



The Institution of Engineers (India)

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A Century of Service to the Nation



Centenary Technical Webinar

Powered by
National Skill Development Forum

Hosted by : Faridabad Local Centre

Theme

Green Building with Integrated Design Approach

Under the aegis of Architectural Engineering Division

PANELISTS



Er I S Chauhan

Architectural & Structural Consultant



Er Inderdeep Singh Oberoi

Director, A.D. Global Synergies Pvt. Ltd.



Ms Sheetal Rakheja

Chairperson, CII IGBC Delhi Chapter &
Managing Partner, AEON Design & Development LLP



Mr Neeraj Arora

Sr. Director & Head; ASSOCHAM

Date : 29 August 2020

Time : 16.00 hrs to 17.30 hrs

Moderator

Er. Sushil K Bajaj
Artech Consultant



For any assistance, please email to : faridabadlc@ieindia.org

Webinar ID : AR2021WB01

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TECH: S.3/3/AR2021WB01

To

Hon'ble Committee Members

All State/Local Centres

Sir/Madam,

This is for your kind information that the Faridabad Local Centre of The Institution of Engineers (India), is organizing the following Webinar under the aegis of the Architectural Engineering Division Board:

Green Building with Integrated Design Approach

Date: 29 August 2020, Time: 16:00 to 17:30

Hosting Platform: GoToWebinar

The eminent panelists are:

1. **Er I S Chauhan**, Architectural & Structural Consultant
2. **Er Inderdeep Singh Oberoi**, Director, A.D. Global Synergies Pvt. Ltd.
3. **Ms Sheetal Rakheja**, Chairperson, CII IGBC Delhi Chapter & Managing Partner, AEON Design & Development LLP
4. **Mr Neeraj Arora**, Senior Director & Head, GEM Green Building Certification Program, ASSOCHAM

Er. Sushil K Bajaj, Artech Consultant will act as the moderator.

Technical support to the webinar is provided by **National Skill Development Forum of IEI.**

You are cordially invited to participate in this session and join it 10 minutes prior to the commencement of the programme. The flyer of the webinar is attached.

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Also, you can join/view the live streaming of the subject webinar via National Skill Development Forum, IEI YouTube Channel:

<https://www.youtube.com/channel/UckTVQJERDy0AxNiE8wL0PcA>

Preamble of the Webinar:

Green Building with Integrated design is a comprehensive and holistic approach to design sustainable habitat which brings together specialisms usually considered separately. The aim of integrated building design is often to produce sustainable architecture. Green building (also known as green construction or sustainable building) refers to both a structure and the application of processes that are environmentally responsible and resource-efficient throughout a building's life-cycle: from planning to design, construction, operation, maintenance, renovation, and demolition. It is found that the building industry will consume 40% of total global energy and release about 3800 megatons of CO₂ into the atmosphere. They have a harmful impact on nature. According to a report the building industry has following impacts: Consumption of 40% of world's total energy, Consumption of 30% of raw materials, 16% of freshwater is being depleted, 40% of municipal solid waste is being generated, 50% of ozone-depleting CFCs are still in use, 30% of the residents have sick building syndrome.

A Green Building is the one whose construction and lifetime operation provides the healthiest possible environment having the most efficient and least disruptive use of the land, water, energy and resources. Construction of Green Building involves lower on-site grading, saving natural resources by using alternative building material and recycling construction waste rather than dumping in a landfill. Green Building's interior spaces have natural lighting, outdoor views while highly efficient heating, ventilating and air conditioning (HVAC) systems and low volatile organic compounds like paints, flooring and furniture create a superior indoor air quality. Green Buildings are more comfortable and easier to live with due to low operating and owning costs.

Various Green Building rating agencies have been instituted to help design and rate the buildings as per established compliances. These include IGBC, GEM (Green Eco-friendly Movement) by ASSOCHAM, GRIHA (Green Rating for Integrated Habitat Assessment) and LEED (Leadership in Energy and Environmental Design). IGBC was formed in 2001, to spearhead the green building movement in India. The Council has so far certified more than 90% of green buildings coming up in the country. IGBC is the only green building council in India to be recognised by World GBC. IGBC is a member of World GBC (www.worldgbc.org) which is evolving as the most inspiring and influential body across the globe on the subject of green built environment. Today, with strong support from various stakeholders, IGBC have contributed to the following :

- Facilitated and working on 5,990+ projects amounting to a total footprint of 7550 million sq. ft. This has enabled India to emerge as second largest in the world in terms of green footprint.
- Launched 26 IGBC Green building ratings to cover all typologies of built forms - cities, residential, commercial, industrial, healthcare, educational / Institutional Campuses, large developments, transit and other built forms. The rating systems are fully aligned with the National codes and standards like NBC, ECBC, CPCB, Uniform Plumbing Code of India and others.
- 26 Local chapters cross the country
- Developed more than 4,400 qualified IGBC Accredited Green Building Professionals as part of our Education programme
- Recognised by Central & many State governments for Green Building certification. IGBC-rated projects have been awarded incentives by MoEF

(faster clearance) and additional FAR & other incentives by 10 State Governments

The main objective of the Webinar will be the dissemination of information regarding the Green Building, its design and construction using an integrated approach and subsequent rating modalities for the compliances thereof.

We are looking forward to your active participation in the webinar.

With best regards,

Dr Nilanjan Sengupta,
B.E.(Cal), PhD (IEST), FIE
Director (Technical)
The Institution of Engineers (India)