

CEBACA TIMES

Fifth Edition
2024-2025

Coimbatore Builders And Contractors Association



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President: Mr. J. Sagayaraj
Secretary: Mr. R. Senthil
Treasurer: Mr. P. Ravichandran

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Mr. A. Sridhar
Mr. S. Balakrishnan

NAVIGATING INDUSTRY SHIFTS:

ADAPTING TO CHANGE

AS THE
CURRENT YEAR
DRAWS
TO A CLOSE,
ADDRESS THE
CURRENT
INDUSTRY
CHALLENGES &
OPPORTUNITIES,
IDENTIFY KEY
TRENDS AND
STRATEGIES
TO THRIVE
IN A DYNAMIC
ENVIRONMENT
& ENCOURAGE
OUR MEMBERS
TO ADAPT TO
CHANGE AND
INNOVATE.



IT IS NOT THE STRONGEST OF THE SPECIES
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BUT THE ONE MOST RESPONSIVE TO CHANGE.

- CHARLES DARWIN

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PRESIDENTS MESSAGE

Dear Friends,

As we approach the end of another remarkable year at CEBACA, it is imperative to reflect on the transformative journey we've undertaken together. The construction industry, much like the world around us, is constantly evolving, presenting us with a myriad of challenges and opportunities.

The theme for our final edition, "Navigating Industry Shifts: Adapting to Change," resonates deeply with the ethos of our organization as we continue to embrace these shifts and steer our course towards a brighter, more sustainable future.

Innovation will continue to be a driving force behind our success. Whether it's adopting new construction techniques or leveraging digital tools for project management, innovation is key to staying ahead of the curve. By fostering a culture of innovation within our organization, we can unlock new opportunities for growth and differentiation in the market.

In line with this, the "Udhaaharan" Deminar conducted on the 16th of February 2024 was a resounding success, bringing together industry experts and stakeholders to delve into the intricacies of industrial flooring.

The event provided a platform for insightful discussions on the latest trends and innovations in the field, offering valuable perspectives on navigating industry shifts and adapting to change.

As we embark on this final edition of CEBACA Times for the year, I urge each of you to embrace the challenges that lie ahead with a spirit of optimism and determination. Together, we can navigate these industry shifts, adapt to change, and emerge stronger and more resilient than ever before.

Here's to a successful conclusion to the year, and to a future filled with endless possibilities.

J Sagayaraj

The past year has been a testament to our resilience and ability to adapt in the face of adversity. From navigating supply chain disruptions to embracing new technologies, we have demonstrated our unwavering commitment to excellence. As we look ahead, it is crucial that we remain agile and proactive in our approach, anticipating industry shifts and leveraging them to our advantage.



THE LEGACY



The Vision

CEBACA has a vision of seeing its nation as a superpower flourishing with ethical values, wealth, and advanced science and technology and it recognizes the importance of education in achieving this vision. It also envisions restoring the nation's ancient glory and promoting harmony among its people through Social and Environmental Well-being.



The Mission

CEBACA's mission is to create an atmosphere that motivates students to pursue their studies by providing training and the necessary infrastructure for schools that lack basic facilities such as classrooms, libraries, labs, sports materials, and toilets.

We are also committed to increasing awareness and education on social and environmental issues, including the quality of life of individuals and communities and the importance of conservation, and sustainable living. To help achieve this goal, CEBACA will facilitate public participation and industry support.



The Values

PROFESSIONAL ETHICS:

At CEBACA Professional ethics is at the core of our value system, it acts as the determining factor to guide the professional behaviour of our member organizations. Integrity, Confidentiality, Competence, Objectivity, Professional Responsibility, and Accountability.

SAFETY:

At CEBACA safety is given priority and importance in all aspects of the organization's operations, culture, and decision-making processes.

EMPOWERMENT:

At CEBACA Empowerment is one of the foundational pillars of our strategy. We firmly believe in increasing the capacity of our members, staff, and students and helping them make informed decisions and take action to achieve their goals.

COMMITMENT:

At CEBACA commitment underlines every action taken by each member and it has contributed immensely to our success over the past decade.

QUALITY:

At CEBACA quality is imperative, it determines every activity undertaken by us.

DRIVERS OF CHANGE

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Diary and Calendar

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THE **THEME**

NAVIGATING INDUSTRY SHIFTS: ADAPTING TO CHANGE.

“Progress is impossible without change, and those who cannot change their minds cannot change anything.” - George Bernard Shaw.

In the dynamic landscape of the Indian construction industry, adaptation is not just a choice but a necessity. The theme “Navigating Industry Shifts: Adapting to Change” encapsulates the imperative for stakeholders to embrace transformation to stay relevant and thrive.

Operational shifts are evident across various facets. Technological advancements like Building Information Modeling (BIM), prefabrication, and automation are altering traditional construction methods, enhancing efficiency, and reducing costs. Sustainability mandates are reshaping design principles, with a focus on eco-friendly materials and energy-efficient practices. Additionally, evolving regulatory frameworks demand compliance, necessitating updated strategies and processes.

Stakeholders can navigate these challenges by fostering a culture of innovation and learning. Embracing technology can streamline operations and enhance productivity. Collaborative approaches, such as public-private partnerships, can mitigate financial risks and expedite project timelines. Moreover, investing in skill development and upskilling can future-proof the workforce, ensuring they are adept at handling new technologies and methodologies.

By recognizing and embracing these shifts, stakeholders can not only survive but also thrive in the ever-evolving landscape of the Indian construction industry.



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SCALING **NEW HEIGHTS**

January - February Report

As we close the chapter on another successful year, we reflect on the remarkable dedication and achievements of our members. The past two months have been a whirlwind of activity, showcasing our members' unwavering commitment and drive. Our meetings have been buzzing with energy, with members spearheading various projects and campaigns including the groundbreaking Deminar "UDHAAHARAN". As we look ahead, the enthusiasm and passion of our members continue to inspire us forging into the future.

Monthly Meetings January - February



CEBACA held its 9th Regular Meeting on January 8 at The Residency Towers in Coimbatore. The meeting included the release of CEBACA Times and a product presentation by Laya Concepts.





The 10th Regular Meeting of CEBACA was a Stakeholders Meeting held on February 12th at The Residency Towers in Coimbatore. The topic for discussion was “The Current Scenario in the Construction Industry.” The participants who shared their views included Mr. PP Subramanian from PP Associates, Mr. Nivin Vishnu from Zaron Industries, Mr. SM Palaniappan from Sky & Sky, Mr. Jagan, Senior Regional Manager of Kajaria Ceramics Ltd., and Mr. LR Venkatesh from VeSat Solar Energy Systems. Mr. KC Bhagath, Managing Director of Haridas Bhagath & Co Pvt Ltd, delivered the special address.

ECM, January - February

Our Executive Committee members are the architects of our association’s strategic roadmap, guiding us toward operational excellence. Our ECMs have become crucibles for innovative ideas, pooling the collective wisdom of our members to drive progress. We are dedicated to fostering an environment of continual learning, creativity, and industry advancement, evident in every meeting. These sessions spark insightful discussions, align strategies, and foster collaborations, shaping our association’s trajectory toward greater success.



The 10th EC meeting was held on the 29th of January at CEBACA Towers.



The 11th Executive Committee meeting took place on March 2nd at the Guest House of our Advisor, Mr. G Srinivasan in Kothagiri.

Projects

In the final edition of CEBACA Times for the year 2023-2024, we showcase the culmination of our diverse projects, each a testament to our commitment to excellence in construction. From community-driven initiatives to cutting-edge innovations, our projects are more than just endeavors; they are a reflection of our dedication to shaping the future of construction. Join us as we celebrate our accomplishments and look forward to continued progress and innovation in the years to come.

Some of the projects undertaken during the past two months included,

Academic Panel Career Guidance Lecture Program.



The Academic Panel On-Site Training Program took place on the 5th of January at the CPC Hall. The Chief Guest of the event was Er BR Rajarathinam, Rajarathinam Associates.

Civil Engineers Technical Upgradation Programme:



On the 27th of February, the 7th session of the “Technical Upgradation Program for Civil Engineers” was held at the Chamber Towers. The session covered two main topics: GST - Registration of Construction Sites & Other Aspects and Income Tax - Getting Ready for 31st of March. The speakers for the event were Chartered Accountants, Mr P Paul Thangam and Mr P Aravindh Thangam, both from Paul & Aravindh LLP.

Youth Leadership Programme





On January 28th, CEBACA conducted the “Youth Leadership Program” at My Village Resort, Anaikatti. The program was aimed at preparing and equipping the next generation of CEBACA members with the necessary skills and knowledge to become successful entrepreneurs. It was a well-planned and organized succession planning initiative that provided valuable insights and practical guidance to the young leaders, empowering them to take on future leadership roles with confidence.

UDHAAHARAN Discussions



A meeting was held on January 5th at CEBACA Towers to discuss the plans and features for “UDHAAHARAN - The National Conference On Industrial Flooring (NCIF),” organized by CEBACA.

Events

In our final edition for the year 2023-2024, we highlight the vibrant spectrum of CEBACA events that have fuelled our industry’s growth and collaboration. Our events serve as pivotal moments for networking and learning, offering dynamic platforms for industry professionals to connect, exchange insights, and stay updated on emerging trends. From industry expos to symposiums, each event showcases cutting-edge technologies and fosters knowledge sharing, contributing to the advancement of the construction community. Join us as we celebrate the impact of these events and look forward to continued growth and collaboration in the future.

Family-Fest





On the 25th of February, the Family-Fest event was organized



where the CEBACA members and their families participated with great enthusiasm and joy. The event was filled with various fun-filled activities that kept everyone engaged and entertained throughout the day. The atmosphere was lively, and the families enjoyed spending quality time with each other while participating in the activities. It was a memorable day for everyone who attended the event.

Protest



The President and other members participated in a protest, against the increase in prices of quarry materials on February 27th at the Red Cross Junction in Coimbatore Collectorate.

Meeting with District Collector



On February 29th, 2024, the presidents of various associations gathered together to meet with the District Collector to submit a petition for Unnormal price hike in quarry materials.

SCALING NEW HEIGHTS

On February 16, 2024, Coimbatore witnessed an extraordinary event in the realm of industrial flooring—UDHAAHARAN. This unique Deminar, a harmonious blend of seminars, discussions, and live demonstrations, saw an overwhelming participation of over 400 industry professionals. Hosted by the Coimbatore Educational and Builders Association of Civil Architects (CEBACA), in collaboration with the Association of Consulting Civil Engineers (India), Coimbatore Centre (ACCE India), this event set a new benchmark in the industry.

UDHAAHARAN was conceptualized following a visit by the members of CEBACA to the 6th International Conference on Best Industrial Flooring Practices organized by IFA in Delhi. Inspired by the scope and content of the conference, the team felt a compelling need to conduct a similar event in Coimbatore, tailored to address the specific needs and challenges of the industrial community in the region.

The event kicked off with an introductory session led by Mr. Sagayaraj, who warmly welcomed the attendees and outlined the significance of UDHAAHARAN in fostering innovation and excellence in industrial flooring. The agenda was meticulously curated, featuring a series of panel discussions, product and process demonstrations, and interactive sessions that provided attendees with a comprehensive understanding of the latest trends, technologies, and best practices in industrial flooring.

One of the highlights of the event was the participation of esteemed speakers, including Dr. Piyush Sahni, Er. Ganesh Choudhari, and Mr. Seshadri S, who brought with them a wealth of knowledge and experience. Dr. Sahni, an IIT

Madras alumnus with a distinguished career in concrete materials and sub-base soils shared insights on Subsoil character and its impact on the design and performance, Critical design aspects of industrial floors and Flooring accessories for joints.

Er. Ganesh Choudhari, a pioneer in steel fibre dosage based on test and design in India, provided valuable perspectives on Planning of pour sequence, Modern equipment for Industrial Flooring and - Key aspects of finishing and maintenance of floors.

Mr. Seshadri S, a consultant for MBCC Group, Bangalore, and a veteran in the field of construction chemicals and their application in various projects shared his insights on Quality Assurance of Concrete for Industrial Floors and Fibre-reinforced Concrete.

The panel discussions moderated by Dr Sudhahar, were a melting pot of ideas, where experts debated current challenges and explored future directions in industrial flooring. Topics ranged from sustainable practices to technological innovations, offering participants a holistic view of the industry landscape.

The live product and process demonstrations were particularly well-received, as they provided a tangible experience of the latest flooring techniques and materials. Attendees had the opportunity to witness the practical application of theoretical concepts, enhancing their understanding and appreciation of the intricacies involved in industrial flooring.

UDHAAHARAN also served as a platform for networking, allowing professionals from various

sectors to connect, share experiences, and forge collaborations. The event was not just about imparting knowledge; it was about building a community of like-minded individuals committed to driving progress in the field of industrial flooring.

UDHAAHARAN was a resounding success, setting a new standard for industry events in Coimbatore. The seamless integration of seminars, discussions, and demonstrations provided a comprehensive and engaging experience for all participants.

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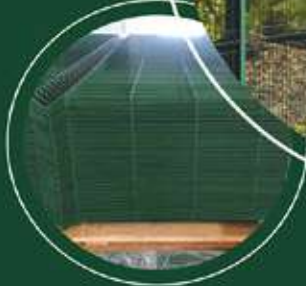
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Where did you begin your academic journey?

I hail from the beautiful town of Sulur, a place known for its rich agricultural heritage. Growing up in a family of farmers, I was always fascinated by the engineering marvels that went into constructing the irrigation canals and waterways in our village. After completing my higher secondary education from Sulur Higher Secondary School, I went on to pursue my Bachelor's degree in Civil Engineering from the prestigious Tamilnadu College of Engineering in Coimbatore.

When did you begin your entrepreneurial journey?

In the year 2000, I embarked on an exciting journey towards entrepreneurship, thanks to my school friends, Senthil and Ganesan, SR Arumugam & Company. These two individuals were part of a family business that involved quarrying and highway contracts, and they wholeheartedly encouraged me to join them. Eager to learn and explore new possibilities, I accepted their invitation and started my entrepreneurial journey under their guidance and support. I worked with them for two years, it was this experience that provided me with the knowledge and skills to establish my own company, M/s. GMN & Company.

In our final edition we continue to shine a spotlight on the remarkable individuals who are the heart of our community. Beyond their professional achievements, we delve into what makes them unique – from their passion for construction to their personal stories and interests. Join us as we celebrate the diverse personalities and experiences that enrich our community, showcasing the human side of our extraordinary members.

Why did you choose Civil Engineering?

From my early childhood, I was constantly in awe of the way buildings, roads, canals, and industries were constructed. I found myself captivated by the intricate details of how everything came together to create a functional whole. Perhaps it was my family's involvement with government contractors that sparked my interest in the field, but regardless, I knew from a young age that I wanted to pursue a career in civil engineering.

When did you find yourself in this field?

Following the completion of my studies, I had the privilege of joining Ms Srinivasan Associates Pvt. Ltd., in the capacity of a site engineer. This was back in 1994, a year that marked the beginning of my professional journey in the construction industry.

During my six years with the firm, I had the opportunity to work alongside a team of dedicated professionals, and together, we undertook numerous projects that helped me hone my skills and expertise in the field.

What are some of your notable projects?

I have had the pleasure of working on a diverse range of projects, including residential buildings, bridges, culverts, and even the Telecom IT Park in Tirunelveli, XL Pipe Company and Rabwin. My expertise lies in both residential and commercial projects. I take great pride in delivering high-quality work and exceeding my clients' expectations.

What is your road-map for entrepreneurs?

It has been a remarkable 24 years since I embarked on my entrepreneurial journey, and even more so, 30 years since I entered this field. Over the course of my career, I have come to firmly believe that aspiring entrepreneurs must put in the hard work and consistently deliver quality work within the stipulated time frames. It's essential to gain ample experience working under someone else's guidance before venturing out on their own and taking up independent projects. This not only allows for the development of necessary skills but also instills a sense of responsibility and accountability towards their work.

Who were the people who inspired and influenced you the most?

In my journey as a civil engineer, I had the privilege of learning from Mr Srineevasan, who not only imparted his knowledge but also shared his valuable insights, making him one of my earliest mentors. Even today, he remains a good friend and a continuous source of support.

My journey as an entrepreneur was influenced by my friends Senthil and Ganesh, who not only provided guidance but also helped me chart out a definite and successful path.

The credit for my evolution as a business leader goes to Mr CT Narayanan, the Chartered President of CEBACA, who played a pivotal role in inducting me into leading organizations such as the Builders Association of India and later CEBACA.

His guidance and mentorship helped me develop a broad perspective and become a successful leader in the industry.

What is your vision for CEBACA?

CEBACA was founded with the aim of bringing construction companies together. Over the years, it has grown into a formidable organization that is making significant strides towards creating a better future for the construction industry. As one of the founding members, I am extremely proud to see the association flourish and expand, especially with the new generation bringing in fresh, innovative ideas.

During my tenure as the president of CEBACA, we undertook several initiatives that were aimed at making a positive difference in the lives of people. For instance, we purchased land for the CEBACA office and provided assistance during natural calamities such as the Tsunami and floods in Kerala. We also took up the noble cause of afforestation and developed a small forest on about 1 acre of government land in Avinashi road opposite Hotel Gokulam.

In addition, we constructed an old age home that provides a safe and comfortable living environment for senior citizens. We also collaborated with Aravind Eye Hospital to conduct screenings in 50 government schools and donated around 1000 pairs of spectacles to those who were in need.

We went a step further and provided financial assistance to those who required surgery, thus enabling them to lead a better quality of life.

What about your family?

I am blessed with a son and a daughter who bring immense joy to our lives. My son, Sudarshan, is pursuing his 3rd year of B tech in VIT Vellore, and we are incredibly proud of him. My daughter, Smrithi, is a bright young student and currently studying in class 12. She is passionate about her studies and strives to achieve excellence in all her endeavors. My wife, Sundari, is a loving homemaker who takes care of our family with utmost dedication and care. She is the backbone of our family, and we are grateful for her selfless love and support.

In my opinion, life is all about helping others. It's not just about chasing big profits, but rather allowing your actions to speak for themselves. By focusing on making a positive impact, you can create a better world for yourself and those around you.





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TECH TALK

THE INDUSTRY CORNER

In this edition's "Industry Corner," we shine a spotlight on the dynamic shifts reshaping the construction landscape and the strategies to thrive amidst change. Explore how the industry is evolving and adapting to new technologies, sustainability practices, and market demands. Join us as we delve into real-world examples, expert insights, and innovative practices that illuminate the path to a resilient and future-ready construction industry.

The Brihadeeswarar Temple: A Marvel of Tamil Architecture



தஞ்சைப் பெருவுடையார் கோயில்

(Peruvudayar temple)

அல்லது தஞ்சைப் பெரிய கோயில் (Big temple)

சமஸ்கிருதத்தில் பிரகதீஷ்வரர் கோவில் (Brihadeeswarar Temple) என்றும் அறியப்படும் தலம், சோழ நாட்டின் தலைநகரான தஞ்சாவூரில் காவிரியாற்றின் தென்கரையில்

அமைந்துள்ள திருவிசைப்பா பாடல் பெற்ற சிவன் கோயிலாகும். இக்கோயில் உலகப் பாரம்பரிய சின்னம் ஆகும். இந்தியாவில் அமைந்துள்ள மிகப்பெரிய கோவில்களில் இதுவும் ஒன்றாகவும், தமிழர் கட்டிட கலைக்கு சான்றாக விளங்கும் இக்கோவில் அற்புதமான கட்டிடக்கலை அம்சத்தைக்கொண்ட இந்திய கோவில்களில் ஒன்றாகவும் அமைந்துள்ளது. 10-ஆம் நூற்றாண்டில் புகழ் பெற்ற தமிழ் சோழ பேரரசர்

முதலாம் இராஜராஜ சோழன் இக்கோயிலைக் கட்டுவித்தார். கி.பி. 1003 ஆம் ஆண்டு தொடங்கி 1010 ஆம் ஆண்டு கட்டி முடிக்கப்பட்ட இந்த கோயிலுக்கு 2010 ஆவது ஆண்டோடு 1000 ஆண்டுகள் நிறைவடைந்தன.

இதை வடிவமைத்த கட்டிடகலைஞர் இராச ராச குஞ்சரமல்ல பெருந்தச்சன் என்பவராகும்.

எப்படித்தான் கட்டியிருப்பார்களோ...

என்று, பெரியகோவிலை ஆராய்ச்சி செய்யும் வெளிநாட்டு ஆராய்ச்சியாளர்கள், இன்றைய அதி நவீன உத்திகளோடும், விஞ்ஞானத்தின் துணையோடும், என்னதான் தலைகீழாக நின்று அக்குவேறு ஆணிவேராக ஆராய்ச்சி செய்து பார்த்தாலும் அதன் கட்டுமான ரகசியம் இன்னும் பிடிபடாமல் தலையை பிய்த்துக்கொண்டுதான் உள்ளனர். இருந்தாலும் அவர்களாகவே ஒரு அனுமானத்திற்கு வந்து இப்படி கட்டியிருப்பார்கள்,



அல்லது அப்படி கட்டியிருப்பார்கள் என்று தீர்மானத்திற்கு வந்துவிடுகிறார்கள். கரிகால் சோழனால் கட்டப்பட்ட கல்லணையைப் பற்றிய முழுமையான ரகசியம் எப்படி பிடிபடவில்லையோ, அதே போல் தான் பெரிய கோவிலின் கட்டுமான ரகசியமும் இன்னமும் யாருக்கும் விளங்கவில்லை என்பது தான் உண்மை. காரணம் இக்கோவில் கட்டப்பட்ட விதமும், அதற்கு பயன்படுத்தப்பட்ட தூய்மையான கிரானைட் கற்களும் தான். கிரானைட் கற்கள் என்பது 20ஆம் நூற்றாண்டில் தான் அறிமுகப்படுத்தப்பட்டது என்று அனைரும் நினைத்து கொண்டிருக்கையில், சுமார் 1000 ஆண்டுகளுக்கு முன்பே கிரானைட் கற்கள் கொண்டு இக்கோவில் கட்டப்பட்டிருப்பது ஆச்சரியம் தான்.

கோவிலின் அஸ்திவாரம்:

கருவரையின் மேலுள்ள விமானம், அதனைத் தாங்கும் சதுர வடிவிலான கற்கள், அதோடு சுற்றிலும் உள்ள 8 லிங்கங்கள் என இந்த மூன்றும் தான் ஒட்டு மொத்த கோவிலையும் தாங்கும் அஸ்திவாரமாக இருக்கின்றது என்பது தான் ஆச்சரியத்தின் உச்சமாகும். பொதுவாக அஸ்திவாரம் என்பது ஒரு கட்டிடத்தின் பாரத்தை தாங்கும் ஆதார சக்தியாகும். கட்டிடம் எந்த

அளவுக்கு உயரமாக கட்டப்படுகிறதோ, அந்த அளவுக்கு அதன் அஸ்திவாரமும் ஆழமாகவும், வலுவாகவும் இருக்கவேண்டும் என்பது கட்டுமான விதியாகும். இல்லாவிட்டால் கட்டுமானம் ஆட்டம் காணும்,

அஸ்திவாரம் எத்தனை அடி ஆழம்?

உதாரணமாக நாம் ஒரு வீட்டையோ அலுவலகத்தையோ கட்ட வேண்டுமென்றால், அந்தந்த நிலத்தின் தன்மைக்கு ஏற்ப, குறைந்த பட்சம் 5 அடியாவது அமைக்கவேண்டும். அது போலவே, 216 அடி உயரத்துடனும், முழுக்க முழுக்க அதிக எடைகொண்ட கிரானைட் கற்களைக்கொண்டு கட்டப்பட்ட பெரிய கோவிலுக்கு எந்த அளவுக்கு அஸ்திவாரம் அமைத்திருக்க வேண்டும் என கற்பனை செய்து பாருங்கள்.



இன்றைய கட்டுமான வல்லுநர்களை கேட்டால், உடனடியாக கனிநியை தட்டி தோராயமாக 50 அடி ஆழத்திலும், 50 அடி அகலத்திலும் போட்டால் போதும் என்று சொல்வார்கள்.

ஆனால் அஸ்திவாரம் 5 அடிதான்:

அப்படி 50 அடி ஆழத்திற்கு குழி தோண்டினால், தண்ணீர் தான் வரும், இல்லாவிட்டால் புழுதி மண்டலமாக இருக்கும். ஆனால், இவ்வளவு பெரிய பிரமாண்டமான பெரிய கோவிலுக்கு தோண்டப்பட்ட அஸ்திவாரம் வெறும் 5 அடி ஆழம் தான். நாம் நம்ப மறுத்தாலும் அது தான் அறிவியல் உண்மையாகும். அங்கு தான் நம் தமிழனின் அறிவியல் திறமை வெளிப்பட்டிருக்கிறது.

கயிற்றுக் கட்டில் ரகசியம்

பெரிய கோவில் கட்டுமான அமைப்பானது, இலகு பிணைப்பு என்ற முறையில் உருவாக்கப்பட்டதாகும். அதாவது, இக்கோவிலின் கட்டுமானத்தின் போது, ஒவ்வொரு கல்லையும் பிணைக்கும் போது, ஒரு நூலளவு இடைவெளி விட்டு விட்டு பிணைத்துள்ளனர். அதாவது, இன்றைக்கும் கிராமப்புறங்களில் உள்ள வீடுகளில் பெரியவர்கள் கயிற்றுக் கட்டிலை பயன்படுத்துவதை அனைவரும் அறிவார்கள். அந்த கயிற்றுக் கட்டில் முறையைத் தான் பெரியகோவில் கட்டுமானத்திற்கும் பயன்படுத்தி உள்ளார்கள் என்பது ஆச்சரியம்.

கயிற்றுக் கட்டிலில் பயன்படுத்தப்பட்ட கயிறானது பார்ப்பதற்கு இலகுவானதாக இருக்கும். ஆனால், அந்த கட்டிலில் ஆட்கள் உட்கார்ந்த உடனேயே பாரம் தாங்காமல் உள்வாங்கிக் கொண்டு, இறுக ஆரம்பிக்கும். இதனால், கயிறுகளின் பிணைப்பானது வலுவாகிவிடும். அந்த சூட்சுமத்தை தான் பெரிய கோவில் கட்டுமானத்திற்கும் பயன்படுத்தி உருவாக்கியிருக்கிறார்கள். கோவிலின் கட்டுமானத்தில் அடியிலிருந்து கற்களை ஒவ்வொன்றாக நூலளவு இடைவெளி விட்டு மிகவும் இலகுவாக அடுக்கும்போது, கற்கள் பாரம் தாங்காமல் இறுக ஆரம்பித்து விடும்.

எல்லாமே 80 டன்கள்

மற்றொரு ஆச்சரியம், கோவிலின் கருவறை மேல் உள்ள விமானம். இதன் மொத்த எடையானது 80 டன். பிரமாந்திரக்கல் என்றழைக்கப்படும் ஸ்தூபிக் கல் முழுக்க ஒரே கல்லால் உருவாக்கப்பட்டு பிரதிஷ்டை செய்யப்பட்டது. அது மட்டுமல்ல, இந்த விமானத்தை தாங்கும் சதுர வடிவிலான அடிக்கல்லும் கூட 80 டன் எடை கொண்டது. அதோடு, இந்த சதுர வடிவிலான கல்லின் நான்கு புறத்திலும் இரண்டு லிங்கங்கள் என 8 லிங்கங்கள் உள்ளன. ஒவ்வொரு லிங்கத்தின் எடையும் தலா 10 டன்கள் என இதன் மொத்த எடையும் 80 டன்களாகும்.

முழு கட்டுமானத்தையும் முடித்து கருவறை உச்சியில், மிகப்பிரமாண்டமான 80 டன் எடைகொண்ட, சதுர வடிவ கல், நந்தி, விமானம் என 240 டன் எடையை அழுந்தச் செய்வதன் மூலமாக பெரிய கோவிலின் ஒட்டுமொத்த கட்டுமானமும் பலம் பெற்றுவிடும். இப்படித்தான் பெரிய கோவிலின் அஸ்திவாரத்தை ஒட்டுமொத்தமாக கருவறை உச்சியில் கொண்டுபோய் வைத்தார்கள் அன்றைய நம் தமிழர்கள். இது வரையிலும் எத்தனையோ பூமி அதிர்ச்சி, நில நடுக்கம் என உருவாகி அசைக்க முயன்றாலும் கூட அவை அத்தனையும் பெரிய கோவில் கட்டுமானத்தின் முன்பு தோற்று மண்டியிட்டு வணங்கி சென்றது தான் மிச்சம். ஒரு துரும்பைக் கூட அசைக்க முடியவில்லை என்பது தான் அறிவியல் ஆச்சரியம்!

பெரும் உயரத்துக்கான சவால்

கோயிலுன் புறச்சுவர் 3.9 மீட்டர் கனமும், உட்புற சுவர் 3.35 மீட்டர் கனமும் கொண்டுள்ளன.

இவ்விரண்டு சுவர்களுக்கு இடையே 2 மீட்டர் அகல சாந்தாரம் உள்ளது. இரண்டு சுவர்களிலுமே உள்வரி வெளிவரி கற்கள் இடையில் சுண்ணாம்பு காரை நிரப்பப்பட்டுள்ளது.

உள்வரி வெளிவரி கற்கள் கிடைத்த வடிவத்திற்கேற்ப செதுக்கி படியவைக்கப்பட்டு கட்டப்பட்டதில் இணைப்பதற்கு எவ்வித காரையும் பயன்படுத்தப்படவில்லை.

அறிவியல் வளர்ச்சி அளித்த பெரும் இயந்திர கருவிகள் எதுவும் இல்லாத அந்த காலத்தில் இவ்வளவு உயரத்திற்கு பெரும் கற்களை எப்படி கொண்டு சென்று கட்டினார்கள் என்பதற்கு பல்வேறு யூகங்கள் கூறப்படுகின்றன, வடிவமைப்பு செயல்திட்ட சாத்தியங்கள் அடிப்படையில் இக்கோயிலுக்கு எகிப்திய பிரமிடு கட்டுமானத்தில் பயன்படுத்தப்பட்ட சுற்றுவட்ட சாய்தள மேலேற்றப்பாதை வடிவமைப்பு முறைதான் கையாளப்பட்டிருக்க வேண்டும், இதற்கு ஆதாரமாக சாரப்பள்ளம் எனும் இப்போதும் உள்ள ஊரில் இருந்துதான் இதற்கான மண் தோண்டப்பட்டிருக்கலாம் என்று அறியப்படுகின்றது. வெளியில் சுற்றுவட்ட சாந்தளமும் உட்பகுதியில் மண் நிரப்பியும் ஒவ்வொரு நிலையாக கட்டப்பட்டிருக்க வேண்டும்.

வெளிப்புற மண் அகற்றப்பட்ட பிறகு உள் நிரப்பப்பட்ட மண்ணை மகா துவாரம் வழியாக எலி வளை தோண்டுவது போல தோண்டி வெளியேற்றி இருக்கக்கூடும்.

தொகுப்பு

J. சகாயராஜ்

ARCHITECTURAL EXCELLENCE

A Journey with D.J. Deesigners



Aashish Raichuraa & Kshrinee Aashish Raichuraa

The Kikani school building's architectural design aims to achieve a harmonious blend between the building and nature. The open plan layout ensures a seamless connection between the classrooms and the surrounding greenery.

At the entrance of Kikani Global Academy, the revered Goddess of Knowledge, Saraswati, blesses the students with wisdom, talent, and skills. Additionally, a water body enhances the entrance, symbolizing the flow of knowledge and growth within the educational environment.

The use of white walls provides a clean and fresh aesthetic and helps to reflect natural light, creating a bright and uplifting atmosphere in the classrooms. The strategic placement of windows ensures that every room receives ample natural light and ventilation.

D.J. Deesigners, Coimbatore

KIKANI GLOBAL ACADEMY

Location: Perur-Chettipalayam, Coimbatore Site

Area: 8 Acres

Total Built up Area: 1.5 Lacs sq.ft.

Established in 1985 by Dhires Jayasi, known as 'DJ,' D.J.Deesigners offers Architectural, Structural, and Interior Design services. The firm has completed diverse projects including housing, textile mills, hotels, and educational institutions.

Aashish Raichuraa, Gujarat University 1st Rank Holder and his wife Kshrinee Aashish Raichuraa lead the team and are actively involved in the Indian Institute of Interior Designers (IIID) Coimbatore Centre.

To enhance the connection with nature, the exterior walls of the building are adorned with brick and stone cladding. This adds visual interest and texture to the facade and further integrates the school building with its natural surroundings.

The careful positioning of the school within the site maximizes the views of the surrounding greenery, creating a serene and inspiring learning environment for the students. It allows them to feel connected to the outdoor environment, fostering a sense of appreciation and respect for nature.





D.J.Deesigners Office

Location: Saibaba Colony, Coimbatore

Office Built up Area: 6000 sq.ft.

D.J. Deesigner's office is an innovative extension project that seamlessly adds two new floors to an existing G+1 house. The design theme revolves around the rich art and history of Indian architecture. As you enter the office, you will find yourself in a double-height lawn area that leads to the reception space. The conference room doors open seamlessly to this expansive lawn, offering a versatile space for social gatherings, dinners, or lunches after important meetings.

A central double-height courtyard floods the entire plan with ample light and ventilation. It is adorned with captivating Warli art figures that cast intriguing shadows during the daylight hours. The courtyard's walls showcase vibrant Madhubani art, depicting branches, leaves, and parrots, creating a tree-inspired ambiance.

Each room benefits from abundant light and ventilation, thanks to two strategically placed double-height courtyards. One greets visitors at the

entrance, while the other sits centrally within the floor plan. These courtyards not only elevate the aesthetic appeal but also ensure that every room enjoys a well-lit and well-ventilated atmosphere.

In the waiting hall, visitors are greeted by iconic Indian monuments that vividly depict the architectural timeline across different regions of India. This room features a burst of colour with the inclusion of Mandala art.

Sustainable design takes centre stage as old materials from the previous office find new life as partitions and doors in the refreshed workspace. The integration of modern lighting enhances the aesthetic appeal across all spaces.

The connection between the 2nd and 3rd floors is established through a spiral staircase, breathing new life into the design by repurposing a key element from the old structure.



EMPOWERING HOMES, ENERGIZING LIVES:

The PM Surya Ghar Yojana

The PM Surya Ghar Yojana, or PM Surya Ghar Muft Bijli Yojana, is a pioneering government initiative in India. It aims to equip 1 crore households with rooftop solar panels, fostering clean energy use and reducing electricity expenses. Beneficiaries receive substantial benefits, including up to 40% subsidy on installation costs, free electricity up to 300 units monthly, and potential savings of ₹15,000 annually. This program not only helps households save money but also reduces their carbon footprint, making strides towards a greener and more sustainable future.

PM - SURY GHAR: MUFT BIJLI YOJNA (Rooftop Solar System for Households)

- Up to 300 units of Monthly Electricity Generation through installation of rooftop solar panel.

Subsidy Structure

Solar Plant Capacity	Total Cost(in Rs.)	Subsidy by Govt.	Effective Cost.
1 kWp	55,000 - 65,000	30,000	25,000 - 35,000
2 kWp	1,00,000 - 1,15,000	60,000	40,000 - 55,000
3 kWp	1,40,000 - 1,50,000	78,000	62,000 - 72,000

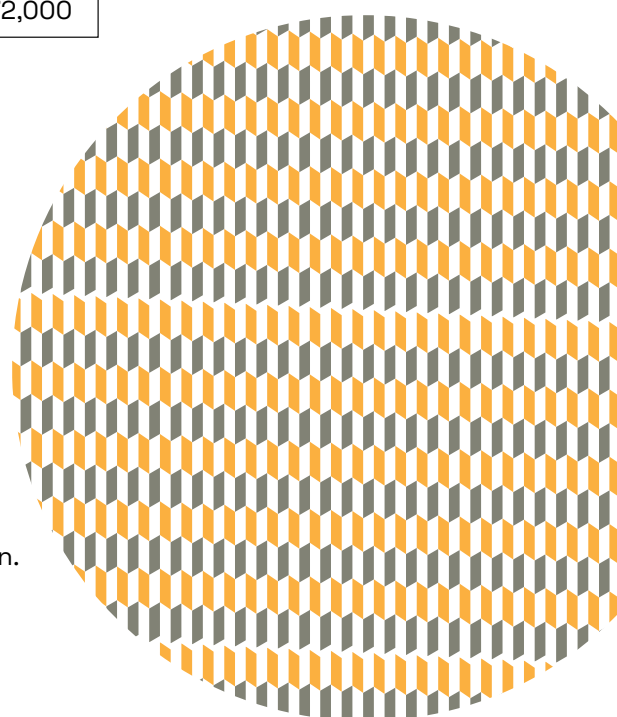
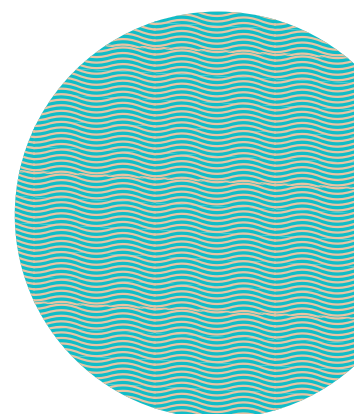
Requirements for Registration

- Valid Mobile No.
- Electricity Connection Consumer No. with Photo of Electricity Bill to be uploaded (Any of last six months).
- Area and Photo of Rooftop (optinal).

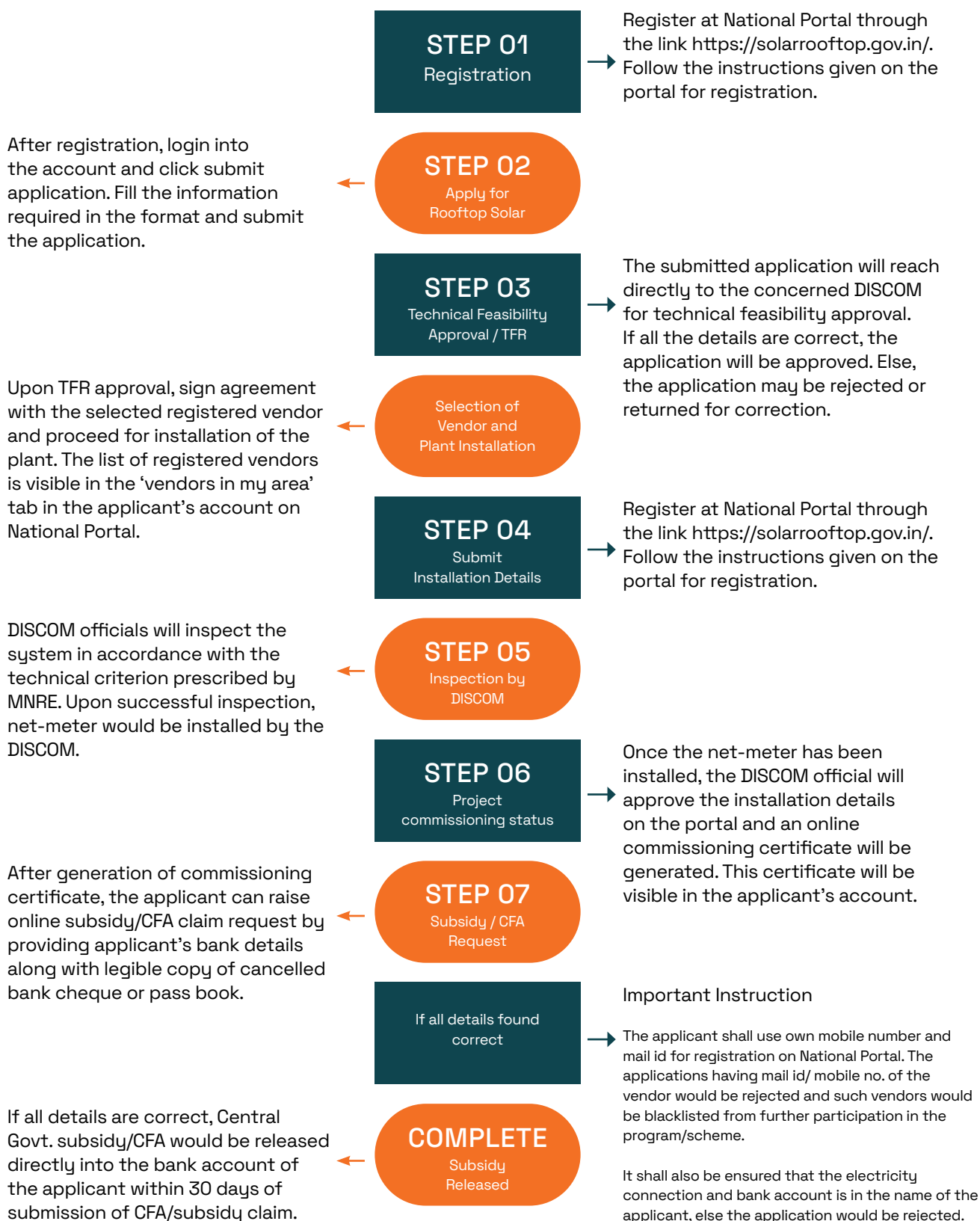
Process of Registration

Required Android application - **QRT PM Surya Ghar** (Available in Google Play Store)

- Download and install the application from play store.
- Open the application and click on let's start.
- Click on DOP Volunteer.
- Provide Mobil no. and Enter Captcha and click on login button.
- Click on Start Survey button for initiating registration.
- Fill the beneficiary details in the registration form.
- Please ensure* (star) marked columns are filled.
- Click on Submit to Complete the Registration.



Procedure for installation of rooftop solar plant through National



THE POTENTIAL OF INSTITUTIONAL ARCHITECTURE IN INDIA



Ar Kamalahasan Ramaswamy
Founder & Principal Architect - Cuboid

Almost all the government institutions and the majority of the private institutions including those of the premier institutions fall under the shoebox category. Even many of the architectural institutes fail to reflect a sense of architecture in their buildings. At present there is an effort by the star institutes to conduct architectural competitions and finalize a worthy design. But that is an insignificant count when compared with the schools and colleges that number in lacs. According to the 2014-15 statistics of our MHRD, there are more than 15 lac schools, 760 universities (comprising 38,000 colleges) and 12,000 diploma institutes in India.



Ar John Antony JR
Founder & Principal Architect - Cuboid



‘The good things that we build end up building us’ - Jim Rohn

Most of our lively youth is spent in institutions supposed to empower us with knowledge and character. We learn not only by what is taught but also by observing what is around, and in this respect the built and natural environment of a learning centre become part of the education.

That is why most of our learning institutions like the historic Nalanda University and almost all of our spiritual edifices reflect stunning builtforms and micro-environments conducive to contemplation, learning and exchange.

Often, the buildings feature lengthy corridors flanked by classrooms laid out to the minimum standards specified by the affiliating bodies. The entrance would be a flashy spectacle and a point of investment to lure the parents of prospect students while the rear part would feature a plain facade with haphazard service lines.

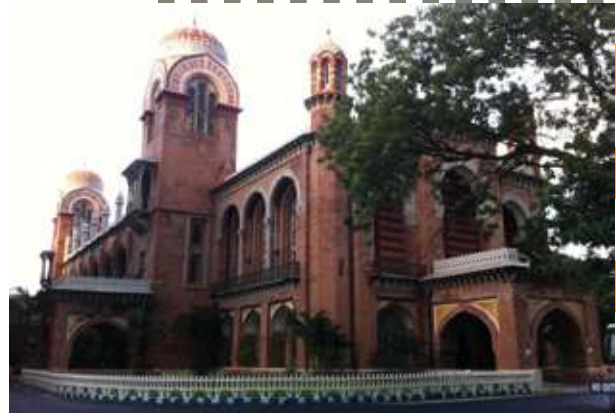


Almost all the government institutions and the majority of the private institutions including those of the premier institutions fall under the shoebox category. Even many of the architectural institutes fail to reflect a sense of architecture in their buildings. At present there is an effort by the star institutes to conduct architectural competitions and finalize a worthy design. But that is an insignificant count when compared with the schools and colleges that number in lacs. According to the 2014-15 statistics of our MHRD, there are more than 15 lac schools, 760 universities (comprising 38,000 colleges) and 12,000 diploma institutes in India.



Bylaws can be complied with ease as the aspects of ground coverage, FSI and setbacks can all be comfortably met, unlike in the case of commercial buildings where issues of deviations and violations crop up as the investors struggle to exploit the advantage of a plot by squeezing maximum floor space.

Considering that the end users are young students who are hooked on to their gadgets, well planned social hubs, collaborative learning spaces and cheerful recreational amenities can be provided.



The current trend is to open up the institution with minimum infrastructure and fund the successive phases with the admissions generated from the previous phase. In most cases, the design has to be 'international' in appeal and 'local' in budget.

When it comes to residential and commercial buildings the dynamics of design are different, often governed by limitations of tight plots, preferences of prospect buyers and tenants, financial manipulations by investors and unfavorable stipulations of bylaws. However, in the case of institutional buildings there is considerable scope for design and in fact each campus can turn out to be wonderful labs for experimentation with creativity. The plot sizes are generous in the case of institutions, providing adequate opportunity for interesting masterplans and landscape.



The new campus of the Oxford Brookes University is an award winning exciting project. According to the University, the new buildings were designed to meet the University's 'vision for a holistic approach to enhancing the student experience'. The emphasis here was on social learning spaces with more lounges, pods, discussion areas and cafes with good indoor outdoor interface. Formal classrooms were reduced. The libraries were shifting towards virtual stock and making way for more reading, personal working and browsing spaces.



However, the convocations happened in their gorgeous heritage building set in lush green surroundings. Students get to enjoy both the ambience - historic and contemporary. Various colleges of Oxford University which dominate the entire city, feature beautiful historic buildings with courtyards (called 'quads') with stunning modern extensions next to them. Rigorous process goes into the design of such interventions, and the important point to note here is that both the 'preservation of old' and 'creation of new' get their due respect.



The sad part here is that we have neither preserved the beautiful heritage institutional buildings of our past nor have we created valuable new institutional buildings that can become part of the heritage in future. The old is left to die while the new is nothing unique. The students might end up as mundane as the buildings from which they pass out.



It is also unfortunate that affairs like creativity and design often get linked to high costs and elite mass, thereby making them an unfavorable dream for the common lots. Starry designs and striking expressions are sure to shoot up the costs but sensible designs and subtle expressions are not so. The latter would be based on ideas, solutions and skills and in fact help reduce cost and be more inclusive of all class of people. The challenge here is to set the vision for the institute and identify the right teams who can help in realizing this vision.

It is important for the students, parents and faculties to mind the quality of the infra-structure while they make their choices. For, if we cannot change the trends, the trends will change us.

Review Corner

**CEBACA
TIMES** Fifth Edition
2024-2025

How effectively do you believe our new publication, CEBACA Times, highlights the most current trends, innovations, and best practices in the construction industry? Are there particular areas you would like us to give more emphasis to? Do you have any additional suggestions, feedback, or specific improvement areas in mind for our forthcoming editions? Your input is greatly valued! Please feel free to reach out to us at cebacacbe@gmail.com



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Crestron: Effortlessly integrate and control home and office technology. Streamline controls with one touch screen for lights, alarms, music, and more. Accessible from anywhere using smart devices. Elevate your designs with seamless technology integration.



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As occupants, we are increasingly aware of the fact that energy efficient construction should be a qualitative and long-term investment in a healthy and comfortable future. After all, an airtight and well insulated construction can dramatically reduce our energy bills.

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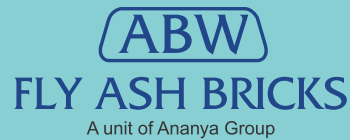
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