

"The Best Business Architecture of 2008"

Can Architectural Design help increase PROFITS ??

YES. It does.

*You might ask me for a proof....
Well, here we are, talking about
Business Week/Architectural Record awards...*

"The Best Business Architecture of 2008"

The contest, in its 11th year, honors buildings that have proved the famous tagline: "Good design is good business." A jury of editors from Business Week and Architectural Record analyzed more than 100 submissions from around the world, not paying attention their showy facades or flashy foyers but rather to the impact of a design on a company's profit lines. As commercial construction falls deeper into recession, it seems the winners of this year's Business Week/Architectural Record awards show the payoffs of investing in smart design.

Let's look at some of the winners:

1. Haworth Center, in Holland



Though based in the heart of the American office-furniture industry, workplace-design firm Haworth was having a tough time attracting potential clients to visit.

So Chief Executive and President - Franco Bianchi decided to replace Haworth's headquarters. Sure, he wanted his new building to impress those who made the journey from around the world. But he also wanted the space to act as an on-the-spot demonstration of the office systems he and his team sells, including equipment for every aspect of office life, from cafeteria to conference room.

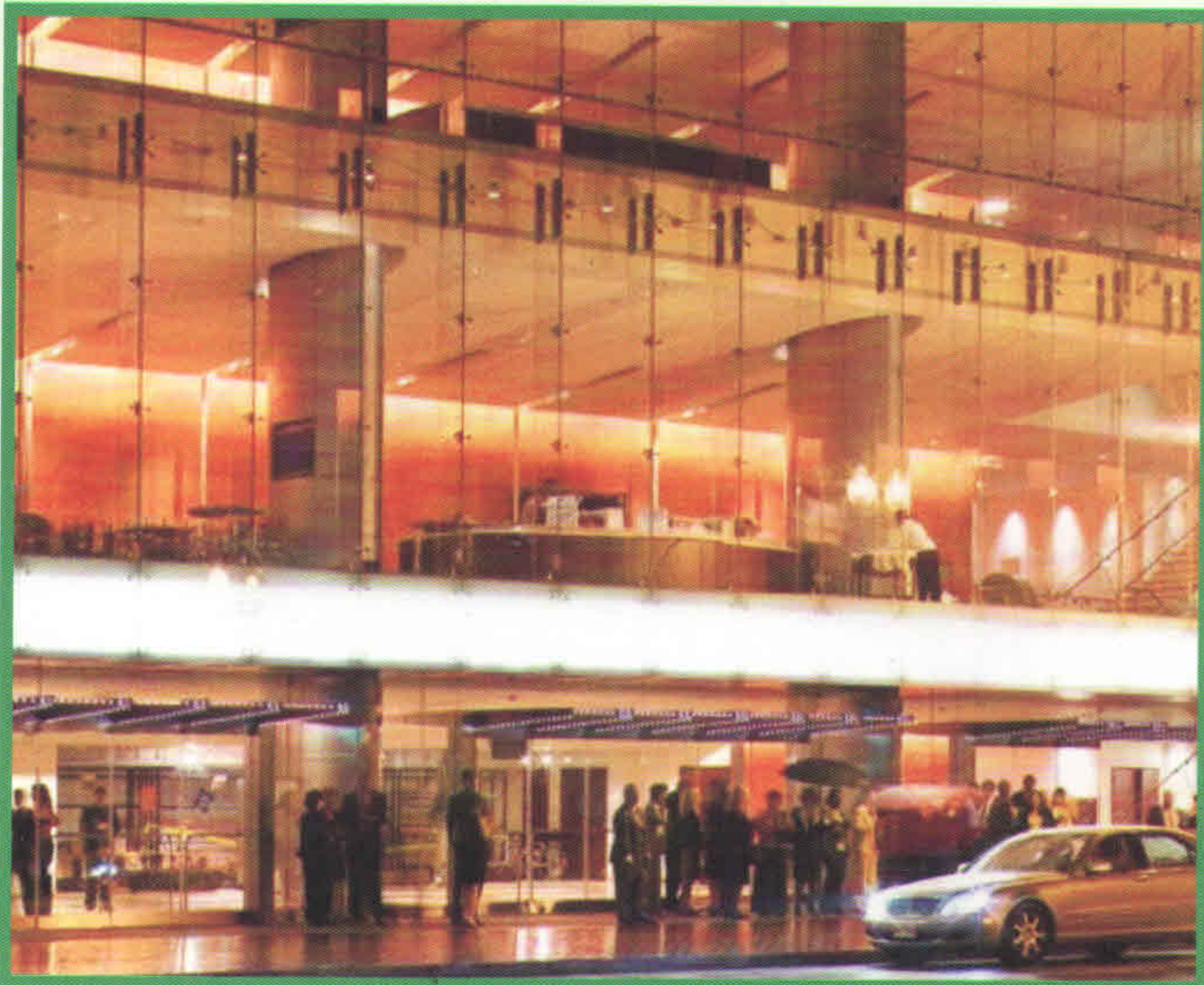
The result includes a swooping glass-walled atrium that runs along one side of the building, flooding the three floors of offices with natural light. Furnishings are entirely from Haworth, turning the site into a massive showroom.



The \$40 million investment is paying off. This year, 360 potential clients stopped by, nearly three times as many as the year before. And while Bianchi won't share specifics, he says the number who signed purchasing contracts jumped by 20 percentage points from 2007.

2. Sidney Harman Hall, Washington

The theatre opened a new **774-seat auditorium** in October 2007. By the end of the 2008 season, management declares, the company had entertained audiences **totaling 1,72,499**, up 27% from the season before, when it had only a single, 400-seat venue.



3. Edmunds.com's New office building at Santa Monica, California



Architecture influences employees, too. Edmunds.com, a publisher of automotive information, moved its staff of 300 to a new building in Santa Monica, Calif., in 2005. The 90,000-sq.-ft. building, designed by Studios Architecture, is meant to emphasize collaboration. It has only five private offices for executives. The rest of the staff, now numbering 423, stretch across the top and bottom floors of open-plan space, with an airy reception area on the middle floor doubling as an all-staff gathering spot and coffee area.

Since relocating, the company's employee turnover rate has been halved.

4. Alley 24, Seattle



Completed in May 2007, the project was awarded multiple citations for energy efficiency. Roof gardens allow residents and office workers to connect. The retail stores and offices are completely leased while 96% of residential space is currently occupied.

Meantime, Skanska Building, a tenant in Alley 24, which is certified energy-efficient by Leadership in Energy & Environmental Design, reported 30% fewer employee sick days.

Skanska attributes the decrease to the sustainable elements of the building's design, such as plentiful natural light and individually controlled ventilation systems.

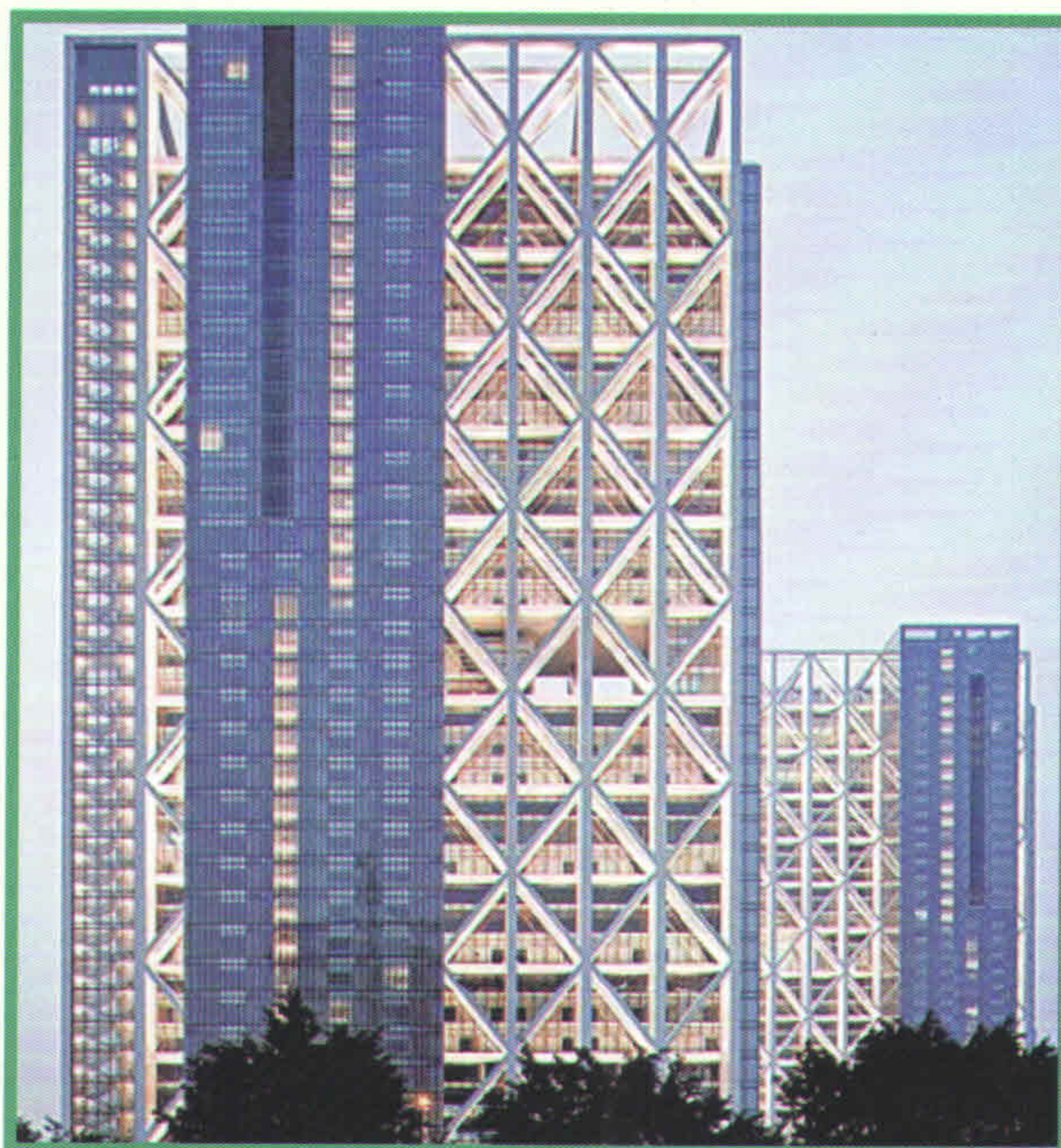


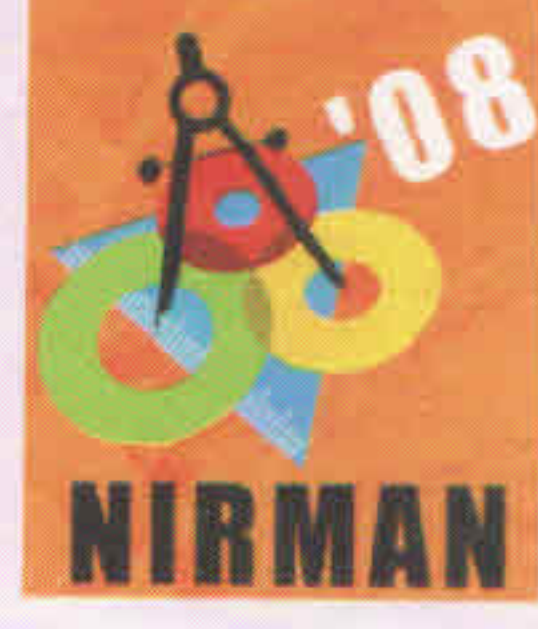
5. Poly International Plaza in Guangzhou, China

The judges also liked the efficiency of Poly International Plaza in Guangzhou, China. The project, designed by architecture giant Skidmore, Owings & Merrill, consists of a pair of 34-story towers covered on the south side by an elegant lattice.

The shading isn't merely decorative: **It lowers air-conditioning bills.** Similarly, the three large office buildings in the Elmpark development in Dublin, designed by the city's own Bucholz McEvoy Architects, exploit natural light and ventilation, **requiring 60% less energy than a traditional air-conditioned office.**

The American Institute of Architects says Architects are likely to see less work in 2009 due to world economic crisis. But they should shift their focus to costs, values, materials, and design, he adds. It's a back-to-basics approach embodied by this year's design winners, that will help everyone survive & be productive.





NIRMAN - Gujarat's Larges

એક્ઝીબીશન નિર્માણ — ૨૦૦૮
શ્રેષ્ઠતા - સંચાલન - સફળતાનો સમન્વય

પ્રિય સભ્ય મિત્રો,

છેલ્લા ૨૨ વર્ષોથી આપણી સંસ્થા લાગલગાટ દરવર્ષે નિર્માણ એક્ઝીબીશન યોજી રહી છે અને દર વર્ષે સફળતાનું નવું સોપાન સર કરી રહી છે. વર્ષ ૨૦૦૮ માં ૨૩માં વર્ષે પણ આપણી સંસ્થાએ બિલ્ડીંગ મટીરીયલ્સનું સૌથી મોટું પ્રદર્શન નિર્માણ-૨૦૦૮ ખૂબજ આધુનિક અને વિશાળ સ્તરે યોજાયું હતું. જેમાં કદાચ અમદાવાદમાં સર્વ પ્રથમ વાર એ.સી. ડૉમ્સ તૈયાર કરાયા હતા. પ્રદર્શનમાં આવા ૪ એ.સી. ડૉમ્સ હતા જેમાં ૧૨૫ જેટલા સ્ટોલ્સ, ગેલેરી વિગેરેમાં વિવિધ વ્યવસાયીકોએ પોતાની પ્રોડક્ટ્સ જેવી કે, સેનેટરીવૉર, હાઈવેર, ટાઈલ્સ, વુડપ્રોડક્ટ્સ, ઈન્ટીરીયર ડેકોર, ઈલેક્ટ્રીકલ ગુડ્ઝ, ફર્નિચર વિગેરે પ્રોડક્ટ્સ રજૂ કરી હતી. ઔડા, સાબરમતી રીવર ફ્રન્ટ પ્રોજેક્ટ, બી.આર.ટી.એસ., આઈ.સી.એમ.એ., ગ્રીફ્ટ સીટી જેવી નામાંકીત સંસ્થાઓએ પોતાના સ્ટોલ્સ ગેલેરી વિગેરે દ્વારા ભાગ લીધો હતો. આવા એ.સી. ડૉમ્સ, ફુડ કોર્ટ, વિશાળ સ્ટેજ અને બેઠક વ્યવસ્થા, ફીલ્મ પ્રોજેક્શન, પાર્કીંગ એરીયા, આધુનિક ટૉયલેટ્સ વિગેરે થી સજ્જ આ પ્રદર્શન અમદાવાદની જનતા માટે “Must See” પ્રદર્શન બની રહ્યું હતું. પ્રવેશ અને પાર્કીંગ નિ:શુલ્ક હતા. આ પ્રદર્શનનો વિપુલ પ્રચાર, રેડીઓ, સમાચાર પત્રો, હોર્ડીંગ્સ વિગેરે દ્વારા કરાયો હતો જેના કારણે જનતામાં ખૂબજ ઉત્સુકતા જાગી હતી. આ એક્ઝીબીશનની અવધિ તા. ૨૦ નવેમ્બર થી ૨૪ નવેમ્બર સુધીની હતી.

આ વર્ષે આ પ્રદર્શનનું ઉદ્ઘાટન શ્રી નિતીનભાઈ પટેલ - માનનીય મંત્રીશ્રી - શહેરી વિકાસ અને શહેરી ગૃહ નિર્માણ વિભાગના વરદ્વસ્તે કરવામાં આવ્યું હતું. આ પ્રસંગે અતિથી વિશેષ તરીકે ડૉ. એન.વી. વસાણી - ઉપકુલપતિ - નિરમા યુનિવર્સિટી, શ્રી અસિતભાઈ વોરા - ચેરમેન - સ્ટેન્ડીંગ કમીટી - અમદાવાદ મ્યુનિસિપલ કોર્પોરેશન, શ્રી વિષ્ણુભાઈ પટેલ - મેનેજિંગ ડીરેક્ટર, સદ્ભાવ એન્જનીયરીંગ લી., શ્રી જી. ડી. ઠક્કર - મેનેજિંગ ડીરેક્ટર - જલારામ સીરામીક્સ (સિદ્ધાર્થ ટાઈલ્સ) હાજર રહ્યા હતા. ડૉ. એમ. એસ. પટેલ (કલ્પસર પ્રોજેક્ટ્સ) નું આ પ્રસંગે બહુમાન કરાયું હતું. માનનીય મંત્રીશ્રી તથા અન્ય મહાનુભાવોએ પ્રાસંગિક પ્રવચનો કર્યા હતા અને વિવિધ સ્ટોલ્સની મુલાકાત લીધી હતી. અતિથીઓનું સ્મૃતિચિન્હથી સ્વાગત કરાયું હતું. અન્ય દિવસોમાં ગુજરાત રાજ્યના નાણાંમંત્રી શ્રી વજુભાઈ વાળા, રાજ્યસભાના સભ્ય શ્રી સુરેન્દ્રભાઈ પટેલ તથા અનેક ગણમાન્ય અતિથીઓએ પ્રદર્શનની મુલાકાત લીધી હતી અને પ્રદર્શનની વ્યવસ્થા, ડેકોરેશન, સાફ્સફાઈકામ અને સ્ટોલ્સને વખાણ્યા હતા. ગણમાન્ય વ્યક્તિઓનું રેડીઓ અને પુષ્પગુચ્છોથી સ્વાગત કરાયું હતું.

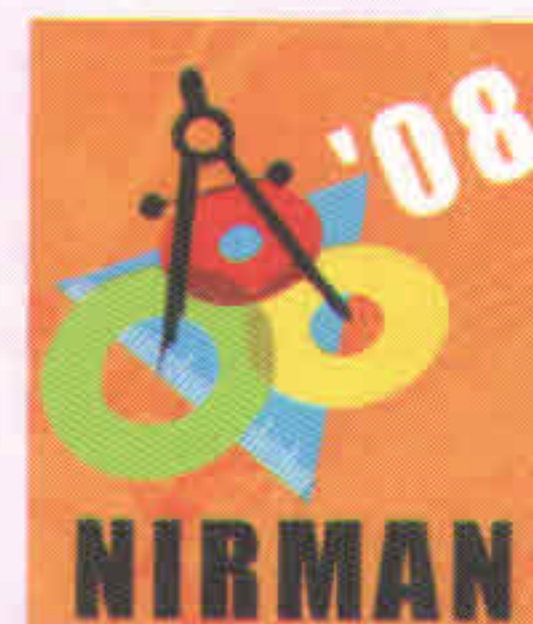
તા. ૨૪-૧૧-૨૦૦૮ ના રોજ આ પ્રદર્શનનું સમાપન થયું હતું, સમાપન વિધી વખતે ગુજરાત વિધાનસભાના અધ્યક્ષ શ્રી અશોકભાઈ ભટ્ટ હાજર રહ્યા હતા, તથા અતિથી વિશેષ તરીકે શ્રી પી. પનીરવેલ - પ્રિન્સીપલ સેક્રેટરી - મહેસૂલ વિભાગ અને શહેરી વિકાસ અને શહેરી ગૃહ નિર્માણ વિભાગ - ગુજરાત રાજ્ય, શ્રી વિમલભાઈ અંબાણી - મેનેજિંગ ડાયરેક્ટર - ટાવર ઓવરસીસ લી., શ્રી મુકેશભાઈ શેઠ - પ્રમુખ - ફેડાગ, શ્રી રૂપેશભાઈ શાહ - પ્રમુખ - ગુજરાત ચેમ્બર ઓફ કોમર્સ એન્ડ ઇન્ડસ્ટ્રીઝ હાજર રહ્યા હતા. અતિથીઓનું સ્મૃતિચિન્હ દ્વારા સ્વાગત કરાયું હતું. સંસ્થાના વરિષ્ઠ અને માનનીય સભ્યો શ્રી અરવિંદભાઈ શાહ, શ્રી માણેકલાલભાઈ પટેલ, શ્રી નટવરભાઈ પટેલ, શ્રી ચિમનભાઈ અગ્રવાલ, શ્રી ભૂપેન્દ્રભાઈ મોહોરોવાલાનું શાલ, સન્માનપત્ર અને સ્મૃતિચિન્હથી બહુમાન કરાયું હતું. વરિષ્ઠ સભ્યોએ સંસ્થાની આ પ્રણાલીકાને બિરદાવી હતી.

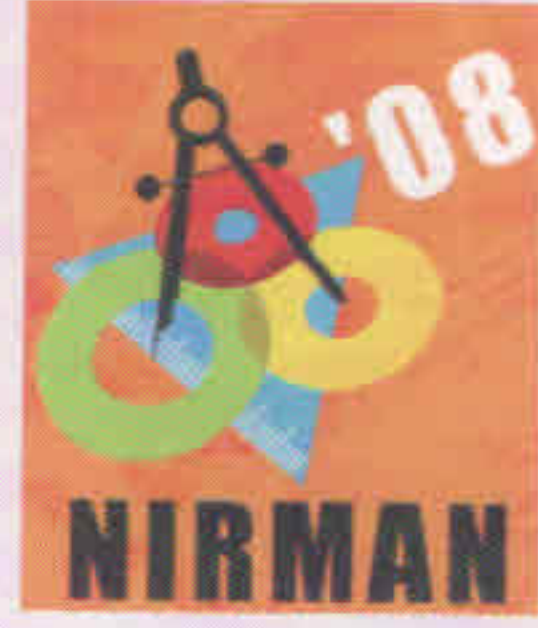
આ વર્ષે ઈવેન્ટ મેનેજર તરીકે જય ઈવેન્ટ્સ એન્ડ એક્ઝીબીશને સેવા આપી હતી. તદ્ઉપરાંત પ્રદર્શનમાં રેડીઓ મીર્ચી (મીડીઆ પાર્ટનર), ટાઈમ્સ ઓફ ઇન્ડિયા, દિવ્ય ભાસ્કર, કલબ મહિન્દ્રા, ખુશી એડ, હેત એડ, કૌશીક પબ્લીસિટી, સમભાવ પ્રેસ, “પ્રસંગ” સંસ્થા દ્વારા ખૂબજ સાથ અને સહકાર મળ્યો હતો.

આ એક્ઝીબીશનમાં જાહેરજનતાને જ્ઞાન અને માહિતી મળે તે માટે વિડીયો અને ફીલ્મના પ્રોજેક્શનની વ્યવસ્થા ગોઠવવામાં આવી હતી. જેમાં ઔડા, બી.આર.ટી.એસ. યોજના, ગ્રીફ્ટ સીટી (ધી ગુજરાત ઇન્ટરનેશનલ ફાઈનાન્સ ટેક સીટી), સાબરમતી રીવરફ્રન્ટ યોજના વિગેરેના પ્રોજેક્ટ અને વિકાસ દર્શાવતી ફીલ્મ-વીડીયો રજૂ કરાઈ હતી. આઈ.સી.એમ.એ.ની ગેલેરીનું પણ આયોજન કરવામાં આવ્યું હતું. પ્રદર્શનના અંતે સુંદર સજાવટ અને આકર્ષક સ્ટોલોને ઈનામ આપવામાં આવ્યા હતા. તા. ૨૧ થી ૨૪ સુધી સંસ્થાના જે સભ્યોએ પ્રદર્શનની મુલાકાત લીધી હતી તેમને સંસ્થા તરફથી ઉપહાર આપવામાં આવેલ.

પાંચ દિવસ ચાલેલા આ પ્રદર્શન દરમ્યાન ૧ લાખ જેટલા મુલાકાતીઓએ પદાર્પણ કર્યું હતું. જે આ પ્રદર્શનની લોકપ્રિયતા અને સફળતા દર્શાવે છે.

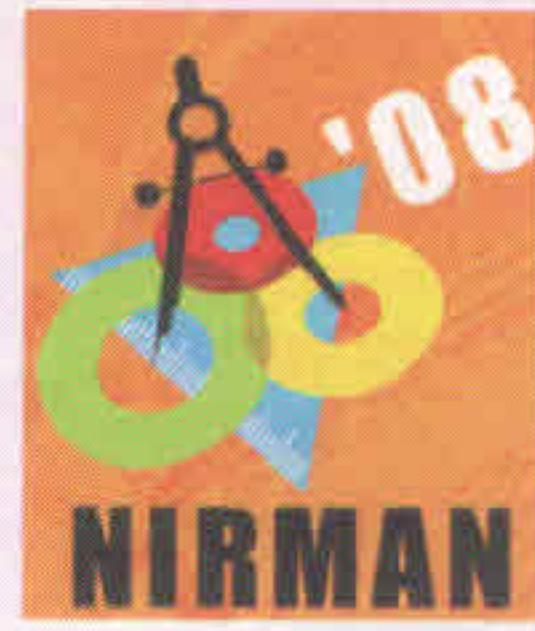
Building Material Exhibition



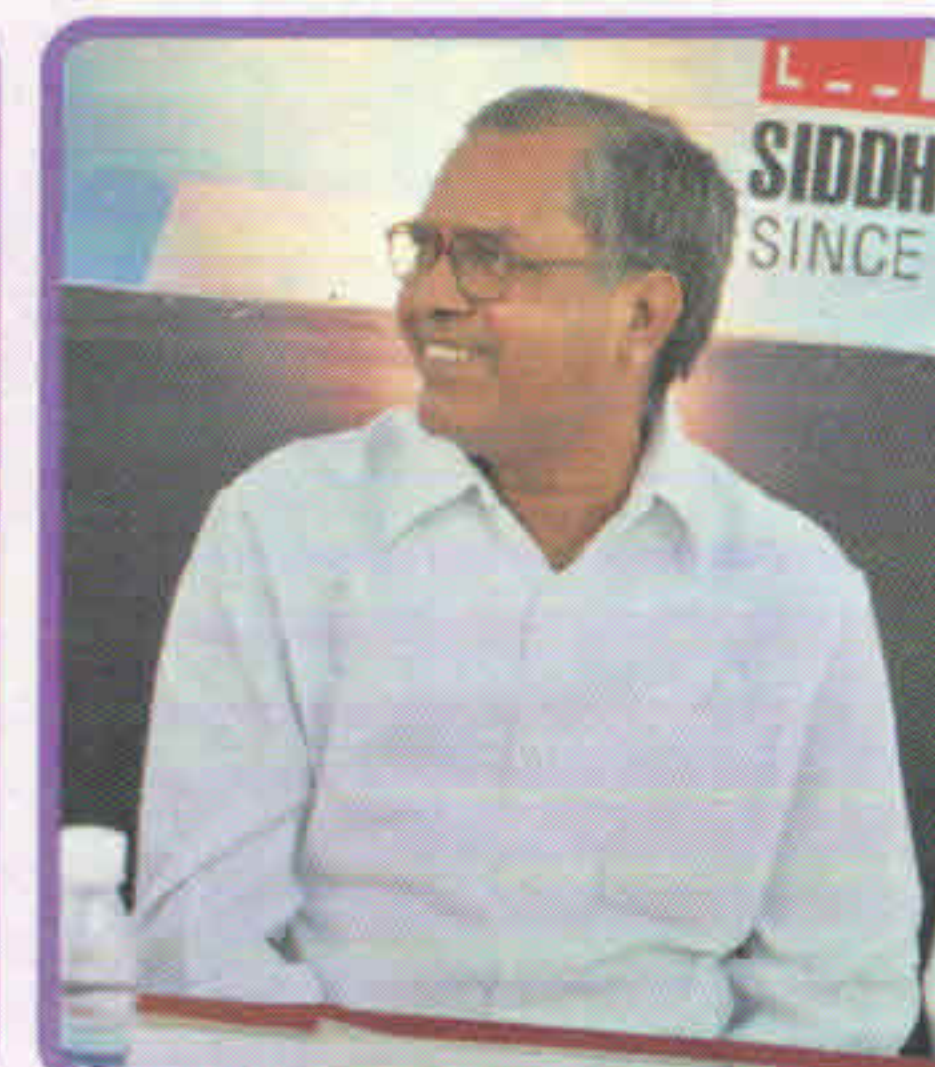
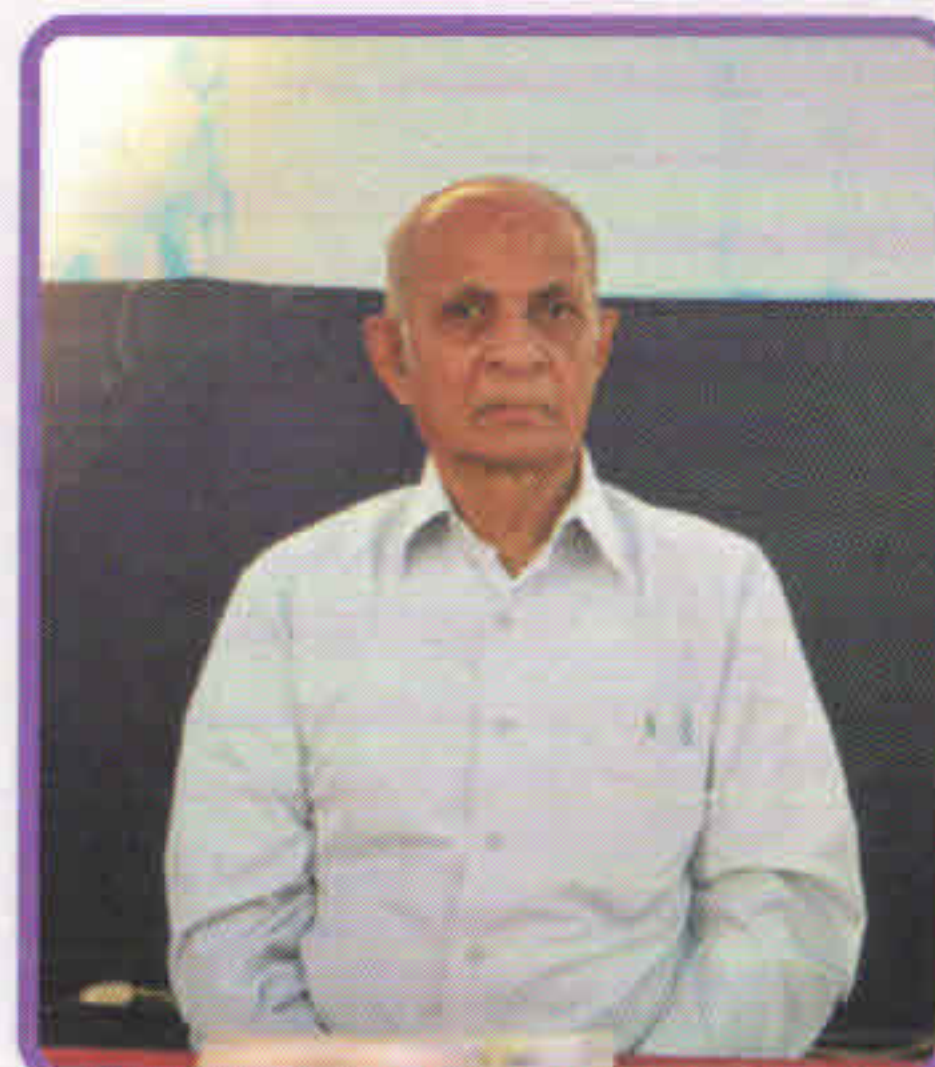
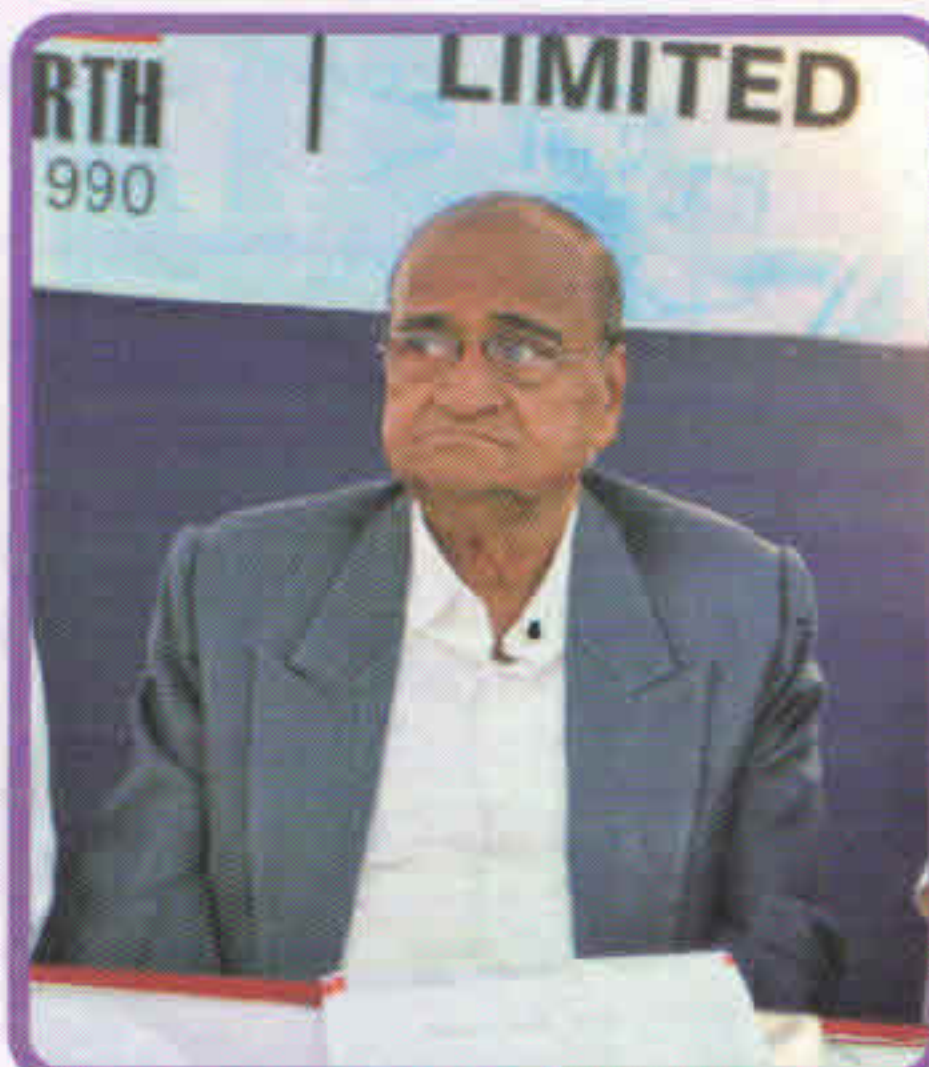


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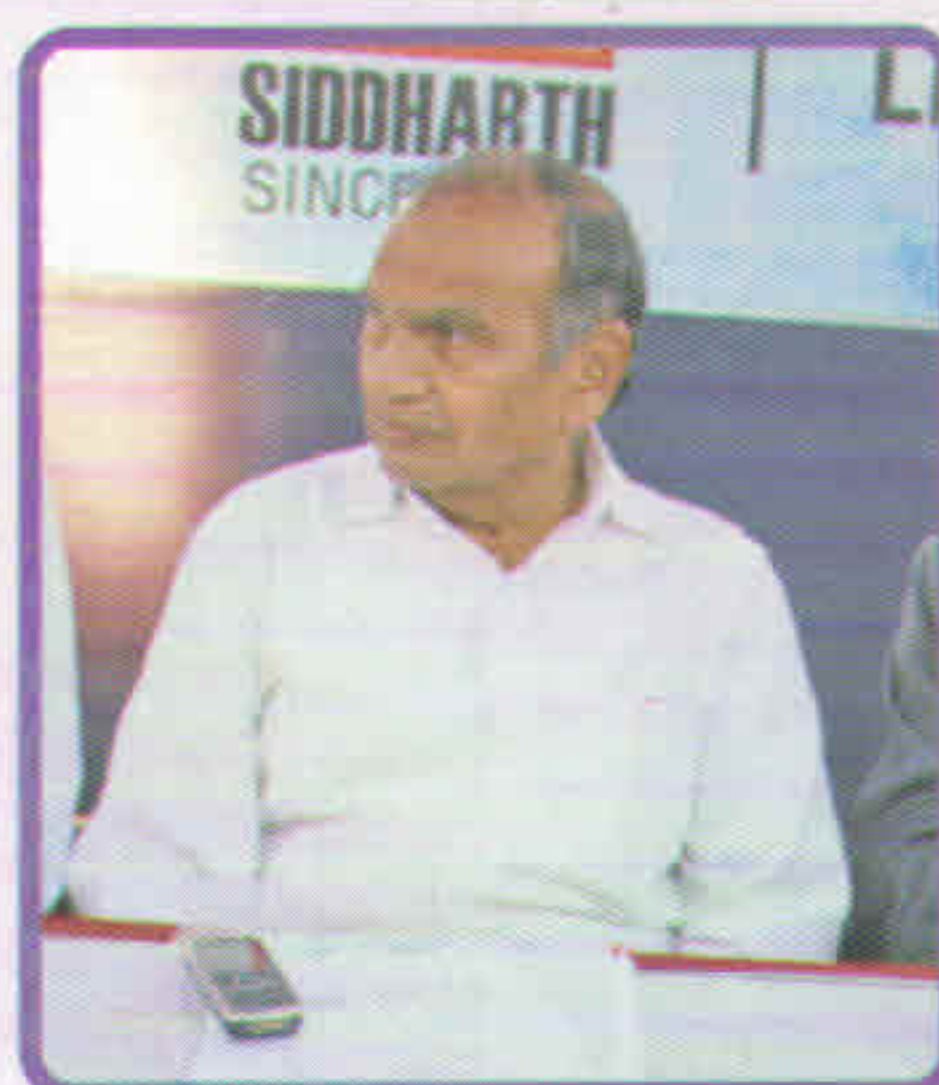
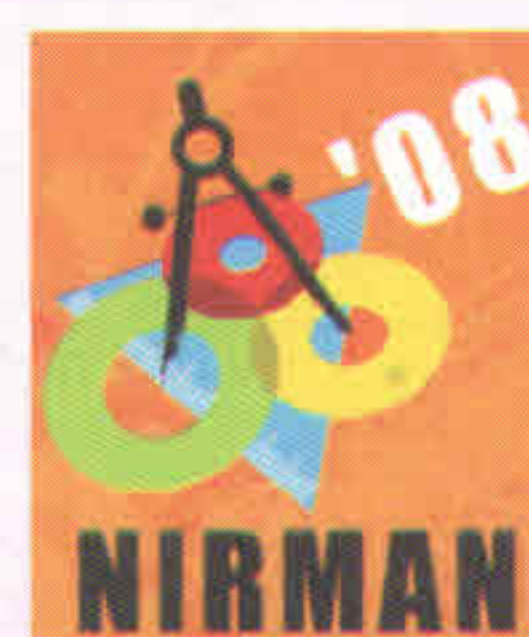




NIRMAN - Gujarat's Largest



Building Material Exhibition



Green Buildings in India : Lessons Learnt

1. Introduction

'A Green building should create delight when entered, serenity and health when occupied and regret when departed' – Perhaps this is one of the most inspiring definitions of a Green building, articulated in the book 'Natural Capitalism'.

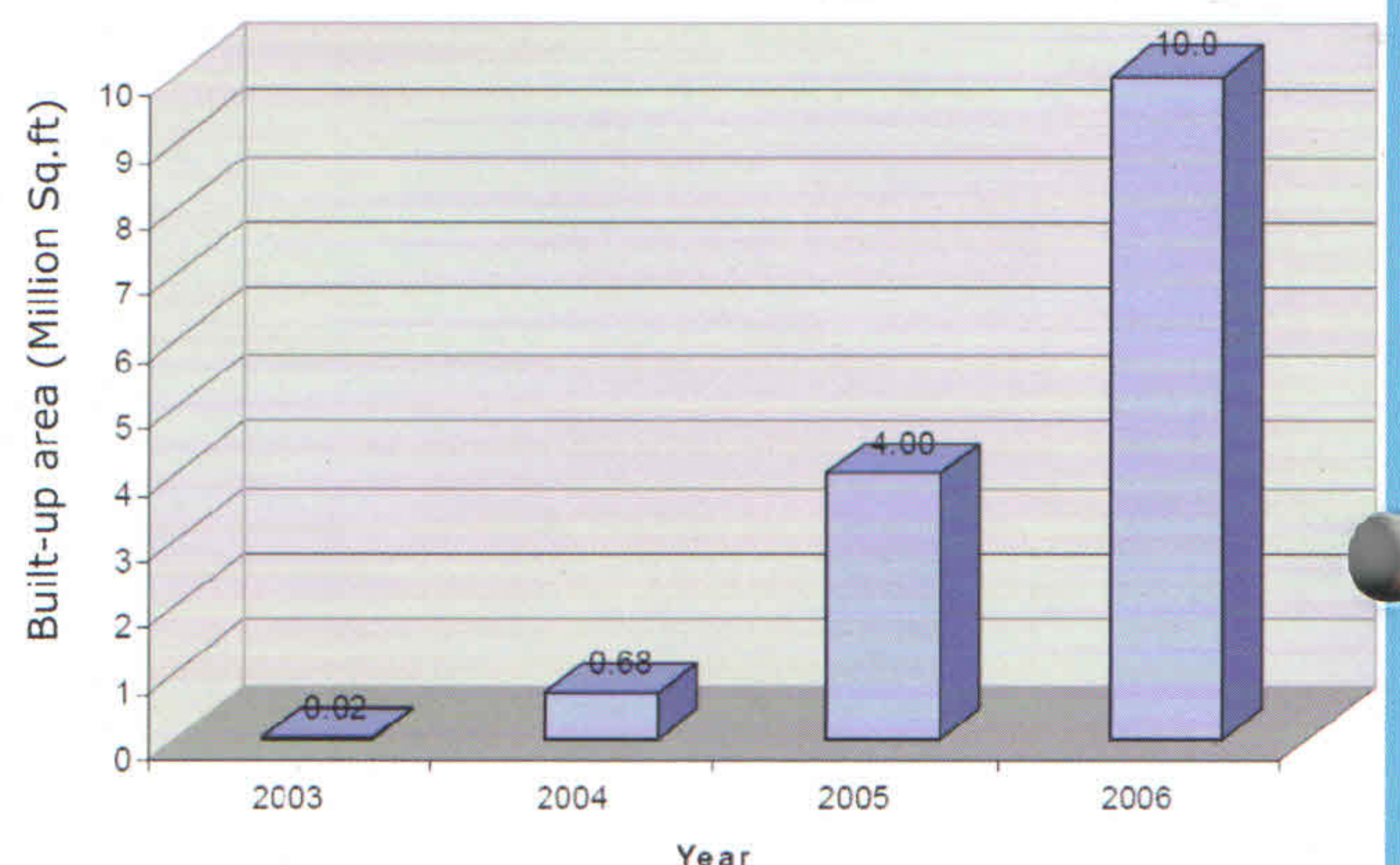
The concept of green buildings is not as nascent as we think it is. For example, our own ancestors worshipped the five elements of nature - Earth as 'Prithvi, Water as 'Jal', Agni as 'Energy', Air as 'Vayu', and Sky as 'Akash'. Today through the LEED (Leadership in Energy & Environmental Leadership) green building rating system, we are rediscovering the Indian ethos.

The Green building movement has gained tremendous momentum during the past 3-4 years, since the CII- Godrej GBC embarked on achieving the prestigious LEED rating for its own centre at Hyderabad. The Platinum rating awarded for this building sparked off considerable enthusiasm in the country.

From a humble beginning of 20,000 sq.ft of green footprint in the country in the year 2003, to a staggering 10 million sq.ft expected by end 2008, green buildings are well poised to reach scalar heights.

Today a variety of green building projects are coming up in the country – **residential complexes, exhibition centers, hospitals, educational institutions, laboratories, IT parks, airports, government buildings and corporate offices.**

Growth of Green Buildings In India



2. Why people are attracted towards a green building ?

This question has been posed to several occupants of a green building. Of all the many reasons, three top reasons often cited by those occupying these buildings are the following:

Operational Savings: Green buildings consume at least 40-50 % less energy and 20-30 % less water vis-à-vis a conventional building. This comes at an incremental cost of about 5-8 %. The incremental cost gets paid back in 3-5 years time.

Daylights & Views: Working in environment with access to daylight and views provides connection to the exterior environment. This has a soothing effect on the mind. Various studies prove that the productivity of people who have access to day lighting and views is at least 12-15 % higher.

Air Quality: Green buildings are always fresh and healthy. Every green building will have to purge continuous fresh air to meet the ASHRAE 62 requirements. The green buildings use interior materials with low volatile organic compound (VOC) emissions.

A typical office building would require purging of fresh air of about 15 cfm/person which provides a fresh ambience inside the building.



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A GIFT OF GUJARAT

(GUJARAT INTERNATIONAL FINANCE TECH-CITY)

Basics of GPS

(GLOBAL POSITIONING SYSTEM)

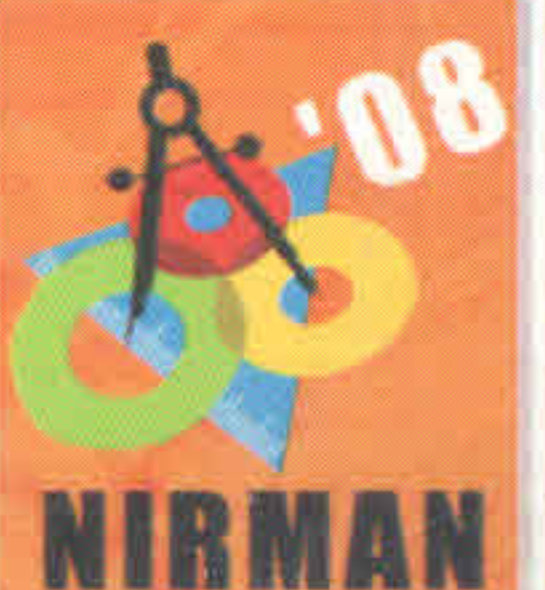


CAD Industry

(NEW CHANGE - "REVIT")



REPORT



3. Perceptions and Realities

Having covered on the benefits it is also important to know that people have different perceptions on green buildings; some are correct and some are otherwise. It is important to look at these:

Perception #1: Green buildings are costlier

Reality: Considerable research and analysis has been carried out with regard to the cost impacts of a green building. The cost could be slightly higher than a conventional building. But then, this needs to be seen with a different paradigm.

The question is how do we compare the costs?

There needs to be a baseline cost for all comparisons to be alike.

The incremental cost is always relative and depends on the extent of eco-friendly features already considered during design. The incremental cost would appear small if the baseline design is already at a certain level of good eco-design; It would appear huge if the base design has not considered green principles.

The second and rather a critical paradigm is to look at the incremental cost in relation to the life cycle cost. This kind of an approach could be revealing. Who knows, buildings would last for a 50 years or 60 years or 100 years!. Over its life cycle, the operating cost would work out to **80-85 %** while the incremental cost which is a onetime cost is only **8-10 %**.

The table below captures the typical payback period in the recently constructed green buildings in India.

Building	Built-in Area (Sqft)	Rating Achieved	% increase in cost	Payback (Yrs)
CII-Godrej GBC	20,000	Platinum - 56 points	20 %	7 years
ITC Green Centre, Gurgaon	1,70,000	Platinum - 52 points	15 %	6 years
Wipro, Gurgaon	1,75,000	Platinum - 57 points	8 %	5 years
Grundfos Pumps, Chennai	40,000	Gold - 42 points	6 %	3 years

There is a decreasing trend in the incremental cost over the years. This trend would continue and we all look forward to the day when the cost of a green building is lower than a conventional building.

Perception # 2: Green buildings have to be air-conditioned

Reality: Green building concepts and the LEED rating can be applied for non-air conditioning buildings. It has been applied on three such buildings in India viz., IGP office, Gulbarga, the Royal Engineering College, Hyderabad and LIC office, Shimoga.

While performing the energy analysis using software tools, such buildings will input the same cooling system both in the baseline and the proposed design. This ensures that the building is recognised for any of the other energy efficiency measures incorporated, for example - the envelop, lighting, roof insulation etc.,

This kind of an approach also ensures that an apple-to-apple comparison is made while evaluating two green buildings, whether conditioned or not.

Perception # 3: Green buildings take more time

Reality: There is a general perception that going the green way may affect the project schedules. This was perhaps the case for the CII-Godrej GBC building when it was the first time that a green building rating tool was being applied in the country.

The design in this case took about one-and-half years while the construction was completed in about 9 months !

Thanks to the Green building movement; now there is so much of capacity building that has happened in the country. Now, there is absolutely no difference in the time involved in constructing a green building

vis-à-vis a normal building. The time schedule for the rating can be synchronized with that of the building. This has been amply demonstrated in buildings like the Wipro in Gurgaon and Grundfos in Chennai.

4. Typical ingredients for success

The LEED rated buildings in the country have demonstrated certain similar characteristics which have contributed immensely to their success:

- Integrated design efforts : Incorporating green design is not the effort of one individual design member. It requires an integrated effort on the part of all the team members the architect, builder, consultants and the vendors. Achieving the final rating becomes easier when every member is committed to the green design principles
- Top level commitment : The commitment has to come from the top decision makers from the owner's side. Projects with such top level commitment do exceedingly well. Commitment and passion of the architect to deliver a green also is critical.
- Perseverance and determination: Achieving a LEED rating and particularly the Platinum rating requires a high level of perseverance. To avoid any disappointments, projects should ensure that they attempt for atleast 5-7 additional points than the threshold required for a particular rating.

5. Market Transformation

The construction of the CII-Godrej GBC at Hyderabad, as a green building has enabled a wonderful market transformation in the country. Building owners and developers today demand green buildings from the designers.

New products like the waterless urinals were first introduced at the GBC building. Today we have other buildings also installing these urinals.

These urinals which were purchased in 2003 ,at

Rs.14000/- for the Centre are now available for Rs.6500/-.

Other products introduced include flyash bricks, recycled carpets, high albedo roofing materials, high performance glass, certified wood, low VOC paints high COP chillers and CO2 sensors.

Green building footprint worth Rs. 2000 Crore would be constructed in the country by 2008, of which the market for green building materials & equipment will be Rs. 1500 Crore.

6. Lessons from Past Experiences

With about 40 buildings coming up in the country there have been some key learning in applying the LEED rating system.

A few of them are the following:

- Have the commitment of the entire design team to deliver the rating. Define the role and accountability of each design member. This can be a good strategy to ensure easy implementation

- Conceive green by design. Otherwise projects may end up in not being able to apply for certain credits. For example, it would be almost impossible to achieve daylight credit if the depth of the building has been designed more than 4-5 m.
- Freeze the baseline costs right at the beginning so as to realistically evaluate incremental cost due to green aspects. Otherwise, green design can be a easy scapegoat to account for incremental cost due to other factors
- Use energy simulation tool right at design stage to decide on material and equipment selection. If this is not taken care initially, it may turn out to be an academic exercise
- Certain material related credits viz., low VOC paints, adhesives, sealants, appear easy. So also a few construction related credits like managing construction waste and building flush out. But these require close monitoring and proper documentation ; otherwise a project can lose out on these.

7. LEED India – Indigenised Rating System for India

Eco or green design principles are universal; it cannot be one for USA, one for India and one for Japan. Most of the green building rating systems touch on the same chord – conservation of resources. But the LEED rating system has turned out to be the most versatile and robust. After considering various rating systems, the Indian Green Building Council (IGBC) decided to adopt the LEED rating system.

The IGBC is working in India to indigenise the LEED rating system to include the local factors. 'LEED India' rating which considers local Indian codes and standards is in an advanced stage of development. The LEED India will follow the following standards:

NBC guidelines for:

- Erosion & sedimentation control
- Rain water harvesting
- Safety for workmen during construction

MoEF guidelines for large projects

CPCB norms for DG set emissions

Wild Life Institute of India, Dehradun to define Endangered species

Environmental Information System (ENVIS) for Wet lands preservation

ECBC for energy baselines

In a major boost to the LEED rating system, General Services Administration (GSA) USA recently compared 5 rating systems and found the LEED system to be the most credible among five systems evaluated.

The five rating systems evaluated were: 1) Building Research Establishment's Environmental Assessment Method (BREEAM); 2) Comprehensive Assessment System for Building Environmental Efficiency (CASBEE); 3) GBTool; 4) Green Globes US; and 5) LEED.

8. Conclusion

The green building experiences in India have been exciting and challenging as well. Since its introduction in 2001, the LEED rating has emerged as a very useful tool in designing a green building.

The LEED rating provided opportunities to introduce new products and materials. The easy availability of most of the green materials and equipment in the country has made it easier for the designers to adopt local materials to a very large extent. Now there is an imminent need for service providers, who would be required in large numbers, not in hundreds but thousands, as the movement is heading to reach greater heights.

The green building movement is here to stay for the benefit of individuals, society and the country at large.

AUTODESK® REVIT

The **BIGGEST NEW CHANGE**,
The CAD Industry is going through now... is called **REVIT**

Which software do you remember first when you say, CAD?
Most of us will say... "AUTOCAD", isn't it?

AUTOCAD & similar other software has been in the market for a very long time now. Their use is inevitable in building industry. Just the way, drafting boards were a part of our lives before some years.

When we say, the biggest new change in the cad industry... Are we expecting AutoCAD to find a lonely corner too in our offices like our drafting boards today??

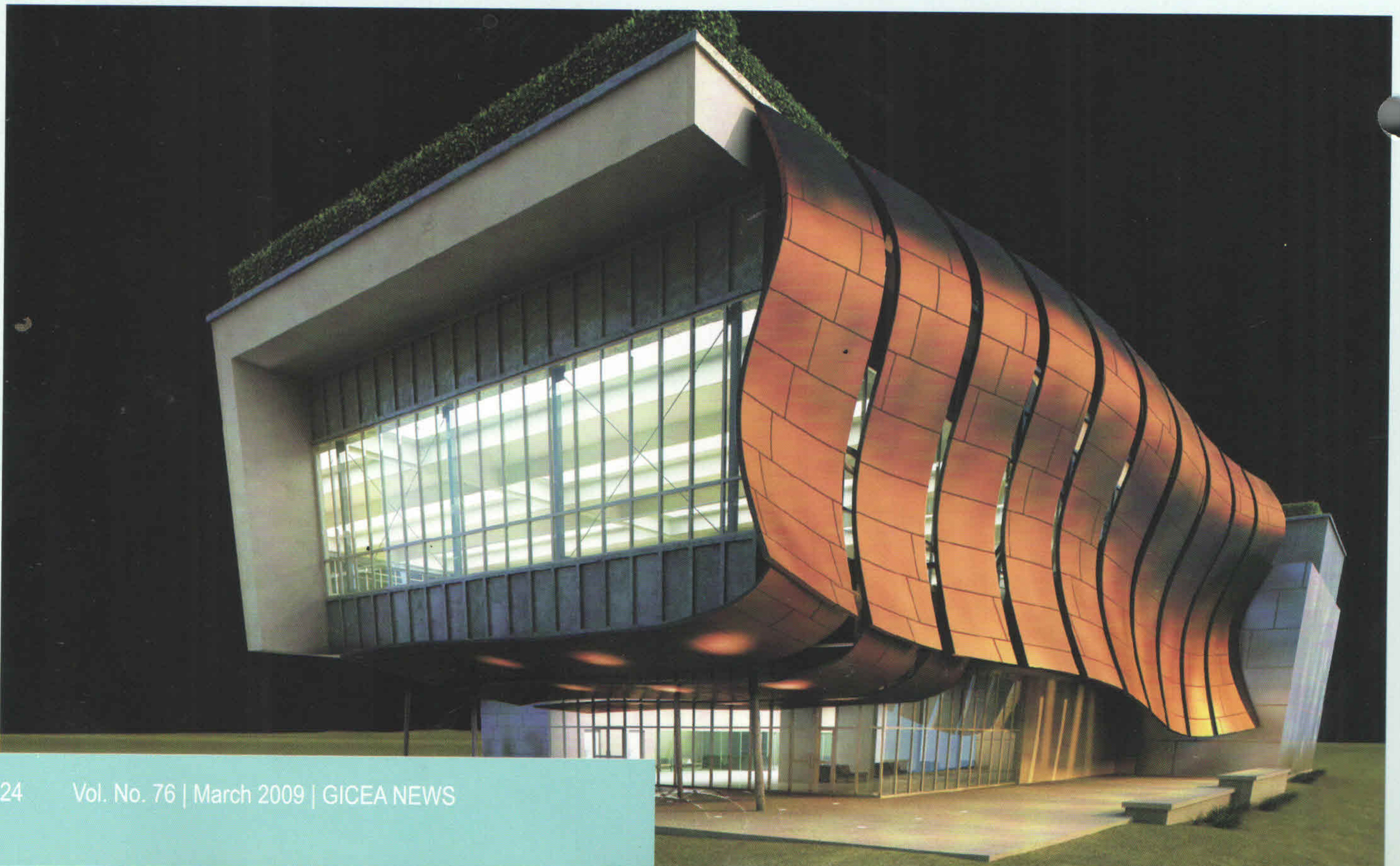
Well, it is possible. And it has started happening!!

The powerful tool that is a key reason for this change is called "Autodesk® REVIT" software.

Let me take you on a small tour of the software & you can form your own conclusions.

AUTODESK® REVIT

Till now, we were aware of CAD which is Computer Aided Design. But REVIT is based on the technology called BIM which is Building Information Modeling. BIM is much smarter, more intelligently built & has more capacity of understanding the building construction process.



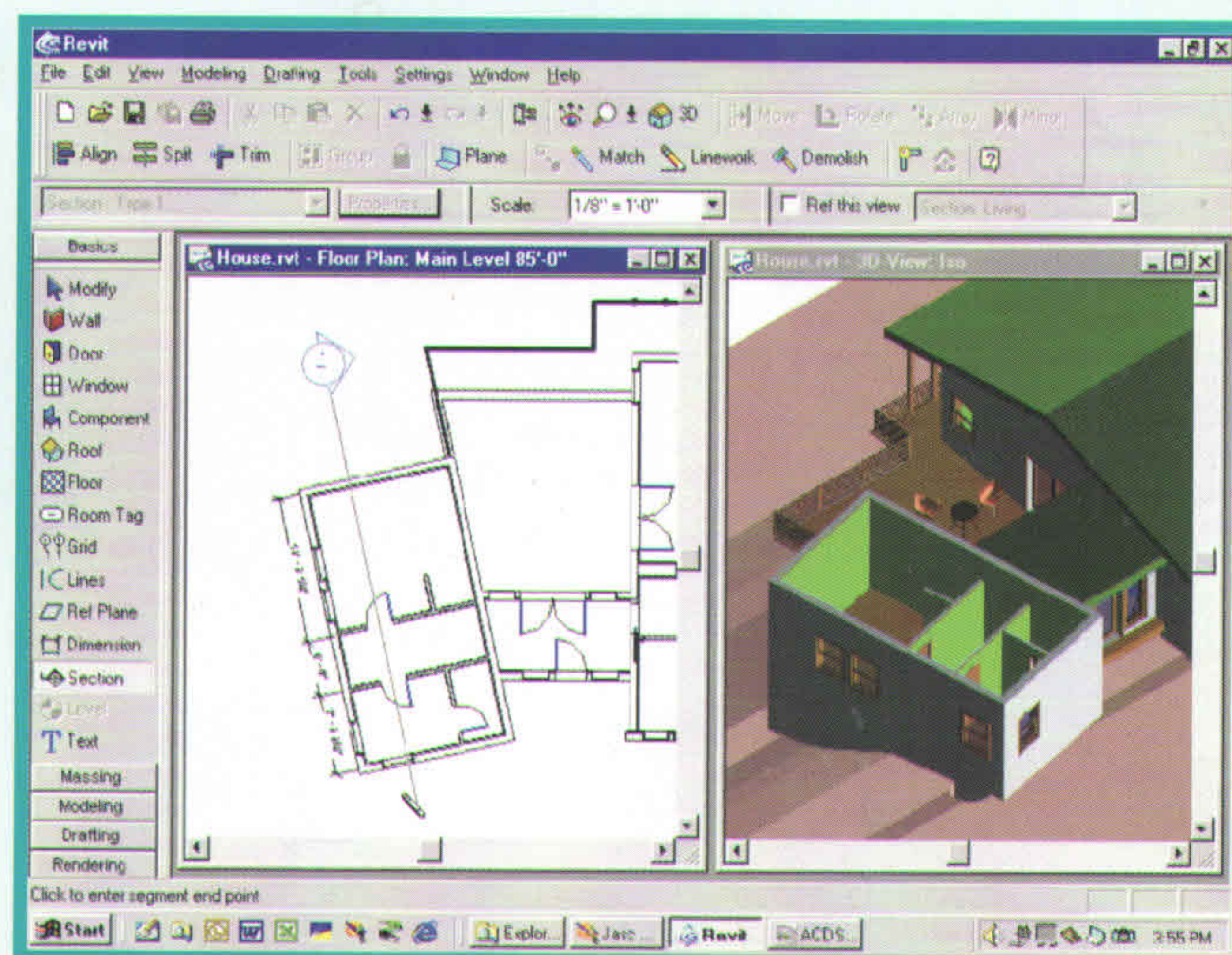
For architects, engineers, builders, owners and other industry professionals, building information modeling (BIM) is a powerful new way of thinking about their work and how technology supports that work. Since the term was first introduced by Autodesk® in 2002, BIM has changed how the industry talks about technology - but what about how the industry uses technology? What are IT and CAD managers doing today to implement building information modeling in their firms? How is their life different now than it was a year ago? What's working for them, and what has been difficult?

Oculus Inc. from St. Louis, started experimenting with building information modeling several years ago and is now using Revit Architecture every day for 80 % of their work.

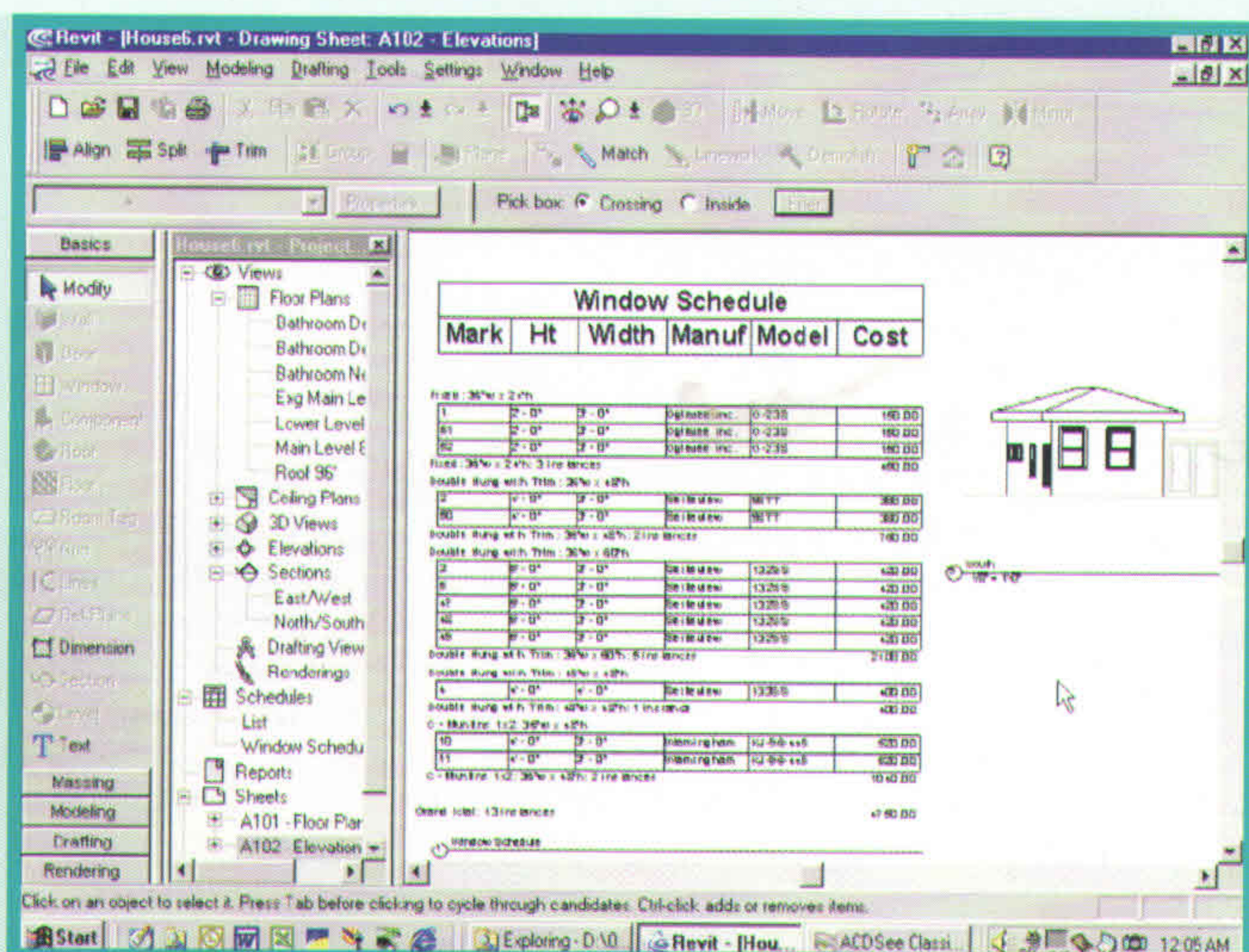
Mr. Brain Kern from Oculus Inc. points to the intuitive user interface in Revit Architecture as the primary reason architects learn the program so quickly. "Because Revit Architecture was designed around the way architects work, it's a whole lot easier to get people up to speed. Rather than working with lines and arcs, you're working with the walls, doors and windows. Designers are able to focus on what they're trying to produce rather than learning a new tool."

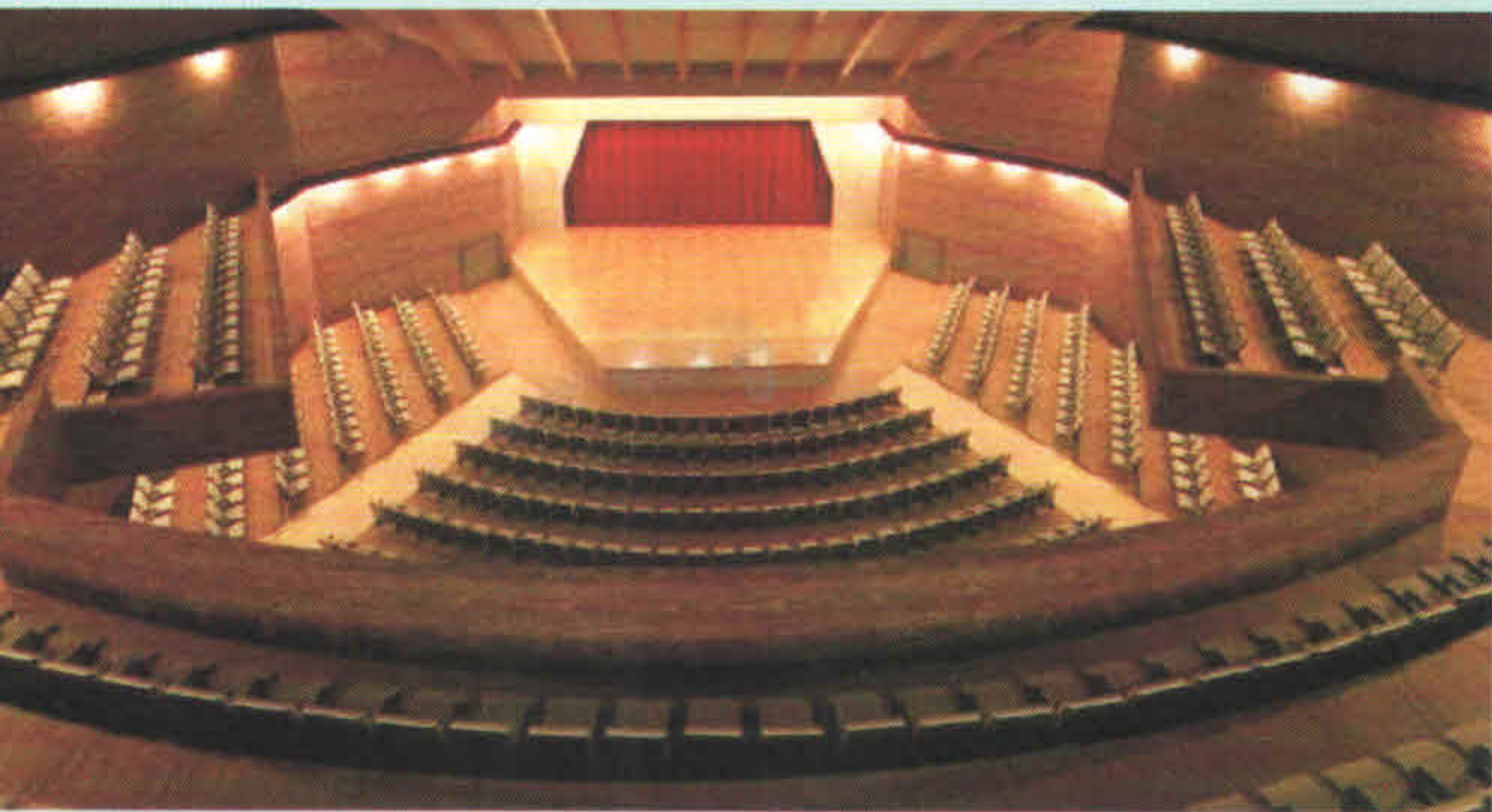
Features of AUTODESK® REVIT:

- **Create naturally, design freely, and deliver efficiently.** Purpose-built for building information modeling (BIM), any change you make anytime, anywhere is automatically coordinated everywhere in your project.
- **It creates 2D & 3D of the building model together.** So now you can say a permanent good bye to drafting & only focus on designing.
- **Integrated Scheduling & Material quantities are always accurate in revit.** It was never so easy to have construction documents prepared so fast & easy.



"We're able to give the clients more in less time. Using Revit, we can provide three versions of a finished design in about two days, including renderings and area calculations," commented Mr. Thompson, who has been using Revit in his firm since 2002. "But where the real-time savings come in, once we get an approval, we are over half way done with our construction documents. In the past, you'd just be starting the documentation phase."





- **Visualization & Presentation** Much improved rendering power of Revit Architecture 2009, now designers do not have to depend on any other software for their visualization needs!
- **Support for Unusual Geometry** Revit supports the most elaborate geometry while maintaining a faithful description of the building project. Here, this curtain wall is made up of mullions and glazing panels of which we can produce accurate schedules & material quantities.

The Revit platform is Autodesk's purpose-built solution for building information modeling. Applications such as Revit Architecture, Revit® Structure, & Revit® MEP (Mechanical/Electrical/Plumbing) built on the Revit platform are complete, discipline-specific building design and documentation systems supporting all phases of design and construction documentation. From conceptual studies through the most detailed construction drawings and schedules, applications built on Revit help provide immediate competitive advantage, better coordination and quality, and can contribute to higher profitability for architects and the rest of the building team.

For more information about the software and its training, contact f5techzone.atc@gmail.com

CONGRATULATIONS



Shri Yogesh S. Shah
(Flm - 440)

Heartiest Congratulations for winning singles and doubles Tennis Title in 45 + Age group category at **First ITF Dubai Open Seniors Tennis Championship 2009** held in Dubai in march 2009. Wish you many more TITLES



National Award - Structural Design

Client: KHS Machineries Limited, Hirapur, Gujarat
Architect: HCP Design & Project Management Limited
Structural Engineers: N K Shah Consulting Engineers, Ahmedabad



Mr. Anal Naresh Shah of N.K.Shah Consulting Structural Engineers has received National Award by Institute For Steel Development & Growth (INSDAG) in National Competition for professionals on structural steel design and construction. He has received this award for complex structural design of factory building of KHS Machineries Ltd. at Hirapur, Mehmdavad. The innovative idea of HCPDPM; leading architectural firm of India had complex structural challenges which were resolved both architecturally and structurally.

Project Brief

The factory has four numbers of sheds of about 27 meter span and 16 meter of height. The sheeting is done from inside making it exposed steel structure and completely "Birds Free" factory. The 20 Ton crane inside the factory sits on the cantilever columns of almost 7 meter high which is free from main steel portal. This unique design separates vertical cladding sheeting and windows from any vibrations of crane. The glazed gable end and windows at the crest of the portal makes it energy efficient. Over 600 Tons of weather resistant TATA hollow box sections with copper content was used first time in Gujarat. The project exhibits uniqueness both Architecturally and Structurally.

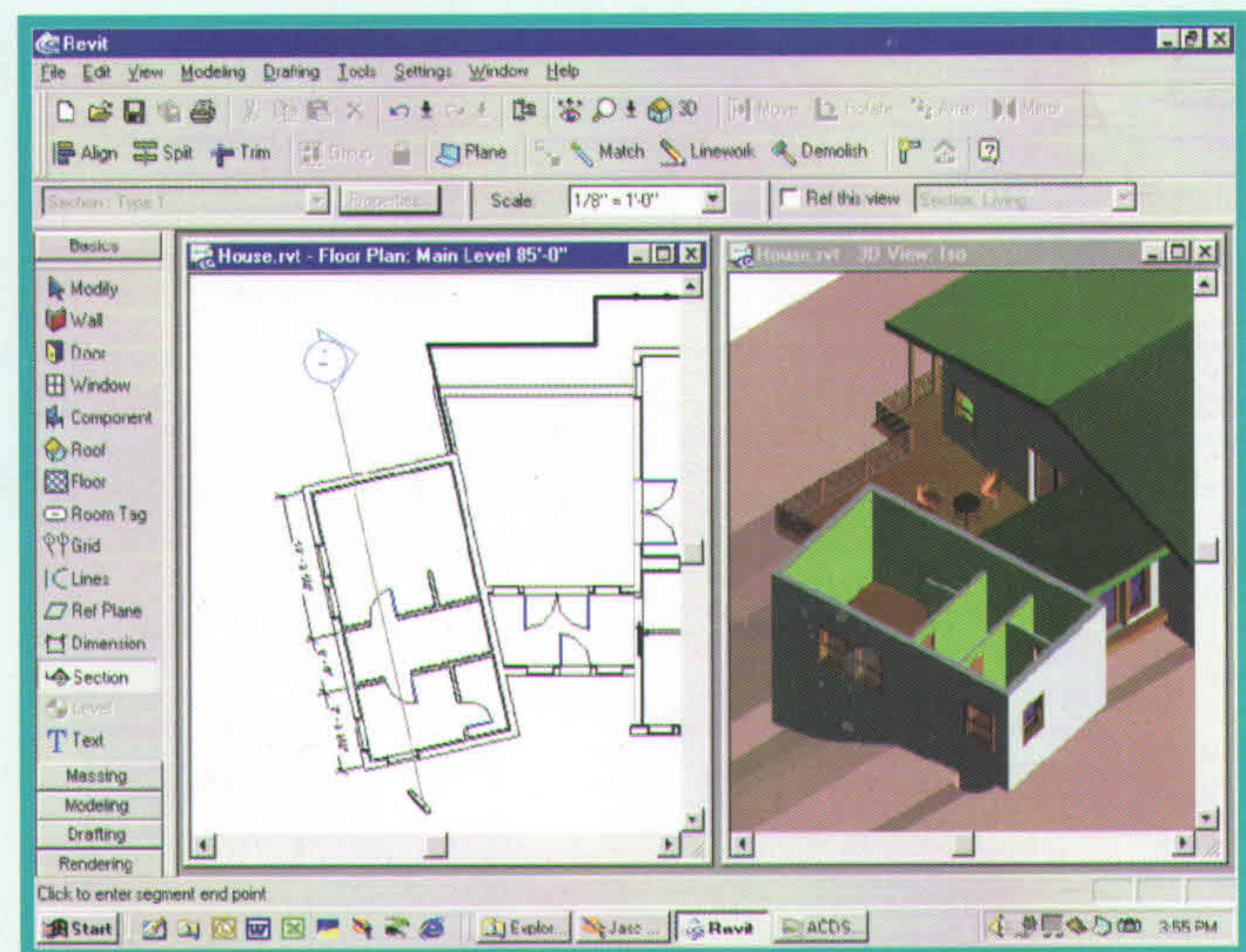
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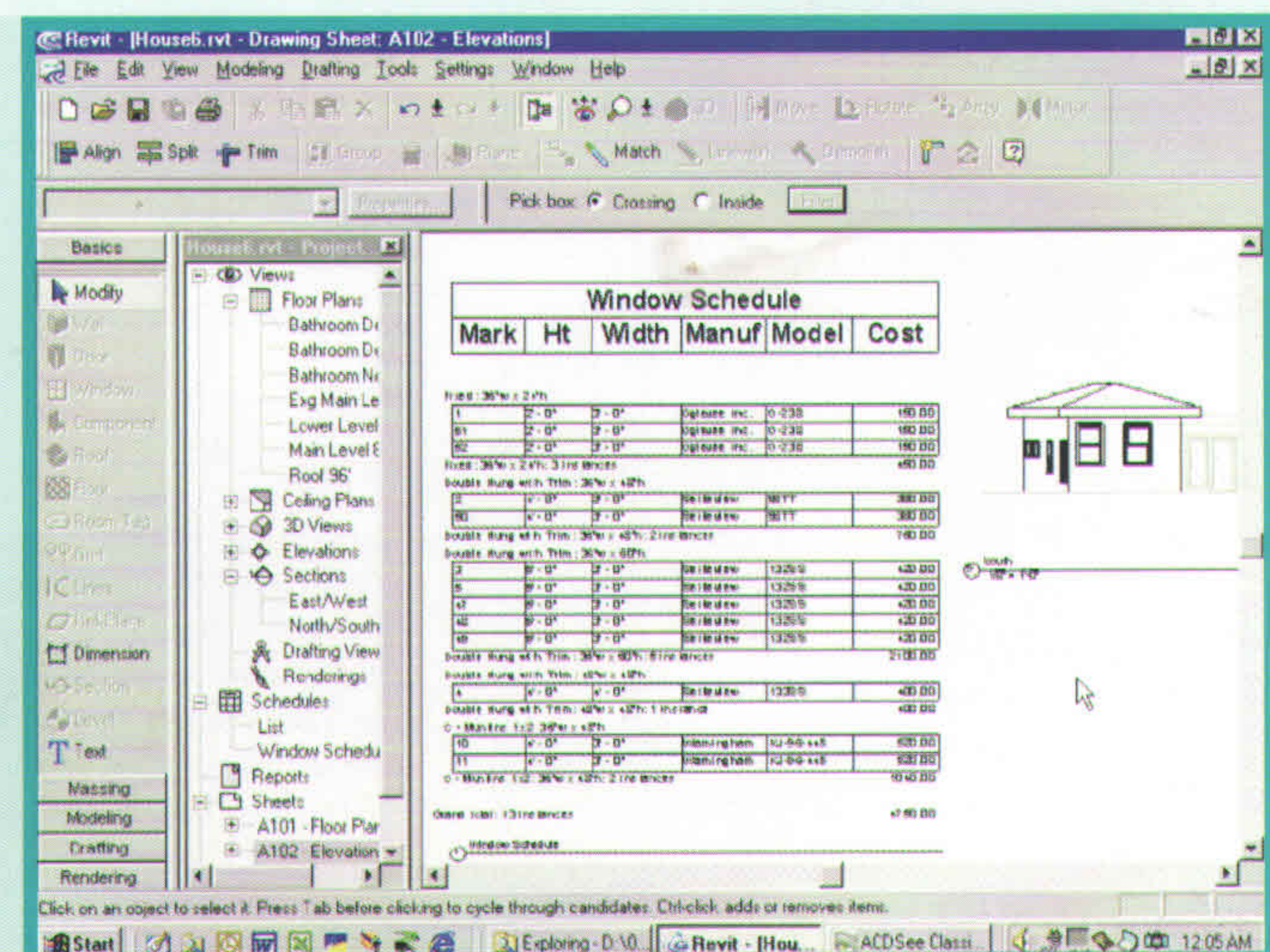
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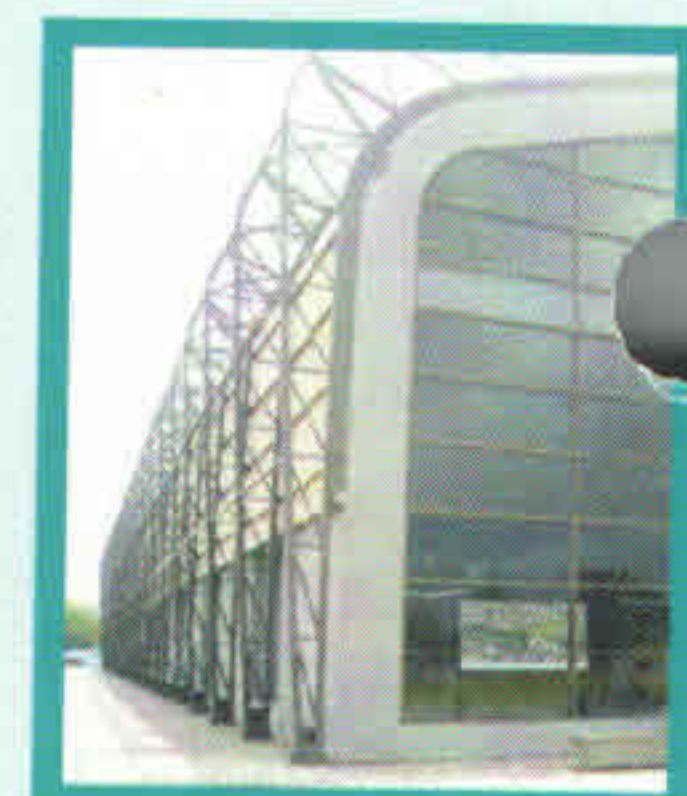
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Glimpses of GICEA Events



Seminar - Tall Structures - Design Aspects jointly organised with Ambuja Cements Ltd.



Seminar - Usage of "Resource Efficient" Plastics in Building Construction jointly organised with Reliance Industries Ltd.



Seminar - "Pre-Engineered Building & Self Supporting Roofing System" jointly organised with M/s. Manibhai & Brothers



Seminar - "Hitech City - A Global Business Platform"



Seminar - Middle Income Housing - Shri Nitinbhai Patel - Minister of Urban Development & Urban Housing



Seminar - "First Multilevel Flyover of Gujarat : Udhana - Majura Junction on Ring road, Surat" with Ranjit Buildcon Ltd.



Audience at GICEA programme



Special General Meeting - Social Security Scheme of GICEA



Seminar - Affordable Housing



Group Photo - Seminar - Affordable Housing



Social Security Scheme - Programme Diabesity & Heart Diseases



Social Security Scheme of GICEA - Programme Kidney Diseases



Gathering on World Heart Day Rally



Blood Donation Camp on 15th August

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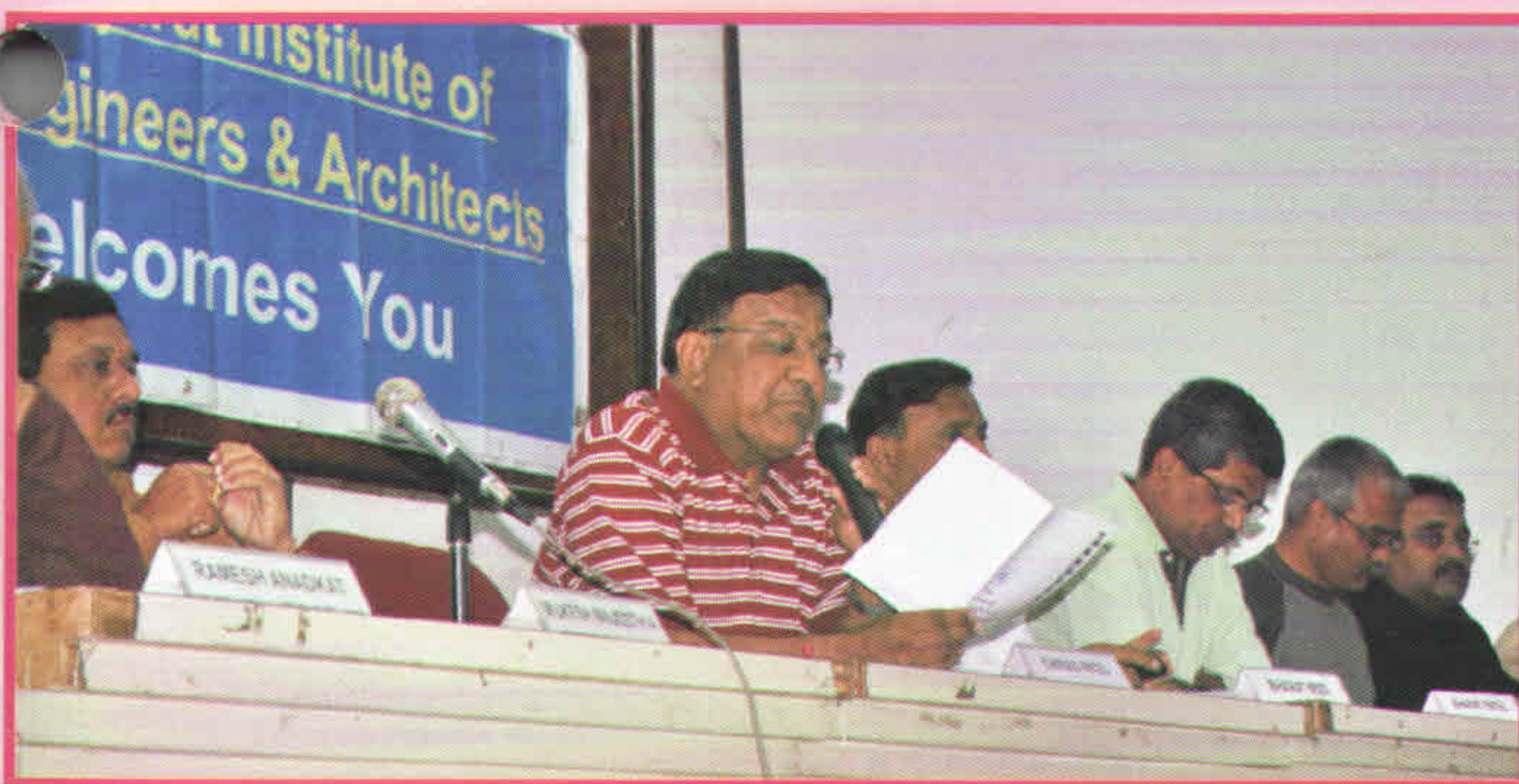
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For any more queries & comments about the
articles, please contact GICEA newsletter
committee



Seminar - "The River Sabarmati" - Ar. Barnad Kohn, France



Seminar - Green Architecture & Energy Efficiency at Rajpath Club



Special General Meeting of GICEA



Joint Programme with Institution of Valuers



Social Security Scheme - Programme Knee Replacement - Dr. Bharat Modi



Social Security Scheme of GICEA - YOGA SHIBIR



Flag hoisting ceremony on 15th August



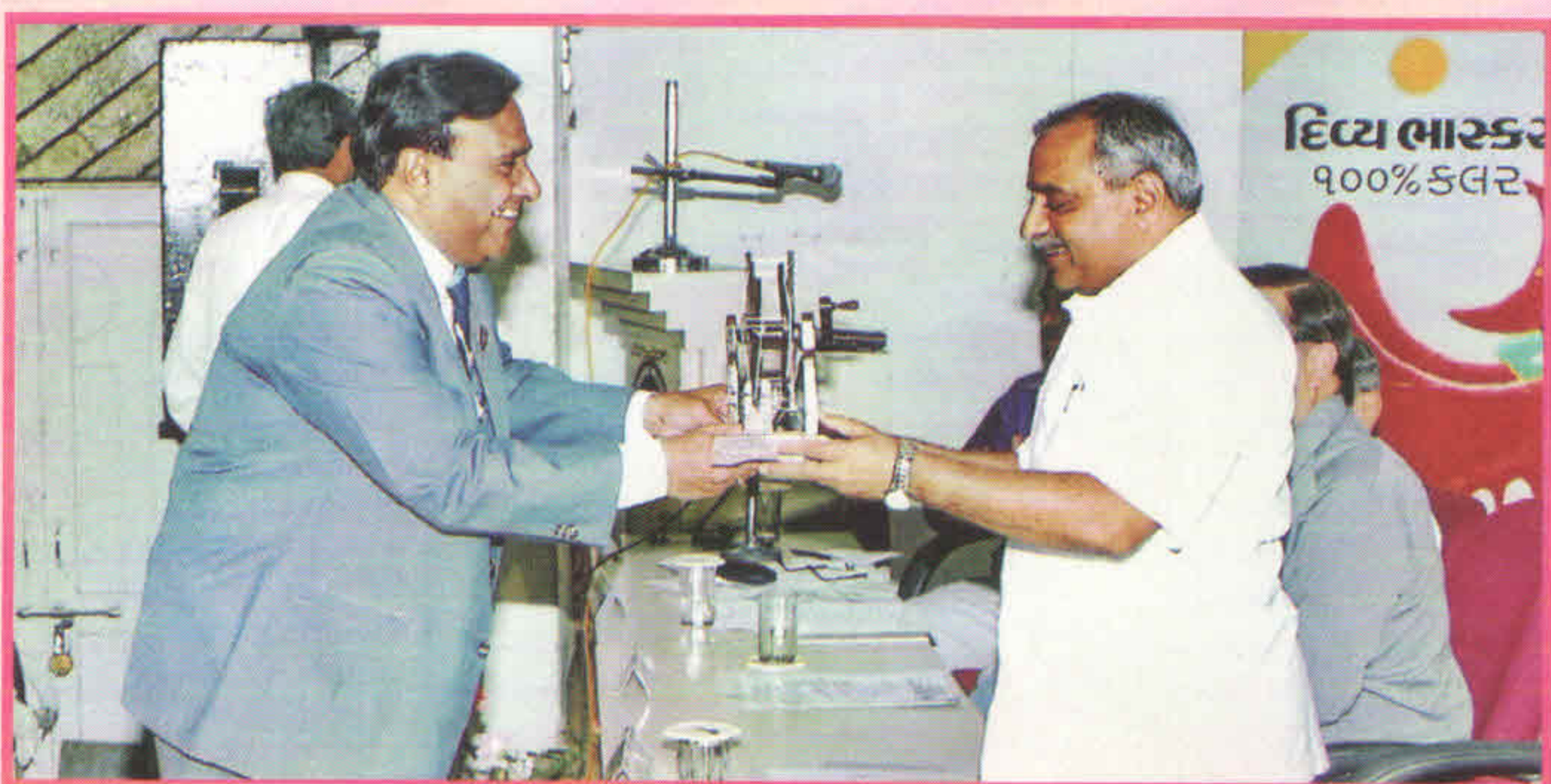
Programme on How to tackle Terrorism



Dignitaries on Dias - Senior Citizen Meet



Shri Navneet Thakershy Past President felicitating Shri Anilbhai Bakeri - Seminar Middle Income Housing



Shri Bharat Modi president of GICEA presenting Memento to Shri Nitinbhai Patel Minister of Urban Development & Urban Housing - Seminar - Middle Income Housing



Felicitation of Shri Hareet Shukla - Collector of Ahmedabad - Seminar : meet the Public Authority



Shri Surendrabhai Patel M.P. wrapping shawl on Shri Kamal Khokhani - Winter Candle Light Dinner



Shri Bakul Desai - Hon. Treasurer Felicitating Shri Sanjay Thakkar - Winter Candle Light Dinner



Shri S.I. Patel - Secretary - Road & Building Department being Felicitated by Shri K.C. Patel - Winter Candle



Shri Mukesh Majeethia Hon. Secretary felicitating Shri Ajay Umat of Divya Bhaskar



Group photo - Winter Candle Light Dinner at Fun Point Club



Glimpses of Rasgarba



Glimpses of Rasgarba



Glimpses of Rasgarba



Dr. Mayaben Kodnani Minister of Women and Child Welfare at Rasgarba



Shri Bharat Modi president of GICEA performing Aarti at Rasgarba Programme



Shri Bharat Modi president of GICEA - Award function at Rasgarba Programme



Memento to Shri Atul Karwal Jt. Police Commissioner Traffic Ahmedabad by Shri Bharat Patel I.P.P GICEA



Social Security Scheme - Programme on Menopause



Drama : Radha Rani Mumbai na Sethani - Audience View

President's Message



Dear Members,

It has been an energetic and most satisfying year for me as President of our 62 years old institute in the year 2008-2009. During my tenure as President of this Institute, I have made sincere efforts to develop and enhance the status of our Institute. Also my endeavour has been to create bonding among our members to make them feel as integral part of institute just like family members. I have tried my utmost to create keen interest in the members to take active part and involvement in the activities of the institute.

During the year, we have undertaken multipurpose activities like Technical Seminars, Technical Tours, Public Cause Programmes, Entertainment Programmes, Sports etc. We have represented with Govt. and Semi-Govt. authorities on issues like Jantri etc. This year we have renovated our Gajjar Hall, and updated our Material Laboratory, Environmental Laboratory, and Library. We have convened a Special General Meeting to approve various amendments to our Constitution. We have also modernised and Systemised the entire working of the institute & have received ISO 9001:2008 certificate from International ISO certifying agency. This will enhance the working and prestige of the institute. We are also publishing a Technical Hand Book for the benefit of Civil Engineers & Architects.

A special mention must be made for the mega event exhibition Nirman 2008 which was organised on a vast scale this year and for its spectacular and grand success, I must acknowledge the contribution and efforts of Shri Nitesh Shah.

I am pleased to inform you that currently our institute is in excellent financial, technical and professional position and status. Our views and advise are sought by Govt., Semi-Govt. Authorities and other organisations on various issues.

I am thankful to my GICEA team for their wholehearted support and co-operation in making my tenure meaningful to the institute. I must also record here my gratitude to Shri Navnit Thakershy, Shri N. K. Patel, and Shri Chirag Patel, for their valuable guidance and encouragement during the year. I also wish to thank Shri Mukesh Majeethia – Hon.Secretary, Shri Bakul Desai – Hon.Treasurer, Shri Ramesh Anadkat – Hon.Jt.Secretary, and other Office Bearers, Committee Members, and Colleagues for their well wishes, support and active co-operation.

With Warm Regards,

Bharat Modi
President

Surajit Sen Sharma

Executive Editor - AIM - Courtesy: Construction Journal of INDIA

A GIFT for Gujarat



In June, 2007, two months after the Union finance minister P Chidambaram unveiling plans to turn Mumbai into an international financial centre (IFC), the Gujarat government announced plans to build the world's largest international finance service centre – **Gujarat International Finance Tech-city (GIFT)**.

GIFT was conceived more for outsourcing finances and local trade than for dealing with cross-border finances. The Gujarat government realized that the rusty dispute resolution machinery of India was insufficient to support a full fledged IFC and pushing for an IFS was a better objective than dreaming of an IFC.

Clearly, following the style, that has marked the Gujarat government as different from its critics; the plans for GIFT were backed by concrete action, while Mumbai was still daydreaming.

- The location for GIFT – a 500 acre plot near Gandhinagar on the banks of the Sabarmati was speedily finalized
- Definitive project reports prepared and the investment outlay spotted at around Rs. 24,500 crore (\$6 billion)
- MOUs were formed with major players like Kotak Bank, Chescor and IL&FS each expressing their interest to occupy at least one million square feet of office space
- Target was set to complete the project by 2012
- Employment opportunity arising from GIFT has been calculated at roughly 9 million new jobs
- Contribution to GDP would be an additional \$385 billion by 2020

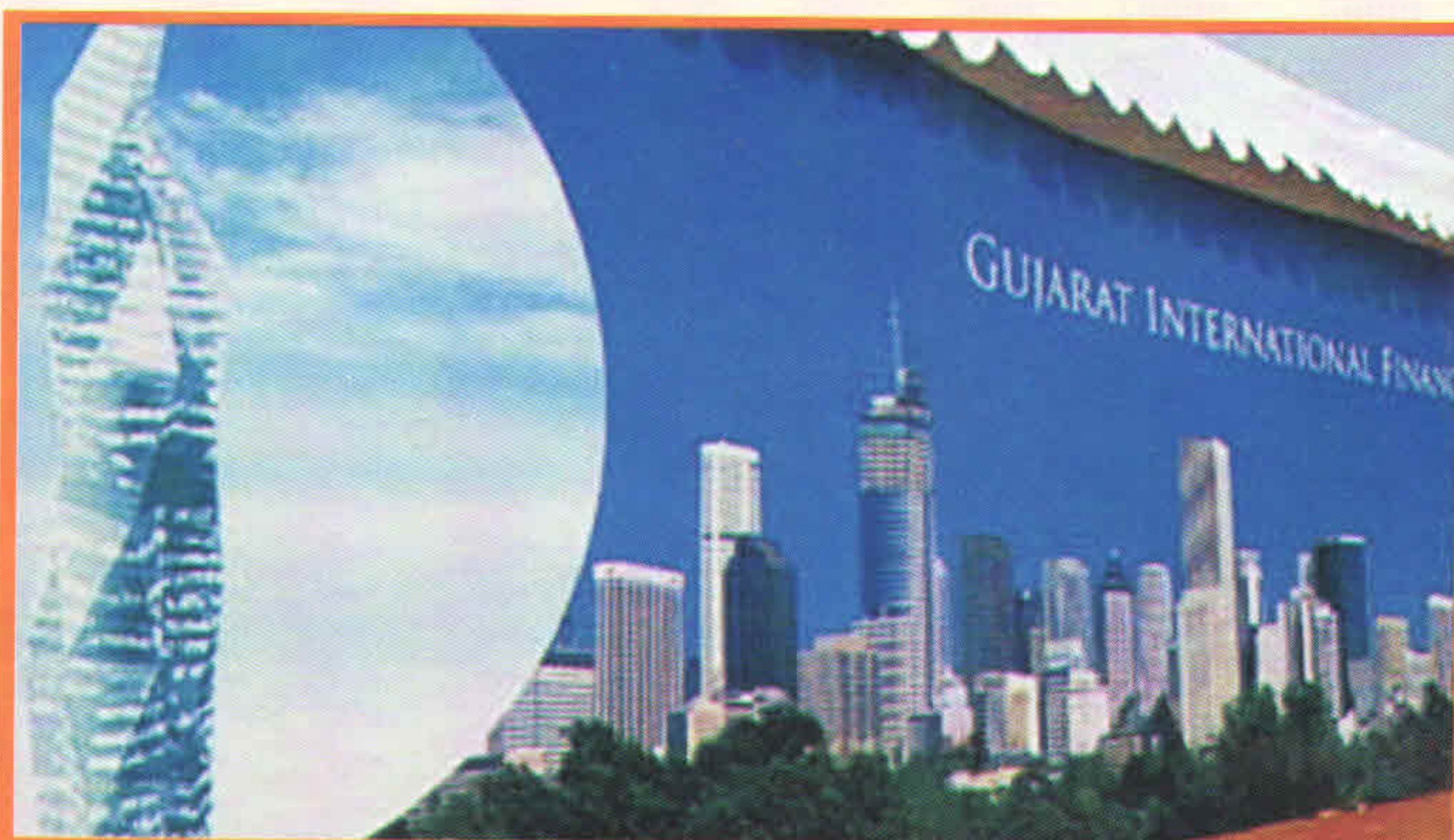
- Coherent support was designed for GIFT and plans for model townships surrounding the project is already in place
- To make the entire project feasible it was split into two parts, one for domestic tariff area (DTA), and the other for a special economic zone (SEZ)
- The DTA will include domestic financial district, domestic techno park, financial and technical services for export oriented undertakings, domestic markets zone and domestic utilities
- The SEZ is divided into processing and non-processing areas, with the processing areas including international financial service centre, international techno park, software technology parks of Indian units, international market zone, exchanges, service units, international education zone. The non processing areas of the SEZ will have utilities, integrated townships, shopping malls, health services, educational institutions, entertainment zone, hotel and convention centre etc.
- Consistent lobbying was done at Central Government to obtain necessary clearances

GIFT will also be adorned by a 400 metre tall diamond faceted steel and glass tower named Diamond Tower, designed by the East China Architectural Design & Research Institute Co. Ltd. from Shanghai renowned for having designed Shanghai's Pearl Tower.

Designed as an extremely environment friendly development that will have the lowest per capita energy consumption of any Indian metro, the project boasts of an impressive green area covering 65% of the total land, in large part due to the number of skyscrapers.

In addition, the area along the Sabarmati River's banks will be developed into a riverfront recreational area, complementing the riverfront developments planned for Ahmedabad.

The project will also have a museum, large conference center, and gardens on the man made Fortune Island, where Diamond Tower would be located. In addition to expressway linkages, GIFT will also boast underground arterial roads, as well as **MRTS/LRTS/BRTS** connections and abundant parking.



Speaking while unveiling the project on 28th June 2007, Gujarat Chief Minister, Shri. Narendrabhai Modi remarked, -

"GIFT is not a real estate venture, it is not a mall, it is not an entertainment zone, it is not about high priced and exclusive neighborhoods, nor is it a mere market place. It is a new way of doing business and living. **GIFT** is for those who seek higher and safer standards of life, for a Walk-to-Work environment. It will be the Urban Infrastructure that works. We are offering world-class finance and technology standards coupled with a world class urban infrastructure that works. We will give you roads, power and water. We have an international airport, at a mere ten minutes drive."

The Target Sectors of GIFT

Business	Nature of Opportunity
Financial Services Operations	Back-office of banking, Insurance and Asset Management Companies
Financial Services	Corporate roles in financial services companies.
Corporate Center	E.g. Accounting, HR, Admin, IT
Select Product Market	Private banking, Product development, microfinance etc.
Capital Market and Trading	Includes DCM, ECM, M&A, Commodity trading, Private Equity, Hedge Funds and Institutional brokerage
IT services	Software Application development and maintenance for BFSI and other verticals
ITeS/BPO Services	Captive BPOs of large global financial services companies, 3rd party BPO service providers, KPOs etc.

The Locational Advantage and Land Layout

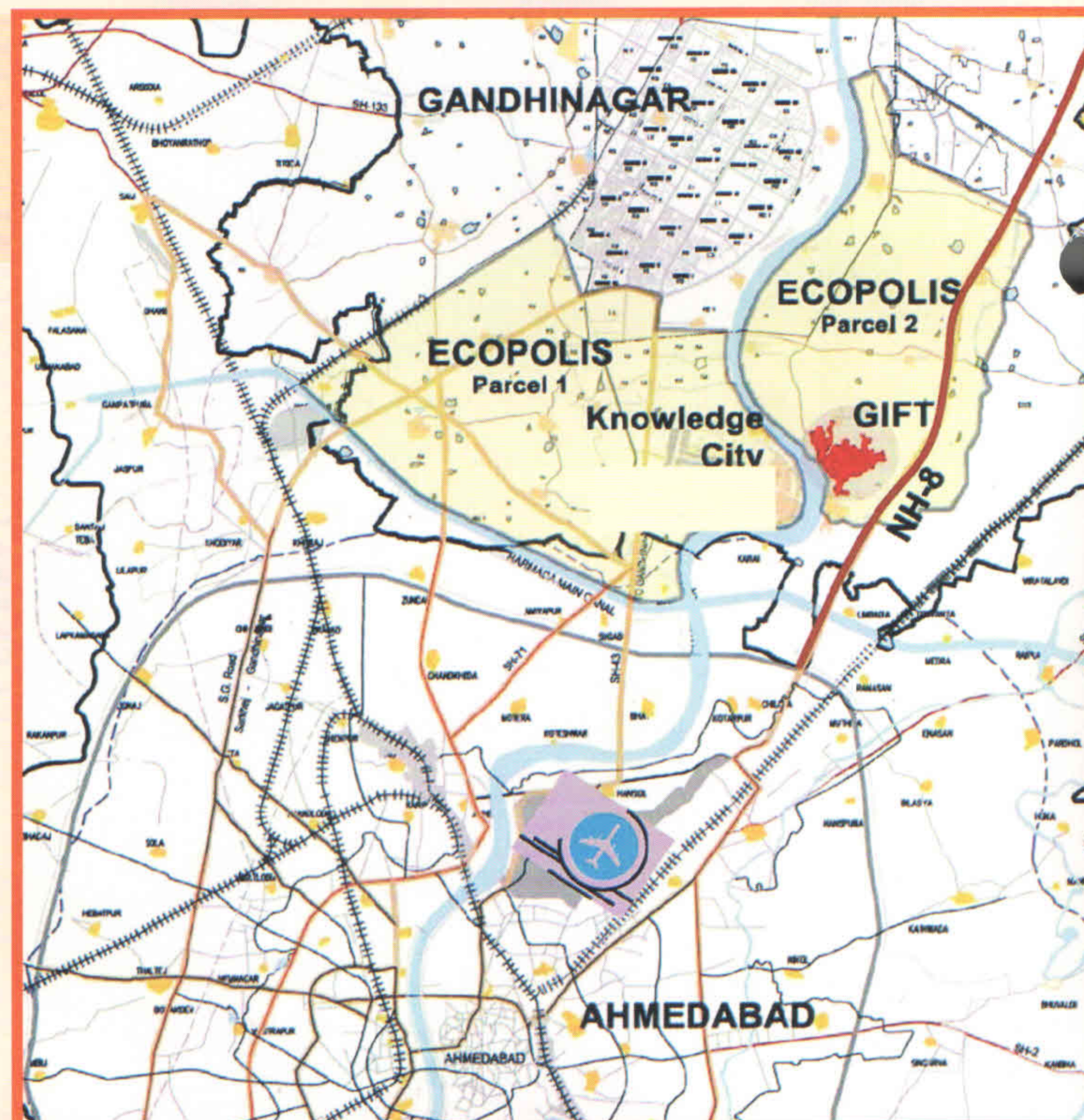
12 kms from International Airport (AIA): 8 lane dedicated expressway

8 kms from Gandhinagar: Political Capital of Gujarat

Abuts National Highway 8: Delhi - Mumbai

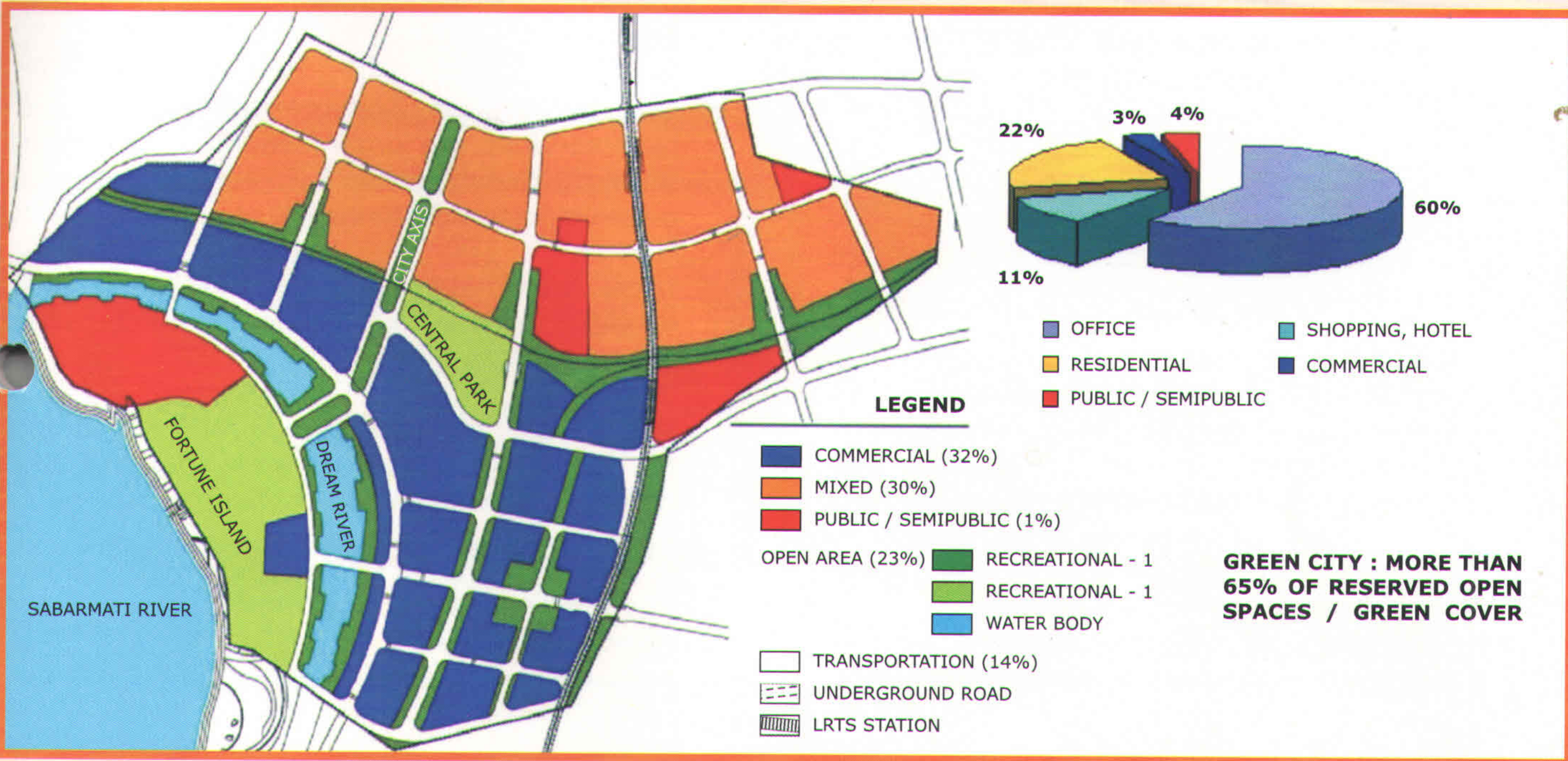
Strong Intercity Connectivity: MRTS, Ahmedabad - Airport - Gandhinagar - GIFT

Integrated Townships: High Quality Residences, Entertainment, Hospitality, Commercial, Social Infrastructure



Land Use Plan

Gujarat International Financial Tech-City is a government notified area with the following functional distribution of land:



DOMESTIC TARIFF AREAS (DTA) 250 Acres	SPECIAL ECONOMIC ZONE 250 Acres	
Domestic Financial District	PROCESSING AREAS	NON PROCESSING AREAS
Domestic Techno Park	International Financial Service Center (IFSC)	Utilities
Fin/Tech Services EoU Park	International Techno Park	Integrated Townships
Domestic Markets Zone	STPI Units - Technology	Entertainment Zone
Domestic Education Zone	International Market Zone	Hotel/Convention Centre
	Exchanges, Service Units	Shopping Malls
	Inter Education Zone	Health Services
		Schooling

Besides the obvious advantages to economic life, the residential life of occupants would also see new dimensions at GIFT.

Gujarat Government claims that in addition to other obvious advantages, occupants of GIFT will enjoy:

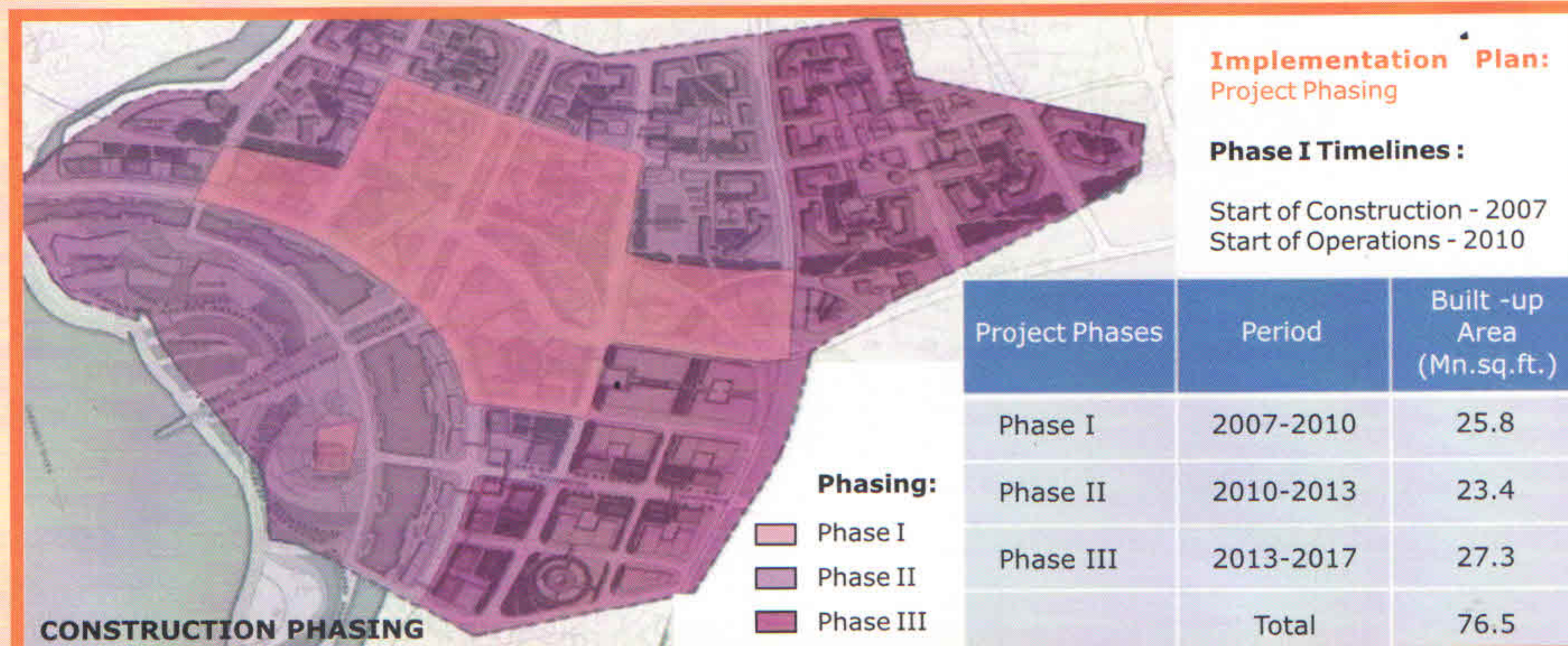
- Access to high speed network and cutting edge IP-based Networks (NGN) allowing seamless Voice, Video and Data integration and use of advanced end user applications
- Greater Bandwidth (due to totally Wired-City Fibre connections) - a Bandwidth of 100 Mbit/s scalable to Gbit/s, would be possible from the start
- A robust Tier IV Data Centre with guaranteed SLAs for uptime with properly backed up remote Disaster Recovery site as a fall back
- Residential and Intelligent Building services such as high speed Internet access, telephony services (VoIP, PSTN), IPTV, Video on Demand
- Home Security (CCTV, alarms), energy Automation (lighting & heating control, management, appliances and remote control, etc.)
- Faster setting up of business – with Plug-and-play services the organizations would spend more time on customer business services than on developing infrastructure services
- Local area networking, intra office/building wireless access, video conferencing, video telephony etc.
- Attractive price-performance ratio because of the economies of scale better than the Best technology available, more cheaply
- A fully self-contained network management and operations to support the services and performance SLAs

Transport:

- Higher Safety and Reduced Pollution : High share of Public Transport
- Walk to Work Concept
- Strong Connectivity to Airport & Ahmedabad City
- Abundant Parking

Utilities:

- Lowest Per Capita Energy Consumption
- Guaranteed Supply and Quality
- Reduced Costs



Completely Developed site with high quality internal roads, landscaping and storm water drainage

24 hrs power and water supply through a dedicated system for the GIFT city

Measures for energy conservation with Reduction of Air Conditioning Power Demand

Accessibility and Linkages:
MRTS / LRTS / BRTS
Underground arterial road
Abundant Parking Space

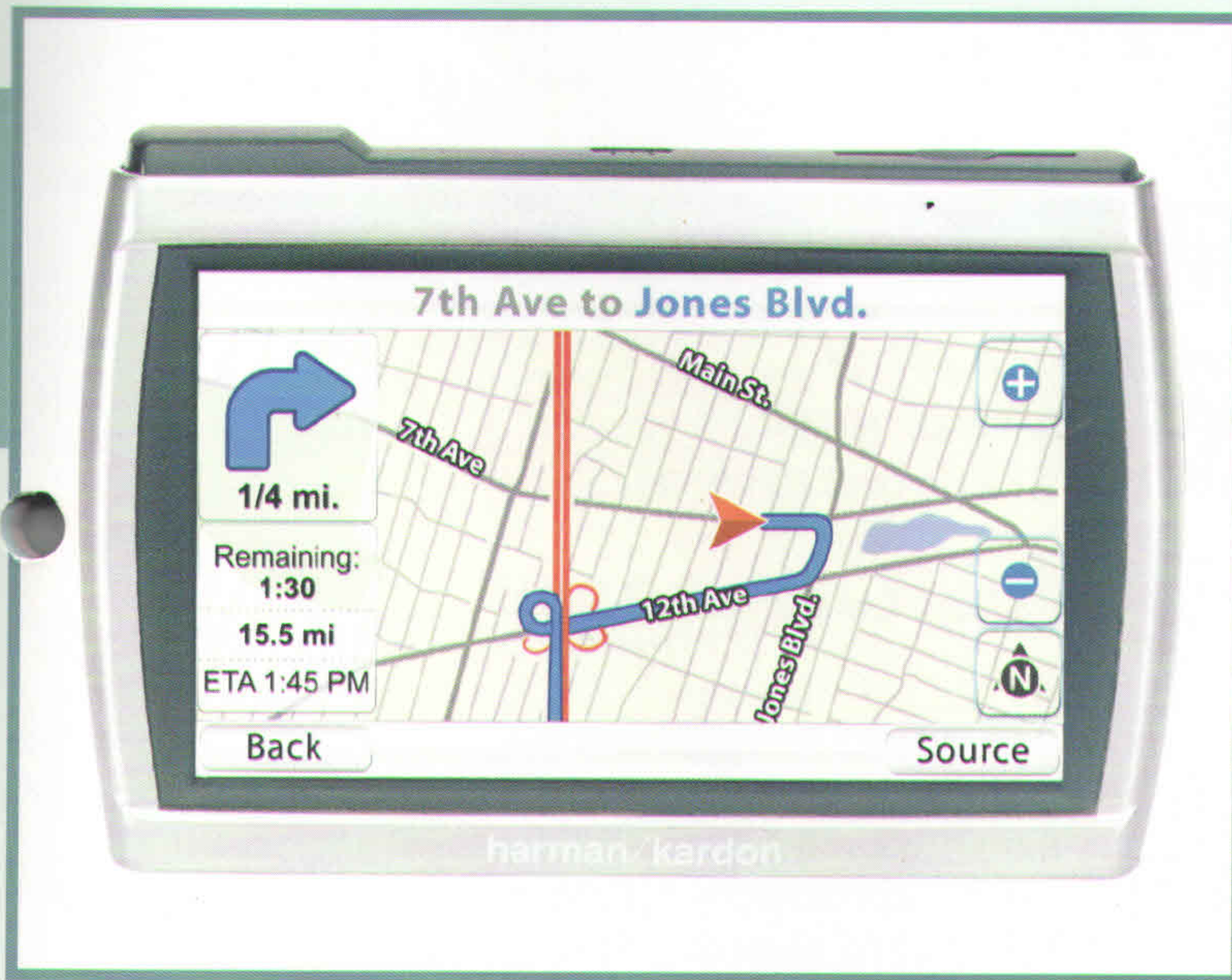
Access to Piped Gas Network

Environmental Protection measures including e-Waste Management

Adequate Social Infrastructure:
Apartments, Educational Institutes, Hospitality, Entertainment, etc.

Er. Ujaval Gandhi
FLM 3070

FAQs about GPS – Global Positioning System



What is GPS?

Simply put, Global Positioning System or GPS, is a technology that can give your accurate position anywhere on earth (latitude/longitude). You need a special GPS receiver that can receive signals from satellites.

Does it work in India? What are the problems faced by GPS users in India?

Yes. It works anywhere on the planet where you can receive signals from the satellite. You will need a pretty clear view of the sky for GPS to work, so it won't work inside buildings, underground or even in a forest. Few years back, GPS wasn't available to its full accuracy, but since the year 2000

Who owns this system?

The Global Positioning System is owned and operated by United States Department of Defence. But it is available freely to anyone in the world for use. Other countries have developed similar Satellite Navigation Systems of their own. For example, European Union is developing a system called Galileo and Russia has an operational system called GLONASS. Many modern receivers are capable of using signals from all these systems.

Can civilians use GPS?

Yes it is allowed for civilian use, with no restriction. There are two kind of GPS signals, C/A code: which is the civilian signals and given accuracy about 8-15m P code - which is military signal and only US military can use that, which is more accurate. There are high-end civilian receivers available, called dual-frequency receivers, which uses part of P-code, not the full signal, and gives higher accuracy than single frequency receivers.

Is there a fee for using GPS?

GPS is free for use. There is no subscription or monthly fees to pay. You need to buy a receiver that is capable of receiving the signals. But if you want to use add-on services like, differential correction for better accuracy, there may be additional fee.

How accurate is the position given by GPS?

Accuracy varies depending on the type of GPS unit. In general, you can expect the position to be within 15m of its true position on earth. Techniques like Differential GPS (D-GPS) can give accuracy less than 3m. Advanced techniques like satellite augmentation, carrier-phase GPS are used for very accurate surveys and can be accurate within centimeters. You can find links to vendors of these high end systems in Buy GPS Equipment page.

To know more about GPS, visit www.gpsinindia.com – website developed by Er. Ujaval Gandhi