

Organiser



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**GLOBAL STONE TECHNOLOGY FORUM
INTERNATIONAL STONE TECHNOLOGY CONFERENCE**

POST SHOW REPORT

May 3 - 4, 2023, Rajsamand



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INTRODUCTION

The 9th edition of GLOBAL STONE TECHNOLOGY FORUM (GSTF)- the International Stone Technology Conference was jointly organized by Centre for Development of Stones (CDOS), Rajasthan State Industrial Development & Investment Corporation Ltd. (RIICO) and Federation of Indian Chambers of Commerce & Industry (FICCI) with the assistance from Ministry of Micro, Small and Medium Enterprises, Government of India (MSME) at the Conference Hall, Marble Gangsaw Association, Rajsamand during May 3 - 4, 2023.

INAUGURATION

The event was inaugurated by Dr. C. P. Joshi, Hon'ble Speaker Rajasthan Vidhan Sabha on 3rd May, 2023. On this occasion Smt. Deepti Kiran Maheshwari, MLA, Rajsamand, Shri Shivprasad Nakate, MD, RIICO; Shri Sandesh Nayak, Director, Mines and Geology, Rajasthan, Shri Neelabh Saxena, Collector Rajsamand, Shri Ravi Sharma, President, Marble Gangsaw Association, Rajsamand, Shri Mukul Rastogi, CEO, CDOS, Shri Prakash Pokharna, Consultant, CDOS and Shri Balvinder Singh Sawhney, Assistant Secretary General, FICCI, Speakers and delegates were also present.



Lighting the Lamp Hon'ble Speaker, Rajasthan Vidhan Sabha Dr. C.P. Joshi





SPEAKERS AND DELEGATES

GSTF 2023 witnessed technical paper presentations and address by 29 eminent speakers including 4 overseas speakers from different fields of Natural Dimensional Stones sector and architecture. It was attended by 257 delegates comprising of Stone Quarry owners and Processors, Stone Exporters, Machinery Manufacturers, Tools Manufacturers, Abrasives, Chemicals and other consumable manufacturers, Architects, Builders, Civil Engineers, Interior Designers etc. from Rajsamand, Udaipur, Jodhpur, Jalore, Jaipur, and other stone clusters.

The main focus of the conference was on the following key areas:

- Innovative and latest mining and processing equipment and technologies
- Robotic Technology in stone processing/ value addition
- CNC and Water Jet cutting Machines and other value added machines
- Multi wire processing machines for granite processing
- Machines for block handling and transportation
- Material handling solutions
- Advancements in Resin plants and Line polishing machines
- Latest surface finishes and technologies/ equipment for achieving the same
- Gainful utilization of Stone wastes & slurry
- New technologies in stone cladding
- Chemicals and other consumables for stone surface treatment
- Value addition in stones
- Stones in architecture
- Ready to use stone slabs and tiles
- Restoration of fractured blocks by vacuum.

EXHIBITION

A mini exhibition cum catalogue show was also organized concurrently during the conference with a view to showcase Dimensional Stones, tools, chemicals, consumables and machinery being used in stone working.

There were 11 stalls of 9 sqm each. Following participated to exhibit their products / services in the exhibition:

1. Killick Guard Speciality Products
2. LN Engineering
3. Tynex Abrasive Filaments
4. Jupiter Rock Drills
5. Surie Porex
6. Intechgrity Solutions Pvt. Ltd.
7. Prometec Srl
8. India Stonemart 2024
9. Marble Gangsaw Association
10. CSIR AMPRI, Bhopal
11. District Industries and Commerce Centre







Delegates and other industry members took keen interest in the products on display and interacted with the exhibitors. CSIR-AMPRI, Bhopal stall which has showcased hybrid composite panels and products made of stone waste was one of the major attractions.

TECHNICAL SESSIONS

In the technical sessions, eminent national and international experts comprising technology suppliers, scientists and researchers, consultants and technical experts, architects, civil engineers etc. deliberated on various pertinent issues and highlighted new technological advancements/ developments in the field of mining, processing, waste utilization and value addition of natural dimensional stones through audio-visual presentations.



Delegates keenly participated in the deliberations and interacted with speakers on various issues and problems being faced by them in day-to-day operations and how the new technologies could be beneficial to their operations and business.

The schedule of the technical sessions at the forum along with short title of the presentation is as presented in following pages:

TECHNICAL SESSION – I- Stone Processing & Care Techniques

| Speakers | Topic of Presentation |
|---|---|
| Mr. Vivian Philip Lewis, Director, Klauz Specialties | Epoxy resins in Natural Stone processing |
| Mr. Sandeep Narang, Director, Killickguard Specialties | Innovations in Stone Protection Technology |
| Mr. S P Venkat Nagraj, Managing Director, Endura Superabs Pvt. Ltd. | Efficiency & Effectiveness in polishing |
| Mr. Immanuel D Walker, Regional Business Head, Specialty Filaments- South Asia Region, Celanese | Brush finish by Tynex® Diamond and Silicon carbide abrasive filaments for “Anti slippery floor tiles & Decorative wall Claddings” |



TECHNICAL SESSION – II- Stone Mining & Processing Technologies

| Speakers | Topic of Presentation |
|--|---|
| Mr. Sachin Surie Managing Director, Surie Porex | Grinding & Polishing of Marble, Granite & Stone |
| Mr. Mahendra Mehta, Director, SKILP | Innovative and latest mining technologies; Machines for block Handling; New Technologies in stone cladding, value addition in stones |
| Mr. Janardhanan Nair, Vice President, Nakoda Machinery | Three decades of creating value of the nation |
| Mr. Mohit Sharma, Product Marketing Specialist, India & SAARC, Case Equipments | Product Marketing Specialist, India & SAARC, Case Equipments |
| Mr. DileepSahu, State Head Sales Rajasthan, Sany India | Role of excavator in granite & marble mining |



Mr. Sachin Surie

TECHNICAL SESSION – III- Value addition and Waste Utilization

| Speakers | Topic of Presentation |
|---|---|
| Mr. Ramesh Khattar, Proprietor, Tulsi Corporation | Need of renovation in Stone Industry with Value addition machines |
| Dr. Asokan Pappu, Chief Scientist, CSIR-AMPRI | Technology on Marble, Granite and stone waste recycling in manufacturing hybrid and high performance composite wood |



Dr. Asokan Pappu - CSIR-AMPRI

TECHNICAL SESSION – IV - Stone Processing Technologies

| Speakers | Topic |
|--|--|
| Mr. Stefano Invernizzi Area Sales Manager, TechnoideaImpainti SRL – Via Trivulzio di Belgioioso 6/820852 Villasanta MB - Italy | Gainful utilization of Stone waste & slurry |
| Andrea Borzone Area Manager, Simec S.P.A., 31030 Castello di Godengo (TV) Italy | Modern approach to granite sawing- the multiwire, the basic principles of its use and the solution feature & A novel approach to natural stone slabs polishing |
| Mr. Santhosh Kumar NSV, Managing Director, GIMCO | Innovating technology in Stone processing |
| Mr. ChetanyaKulkarni, Technical Head, Petrelplus | Lubricants for Stone Processing Industries |
| Mr. Marco Arenella Technical Assistance, Tenax Spa, Via Io Maggio, 226.37020 Volargne (VR) Italy | Natural Stone, Quarries & Blocks reinforcement methods |
| Mr. Roberto Antichi, Area Sales Manager, Robotor SRL, 155 Via ProvincialeCarrara- Avenza 54033, Carrara (MS) Italy | Robotic Technology in Stone Processing |
| Mr. MahendraJangid, Manager, L N Engineering | Multi-wire Technology for Stone processing |



Mr. Stefano Invernizzi, Italy



Mr. Andrea Borzone, Italy



Mr. Marco Arenella, Italy



Mr. Roberto Antichi, Italy

TECHNICAL SESSION- V- CNC & Robotics

| Speakers | Topic of Presentation |
|---|--|
| Mr. Vinod Bhati, Director, Veetech International | CNC Tools for carving & profiling of Stones |
| Mr. Mrugal Sompura, Managing Director, Phenomattic Solutions LLP | Artificial Intelligence, Robotics Integration & Virtual Marketing for Natural Stone Industry |
| Mr. Kalpesh Vaghela, Managing Director, DK Techsolution | Stone Cutting and Carving CNC Machine |



Mr. Mrugal Sompura

TECHNICAL SESSION – VI- Stone in Designing, Energy efficiency & Accounting Issues

| Speakers | Topic of Presentation |
|--|--------------------------------------|
| Mr. Yash Sen, Deputy Manager, Design 2, Occupancy | Energy efficiency in Marble Industry |
| Ar. Priyanka Arjun, Founder, PriyankaArjun Associates | Design with Stone |
| Mr. Sunil Gupta, CEO, Techno Gem Company, Software solution for any industry | Software solution for any industry |



Ar. Priyanka Arjun

TECHNICAL SESSION – VII - Open Interaction with Architects

| Speakers | Topic |
|-----------------------|--|
| Ar. Praveen Chandra | Open Interaction between Industry and Architects |
| Ar. K.T. Sudesh Kumar | |
| Ar. Bhavesh Mehta | |
| Ar. Prateek Mistry | |



An open interactive session between eminent architects and industry players was organized where architects shared their experiences in procurement of various types of stones, criteria of selection, stone installation processes, also highlighted difficulties faced by them in usage of stones in cladding, Consistency in supplies, thickness of stone slabs, ready to fix pre-polished tiles and adequate sorting of material while delivery by the suppliers are some of the areas highlighted by architects before the industry.

Industry players were of the view that stones being natural material, some variation in color and pattern are inevitable, however, with the new technology adoption supplies of large quantities in bigger sizes possible in good finishes as per requirement. Thickness of slabs depends on specific project requirement and material in various thicknesses can be delivered in addition to routine 15-16 MM thickness material which is industry norm now a days. It was also shared by the Industry players that stone slabs in various types of finishes, polish, sizes can be delivered as per requirement of client.

The Forum provided an excellent opportunity to the delegates for fruitful technical and business interaction with the experts after the presentation and during the breaks between the sessions.

CONCLUSIONS AND RECOMMENDATIONS

The ninth edition of GSTF was a platform for awareness and exploring possibilities for Indian Stone industry to adopt latest technical advancements / innovations in the field of Stone Mining, Processing, Value addition and waste management to make the industry more competitive and a zero-waste industry.

It was concluded with the hope that such forums about latest advancements / innovations will take the stone sector to the next level in terms of technology up gradation. Adoption of new technology is an ongoing process and will be helpful in cutting down the production cost to improve the quality of the product both in mining as well as in processing sector and would pave way in greater competitiveness with other global players.

Following salient recommendations/ observations emerged for sustainable development of stone industry in the country.

- Regular promotion of newer technologies in machinery, advancement in multi wire and CNC machines for cost effectiveness, fast processing and consistency
- Continuation of dialogue between technology providers and technology users on regular basis.

- Promotion of cost effective consumables and chemicals for processing, care and maintenance of stones.
- Promotion/ awareness program for energy saving and waste control.
- Promotion of various researches for gainful utilization of stone waste and commercialization of research findings.
- Extensive promotion of stones as Green Buildings material amongst architects and other users as they are more energy and resource efficient than other building materials.
- Customization of stone and products as per requirements of architects.
- Regular interaction between Architects and Stone Producers to make each other more aware of the needs and possibilities.
- Constant efforts in brand building of Indian stones.

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7. Contributors

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SUPPORTED BY

The event was supported by Marble Gangsaw Association, Rajsamand and other associations like Mining Associations, Granite Cutters Associations, Trader Associations etc. in Rajsamand stone area.

Glimpses of GSTF 2023









