WELCOME

Project Range

All India







Triveni Solar Glass Factory

Rajahmudhry, Andra

Ongoing

Design and Project Management













Taj Fateh Prakash Palace

City Palace, Udaipur



Taj Fateh Prakash Palace

City Palace, Udaipur

Architecture, interiors, lighting design, furniture design









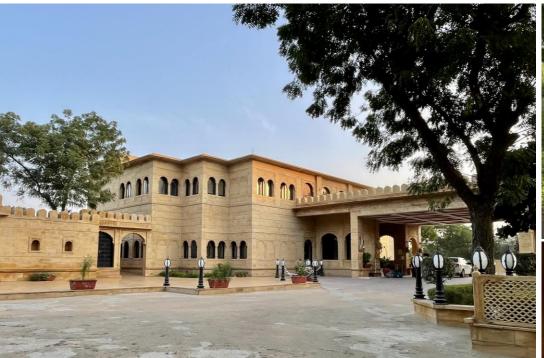


Taj Gorbandh Palace Hotel

Taj Hotel, Jaisalmer

Architecture, Design and Project Management



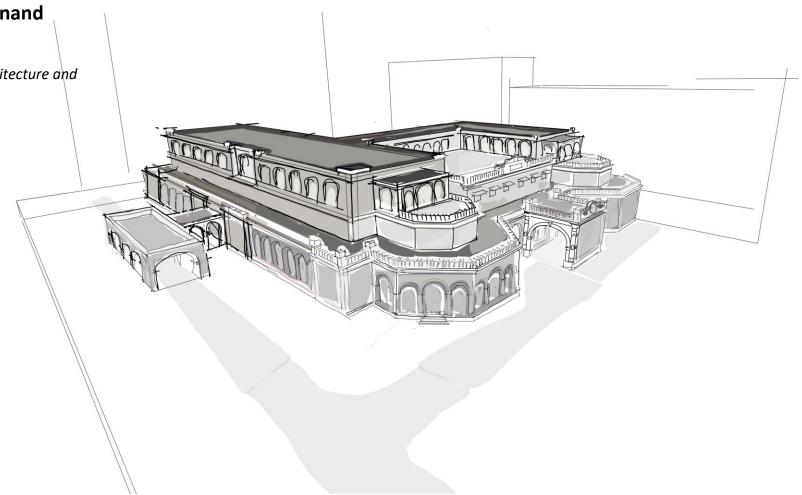




















Hotel at Mandawa

Adaptive reuse, Conservation, Architecture,



High Street Retail

Connaught Place B-Block Connaught Place Imperial Hotels

Adaptive Reuse, Expansion, Architecture, Interiors





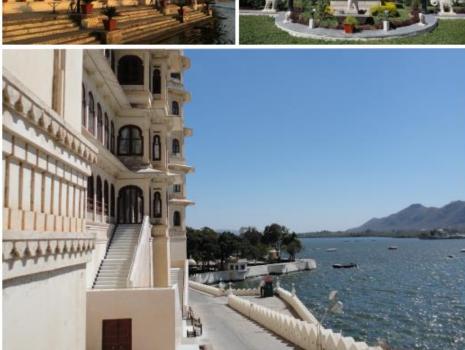
Taj Fateh Prakash Palace

City Palace, Udaipur

Project Management and design coordination

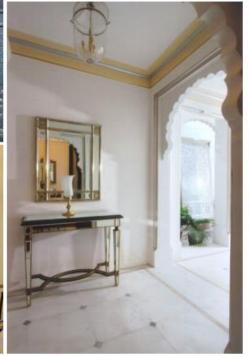












Viceregal Lodge

Summer Hill, Shimla

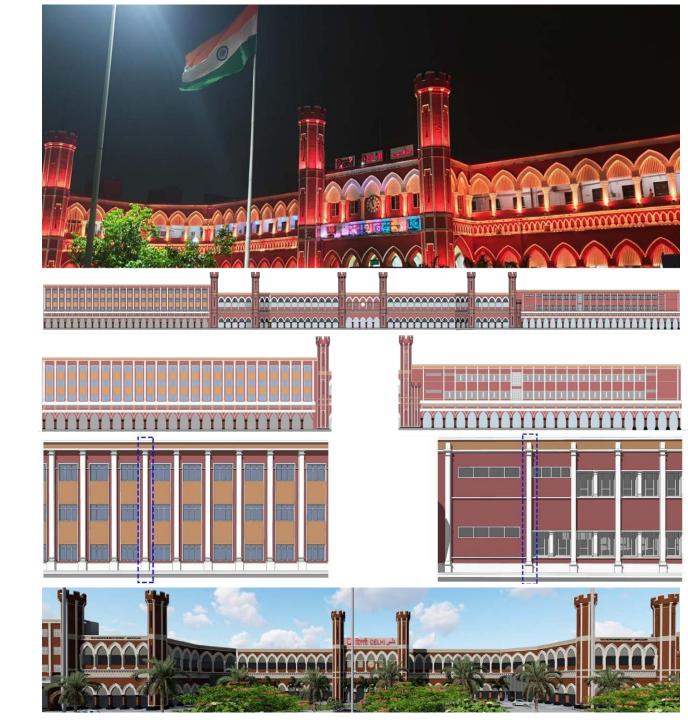
Architecture, conservation, design and project management



Delhi Railway Station

Delhi

Conservation, Renovations



Ajmer Railway Station Delhi

Architecture, Improvement



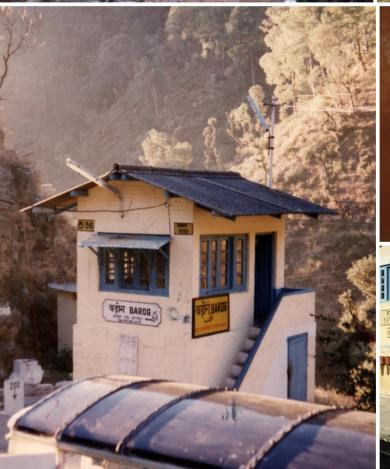


Kalka-Shimla Rail Shimla

Personal experience











Elevator at Red Fort
Architecture









Temple

Udaipur

Architecture and design









Street revitalization,

Old City Jaipur

Architecture, design and community engagement



J.S Akoi House

2 KG Marg

Conservation, Expansion, Architecture, Interiors





J.S Akoi House

2 KG Marg

Conservation, Expansion, Architecture, Interiors









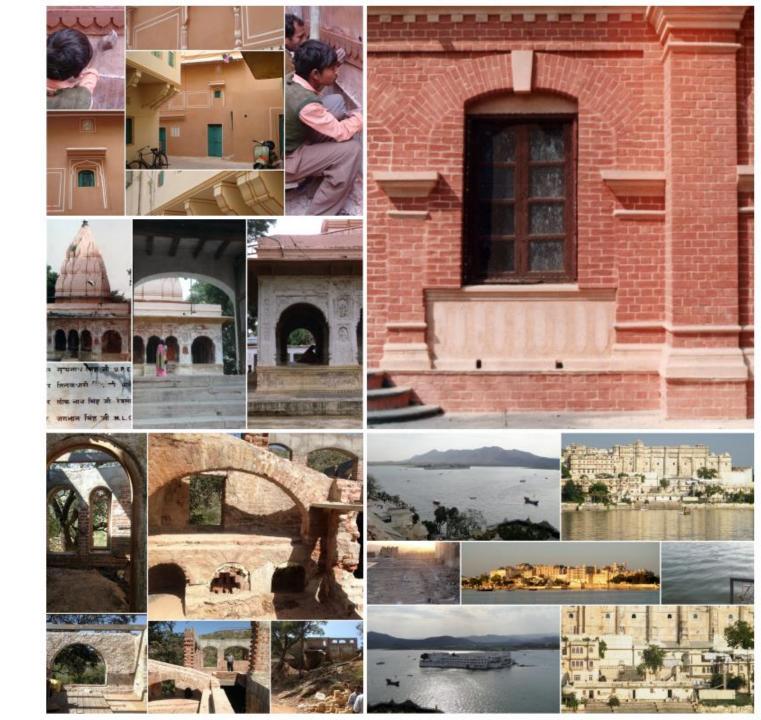




Conservation

All India

Architecture, design, project management



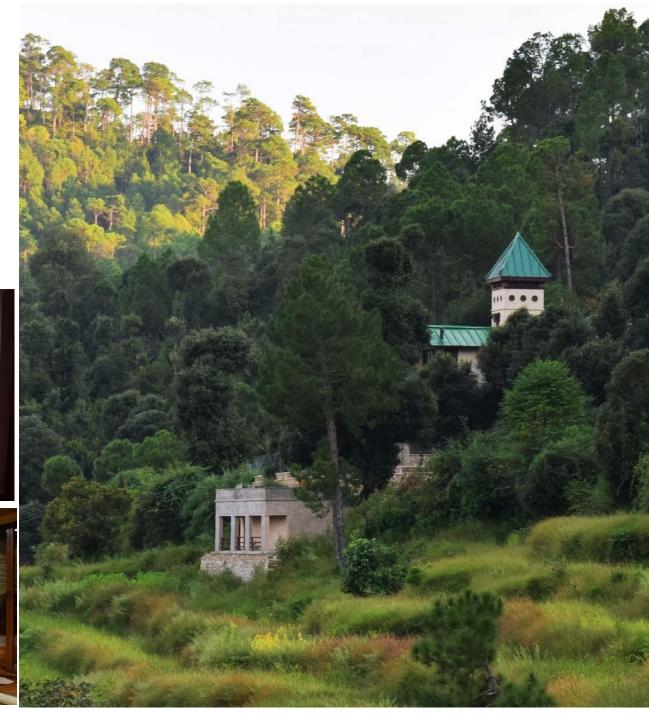
Bir Terraces

Uttarakhand

Architecture and interiors



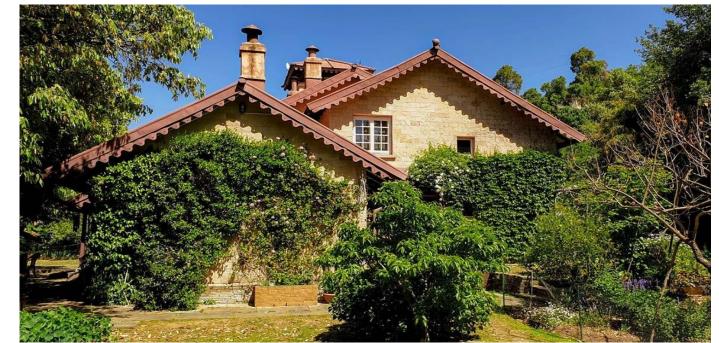




Ann house

Uttarakhand

Architecture and interiors

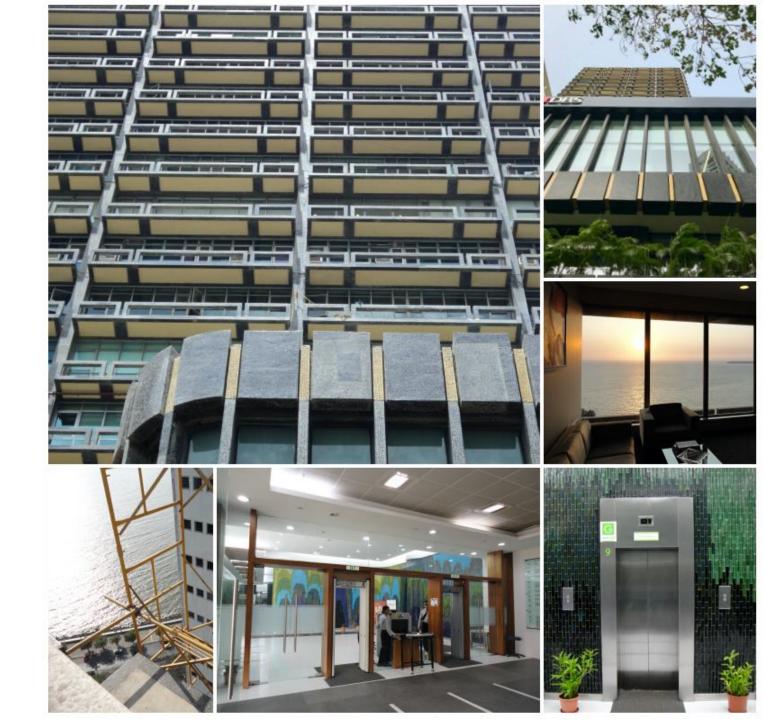




Express Towers

Nariman Point, Mumbai

Conservation, Architecture and Project Management











Project Range – 2

All India

Bloomroms

Janpath, New Delhi













Bloomroms

Bengaluru









Bloomrooms

Delhi









Bloomrooms Boutique

Amritsar











Ginger Hotels

Architects, Project Managers, Design and Build, Multiple locations

Architecture, design and build











Residence at EoK

New Delhi

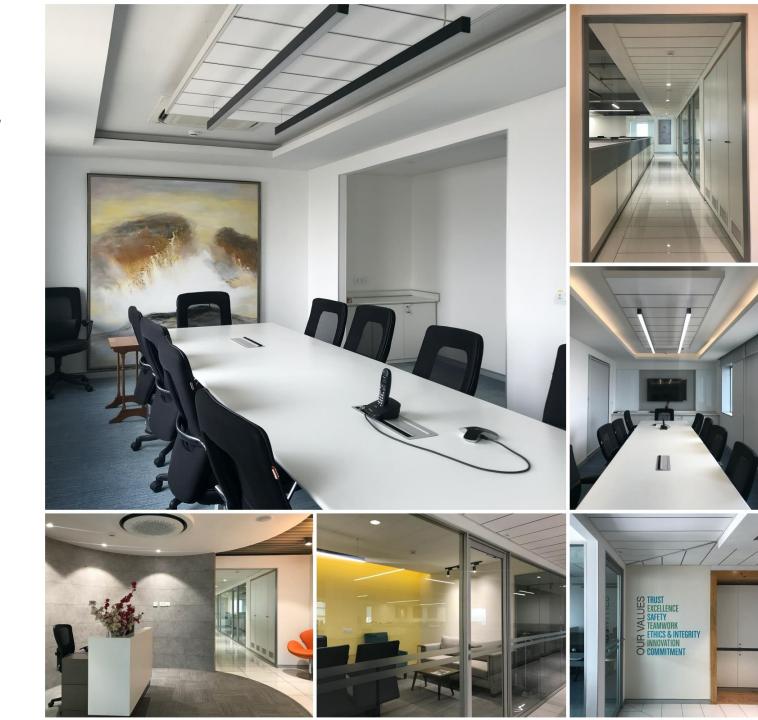
Architecture, design and build



Lakshmi Glass

Delhi

Architecture, design and build



Mad Over Donut

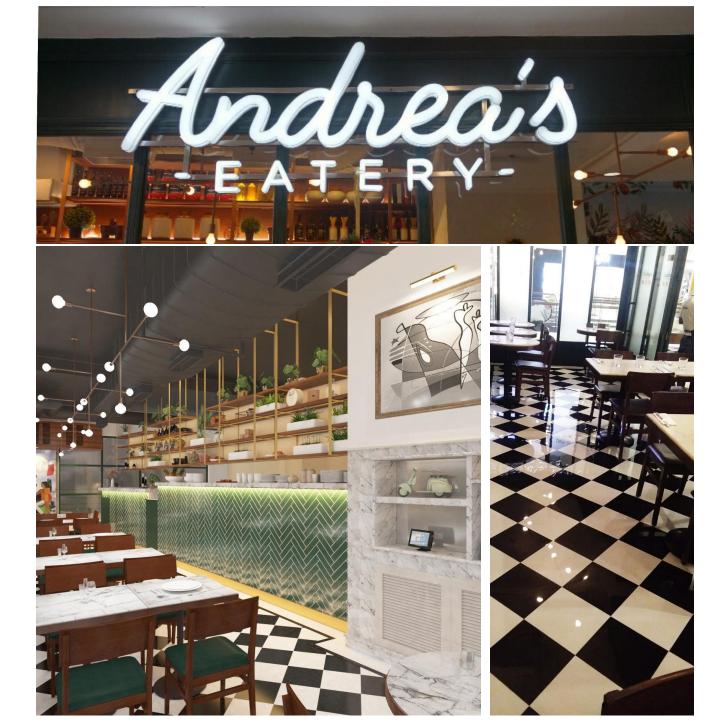
New Delhi

Interior Design and D&B



Andrea's Bar and Brasserie

Khan Market New Delhi



Andrea's Bar and Brasserie

Khan Market New Delhi





Andrea's Bar and Brasserie

Khan Market New Delhi









Sagar Ratna

Ambience Mall, Gurugram





Govinda

ISKON Noida









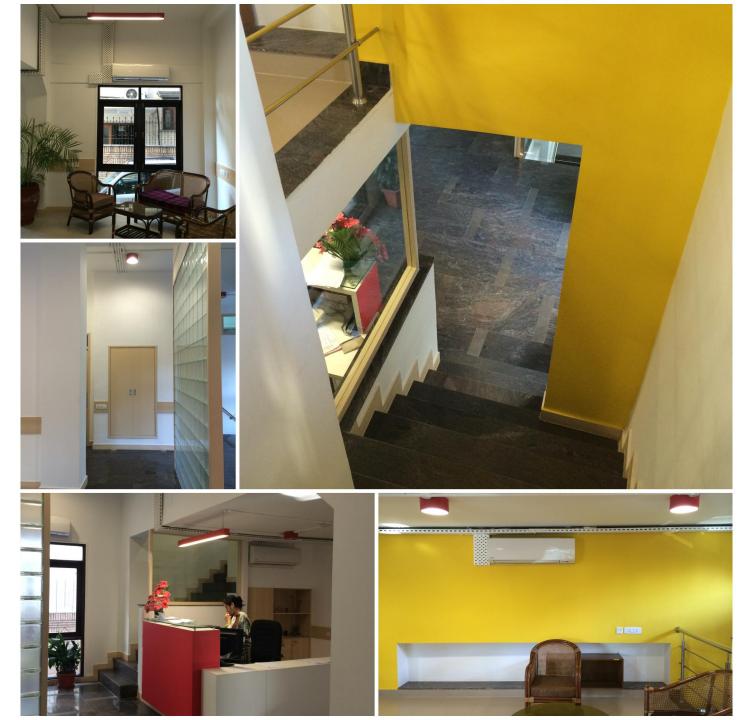
MD office

Delhi



International Red Cross Delhi

Architecture, design and build



Radisson Call Centre Gurgaon

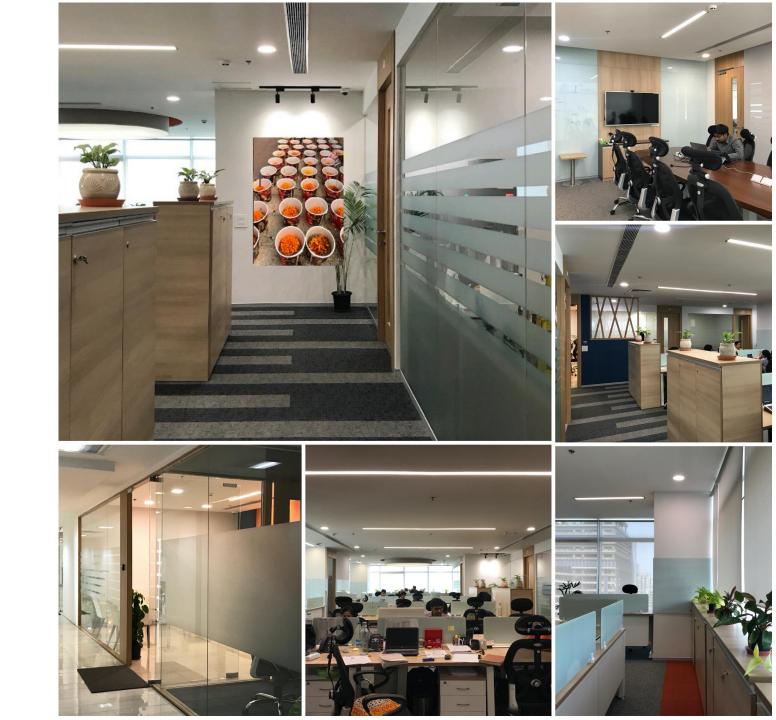
Architecture, design and build



Sun Renewables

Gurgaon

Design and build



ICICI Bank

All India

Architecture, design and build



Bank Branches

All India

Design and Build













Ozone

New Delhi



Synapse India

Noida









Asian Paints

All India

Architecture, project management



Retail Stores

Delhi

Architecture, design and build





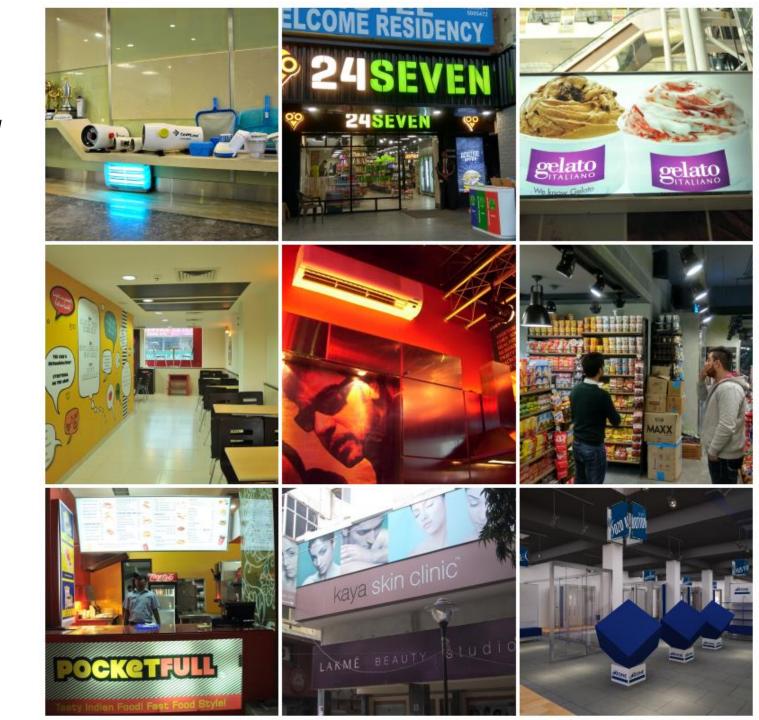




Retail Stores

All India

Architecture, design and build



Hotels

ITC-WelcomHotel, Amritsar

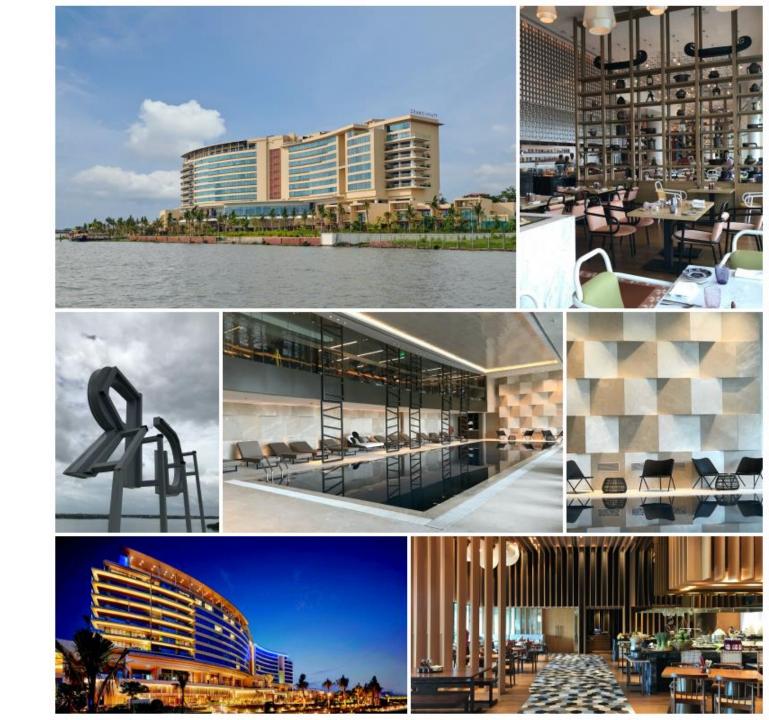




Grand Hyatt

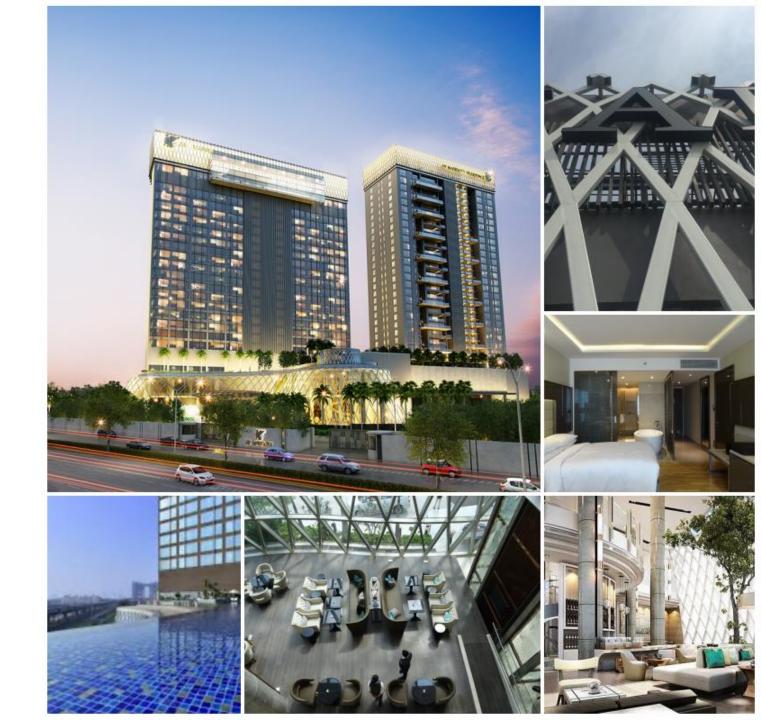
Bolgatty Island, Kochi

Risk management and valuation



JW Marriott

Kolkata



Taj Theog Himachal Pradesh





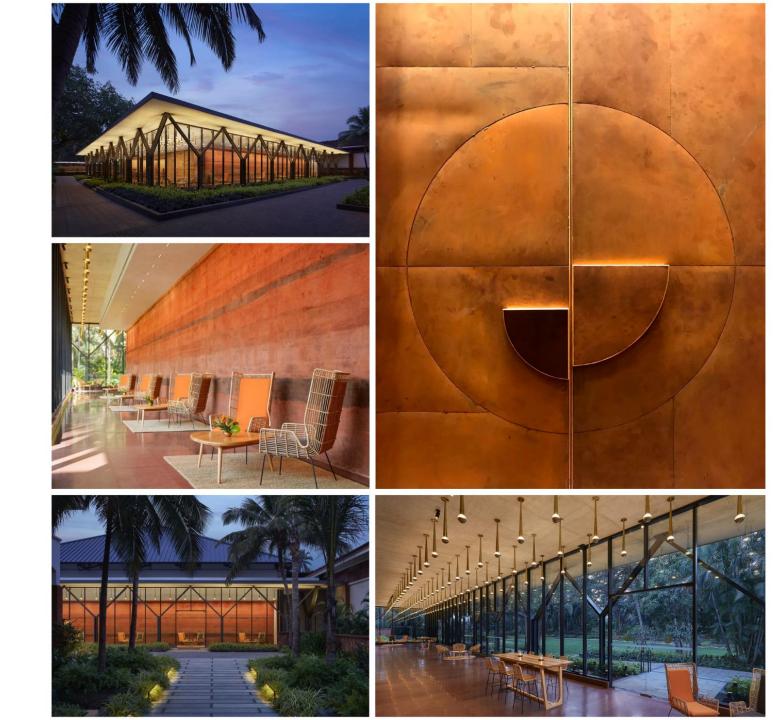
Novotel

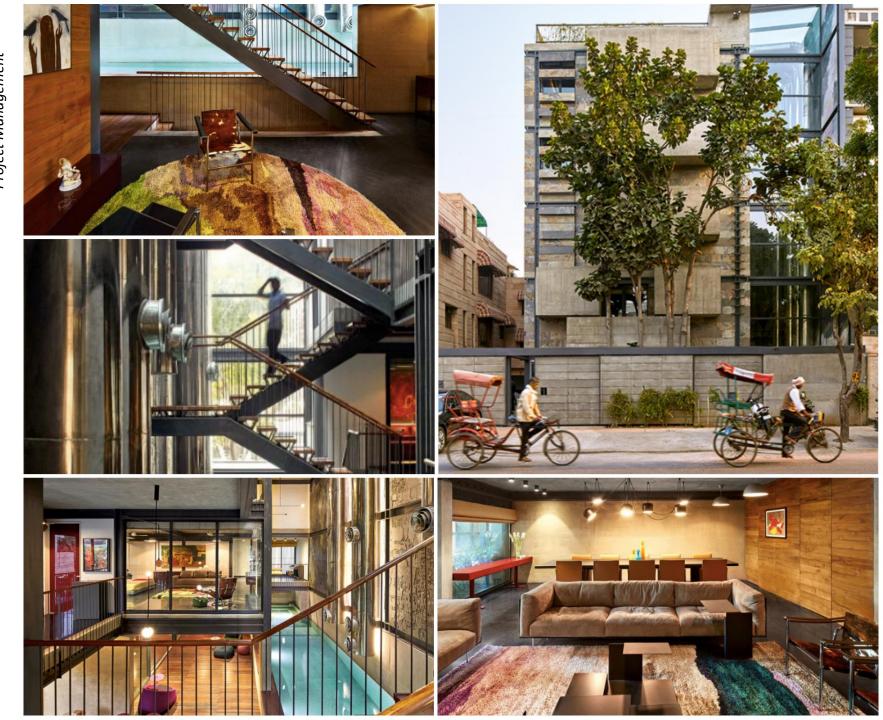
Guwahati



Alila Diwa

Goa















Secondary School:

GRES, Lakhimpur





School

HRM Global School, Delhi







Cancer Hospitals

Tata Trusts Jamsehdpur and Jaipur









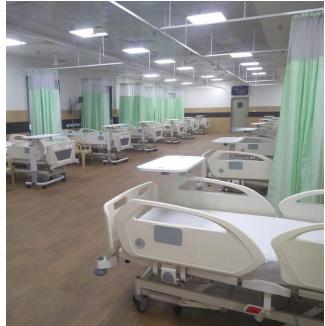
Cancer Hospitals

Tata Trusts Jamsehdpur and Jaipur









Artificial Limb Centre

New Delhi



Status by Achievers

Faridabad

Architecture











Gardenia by Achievers

Faridabad

Architecture





City Square Mall Ajmer

Architecture and Project Management



Commercial:

81Avenue, Gurugram



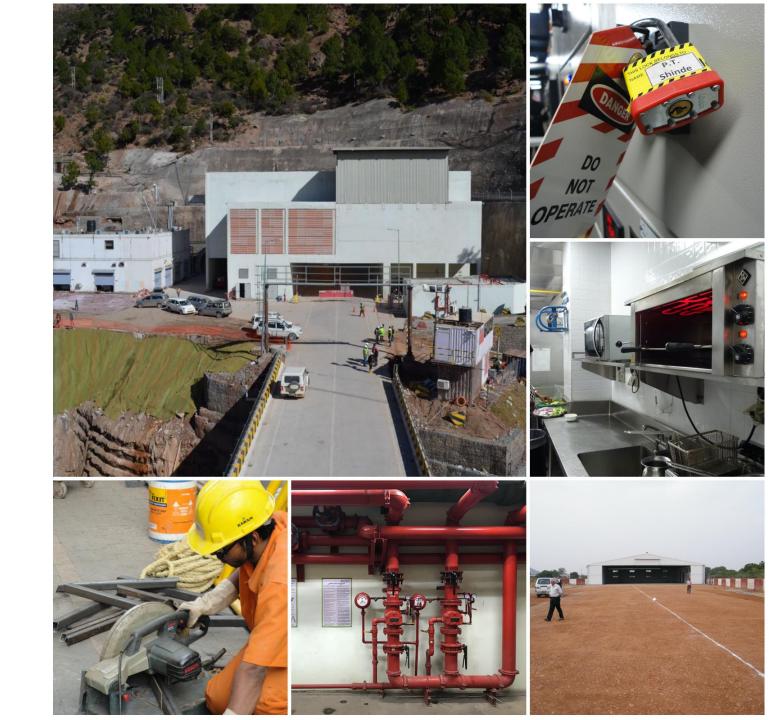






Misc

All India





Press

Personal experience



है। यह मानवा है क्र-केशरेशन और कन्ट्रकान डॉडवट्स एंड सर्वित्तस (सीनीवीएस) के मानद संबोधक कन्ट्रका देशक बहुत्सेन का, जोकि बुध्वम को सेक्टर 33 रिवान हरियाण सरकार के लोक निर्माण क्रियर में आयोजित एव



Bylaws on glass use in bldgs

JDA will soon forward proposal to govt regarding rules on use of glass in residential and commercial constructions

DNA Correspondent

The Jalpur Development Authority (JDA) will soon forward a proposa to the state government regarding drafting of bylaws on the use of glass es, ensuring safety of people in residential and commercial buildings.

'The Confederation of Construction Products and Services (CCPS) on Wednesday organised a workshop for JDA officials. Representatives of the confederation suggested bylaws re garding the use of glass. The JDA has decided to go through the bylaws and ask the state government to frame new bylaws.

Loknath Sont. secretary, JDA.

SAFETY said the JDA has accepted the proposal and decided to forward it to the government. "Safety is necessary while using glasses in buildings. We have accepted their proposal and forward it to the state government," said Soni. If the suggested bylaws are added to the existing building bylaws, then accidents in volving big glasses will certainly see

Confederation representatives said types of glasses and their location are primary cause of accidents in Jaipur. Most commercial buildings in Jaipur don't use the prescribed glasses. For example, many use tumpered



cause of accidents in Jaipur. -Pic for representational purpose only

force the bylaws in Jaipur," said trict fire cell, sometimes improper use Deepak Gehlot, convener of the con- of glasses in buildings causes difficulty in controlling fire. "Fire en-Disaster management experts, too, gulfed a media firm building recent-

er Lal Jat, chief fire officer, Jaipur. Jat said firemen also faced problems while breaking the glass windows of the LIC building which was engulfed

कांच के इस्तेमाल पर कानून बनाने की मांग

नई दिल्ली। भवन निर्माण में इस्तेमाल होने वाले कांच का इस्तेमाल खतरनाक W हो सकता है। इसी को ध्यान में रखकर कंफेडरेशन ऑफ कंस्ट्रक्शन प्रोडक्ट्स एंड सर्विसेज ने सरकार को इसके खिलाफ कड़े कदम उठाने की मांग की है। केंद्रीय लोंक निर्माण विभाग के पूर्व अधिकारी व कामनवेल्थ गेम्स भवन निर्माण के सलाहकार डी. एस सचदेवा ने संवाददाता सम्मेलन में कहा कि राजधानी में मॉल्स. कामर्शियल काप्लेक्स, होटल, एयरपोर्ट आदि में काफी तादाद में कांच का इस्तेमाल किया जा रहा है। लेकिन इसके कोई नियामक सरकार ने नहीं तय किए हैं। भवन ਰਿਆਂਗ ਕਿਲੀਸ਼ਕ ਭੀਜਕ ਸਭਕੀਤ ਦੇ ਕਕਾਰਾ ਕਿ ਤਰ ਸੰਬੰਧ ਕਿਹਾ ਹੈ। ਜਸ ਦੇ ਕਰਤਦੇ



Through the glass c

Ahmed visits V mail he moves around with a slow step. It's not that the di-year-old busi essman is short-nighted ut he is wary of burrelling proper an ultra-clear gizes oor, the tayle this kind that nally love to flaunt to look oddish. "I have presence of eive," says Ahmed. "I walk carefully leaded mails and occidences that have sliding ctitions and knobless glass ors, since the speed at which won walk determine he extent of injury I know

ederts architecture, but it's the nost duplicitimes one. There have een immunerable cases of people acratches, to say nothing of shat-tered nerves, after marching straight into plate-glass in restaurants, municipus and shops. Referred to an 'walls through injuries', medeal expects say that these collisions with come countily cause damage to facial soft-tissue, which can be both

Samperous and disfiguring. federation of Construction Prodnets and Services (CCPS), an esti-

Glass is one of the vanities of cal locations and also require that cy of glasdon restos for instance have a white or even a

the glass be stamifested." Many Lonsheet of paper pasted on the glass per clear; pane with the words 'Don't walk ence of an

warning at the Ooty church that Co-avoid acc laha resident Anna David had a place a senameful encounter with. A regular parishioner. David had grown so famillior with its corridors, little windows and doors that she began to agerous and disfiguring glide through the church absent According to Deepsk Gablowt, mindesly "My confidence suffered remiset and convener of The Coo a major blow when, note first, I on use of dashed into a newly installed glass. Safety its door," recalls David, who was so um- such as a mated 20,000 people across the barrassed that she quickly covered world, most of them children, suf- ber smarting nose with a handkerfor from injuries sustained from chief and stumbled away it took a glass furniture. "Many countries few days for the aburch authorities have made if mundatory to use sale— to realise that it wasn't just hapless ty glass (non-brittle glass) in criti- sparrows that were going aplat.

sinvure th

warming doors at

A

with Impresario India. 7 pm onwards.

EVENTS

Session on bedroom design tips by architect and interior designer Deepak Gahlowt at HomeTown. The Great India

H.B. Sahana performs at the

Chinmaya Mission Auditorium today

Book release

Personal experience





Workshop on conserving heritage in developing metros

Jaipur

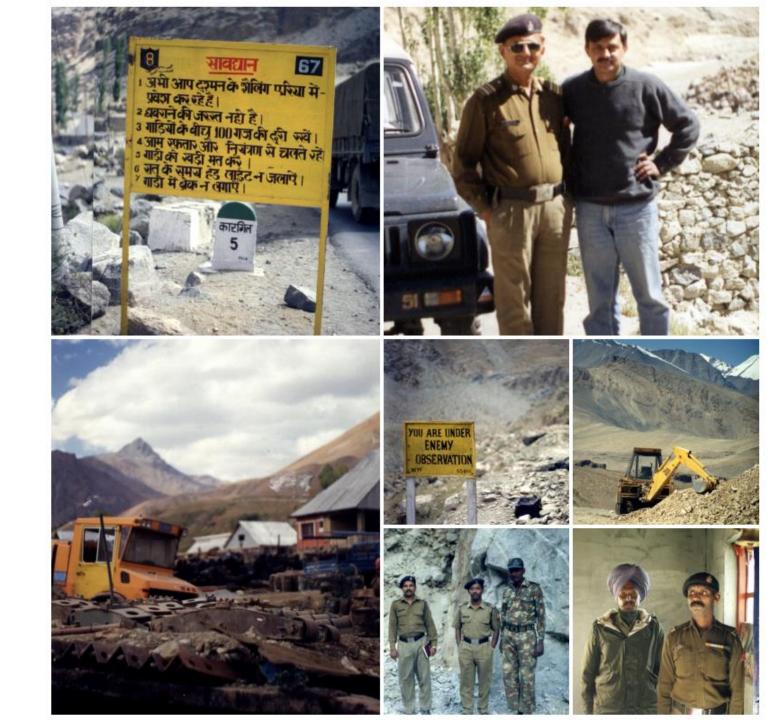
Personal experience



Border roads

Ladakh

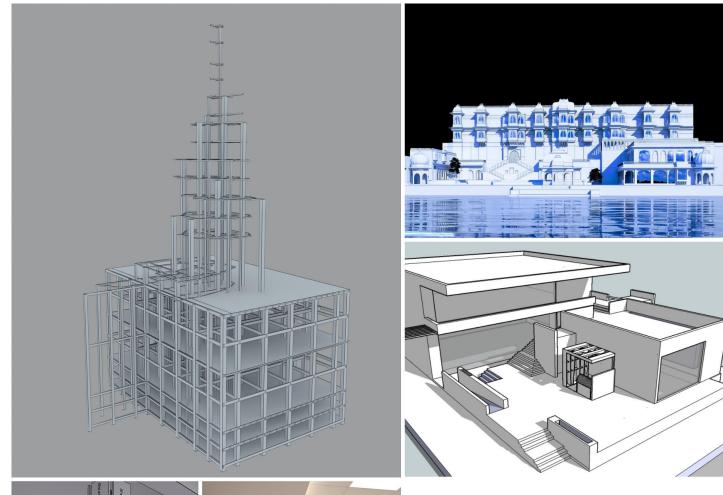
Personal experience

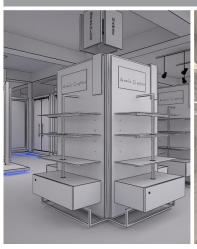




Project Studies

All India



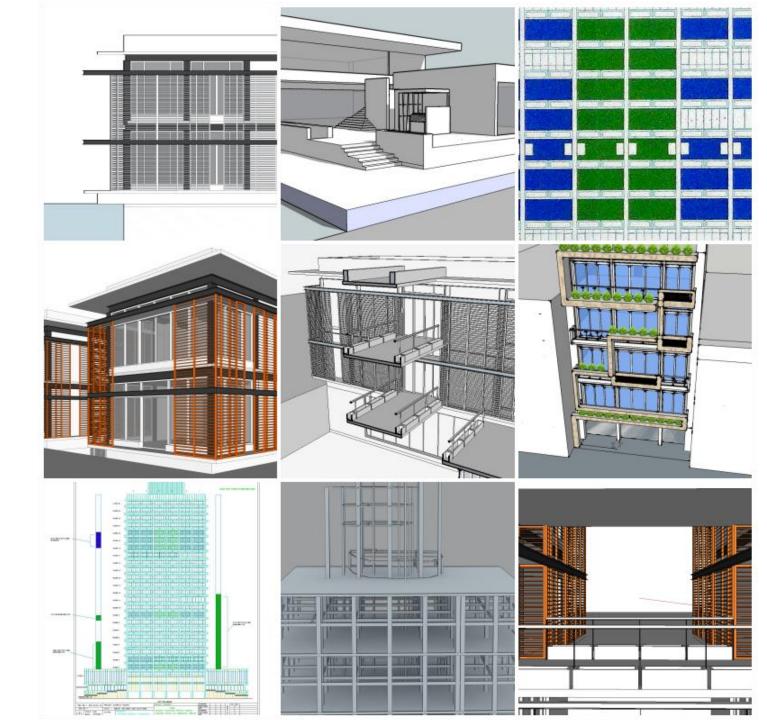




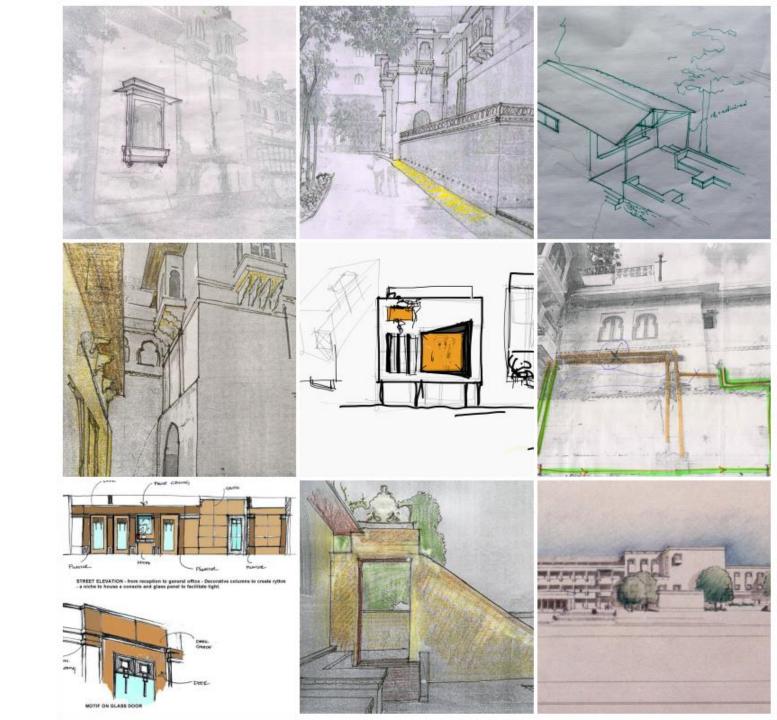


Project Studies

All India



Project Sketches All India



General Sketches



207, Nuchna Tower, Second floor Alaknanda Commercial Complex New Delhi 110019, India

Phone +911149513300-09

Xebec Design
Xebec Property Management Pvt Ltd

Key contacts

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www.xebecdesign.com



Air quality

The All-India Glass Manufacturers' Federation

Deepak Gahlowt, Architect, 17 June 2023, Ahmedabad





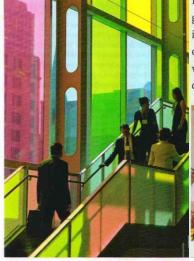
IS & THAT

SAFETY IN THE USE OF GLASS

Glazing, while popular, brings in its wake human safety उचित मापटंड अपनाए जाने की requirements. The risk of injuries from falls and the danger of falling glass, have led to the need for suitable product कांस्टक्शन प्रोडक्ट्स एंड सर्विसिस design to counter the vulnerability of glazing. The (सीसीपीएस) के मानद संयोजक Confederation of Construction Products and Services* (CCPS) with the support of the glass industry, has recently released the "Guidelines on the Use of Glass in Buildings for Human Safety" for specialists and homeowners alike.

NEED TO KNOW:

- · Besides the visual appeal of glass, offered in clear, tinted, coated, frosted, decorative and mirror forms, glass is also tested for its safety quotient by a gruelling shock test, fragmentation test, warp test, boil test, light stability test, and fracture and adhesion test, in accordance with IS 2553.
- It is also necessary to note that only when glass is laminated with polyvinyl butyral (PVB) can it qualify as safety glass. Also,



इमारतों में कांच का इस्तेमाल हो उचित मानक से

हरियाणा सरकार के लोक निर्माण विभाग की तरफ से कांच के इस्तेमाल पर कार्यशाला आयोजित

प्रमुख संवाददाता वंडीगढ़

भवन निर्माण में मानव सुरक्षा को ध्यान में रखकर कांच के इस्तेमाल के लिए जरूरत है। कॉन्फैडरेशन ऑफ आर्किटेक्ट दीपक गहलोत ने यह बात कही। वे बुधवार को सेक्टर-33 स्थित हरियाणा सरकार के लोक निर्माण विभाग कार्यालय में आयोजित कार्यशाला में विचार रख रहे थे।

उन्होंने कहा कि देश में चमक-दमक के मौजूदा माहौल में इमारतों,



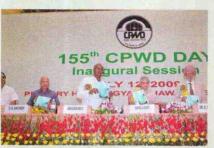
मॉल, कमिशंयल कॉम्प्लेक्स, शैक्षिक इस्तेमाल कई गुना बढ गया है। संस्थानों, होटलों, अस्पतालों और 2000-01 में कांच की अनुमानित अब आवासीय मकानों में कांच का बिक्री 886 मिलियन टन रोजाना थी

जो अब बढ़कर 3400 एमटी पर

कार्यशाला में बताया गया कि ब्यूरो ऑफ एनर्जी एफिशिएंसी द्वारा तैयार एनजी कंजर्वेशन बिल्डिंग कोड (ईसीबीसी) 2007 के तहत बाहरी दीवारों, छत, कांच ढांचों, लाइटिंग, हीटिंग, वेंटिलेशन और कमर्शियल बिल्डिंग में एयर कंडीशनिंग के लिए न्यनतम दक्षता मानक निर्धारित किए गए हैं। यह कदम ऊर्जा संरक्षण के संदर्भ में अच्छी शुरुआत है। लेकिन इंसान के घायल होने का जोखिम कांच के बढ़ते इस्तेमाल की वजह से गहरा

GUIDELINES ON USE OF GLASS IN BUILDINGS

Central Public Works Department (CPWD), along with Confederation of Construction Products and Services (CCPS), a non-profit organization working for the sustainable growth of the construction products sector, has developed "Guidelines on Use of Glass in Buildings - Human Safety". The guidelines were released on 12th July 2009 on the occasion of the 155th CPWD Day at Vigyan Bhawan, New Delhi. Present at the event, were Delhi Chief Minister Shiela Dixit (chief guest) and Minister of State for urban development Saugata Roy (guest of honour), among other dignitaries. These guidelines



are aimed at ensuring the safe use of glass in critical locations, ie areas where the chances of injury due to glass breakage is high. They have been developed through a public-private partnership by adopting the consensus approach involving all stakeholders, including architects, engineers, key municipalities and other government departments, etc.



DNA gives yo on trendy ba

DNA PINK CITY

Bylaws on glass use in bldgs JDA will soon forward proposal to govt regarding rules on use of glass in residential and commercial

The Jaipur Development Authority (JDA) will soon forward a proposal to the state government regarding drafting of bylaws on the use of glasses, ensuring sately of people in residential and commercial buildings. The Confederation of Construction Products and Services (CCPS) on Products and Services (CCPS) on Wednesday organised a workshop with the confederation assumested by the confederation assumested by the confederation assumested by the suggested the confederation assumested by the confederation assumes as the confederation as th

confederation suggested bylaws re-garding the use of glass. The JDA has decided to go through the bylaws and

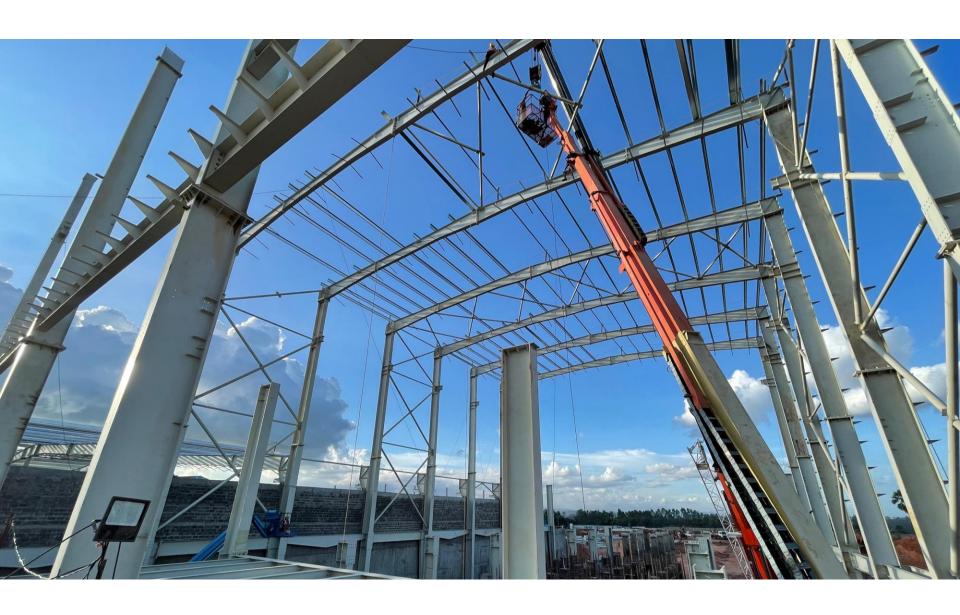
nent," said Soni. If the sug ylaws are added to the exis ling bylaws, then accident

असर उज्याता। नई दिल्ली, रविवार, 28 फरवरी, 2010

कांच के इस्तेमाल पर कानून बनाने की मांग

नर्ड दिल्ली। भवन निर्माण में इस्तेमाल होने वाले कांच का इस्तेमाल खतरनाक हो सकता है। इसी को ध्यान में रखकर कंफेडरेशन ऑफ कंस्टक्शन प्रोडक्टस एंड सर्विसेज ने सरकार को इसके खिलाफ कड़े कदम उठाने की मांग की है। केंद्रीय लोंक विर्णाण विश्वास के पूर्व अधिकारी व कामजेक्य रोक्स धवन निर्माण के

DESIGNTODAY



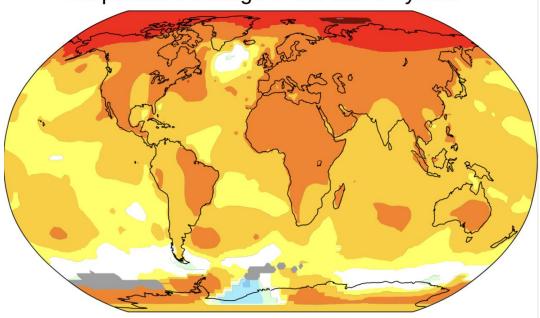
Agenda

- Environmental challenges
- Ambient air
- Indoor air
- Solutions
- CityAir and its products
 - CityAir ambient solutions
 - CityAir indoor solutions
- Opportunities for cooperation



Challenges

Temperature change in the last 50 years



2011–2021 average vs 1956–1976 baseline

Received 15 May 2000; revised accepted 7 November 2000

The frequency of "very severe cyclonic storms" has increased in recent years over the Arabian Sea. However, this has not measurably increased the threat to India's western coast, as most of these cyclones were making landfall in Oman and Yemen, Science Minister, Jitender Singh, told Rajya Sabha on Thursday.

Tropical cyclones in the Arabian Sea: Why are they increasing?

Cyclone 'Biparjoy' Becomes Longest-Lasting High-Intensity Cyclone in Arabian Sea Since 1982

Has the frequency of intense tropical cyclones increased in the north Indian Ocean?

O. P. Singh*, Tariq Masood Ali Khan and Md. Sazedur Rahman

SAARC Meteorological Research Centre, Abhawa Bhaban, Agargaon, Dhaka 1207, Bangladesh

An effort has been made to settle the question whether the intense cyclones have become more frequent over the north Indian Ocean, posing a more serious threat to the vulnerable coastal population of the region. The results of the study, which has considered the entire existing data of 122 years of tropical cyclone frequency over the north Indian Ocean from 1877 to 1998, have shown that there is indeed a trend in the enhanced cyclogenesis during November and May. These months account for the maximum number of severe cyclones over the north Indian

The Arabian Sea, which was not particularly known for its cyclones in the past, is now transforming. But the marginal sea of the Indian Ocean was certainly not a pacific one, being witness to fierce storms, historians have told *Down To Earth*.

How Delhi became the most polluted city on Earth

Breathing in the Indian capital this month was like smoking 50 cigarettes a day. By Umair Irfan \mid Updated Nov 25, 2017, 4:32pm EST





Indian schoolchildren cover their faces as they walk to school amid heavy smog in New Delhi on November 8, 2017. | Sailad Hussain/AFP/Getty Images

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- 5 What a new conservative call for "regime change" in America reveals about the culture war

What Happens When the Air Quality Index Surpasses 500?

The toxic air in the United States this week has flirted with the upper range of the 500-point scale. In the past decade, there have been times when the air quality was even worse.











WHERE POLLUTION HITS THE ROAD: THE GROWING ENVIRONMENTAL HAZARD OF RUBBER TIRES

by: Maya Posch



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July 28, 2022



As ubiquitous as rubber tires are due to the many practical benefits they offer to cars, trucks, and other conveyances, they do come with a limited lifespan. Over time, the part of the tire that contacts the road surface wears away, until a tire replacement is necessitated. Perhaps unsurprisingly, the material that wears away does not magically vanish, but ends up in the environment.

Car tyres produce vastly more particle pollution than exhausts, tests show

Toxic particles from tyre wear almost 2,000 times worse than from exhausts as weight of cars increases



Emissions from tailpipes in developed countries are much lower in new cars, with those in Europe far below the legal limit. Photograph: Jacob King/PA

Almost 2,000 times more particle pollution is produced by tyre wear than is pumped out of the exhausts of modern cars, tests have shown.

The tyre particles pollute air, water and soil and contain a wide range of toxic organic compounds, including known carcinogens, the analysts say, suggesting tyre pollution could rapidly become a major issue for regulators.

Air pollution causes millions of early deaths a year globally. The requirement for better filters has meant particle emissions from tailpipes in developed countries are now much lower in new cars, with those in Europe far below the legal limit. However, the increasing weight of cars means more particles are being thrown off by tyres as they wear on the road.

The tests also revealed that tyres produce more than 1tn ultrafine particles for each kilometre driven, meaning particles smaller than 23 nanometres. These are also emitted from exhausts and are of special concern to health, as

The study modelled the effects of reducing particle pollution and discovered that it could cause an ozone increase of 20-30% in some densely populated areas of India and China. If left unmanaged, this will have a full-size poor impact on ecosystems and crop yields.

The researchers are calling for new strategies that take this interaction between pollution into account. The problem can be solved by concentrating on reductions in a much broader range of pollutants, particularly (VOCs) from chemical substances and fuels and NOx from combustion.



Reducing Air Pollution Can Actually Increase Ozone Pollution and Worsen Health

TOPICS: Geoscience Pollution Smog University Of York



What Is Photochemical Smog? The Reason the Sky Is Turning Brown in Los Angeles

Photochemical smog is the brown industrial haze that sits over cities like Los Angeles, and is full of major pollutants.

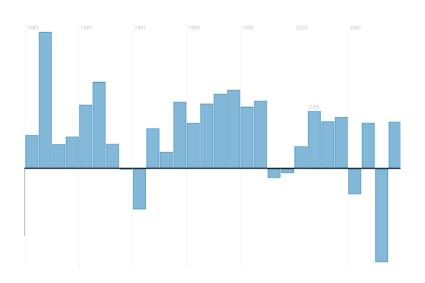




you have been in Los Angeles (or seen pictures of the city) in the past few years, you have seen hotochemical smog. The lingering brownish haze has transformed the city into almost a permanent ainting of pollution. However, besides the adverse aesthetic effects on the city and other places around the world, photochemical smog is a major detriment to human and environmental health.

ut first, what is photochemical smog, and how is it different from regular smog?

What next



Sustainability Vs Economic Growth

- India's economy set to grow
- With the rise in production, industries will face severe environmental challenges.
- Will need to play a larger and more proactive role in addressing sustainability issues including indoor and outdoor air pollution.
- Enterprises will need to establish air quality monitoring networks to provide data for decision making.

Wellbeing

Light and Daylight we all know well enough. Glass containers are the future..

Air quality is only beginning to be talked about

A. Ambient – Outdoors

B. IAQ - Indoors



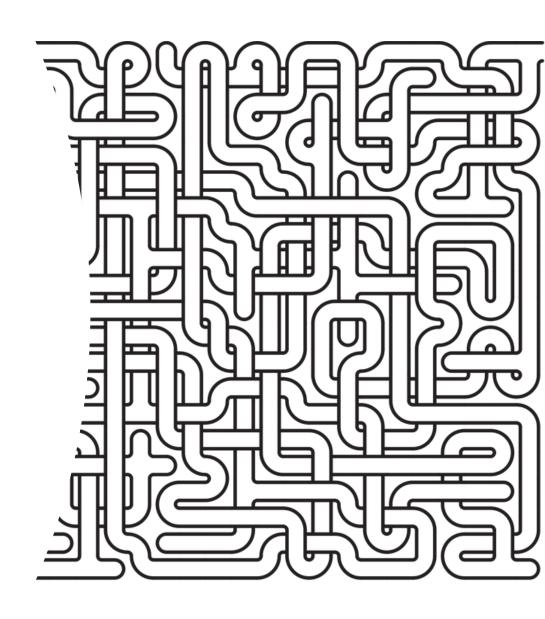
Ambient Air

- In news now.
- People are beginning to talk about AQi and PM2.5 and PM10, and greenhouse gases.
- Sources include.
 - Burning of fossil fuel for transportation, power generation, production in industrial activities etc.
 - Wildfires, open burning of garbage waste
 - Agricultural activities
 - Construction and demolition
 - Industrial emissions
 - Photochemical smog
 - Rubber particles from automobile tires
 - Windborne dust
 - Etc



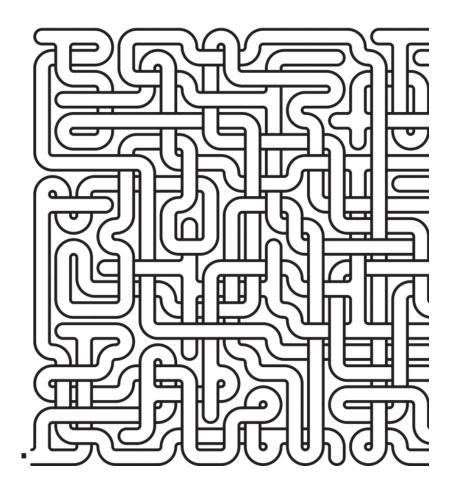
Solutions

- Long term
 - Reduction in consumption
 - Technological solutions
- What we can do now
 - Better understanding of source and spread
 - Base for policy and allocation of resources for technological solutions and interventions
 - Take corrective action in short term



Solutions

- Building professional ambient air quality monitoring networks to diagnose the problem
- o Forecasting emissions
- Taking data-driven decisions and implementing corrective measures



IAQ – Indoors

- Not as much understood
- Still associated with ambient air but in a wrong way
- Common contaminants include CO2 and CO, VOCs, and also NO2, Radon, Pesticides etc

U.S. ENVIRONMENTAL PROTECTION AGENCY







IAQ – Indoors

- Indoor air is a subset of ambient air.
- But with additional sources of pollution
 - Normal breathing and living
 - Smoking
 - Unwell people
 - Paints, plywood, etc.
 - Chemical sprays
 - Cooking
 - Mold-infestation
 - Industrial gasses and particulate matter
 - Etc

IAQ – Indoors

- Most common air conditioning solutions do not have any provision for treated fresh-air
- Indoor air pollution can be much worse than ambient air
- EPA says levels of indoor air pollutants often 2 to 5 times higher than outdoor and can exceed 100 times that of outdoor levels of the same pollutants
- Modern sealed windows save energy by preventing air leaks and control noise but will actually make IAQ worse

Inadequate Ventilation

If too little outdoor air enters indoors, pollutants can accumulate to levels that can pose health and comfort problems. Unless buildings are built with special mechanical means of ventilation, those designed and constructed to minimize the amount of outdoor air that can "leak" in and out may have higher indoor pollutant levels.

Solution

- Most air purifiers available in the market will only filter particulate matter
- Out best bet still remains fresh air in most cases
- o Filtered fresh air where external air has high particulate matter



Solution

- Building professional indoor air quality monitoring networks
- Introducing air management solutions
 - Supply of clean fresh air
 - Smart indoor climate control

ESG/Green manufacturing standards

- Control emissions and make datadriven operational decisions
- Comply with environmental regulations
- Ensure safe and healthy working environment for employees
- Execute principles of a socially and environmentally responsible company



Cooperation opportunities

Way forward

- Invitation to collaborate
 - Capacity building and myth busting
 - Research
 - Product development
 - Windows with provision for integrating fresh air products
 - Glass that cleans indoor air
 - Integrated provisions for ventilation in windows
 - Much more..



(T) DECEMBER 7, 2015

Windows with nanostructured coatings can cure 'sick' buildings

Sunlight

Clean air

TiO₂ - coated window glass

Harmful organic molecules in the indoor air can cause adverse health effects—a problem known as the 'sick building