



“Conference on Use of Glass in Buildings –

Façade of the Future; and need for Regulations relating to Human Impact, Fire Safety & Energy” colocated with GLASSPEX INDIA 2015

(March 13-14, 2015)

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The modern lifestyle, rising standard of the living in India and inherited properties and advantages made

considered as a fragile material has earned the status of indispensable and multi-purpose building material.

However, selecting glass was a challenge and the decision for right type of glass for different applications, in terms of type of building, uses, requirement, performance, quality, eminence etc was very crucial. Wrong selection of glass at critical locations may result in higher risk of human injuries, fatal accidents and problem faced by the Fire Brigade while carrying fire fighting and rescue operations. Therefore, shouldering the responsibility and with a view to spread awareness and educate stakeholders, users, specifiers, Govt. officials etc regarding selection of appropriate and right type of glass



Glass a favored building material and have started using extensively in both exterior and interior applications. The 20th century has witnessed increased demand of glass and glass industry in India has kept pace with the requirements of glass and showed their capability of producing world-class glass in the country. The glass which was





at critical locations etc, AGP/AIGMF (former IGMA, now part of AIGMF) felt the need of a Guidelines on safe use of glass in buildings and assigned the project to Confederation of Construction Products and Services (CCPS).

CCPS brought out “Guidelines on Use of Glass in Buildings – Human Safety” for the first time in India adopting consensus method in 2007 and with the support of AGP and concerted efforts of CCPS these guidelines have been mandated by 19 States, Central & State Govt. Depts., PSUs and eminent construction agencies which include Central PWD, Govt. of Andhra Pradesh, Govt. of Rajasthan, NBCC, Airport Authority of India, Haryana PWD, Delhi PWD, DDA, JDA, ITPO, Amity School of Engineering and Technology, Ahluwalia Contracts (I) Ltd., Mumbai Fire Brigade, BMC etc. Bureau of Indian Standards (BIS) has also formulated IS: 16231 (Part 4): 2014 on “Code of Practice on Use of Glass in Buildings - Safety Related to Human Impact” which is derived and based on CCPS Guidelines.

Taking cognizance of the news reported in media from time to time about the fatal accidents due to glass impact and fire, AGP/AIGMF and CCPS propagating the recommendations of Guidelines and advocating promulgation of strict regulations by authorities to prevent untoward incidences and save property and human life, training programs, workshops and conferences have been organized in various parts of the country from time to time.

Two days Conference on “Use of Glass in Buildings – Façade of the Future; and need for Regulations relating to Human Impact, Fire Safety & Energy” have been organized by AGP/AIGMF



and CCPS on 13 and 14 March 2015 co-located with Glasspex India 2015 at Bombay Convention & Exhibition Centre, Goregoan (E), Mumbai. The Conference was inaugurated by Mr. Sunil H Nesarikar, Chief Fire Officer, Mumbai Fire Brigade with Mr. Kamal Preet Singh, Special DG, CPWD (Western Zone) as Guest of Honour and Mr. Sanjay Ganjoo, President AIGMF presided over the event.

Mr. Sunil H Nesarikar, Chief Fire Officer, Mumbai Fire Brigade appreciated for holding this Conference in Mumbai which will facilitate spreading the message of safe and appropriate use of glass in buildings to ensure fire and human safety. He mentioned that as a follow up of presentation given by CCPS in October 2012 in MCGM office, Mumbai Fire Brigade initiated and issued Standing Order regarding Fire Safety requirements for glass walls and façade in buildings. Keeping in view the importance of the subject, we have deputed seven officers of Mumbai Fire Brigade to this Conference for getting updated with the proceedings and latest know how.

Mr. Kamal Preet Singh, Special Director General, CPWD emphasized for using glass in buildings as per the norms and guidelines. CPWD, not only partnered with CCPS while developing these

Guidelines, but also released during 155th CPWD Day on 12 July 2009 and mandated to be implemented in the department throughout the country.

The Conference was attended by more

than 100 delegates which include senior officers from Central PWD, Bureau of Energy Efficiency, Mumbai Fire Brigade, Façade Consultants, Processors, Consultants and Professionals, Engineers, Fire Engineers, Glass related companies and many dignitaries from the Industry. 15 senior officers from glass manufacturing companies have also attended the program. Three sessions titled Glass Scenario in India, Façade: Future, Emerging Directions & Challenges and Modern Façade-Regulations and Standards covering following 15 subjects were presented by eminent speakers from Govt. of India, Mumbai Fire

Brigade, Consultants, Architects, Academicians and Industry experts:

1. **Modern Trends in Glass Facades to Achieve Sustainability** by Mr. Somasundaram Senthil Kumar, Asahi India
2. **Glass Selection Factors** by Mr. Vivek Dubey, Gold Plus
3. **Use of Glass in Buildings** by Mr. Sanjiv Srivastav, Gujarat Guardian Ltd
4. **Role of Silicone Sealants in Structural Glazing and Fire Seals** by Mr. S Ravishankar, Dow Corning India
5. **Manual & Motorized Hardware Solutions for Aluminium & UPVC Glass Doors & Windows** by Mr. Deepak Chugh, LGF Sysmac India Pvt. Ltd.
6. **Industry - Academia Interactions for Glasses; National Perspective** by Prof. Devendra Kumar IIT, Banaras Hindu University, Varanasi, Department of Ceramic
7. **Latest Innovations in Glass Technology** by Mr. Malhar Narwadkar, Saint Gobain India





- 8. **Facades of the Future** by Ar. (Ms) Poonam V Mascarenhas, Archinova Environ, Goa
- 9. **Quality Assurance and Testing of Facades** by Mr. Sudhanshu Dighe, Façade India Testing Inc
- 10. **LEEDs Requirements & Sustainability Management for Building Façades** by Mr. Hasan Baig , Façade Concept Design Group
- 11. **Regulations Relating to Building Façade–International Perspective** by Mr. A. P. Mahesh, Meinhardt Facade Technology (I) Pvt Ltd
- 12. **Glass Façade with Reference to Human & Fire Safety** by Ar. Deepak Gahlowt, Confederation of Construction Products and

Services (CCPS) and Ar. Conrad V Gomes

- 13. **Green Building Parameters and Case Studies** by Mr. Abdullah N Siddiqui, Bureau of Energy Efficiency
- 14. **Ground Realities of Fire Fighting and Adequacy of Current Codes/Standards** by Mr. A V Kale, Mumbai Fire Brigade
- 15. **CPWD Scenario on Glass use in Mumbai** by Dr. K. M. Soni, Chief Engineer & Mrs. Usha Batra, Chief Architect, Central PWD

Sessions were followed by Panel discussions and the enthusiasm shown by delegates in participating in question/answer hour revealed the importance of the subject and the proficiency of the speakers.

The atmosphere turned into grief when Ar. Conrad V Gomes from Indore, narrated the tragedy struck on 15 November 2014 to his family when his 11- year- old son crashed into glass pane, sustained deep gash and bled to death. One minute silence was observed in the memory of the departed soul at such a young age

Mr. Shashi Kant, Adviser, CCPS and former Dy. Adviser, Planning Commission informed that the news appeared on 17 November 2014 in Indore News papers and as soon as we came to know, immediately on 21 November 2014 written to Chief Minister, Madhya Pradesh, Minister for UA & H, Chief Secretary, GoMP, Prl. Secretary, UAE, Commissioner,



Presentations given during the conference and select photographs are available at <http://www.aigmf.com/past-events.php>



Bhopal Municipal Corporation and Commissioner, Indore Municipal Corporation informing the existing provisions of safe use of glass as recommended in IS: 16231 (Part 4), CCPS Guidelines and requesting to initiate action for imposing conditions in Byelaws to avert reoccurrence of such painful incidences. But unfortunately inspite of rigorous follow up, no response have been received

Mr. Deepak Gahlwt Convener, CCPS in his presentation explained the critical locations where selection of appropriate glass and precautions may lead to human and fire safety. Implementation of parameters of Energy Conservation Building Code

2007 and green rating was discussed in details by Mr. Abdullah N Siddiqui, the representative of Bureau of Energy Efficiency. Building solutions for structural and protective glazing, water proofing, etc was discussed by Mr. S Ravishankar and motorized hardware solutions were presented by Mr. Deepak Chugh.

Presentations given by Mr. Senthil Kumar, Mr. Vivek Dubey, Mr. Sanjiv Srivastav, Mr. Malhar Narwadkar, Ar. (Ms) Poonam V Mascarenhas, Mr. Sudhanshu Dighe, Mr. Hasan Baig, Mr. A. P. Mahesh, Mr. A V Kale and Dr. K. M. Soni were very informative.

Mr. Sanjay Ganjoo President AIGMF thanked all the delegates & participants, speakers, media, CCPS and organizers for their contribution and making the Conference successful ■

