

Glass use in Building – Where Next?

**Deepak Gahlowt, Architect & Convener, Confederation of
Construction Products and Services**

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Confederation of Construction Products and Services

Independent Consultant

Projects over 180 cities

Permanent staff across over
15 cities

End-to-end solutions

Design-Build-Manage

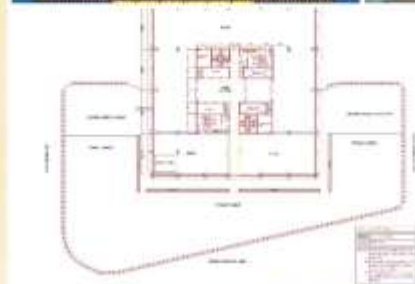
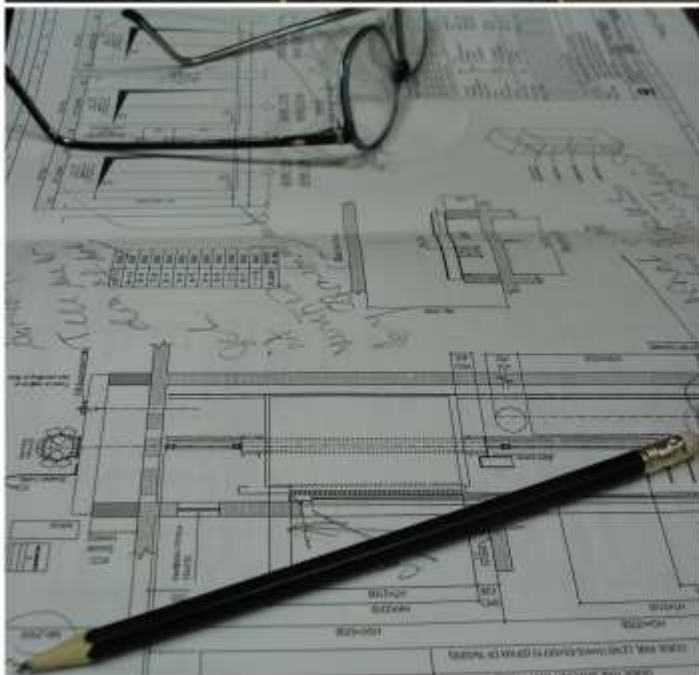
Some of the most prestigious
and challenging projects

Non-profit works

Standards setting

Training / writing / advocacy

Historical conservation







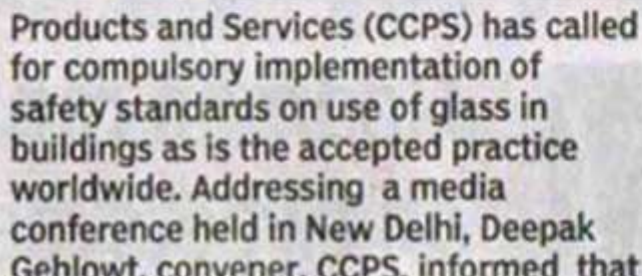








The Confederation of Construction

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CCPS, is dedicated to the sustainable growth of construction products sector by working collectively with its members and others to improve quality and efficiency in construction. This was organized as part of the CCPS Training

ENGAGEMENTS

- **Workshop on bedroom design tips by Deepak Gahlowt at Home Town, The Great India Place, Sector 38A, Noida (Tel 0120-4028100)**



मे मानव सुरक्षा को ध्यान में रखकर कांच के इस्तेमाल के लिए उचित म
हडरेशन ऑफ कंस्ट्रक्शन प्रॉडक्ट्स एंड सर्विसिस (सीसीपीएस) के मान
कि बुधवार को सेक्टर 33 स्थित हरियाणा सरकार के लोक निर्माण वि
नियमों को संबोधित कर रहे थे

DNA PINK CITY

Bylaws on glass use in bldgs

ICC will issue forward proposal to put recording rules on use of glass in residential and commercial constructions

the Department of Health and Human Services.



the Singapore government's ambitious efforts will drive demand in Singapore, the world's largest developed economy, for construction materials. The need for an increasing number of people to migrate and live in a more urban environment.

The introduction of a new building framework and revision of the Environmental Protection Act will also drive the market. Reintroduction of the construction suspended business excluding the construction of the PRAK (Public Road Projects), the new road



The Great India Place: Deepak

Gahlowt to give tips on patterns of bedroom designs, furnishings and colour combinations, Unitech Mall, Sector 22A, Mohali



One of the posters on display

Domestic harmony depends on a natural thing like light, say experts. ANJU SHARMA writes about a lighting competition that took place recently

energy produced in the country. It is important, therefore, to use this resource effectively and realize that "more" lighting does not necessarily mean "better" lighting. But Mr. Calkins believes "we are not doing anything in terms of conservation of lighting. Lighting is a universal thing."

The rigorous spirit from which appreciating socially relevant design also encompasses the belief which could be called *emancipatory* concept. Emancipatory design is a design approach that incorporates the low basic elements of nature — water, fire, wind, air and earth — into colorful glass. My belief was that the design of the pavilion should be about the elements — those rare colored glass and lighting can be combined to create a breathtaking ambient

A NOVEL scheme to fight darkness was presented by the first prize winner of the 1990 AIAA Design Competition, S. Mathia of the Industrial Design Center of Bentley, The design addressed the problem of both lighting and ventilation in a

Another interesting design was the *Aurora* — a device to reproduce historical artifacts in museums. The system is regulated by a photo-diode sensor

WHAT makes you an architect and design and even the common man.

W house that is the centerpiece of his extensive collection of artifacts, carpets and maps. No, it's not a museum; it's a home. According to him what makes a home worth living in is lighting. The great Communist said, "Architecture is the manner in which we use light to bring things together in light." Light is the soul of life. If experts are to be believed, domestic harmony and peace depends on how to use light. The light is more than a mere round-up.

THE source was judged by an eleven-person jury comprised of Mr. Tapan Sin, lighting engineer, First B. Co. South Industrial Design Centre Building, 516 Mirza Mas, architect and Mr. F. K. Banerjee-Dey, Secretary, I.S.E.E., 1, Sankar Ghosh, Calcutta, who said it provided sensory value information, it is also a major element in the aesthetic experience.



Deepak Gahlot, Architect

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..“It is not the crazy caprice of a poet that **glass architecture will bring a new culture**. It is a fact. New social welfare organizations, hospitals, inventions or technical innovations and improvements—these will not bring a new culture — **but glass architecture will ...** “

..Corbusier argued: 'A window eleven metres **long brings the immensity of the outer world into the room**, the unadulterated totality of a lake scene with its tempestuous moods or gleaming calm.'

..By the early 1930s Le Corbusier was advocating the ‘window-wall’ as a key element of domestic design,..
..‘The horizontal window and finally the “window wall” have brought us to a point that has nothing in common with the past’.. **every home had the potential to become a glass house**, and the sense of physical enclosure that had hitherto characterized dwelling space was at serious risk of becoming a purely nostalgic point of reference.

If the intentions of the League of Nations are sincere, then it cannot possibly cram such a novel social organisation into the straitjacket of traditional architecture. **No pillared reception rooms for wearied monarchs** but hygienic workrooms for the busy representatives of their people. No back corridors for backstairs diplomacy but **open glazed rooms for public negotiation of honest men**

..‘**openness**’ as an **ideal** of the new home building.
..there is going on a freeing process in regard to both
our physical and our mental lives.. the old walled in
house, the essentially castle-refuge sort of structure, is
giving way.. women are discarding most of their
clothes, and **human minds are freeing themselves**..
from old superstitions, old limiting religions.. old
narrowly selfish motives.. This is a general coming-
forth—which seems to me calculated for the **better
health and the greater happiness** of mankind....

..the postwar potency of glass culture
should be measured by its **practical ability**
to generate social transformation.

Throughout history, materials have transformed society and culture. There was the Stone Age, the Bronze Age, and the Iron Age. This is the **Glass Age.**



..a futuristic city in which all buildings, and even the pavements, are entirely made of glass. As a result, **personal space has largely disappeared...** received the certificate permitting me to lower the shades. This right is granted only on sexual days... At all other times **we live behind our transparent walls.. have nothing to conceal**

..besides, this makes much easier the
difficult and noble task of the Guardians.

For who knows what might happen
otherwise?..

..exposure of the bourgeois interior widely
seen as a precondition for social revolution
has become an **overexposure** which
eradicates the architectural and political
space for individual subjectivity.

..while Le Corbusier conceived the glass-walled houses.. enabled its sovereign inhabitants to see ‘their’ view outside, **visibility inevitably cut both ways...** this reverse gaze was already apparent to anyone who actually lived in a glass-walled structure.. in retrospect, it is also evident that the modernist glass house offered a **spectacle waiting to be filmed.. watched live over an extended period of time..**

...**surveillance is apt to be internalised.** For Orwell, this psychological transformation is the primary fact of social life under Big Brother: There was of course no way of knowing whether you were being watched at any moment. ... **You had to live — did live**, from habit that became instinct—in the assumption that **every sound** you made **was overheard**, and except in darkness, **every movement scrutinized...**

**EXTREMES
ARE EASY.
STRIVE FOR
BALANCE.**

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Could the era of glass skyscrapers be over?

🕒 27 May 2014 [Magazine](#)

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THINKSTOCK

The "Gherkin" was completed 10 years ago

One of the architects behind London's famous Gherkin skyscraper has now turned against glass buildings. Is it time tall towers were made out of something else, asks Hannah Sander.

It is one of the UK's most recognisable buildings. A

In today's Magazine

Why Jaffa Cakes get philosophers very excited

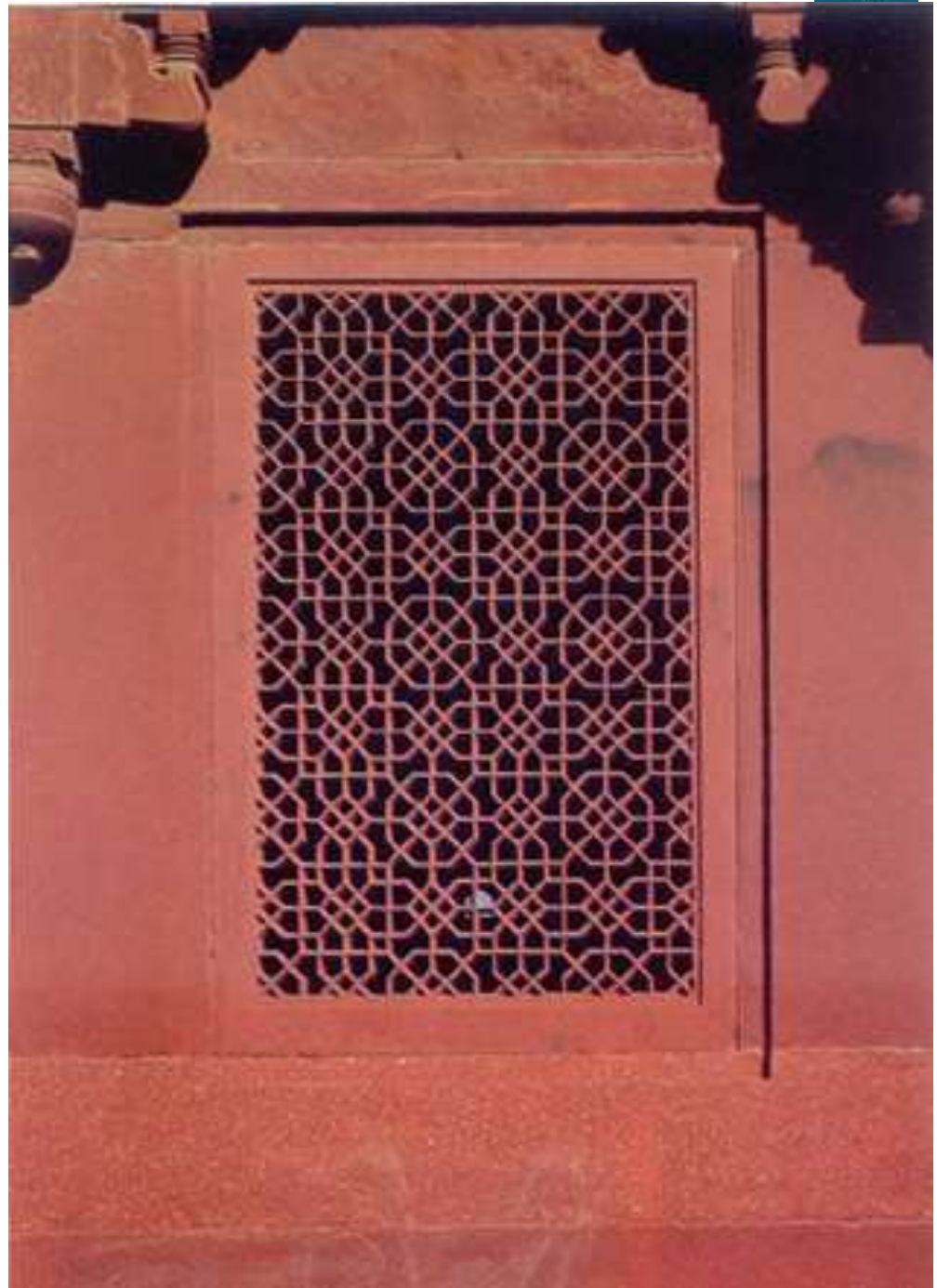
"As someone who spends their entire life staring at buildings, I am a bit **bored by the glass box**. They were radical in the 1920s and now they are just cliches, expensive ones at that.

"But now that we are having to be more thoughtful about how and where we use glass, **maybe architects will become more inventive in how they use windows, instead of plastering them across whole facades**," he says.

Gurgaon 20th Century



Fatehpur Sikri

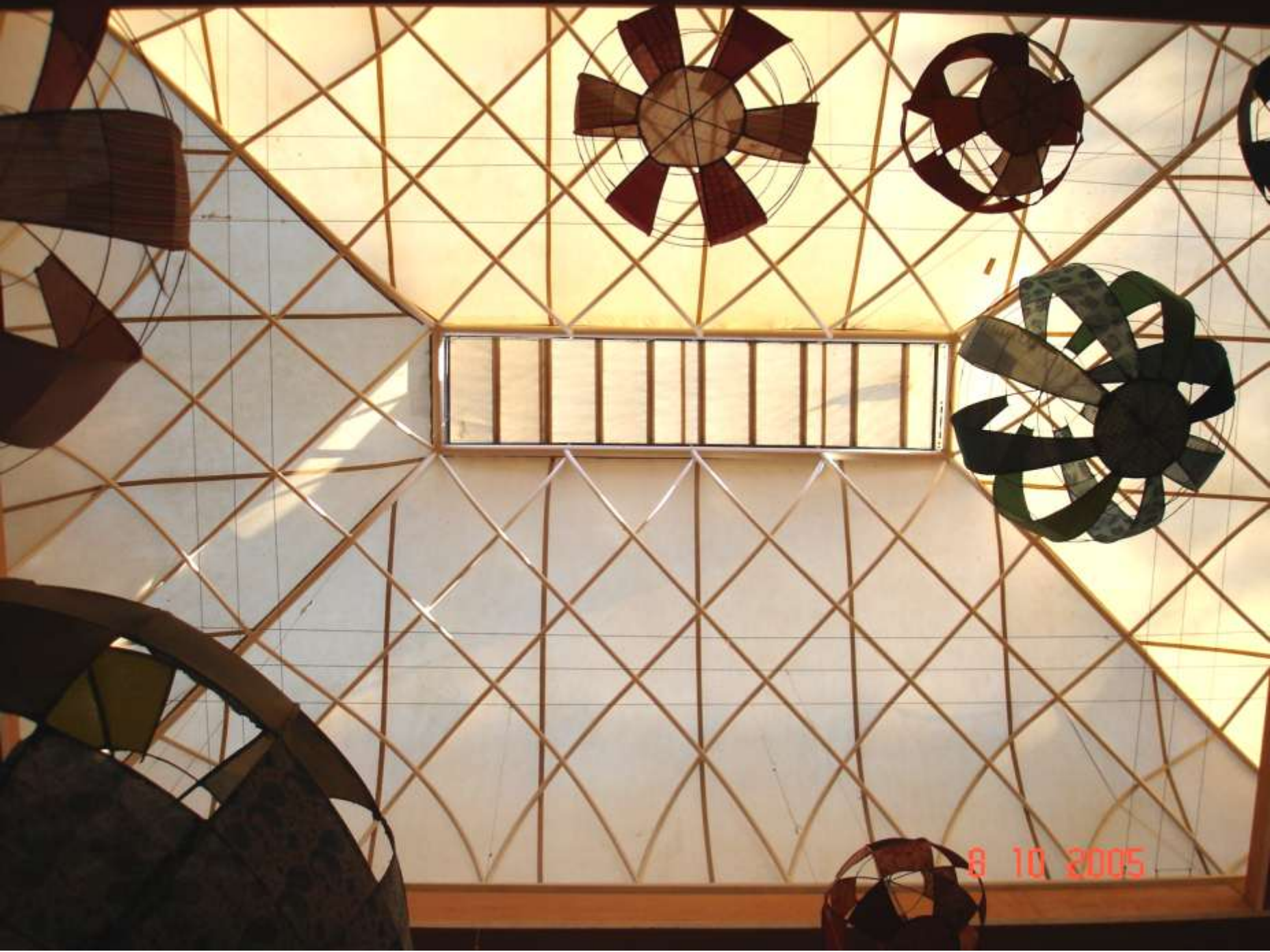


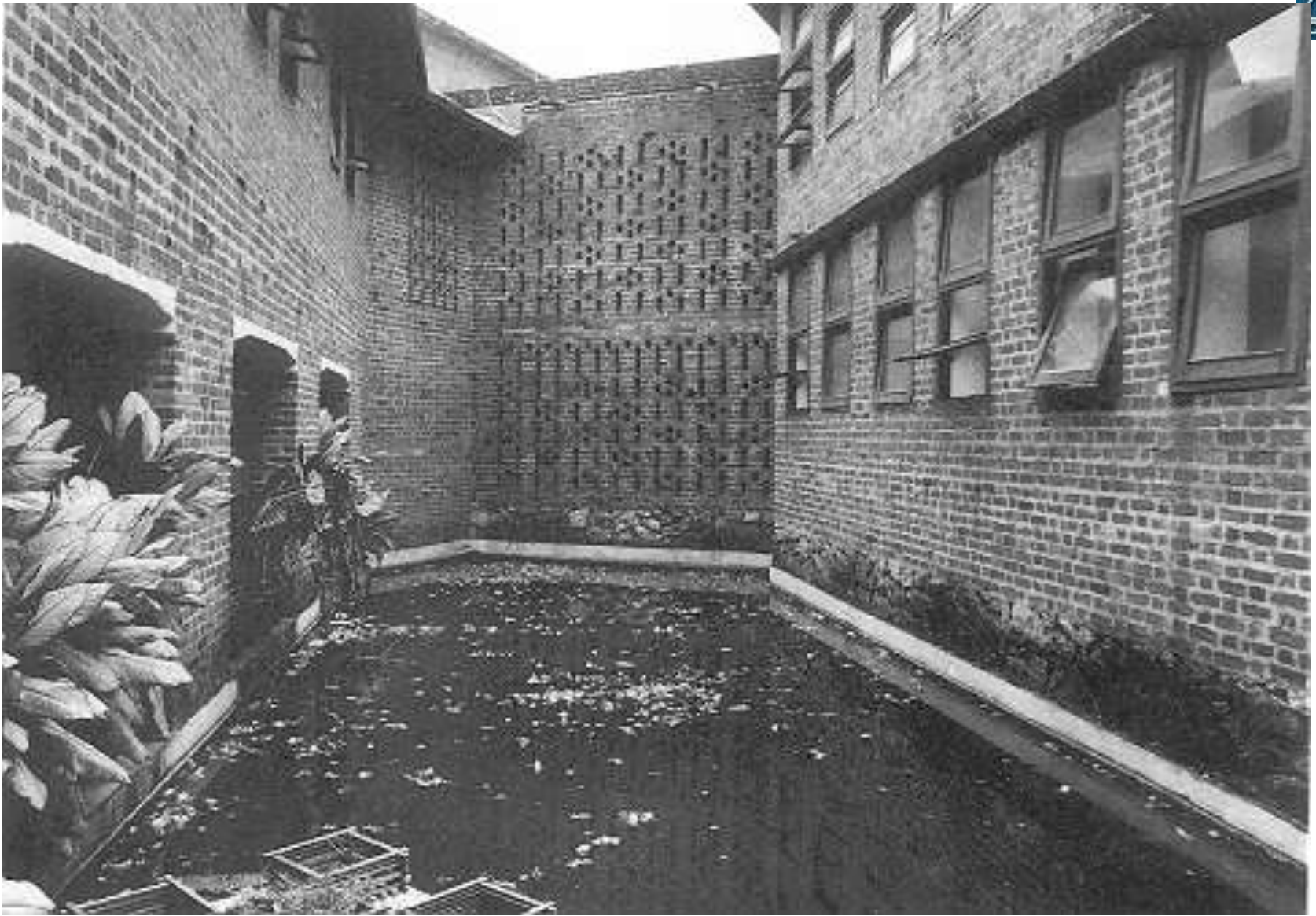
The Middle Way

..a path of moderation, between
the extremes... **path of
wisdom.**





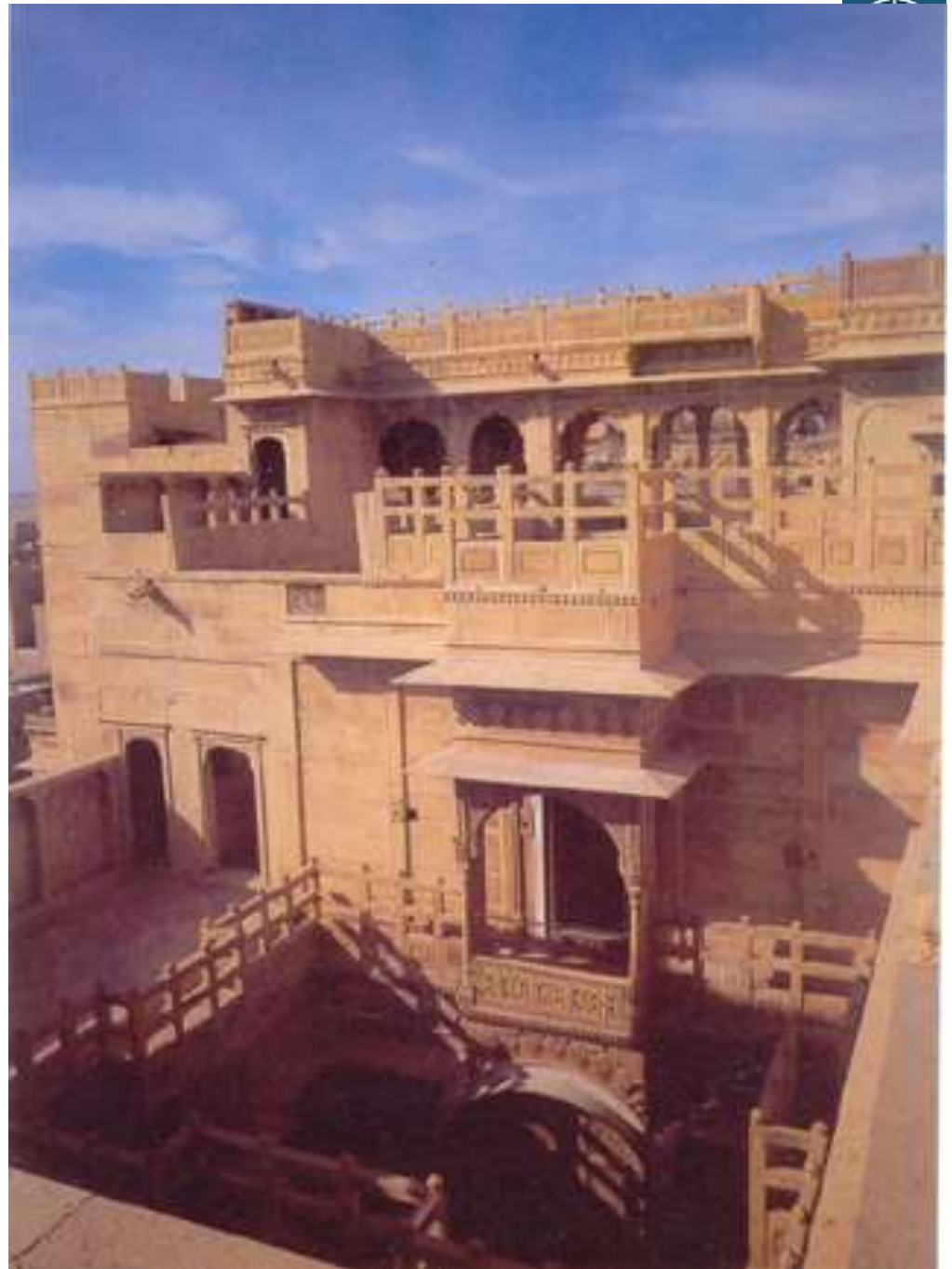




Chandigarh



Jaisalmer



Future

Expect Change

- Coatings for improved energy performance
- Advanced IGUs with more glazing panels and Vacuum glass
- Better acoustic properties
- Sizes of glass
 - Switchable glass
 - Electrochromic glasses
 - Bio-reactive façade (algae façade)
- Integration of OLEDs, Touchscreens etc.
- Solar windows and integrated PV
- Intelligent mirrors
 - Stronger Glass
 - Structure and form
 - Laser beam engraving
- Self-healing concrete
- Biomimicry
- Aerogel
- Thermobimetals

Thank you

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