



**GLOBAL STONE TECHNOLOGY FORUM**  
INTERNATIONAL STONE CONFERENCE

**POST SHOW REPORT**

December 17-18, 2009, Jaipur



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**INTRODUCTION**

GLOBAL STONE TECHNOLOGY FORUM 2009 (GSTF 09), the International stones conference was jointly organized at SMS Convention Centre, Jaipur during December 17-18, 2009 by Centre for Development of Stones (CDOS) and Federation of Indian Chambers of Commerce and Industry (FICCI).

**SUPPORTED BY**

The event was supported by the following:

- a) MSME, Government of India
- b) Government of Rajasthan
- c) ICAMT, United Nations Industrial Development Organisation
- d) Council of Architecture - COA
- e) IMM Carrara, Italy
- f) Indian Institute of Architects (Rajasthan Chapter) - IIA
- g) Federation of Indian Mineral Industries (FIMI)
- h) All India Granites and Stone Association (AIGSA)
- i) Confederation of Construction Products and Services (CCPS)
- j) Federation of Mining Associations of Rajasthan (FMAR)

## **SPONSORS**

The Ministry of Small and Medium Enterprises (MSME) has approved a financial grant of Rs. 5 lac to the GSTF 09. The Sponsors to the event included RIICO, R K Marble Group, Rajasthan Housing Board, Airport Authority of India and Mahindra World City.

## **DELEGATES**

The event received an encouraging response from stone trade as well as architects and builder fraternity with over 200 delegates comprising chief executives of stone sector companies, technology suppliers, policy makers, architects & civil engineers, stone sector experts/ consultants. Institutional buyers of stones like Indian Railways, Airport Authority of India, Sports Authority of India, Rajasthan Housing Board, JDA etc. Officials from Directorate of Mines & Geology, Rajasthan, Kerala and Nagaland Mineral Development Corporation were also present. Indian Institute of Interior Design, Jaipur Chapter (IIID), Indian Institute of Architects (IIA), Aayojana School of Architecture participating in the event.

## **INAUGURATION**

Global Stone Technology Forum was inaugurated by Mr. Ashok Gehlot, Hon'ble Chief Minister, Rajasthan. Mr. Rajendra Pareek, Hon'ble Minister for Industries Govt. of Rajasthan graced the occasion besides leading

luminaries of the trade & industry and the architectural fraternity. Mr. Sunil Arora, Principal Secretary Industries and Chairman, RIICO & CDOS, Mr. Rajendra Bhanawat, MD, RIICO and many senior officers from Rajasthan Government, representatives of various National and International agencies and also the trade witnessed inauguration of this mega event.



In his inaugural address, Hon'ble Chief Minister, Mr. Ashok Gehlot appreciated the concept of organizing this global conference, which would create awareness amongst the participants and other stakeholders of the industry for adopting best global practices for quarrying, processing and use of stones for various applications. He emphasized on the importance of value addition, need to reduce

wastage during mining and processing, continuous upgradation of technology and building brand equity of Indian stones in global market.

Mr. Rajendra Pareek, Hon'ble Minister for Industries, Government of Rajasthan highlighted the mineral wealth of the state in general and that of dimensional stones in particular. Mr. Pareek emphasized on the need to focus on modernizing mining to make it more competitive.



Hon'ble Industries Minister addressing the Inaugural Session



## **TECHNICAL SESSIONS**

In the technical sessions, leading lights of international stone industry comprising architects, technology suppliers, scientists and researchers, consultants and technical experts deliberated on various pertinent issues. Three overseas experts from Australia and Germany also presented their papers. The schedule of the technical sessions at the forum alongwith a short title of the presentation is as presented in following pages:

## A. TECHNICAL SESSION – I



Speakers	Designation	Details of Presentation
Session Chairman- Ar. Ravindra Bhan	Renowned Architect, New Delhi	Stone Landscaping
Ar. Vani Bhan	Renowned Architect, New Delhi	
Mr. Jim Mann	Testing Expert, Australia	Right Stone for Right Application - How to ensure stone quality for prestigious projects through Testing.
Ar. K. Jaisim	Jaisim Fountainhead Project Pvt. Ltd.	Stone- A Myriad expression – Stones used in natural form for a variety of applications.
Ar. A. Mridul	Renowned Architect, Jodhpur	Celebrating Stones at Birkha Bawari, a water harvesting structure at Jodhpur – Uses of stones as structural element.
Ar. Oscar Concessao & Ar. Ponny Concessao	Renowned Architects, Chennai	Natural Stones in Architecture – Suitability of stones in a variety of applications.



## B. TECHNICAL SESSION – II



Speakers	Designation	Details of Presentation
Session Chairman- Mr. Shiva Prasad Balivada	Founder, Managing Director & CEO, Vi Nanotech, Bangalore	Nanotechnology and stones – Nanotechnology is a molecular level technology that has for the first time been applied in developing coating systems for stones and stone applications
Mr. Helmut Ehnes	General Secretary, ISSA (International Social Security Association) - Mining section	Fair Stone Standards for Mining have been developed for mining safety by ISSA. The presentation covered the safety recommendations of the ISSA standards.
Mr. Gaurav Shorey	Energy Rating Expert, GRIHA, TERI, New Delhi	Green Building Ratings System-GRIHA –need to go back to the Indian tradition of low energy usage in buildings. Griha standards for building ratings supported by the Government of India through subsidies and awards for low energy consumption
Mr. Arvind Devaraj	Director, Stonetech International, Bangalore	Innovative machinery for drilling operations to increase productivity in granite and sandstone quarrying.
Mr. Manish Poddar	Director, Poddar Industrial Consultants, New Delhi	2 mm veneer stone - Architect's Delight – An indigenously developed technology for ready to fix light weight slate.

## C. TECHNICAL SESSION – III





Speakers	Designation	Details of Presentation
Session Chairman – Ar.Kamal S. Malik	Renowned Architect, Mumbai	Stones as a material in Post Modern Architectural projects. Case Studies of projects like Ishanya, American School of Bombay amongst others
Ar.Gurmeet S.Rai	Renowned Architect, Delhi	Conservation approach for Mughal buildings in the Red Fort, Delhi with special reference to the conservation and restoration of decayed stones in old and ancient buildings, and the need for testing for such applications.
Ar. Chirag Jain	Renowned Architect, Mumbai	Architecture of Context with reference to stones
Ar. Sanjay Patil	Renowned Architect, Nasik	Stones as an Architectural Element – Case studies of Basaltic stones used in projects in and around Nasik
Ar. Harendra Bohra/ Ar. Agya Purohit	Renowned Architects, Jodhpur	Stones Of Jodhpur; their qualities, specifications and their renewed significance in contemporary architecture

#### D. TECHNICAL SESSION – IV



Speakers	Designation	Details of Presentation
Session Chairman – Mr.Devaraj	Director, Stonetech International, Bangalore	Indian Granite Industry - A technological vision for the New Millennium through exports of more value added stones.
Mr.Ganesh Kumar Murugan	Vice President, Rising Solutions	IT Solutions in Stone Industry – Special softwares developed to the unique needs of the stone industry
Dr.Elena Sergeev	Director, HSC Consulting, Germany	5Axis High Speed Milling Machines for stoneware to terrific accuracy & very high productivity – a new technology looking for partners in India.
Dr. S.S.Rathore	Mining Expert, MPUAT, Udaipur	Gainful utilization of marble Slurry including solid waste in improving agricultural yield.

## E. TECHNICAL SESSION – V



Speakers	Designation	Details of Presentation
Session Chairman- Mr. Jim Mann	Stone Selection Expert, Australia	Developing a Stone Testing Programme at the pre-quarrying, quarrying, processing and installation stage.
Mr.Chidambaran Raghvan	Consultant, Flow International Corporation	Water jet Cutting technology for ready to fix flooring medallion inserts.
Mr. Kishore Govani	Hitek fine Chemicals Pvt. Ltd., Bangalore	Polishing and Sealing solutions to the drawbacks & limitations of various natural stones with regard to their performances & finishes
Mr. Madhav Singh Chauhan	Expert on Composite Stone Panels, Jaipur	Honey Comb Aluminium Composite Panels with stone veneers – a low weight application of stones suitable for high rise buildings and custom made window and door panels.
Dr. Anurag Mishra	Prof. & Head, Structural Engineering Department MNIT, Jaipur	A report on stone waste utilization in <ul style="list-style-type: none"> <li>• Road Construction</li> <li>• Self compacting Concrete</li> </ul>

## F. TECHNICAL SESSION – VI



<b>Speakers</b>	<b>Designation</b>	<b>Details of Presentation</b>
Ar. Christopher Charles Benninger	Director, Design Studio, Christopher Charles Benninger Architects	Case Study of the applications of stones in the new capital buildings of Burma.
Mr. Ramprasad Akkiseti	Managing Director, Design Studio, Christopher Charles Benninger Architects	Case Study of India House - Pune
Ar. Ravi Punde	Renowned Architect, Gurgaon	New Frontiers for Stone Applications in Architecture
Ar. Bobby Mukherjee	Renowned Architect, Mumbai	Case Studies of Stone Applications in BMA projects (including Le Meridian, New Delhi)
Ar. Pushkar Kanvinde	Renowned Architect, Pune	Stone for Green and sustainable development – Why Stones score over other materials
Ar. Sathya Prakash Varanashi	Sathya Consultants, Bangalore	Living with Stones – The relevance of stones in construction.

It may be noted that during the first and second edition of the GSTF, architects had demanded production of low weight stone products for applications in high rise buildings and in the GSTF the industry presented their development of such innovative products like the 2 mm veneer stones and Aluminium Honey Comb Composite Panels of Stones which would be in great demand in the times to come and will find numerous applications in future projects.

The Architectural luminaries highlighted various applications of stone in their work through audio-visual presentations and deliberated on issues pertaining to usage of stones as architectural element. Preservation, restoration and global best practices of using stones in modern buildings as well as in landscaping were the major deliberation points. Majority of the architects showed their fascination for using stones in various projects and highlighted the tremendous potential, provided they get material as per required specification, quality and quantity.

The Forum provided an opportunity to the trade delegates to interact directly with the architects for fruitful business interaction during the breaks between the sessions.

### **VALEDICTORY SESSION**

In the Valedictory Session, major attraction was presentation of first All India Stone Architectural Awards (AISAA-2009) to the winning entries. It may be mentioned here that a gallery of the 29 entries of AISAA 09 was made at the GSTF venue for perusal by delegates. Mr. R K Gupta, Chief Executive Officer, CDOS gave a brief introduction of Awards as well as



eminent panel of Jury. Ar Ravindra Bhan, Chairman of Jury for AISAA 09 presented the Jury report and announced the winners in various categories. The awards were given to Architect A. Mridul in the exteriors category for his project of rainwater harvesting- Birkha Bawari at Jodhpur and to Architect Gaurav Bhatnagar of Jaipur for Anokhi Shop project in the interiors category. Architect Jayant Dharap of Pune was given a special commendation in the landscaping category. The awards including Cash prize, Trophy and a Citation were presented by Hon'ble Industries Minister, Mr. Rajendra Pareek.







Hon'ble Industries Minister addressing the Valedictory Session

In his valedictory address, Mr. Pareek lauded the efforts of CDOS in organizing the GSTF 09 and in instituting the annual stone architectural awards. He was of the view that such efforts would create awareness amongst architect's fraternity and also act as a catalyst in increasing the use of stones in various forthcoming projects. Mr. Pareek ended his address by highlighting the immense qualities of stones and remarking that like Diamonds, '*Stones are Forever*'

## CONCURRENT DISPLAYS

### A) GALLERY OF ALL INDIA STONE ARCHITECTURAL AWARDS (AISAA 09)



## B) BOOTHS OF SPONSORS



## **CONCUSIONS AND RECOMMENDATIONS**

The GSTF09 was instrumental in generating an interaction between users and producers of stones and as a result, the following issues emerged:

- a) Stones are the answer to today's need for Green Buildings and are more energy and resource efficient than other building materials. Hence they need to be promoted amongst architects for a sustainable environment
- b) Stone Sample kits may be provided to architectural colleges to make the young architects more aware about stones.
- c) Capacity Building efforts must be taken to increase the skills of stone industry with respect to IT Communication tools and usage of CAD.
- d) There should be regular interaction between Architects and Stone Producers to make each other more aware of the needs and possibilities.
- e) Promote the need for testing for selection of stones in restoration projects alongwith R & D projects on stone restoration.