Ltd</i> <i>n of Amaravati Capital – Cas</i> <i>a Cement Works Plant (113</i> <i>njana, R K Dwivedi, Birla G</i> <i>y Targets for Indian Cemen</i> <i>esh, Ashutosh Saxena, Dr.</i> data and gross calorific valu <i>t Ltd. (Cement Division)</i> <i>ent Plants in India: Case stud</i> <i>oa, KPK Reddy, Ashutosh</i>	1115 h to 1315 h 01) od operations (23) se Study (64)) <i>Corporation Limited</i> t Industry (407) B N Mohapatra , National e of coal (135) dies (408)
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 Tea/Coffee TECHNICAL SESSION – VIII A ENERGY CONSERVATION SYSTEMS-I 1. False Air Reduction- The Method of Reducing Carbon F K K Sharma, Invotech Industrial Solutions Private Lim 2. IMPROVED ENERGY EFFICIENCY IN CPP (18) K A Mathew and Narendra Prasad Barik, Dalmia Ce 3. COOLER ESP EFFICIENCY EHNHANCEMENT (19) K A Mathew, Rajesh Chandravanshi, Dalmia Cement 4. Energy Conservation by adapting & Incorporating Energy B Madhu, D Kumaresan and R Rajamohan, Dalmia G 5. Eco-Friendly Transportation of Cement for Construction G V K Prasad, The KCP Limited 6. Reduction in Thermal Energy Consumption at Chanderin Dinesh Kumar, D Banerjee, D C Jagetiya, Narpat Am 7. Role of Captive Power Plants in Achieving P A T Energy Prateek Shrama, MV Ramachandra Roa, V. Venkata Council for Cement and Building Materials 8. Study of empirical relation between proximate analysis of Jishnu Devan Sankaran, Century Textiles & Industries 9. Energy Audit of Waste Heat Recovery Systems of Cemen Prateek Shrama, Ankur Mittal, MV Ramachandra R Mohapatra, National Council for Cement and Building 	Zorawar Auditorium Footprint in Cement Plants (<i>ited</i> <i>ment (Bharat) Ltd</i> <i>t (Bharat) Ltd</i> <i>g efficient Technologies an</i> <i>Cement (Bharat) Ltd</i> <i>n of Amaravati Capital – Cas</i> <i>a Cement Works Plant (113</i> <i>njana, R K Dwivedi, Birla G</i> <i>y Targets for Indian Cemen</i> <i>esh, Ashutosh Saxena, Dr.</i> data and gross calorific valu <i>t Ltd. (Cement Division)</i> <i>ent Plants in India: Case stud</i> <i>oa, KPK Reddy, Ashutosh</i>	1115 h to 1315 h 01) od operations (23) se Study (64)) <i>Corporation Limited</i> t Industry (407) B N Mohapatra , National e of coal (135) dies (408)
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 Tea/Coffee TECHNICAL SESSION – VIII A ENERGY CONSERVATION SYSTEMS-I 1. False Air Reduction- The Method of Reducing Carbon F K K Sharma, Invotech Industrial Solutions Private Lim 2. IMPROVED ENERGY EFFICIENCY IN CPP (18) K A Mathew and Narendra Prasad Barik, Dalmia Cee 3. COOLER ESP EFFICIENCY EHNHANCEMENT (19) K A Mathew, Rajesh Chandravanshi, Dalmia Cement 4. Energy Conservation by adapting & Incorporating Energy B Madhu, D Kumaresan and R Rajamohan, Dalmia C 5. Eco-Friendly Transportation of Cement for Construction G V K Prasad, The KCP Limited 6. Reduction in Thermal Energy Consumption at Chanderi: Dinesh Kumar, D Banerjee, D C Jagetiya, Narpat Am 7. Role of Captive Power Plants in Achieving P A T Energy Prateek Shrama, MV Ramachandra Roa, V. Venkate Council for Cement and Building Materials 8. Study of empirical relation between proximate analysis of Jishnu Devan Sankaran, Century Textiles & Industries 9. Energy Audit of Waste Heat Recovery Systems of Cemen Prateek Shrama, Ankur Mittal, MV Ramachandra R Mohapatra, National Council for Cement and Building 	Zorawar Auditorium Footprint in Cement Plants (<i>ited</i> <i>ment (Bharat) Ltd</i> <i>t (Bharat) Ltd</i> <i>gy</i> efficient Technologies an <i>Cement (Bharat) Ltd</i> <i>n</i> of Amaravati Capital – Cas a Cement Works Plant (113 njana, R K Dwivedi, <i>Birla G</i> <i>y</i> Targets for Indian Cemen esh, Ashutosh Saxena, Dr. data and gross calorific valu <i>t Ltd. (Cement Division)</i> ent Plants in India: Case stuc oa, KPK Reddy, Ashutosh <i>Materials</i> Ashoka Convention Hall Isonry Application (65)	1115 h to 1315 h 01) od operations (23) se Study (64)) <i>Corporation Limited</i> t Industry (407) B N Mohapatra, National e of coal (135) dies (408) 1 Saxena and B N 1115 h to 1315 h

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2.	. A Sustainable Mix Proportioning Method for Coal Bottom Ash Concrete Based on Minimum Paste Theory. (126)		
	S K Kirthika and S K Singh, CSIR-Central Building Research Institute, Roorkee		
3.	Synergy of micro slag in high volume flyash concrete (16)		
0.	Praveen Kumar , <i>Rajasthan Technical University</i> ,		
	Zafar Ahmed Sultani, NHAI Godhra Gujrat.		
4.	Mechanical and Durability Properties of Concrete Made with Low OPC Content and High	th SCM's (123)	
т.	V V Arora, Puneet Kaura and Piyush Mittal, National Council for Cement and Buildi		
5			
5.	Evaluation of Durability Features of Concrete Composed With Low Carbon Cements (34	F)	
	V H Choudary and P Anantham, My Home Industries Private Limited,		
	Subrata Chowdhury, Conmat Technologies India		
6.	Investigations on Portland Limestone Cement Compositions and their Performance Char	· · · · · · · · · · · · · · · · · · ·	
	Pinky Pandey, D Yadav, K Sharma, S K Chaturvedi and B N Mohapatra, National	Council for Cement and	
	Building Materials		
7.	The Influence of Temperature on The Hydration and Strength Development in Slag-Fly A	Ash Composite Cements	
	(127)		
	Sreejith Krishnan, Meenakshi Sharma and Shashank Bishnoi, Indian Institute of Tea	chnology, Delhi	
LU	JNCH	1315 h to 1400 h	
ТБ	CCHNICAL SESSION – IX A Zorawar Auditorium	1400 h to 1545 h	
	VERGY CONSERVATION SYSTEMS-II	1400 II to 1343 II	
1.	Green Energy for Cement Plants (5)		
	Anmol Mudholkar, Thyssenkrupp Industries India Pvt. Ltd.		
2.			
	Mogens Juhl Fons, Fons Technology International		
3.			
	Rajesh Kumar Gupta- Individual		
4.	Opportunities for Improving Energy Efficiency in Bag Filter Systems (88)		
	Dilip Sakhpara and Umair Sayyed, Maxtech Industries LLP		
5.	A Study of Thermal Impact on the Mineralogy of China Clay & its compatibility with L	Limestone Rejects (89)	
	Jai Prakash Vrati, Kamal Virendra Singh, Ashwin K Raykundaliya and B C Pand		
	S K Agarwal, S K Chaturvedi, B N Mohapatra, National Council for Cement and Bu		
6.			
0.	Devendra Kumar Patel, JK Super Cement		
7	Assessment of Compressor Energy Consumption in Cement Plant - A Case Study (406)		
/.	Ankur Mittal, Saurabh Bhatnagar and Ashutosh Saxena, National Council for Cen		
	Materials	ieni una Duitaing	
Q	Utilization and Recovery Methods of Waste Heat in Cement Plant (431)		
0.	•	and Building Materials	
	Ankur Mittal, Ashutosh Saxena and B N Mohapatra, National Council for Cement	0	
	CCHNICAL SESSION – IX B Ashoka Convention Hall		
CC	DNCRETE DETERIORATION MECHANISMS AND REINFORCEMENT CORRO		
1.			
	Vikas Patel, V V Arora, Brijesh Singh, Megha Kalra and Sahara Adhikari, Nation	al Coucnil for Cement	
	and Building Materials		
2.			
	Arun C Emmanuel, Riya Anilkumar, Gopala Rao Dhoopadahalli and Shashank B	Sishnoi, Indian Institute of	
	Technology Delhi		
3.	Assessment of mechanical and mineralogical properties of concrete dams in India (443))	
	V V Arora, Brijesh Singh, Shubham Jain, Vikas Patel & Pramod Narayan, Nationa		
	and Building Materials	5	
4.		2)	
	Mainak Ghosal and Arun Kr Chakraborty, Indian Institute of Engineering Science	-	
5.	•		
5.	Rheological Properties of Mortar and Concrete (440)	Water Demand and	
	P N Ojha, G J Naidu, Suresh Palla and Piyush Mittal, National Council for Cement	and Building Materials	
6.		ing rowers (IDC1s)	
	located in different climatic regions of India- A case study (424)		
	TVG Reddy, Sanjay Mundra and Rizwan Anwar, National Council for Cement and		
7.	Performance Analysis of In-Service RC Members of Turbo Generator in India -	A Comparative Study of	
	Service Life Assessment (444)		
	Sanjay Mundra, TVG Reddy and Naman Agarwal, National Council for Cement an	d Building Materials	
Те	a/Coffee	1545 h to 1615 h	

TECHNICAL SESSION – X A	Zorawar Auditorium	1615 h to 1800 h
ENVIRONMENTAL MANAGEMENT AND SUSTAINAL		
1. Technological up-gradation & sustainability initiatives (3.		
Manoranjan Sahoo and Ahmer Ali Khan, Dalmia Cen		
2. Improved Low NOx Calciner (48)		
Ram Kumar Sridharan, FLSmidth Private Limited		
3. CPP-De-SOx System (79)		
Sushil Kumar Paneri, Amubuja Cements Ltd		
Umashankar Srinivasan and Vinod Mishra, Maratha	Cement Works	
4. NOx Reduction through Primary & Secondary Measures a		
Rajpal singh Shekhawat, Pankaj Tiwari and Kanish S		T LTD.
5. Maximum Utilisation Of Low Grade Limestone In Cemer		
Anil Singh and Tushar Ghorai. KJS Cement (1) Ltd, Ma	ihar	
6. Dust Control in Construction Projects (119)		
Lavanya A R and Raksha Rajani DSouza, N.M.A.M. Ir		
Umesh R , Rohini Project Management Consultants Pvt L		
7. Practical approach to CSR journey in cement manufacturi	ng (36)	
Mangleshwar Nath Verma, Knight Synergy GT LLC	Dealers Off 1 1 1 1	Less Carl L'
8. Effect of Different Dopants on the Belite Phase Formation (414) - Dropped	During Clinkerisation using	Low Grade Limestone
TECHNICAL SESSION – X B	Ashoka Convention Hall	1615 h to 1800 h
DISTRESS INVESTIGATION, REPAIR/ STRENGTHEN		
STRUCTURES		concidite
1. Geokrete- An Ideal Phosphosilicate based Binder for Con	crete Repair and Rehabilitatio	on (69)
N Ramkumar, Natural Cemeco Private Limited	-	
2. Laboratory test method for evaluating corrosion inhibiting	efficiency of admix type bip	olar corrosion inhibitor
(438)		
Puneet Kaura, P N Ojha, Piyush Mittal, V V Arora, A		
3. Case Studies on Repair of Concrete Dam in Himalayan Re		
 P N Ojha, Suresh Kumar, Digvijay Kumar, V V Arora 4. Performance Evaluation of Polymer Modified Mortar and 		
 Performance Evaluation of Polymer Mounted Mortal and Puneet Kaura, Y N Dainel, Nitesh Kumar, TVG Reddy 	66	1 . ,
5. Experimental Study on the Flexural Behaviour of Retrofit		n and Dunaing Materials
Aastha Singh, R R Singh, PEC University, Chandigarh		
6. Experimental investigations on fiber reinforced self-leveli	ng pavement quality concrete	(POC) for use in partial
depth repairs of cement concrete pavements in urban area		
D Pavan Kumar, J Narsimha Rao, P N Ojha, B Sreeni	vas Rao, Adarsh Kumar NS	, National Council for
Cement and Building Materials		
	1 4040	
Friday, 06 Dece		0000 h 4a 1045 h
TECHNICAL SESSION – XI A ENVIRONMENTAL MANAGEMENT AND SUSTAINAI	Zorawar Auditorium	0900 h to 1045 h
1. Optiwave Pulse Cleaning (Owpc) Technology For Lor		
T Venkat Naresh and S B Aradhya , <i>Clair Engineers P</i>		a.
2. Our Journey on Water Positivity- Working towards fu		
R Rajamohan, K Vinayagamurthi and R A Krishnaku		
3. Pulsed Radio Wave Technology for Mitigation of Am		
Srikanth Sola, Sai Lakshmi Industries		
4. Assessment of SO2 Generation and Mitigation Measure		•
Anand Bohra, KPK Reddy, KRP Nath, Anupam, Ashu	itosh Saxena and B N Moha	apatra, National Council
for Cement and Building Materials		
Pankaj Kejriwal, A K Sinha, S P Shrimali, S K Kulshr	estna, Y K Singn, B L Sutha	ar , Star Cement Limited,
<i>Meghalaya</i>5. Best Engineering practices: An important tool for attain	ning high and sustainable TO	\mathbf{R} (AOA)
M V Ramachandra Rao, Anupam, Anil K Popuri, Kaj		
Cement and Building Materials,	a municipa una majeos Ann	 1 milling Comicit joi
6. Review of Carbon Capture and Utilization efforts mad	e in Cement Industry (445)	
Anand Bohra, K P K Reddy, Prateek Sharma, A Sa		National Council for
Cement and Building Materials	L ····	0
7. Usage of ammonium carbonate in place of aq. Ammon		
K Subbulakshmanan, Vijay Chauhan, Keshav Kat	· · · · · · · · · · · · · · · · · · ·	hu Chauhan, Sunil
Kothari Sukuru Ramarao Ambuja Coments Limited	l Ambujanagar	

Kothari, Sukuru Ramarao, Ambuja Cements Limited, Ambujanagar,

TECHNICAL SESSION – XI B Ashoka Convention Hall 0900 h to 1045 h SUSTAINABLE CONSTRUCTION PRACTICES AND USE OF ALTERNATE AGGREGATES AND **GEOPOLYMER CONCRETE** Optimization of Thermo-Mechanical Treatment for Recycling Demolished Concrete (9) 1. Rohit Prajapati and Ravindra Gettu, Indian Institute of Technology, Madras KEYNOTE 2. Characterization of Ladle Furnace Slag for Development of Cementitious Binder (128) Surya M, S K Singh, and Jyoti, Akhil Rana, CSIR-Central Building Research Institute, Roorkee Studies on fly ash and slag based Geopolymer concrete (426) 3. Lalit Kumar, Amit Trivedi and V V Arora, National Council for Cement and Building Materials Lopamudra Sengupta, JSW Cements Ltd 4. Achieving Concrete Sustainability Through Nanotechnology (13) L P Singh, U Sharma, D Ali and Srinivasarao Naik B.CSIR-Central Building Research Institute, Roorkee, India Utilisation of brine sludge in manufacture of building bricks through geopolymerisation process (94) 5. **S D Muduli and N K Dhal,** CSIR- Institute of Minerals and Materials Technology, Bhubaneswar Design and Construction of Low Traffic Volume Concrete Roads Using C & D Aggregates and Supplementary 6. Cementitious Materials (442) Vaibhav Chawla, Amit Trivedi and V V Arora, National Council for Cement and Building Materials **Tea/Coffee** 1045 h to 1115 h 1115 h to 1300 h **TECHNICAL SESSION – XII A Zorawar Auditorium** ENVIRONMENTAL MANAGEMENT AND SUSTAINABLE DEVELOPMENT-III Mitigation of NOx at UltraTech Dhar Cement: A Case Study (37) 1. Sebastian Frie, Anupkumar Das, Thyssenkrupp Industrial Solutions AG, Germany Sustainable Productivity Through Process Optimization & Remote Asset Management - Digital Solutions (44) 2. Sridhar Padmanabhan and Jeyamurugan Kandasamy, FLSmidth Private Limited SOx emission control through installation of Flue gas desulphurization system in captive thermal power plants 3. (40)Tanmay Maitra, D H Thanki and S.K. Gotecha, ERCOM Engineers Pvt. Ltd Continuous Measurement of Particulate Emissions at Stack (87) 4. Vahid Mirsadi, Rushabh Sakhpara and Umair Sayyed, Maxtech Industries LLP 5. NOx Reduction Experiences In Kiln & CPPs of Cement Plant (107) Geet, YARA Environmental Impact of Ammonia on Environment due to its use for Secondary NOx Control in Cement Plant (401) 6. Anand Bohra, Prateek Sharma, M Selvarajan, Ashutosh Saxena and B N Mohapatra, National Council for Cement and Building Materials 7. Energy and occupant Comfort Evaluation for Building (405) Kajol, World Resources Insitute, India Ankur Mittal, Ashutosh Saxena and B N Mohaptra, National Council for Cement and Building Materials Devinder Singh, Indona Innovative Solutions Microstructural development in clinker phases while using waste marble dust powder as a raw mix component. 8. (429)S K Gupta^{*}±, S K Agarwal^{*}, S K Chaturvedi^{*}, B N Mohapatra^{*}, Megha Bansal^{**}, ^{*}National Council for *Cement and Building Materials, India, [±]Manav Rachna University, India, ^{**}Manav Rachna University, India* **TECHNICAL SESSION – XII B** Ashoka Convention Hall 1115 h to 1300 h SUSTAINABLE CONSTRUCTION PRACTICES AND OTHER BUILDING MATERIALS AND BINDERS 1. Fast Track Construction Systems for Affordable Housing – Need of the Hour (84) Shailesh Kr Agrawal, BMTPC 2. Material Efficient Floor System for Housing in India (116) Mohamed Ismail and Caitlin T Mueller, Massachusetts Institute of Technology 3. Characteristics of Indian Bottom Ash and its Feasibility for use as Fine Aggregate in reinforced concrete (435) P N Ojha, Amit Trivedi, Suresh Kumar, Nikhil Kaushik, Digvijay Kumar and V V Arora, National Council for Cement and Building Materials 4. Sustainable Solution For Judicious Use of Flyash From Desulfurization Process and Pondash (51) Alka Mishra, Raja Annamalai and Swaminathan N, Flsmidth Private Limited 5. Fly ash based binding (ADHESIVE) material [B(A)M] (136) Bhupendra Mohan Manglik and Ashish Kumar Pandey, - Individual 6. "Use of High MgO Limestone in Portland Cement Manufacture: An Indian Perspective (122) G C Mishra and K N Bhattacharjee, AKS University, Satna 7. Effectiveness of waterproofing admixtures in low clinker cement mortars (54)

Lav Singh, Ujjwal Kant, Shashank Bishnoi, Indian Institute of Technology Delhi

 A flexible technology to produce gray calcined clays (77) Luiz Felipe de Pinho1, Luis Felipe Von Rainer Fabiani1 and Natália Bernardi Ghisi Celeghini1, 	
Dynamis Engenheria e Comércio, Brasil	
LUNCH	1300 h to 1345 h
CONCLUDING SESSION AND AWARD PRESENTATION	1345 h to 1515 h
Farewell Get-together	1515 h -