

Civil & Structural PERIODICAL

VOLUME 1 ISSUE 1

Department of Civil Engineering

DECEMBER 2020



FRAME OF HONOUR

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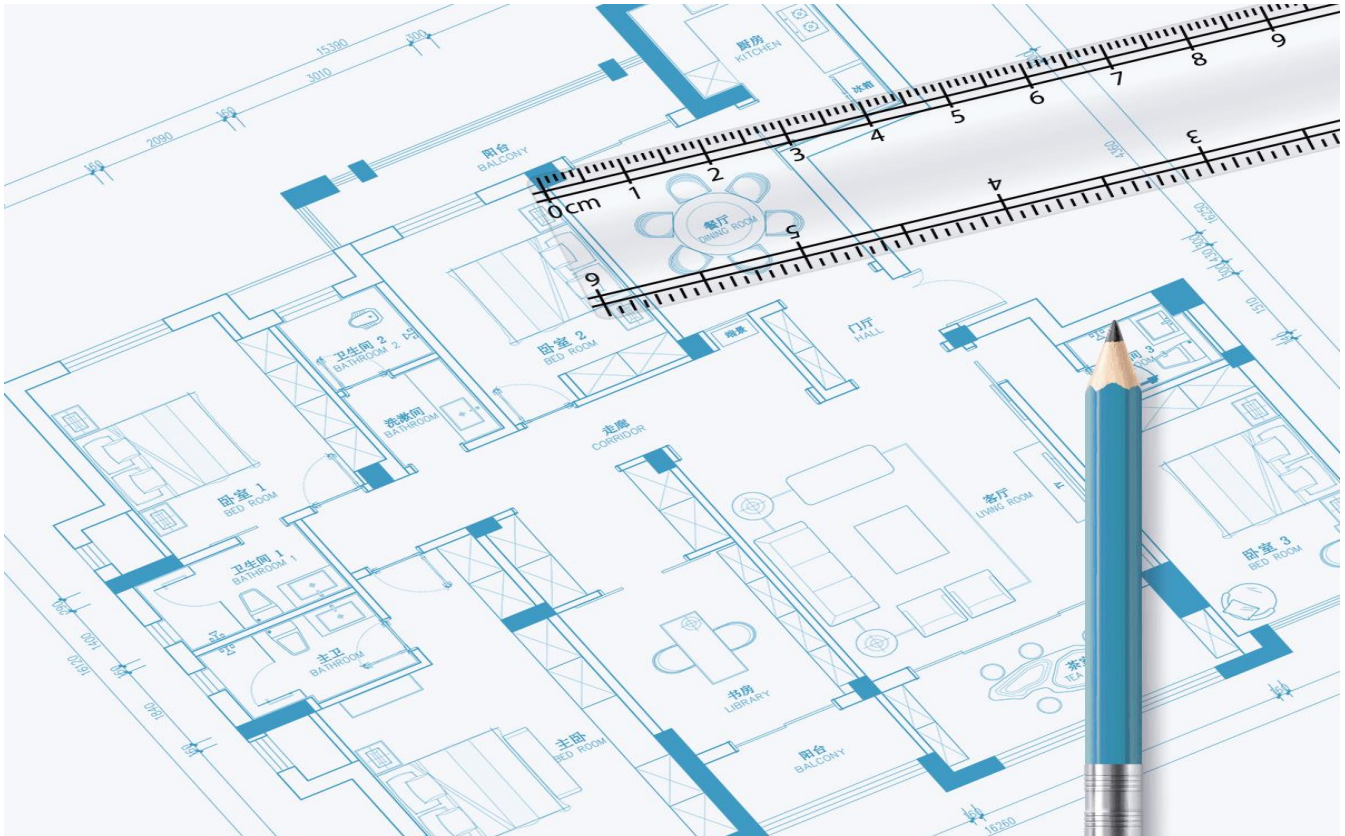
Nadar Saraswathi College of Engineering and Technology

Vision

Place for Technology Revolution

Mission

- Promote and undertake all inclusive developments.*
- Develop high quality technical education with academic excellence and innovative research with ethics.*
- Create an atmosphere where teacher enjoys facilitation and learners enjoy learning through Foster innovation.*
- Collaborate with industry and academic to meet the changing needs of society.*



Department of Civil Engineering

About the Department

The department of civil engineering was established in the academic year 2010-2011. the department plays a leading role in evolving an “*latest technology with engineering science*” based curriculum. The faculty members are highly qualified and specialized in the field of structural engineering, construction engineering, foundation engineering and environmental engineering. The civil engineering students learn to innovate technology to prove the real world challenges and solve it with individual knowledge. Civil Engineering is the discipline that deals with the design, construction and maintenance of the physical and natural built environment, including works like roads and bridges. The civil engineering is started with the goal to become the centre of excellence for the development and dissemination of knowledge in the field of structural engineering, construction engineering and environmental engineering



Vision

Build professionals & entrepreneurial skills to lead socio-economic domains.

Mission

- Practice sustainable environment to meet professional challenges with ethics.*
- Mentor students for innovative thinking with relevance to civilization.*
- Interact consistently with the industries to work on problems.*
- Endeavour for excellence in all facets of civil Engineering.*

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs):

- *To prepare students for successful careers in Civil Engineering field that meets the needs of Indian and multinational companies.*
- *To develop the confidence and ability among students to synthesize data and technical concepts and thereby apply it in real world problems.*
- *To develop students to use modern techniques, skill and mathematical engineering tools for solving problems in Civil Engineering.*
- *To provide students with a sound foundation in mathematical, scientific and engineering fundamentals necessary to formulate, solve and analyze engineering problems and to prepare them for graduate studies.*
- *To promote students to work collaboratively on multi-disciplinary projects and make them engage in life-long learning process throughout their professional life.*

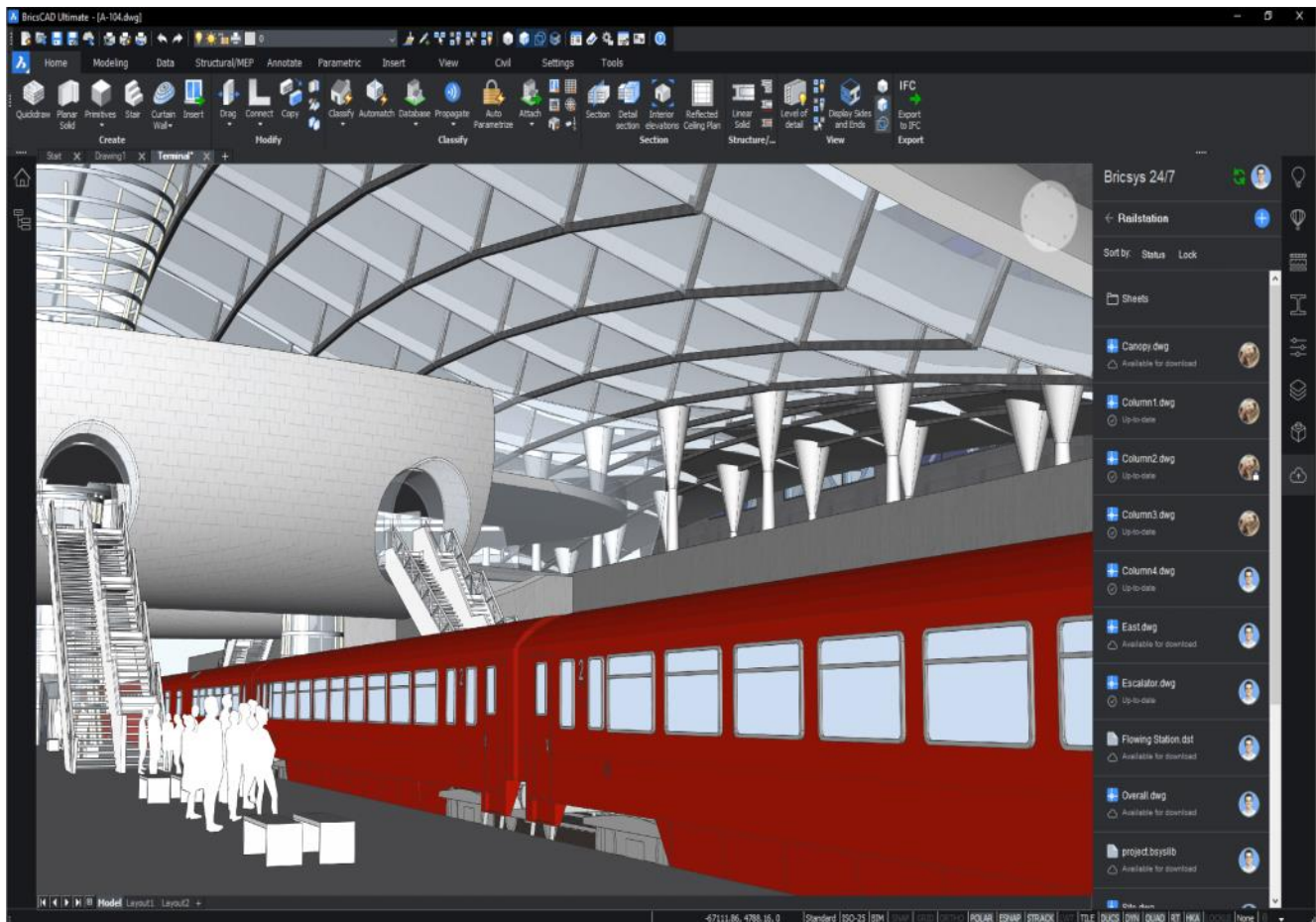
PROGRAMME SPECIFIC OUTCOMES (PSOs):

- *Capable of designing and building civil engineering-based systems in the context of environmental, economical, and societal requirements and serve the community as ethical and responsible professionals.*
- *Able to use Knowledge in various domains in Civil Engineering to identify research gaps and hence to provide solutions. Innovations and engage in life-long learn for professional growth.*

PROGRAMME OUTCOMES (POs):

On successful completion of the programme,

- Graduates will demonstrate knowledge of mathematics, science and engineering.*
- Graduates will demonstrate an ability to identify, formulate and solve engineering problems.*
- Graduate will demonstrate an ability to design and conduct experiments, analyse and interpret data.*
- Graduates will demonstrate an ability to design a system, component or process as per needs and specifications.*
- Graduates will demonstrate an ability to visualize and work on laboratory and multidisciplinary tasks.*
- Graduate will demonstrate skills to use modern engineering tools, software and equipment to analyse problems.*
- Graduates will demonstrate knowledge of professional and ethical responsibilities.*
- Graduate will be able to communicate effectively in both verbal and written form.*
- Graduate will show the understanding of impact of engineering solutions on the society and also will be aware of contemporary issues.*
- Graduate will develop confidence for self education and ability for life-long learning.*



Building Information Modeling (BIM)

Increased prefabrication, modularization, and eco-friendliness. BIM is similar to CAD (computer-aided design), but not exactly the same. It is software for 3D design to digitally model what will be built. But it's capabilities don't stop there: "It doesn't just create a visually appealing 3D model of the building, it also creates numerous layers of metadata and renders them within a collaborative workflow," writes Engineering.com. It captures things in a way that paper just can't. 30 to 35% of builders are currently using BIM/CAD software. The use of BIM provides space for better collaboration because each person and expertise area can add their piece to the same model, instead of breaking out onto multiple versions of a 2D paper drawing. One of the top trending construction technology in 2020. This way, the model evolves immediately as people contribute, streamlining the process and increasing efficiency. BIM also helps with problem-solving in the design and planning stages of a project, by automating clash detection and providing a more complete picture of the project.

Source : civilwale.com/10-recent-trends-in-civil-engineering/



History of High Performance Concrete

In 2007 the Contec Ferro plan is placed on 6 concrete viaducts (N37/ A37) in the Netherlands to re-strengthen the existing structure and to upgrade the capacity. The Contec Ferro plan is placed with a large slip form paver.

The Contec Ferroplan is placed in Germany on large industrial pavements for the collection of steel scrap and steel waste. The large jointless pavement is according to the strict German regulations regarding protection of the sub grade to avoid pollution.

Contec ApS developed a new semi-flexible pavement and flooring system, MonoConfalt that can be reinforced with fibers and/or welded mesh reinforcement. In 2007 Contec International GmbH is founded to promote the range of Contec products in Germany and Switzerland and to give support to our customers in both countries.

In 2009 the new Danish Radio concert hall in Copenhagen, designed by the famous French architect and Pritzker prize winner Jean Nouvel, is inaugurated by the Danish Royal Family. The floors are made in the new developed MonoConfalt and stairs and prefab panels on the outdoor passageway are cast in UHPC supplied by Contec ApS.

Source : <http://civil-resources.blogspot.com/2010/06/high-performance-concrete.html>

“Keep your face
always toward the
sunshine – and
shadow will fall
behind you “

-Walt Whitman



SCAN ,PLAY, LEARN



Indian infrastructure company [Larsen & Toubro](#) won the contract on 27 October 2014 for its lowest bid of ₹2,989 crore (equivalent to ₹38 billion or US\$540 million in 2019) for the design, construction and maintenance of the statue



L&T Construction & Mining Machinery

About L&T

Larsen & Toubro Limited ('Larsen & Toubro' or 'L&T') is a USD 17 billion technology, engineering, construction, projects, manufacturing and financial services conglomerate, with global operations. It addresses critical needs in key sectors – infrastructure, construction, defense, hydrocarbon, heavy engineering, power, ship building, aerospace, electrical & automation, mining and metallurgy.

L&T's integrated capabilities span the spectrum of 'design to deliver' solutions. Over seven decades of a strong, customer-focused approach and a sharp focus on world-class quality have enabled it to maintain a leadership position in its major lines of business.

The Company has manufacturing facilities and offices in several countries, and a global supply chain. It delivers landmark projects and products, helping clients in 30 countries to create long-term progress and economic growth.

Characterized by professionalism, high standards of corporate governance and sustainability, L&T continues to evolve, seeking better ways of engineering to meet emerging challenges.



“Reading changes your mind,
Applying changes your life.” –
Jay Shetty



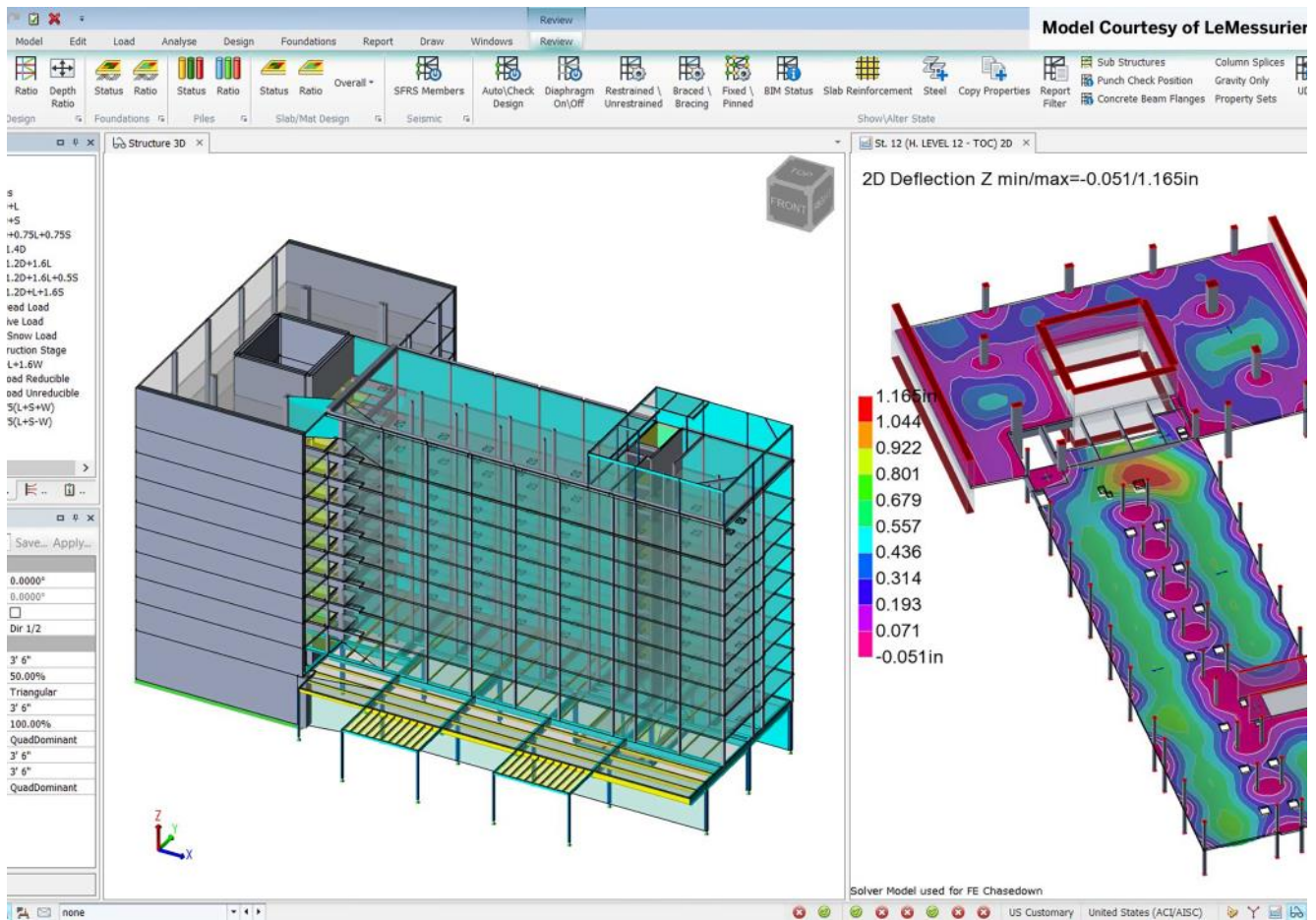
Highlights

- Currently executing metro projects across 10 cities in India – as well as major portions of the Riyadh and Doha Metros
- Development of India's largest Transit Oriented Development project in Hyderabad
- Commissioned India's largest city surveillance project (5000 cameras at 1500 locations) in Mumbai
- Implementation of modules of Smart Cities Programme in Mumbai, Jaipur, Nagpur, Pune, Hyderabad and more...
- Currently building the world's longest extra-dosed bridge over the Ganges at Patna, Bihar
- Executing the largest private sector defense order for Artillery Systems – for the manufacture of 155 mm / 52 Cal Self Propelled Tracked Guns
- Played a role in building 19 of India's 22 nuclear reactors and is involved in all 9 reactors under construction
- Currently building the world's largest high-vacuum pressure chamber, the Cryostat, for ITER
- Delivered 8 reactors for the Refinery and Petrochemical Integrated Development (RAPID) project for Petronas, Malaysia
- After the successful moon and Mars missions, L&T also partnered ISRO in the launch of 104 satellites in a single mission
- Played a vital role in the execution of ONGC's first Deepwater project - the Vashishta & S1 subsea project
- Launched L&T InfoTech's proprietary platform and Experience Centre (MOSAIC), demonstrating how new-age technologies impact real business scenarios

Awards & Recognition

Every year, L&T and its people receive a number of national and international awards that acknowledge its varied accomplishments. Presented by the media, industry associations, independent bodies and academia, they honor the Company's contribution in various spheres of business, technology, financial performance, growth and environmental protection.

<https://www.larsentoubro.com/corporate/about-lt-group/>



Tekla Structures

Tekla Structures is the most constructible structural software for BIM. With it, you can create, combine, manage and share accurate multi-material 3D models full of construction information.

Tekla Structures is one of the most capable and advanced systems in its field, but one downside to this is that it takes a little longer to learn as it has more tools, settings, possibilities, and opportunities for customization.

Tekla is much better for detailing and fabrication. Revit is also good for architectural modeling and mechanical and electrical engineering. Both are good for structural engineering. Tekla is much better for detailing and fabrication. Tekla Structures, the most advanced structural BIM software, lets you create, combine, manage and share multi-material 3D models packed with valuable construction information.

Source : <https://www.tekla.com/products/tekla-structures>



M Sand

M Sand (Manufactured Sand)-A substitute to River Sand

M Sand is nothing but artificial sand made from crushing of rock or granite for construction purposes in cement or concrete. M sand differs from natural river sand in its physical and mineralogical properties.

Why Manufactured Sand?

Nowadays, sources of natural sand such as river sand, pit sand, stream sand, sea sand and other sands for use as an aggregate in construction are becoming scarce and exhausted due to environmental degradation. The driving need for alternative aggregates in construction has given the source to M Sand.

Another cause for the use of M sand is its active availability, reducing transport distances and minimising pollution. M Sand is a better substitute to river sand as it is produced by machines in proper proportion with particle size.

Properties of Manufactured Sand

Greater Durability: The physical and chemical properties in M Sand are balanced and can withstand any harsh climatic conditions. It has the ability to overcome the defects in concrete like segregation, honeycombing, corrosion of reinforcement steel, voids, capillary, bleeding

Source : <https://www.buildersmart.in/blogs/M-sand>

“Be realistic,
demand the im-
possible!”

-Che Guevara



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Elcot IT Business Park, Chennai



About Company:

URC construction from strength to strength. We believe strongly in the competitiveness of the Indian market and the unique challenges that our environment creates for us to be world class. As business and corporate citizens, we are committed to contributing to the growth of the nation and this is where we believe our deep-rooted values set us apart. Along the way we have learned hard-won business lessons on breaking from conventional practices and taking on challenges, bringing a great deal of expertise to our clients, strengthening the company, both, technically and at the management level. Our values, inherited from the absorbing tale of our founder, have allowed us to preserve the spirit of the company through periods of intense growth. As we move ahead to the future, we are determined to serve our clients and the nation at large with a newfound relevance of our values, regardless of change.

"URC is an extremely quality conscious organization. Our benchmarks are set high and we strive to achieve the highest level of quality in all its undertakings. We have a well documented approach to quality management and are committed to improving the effectiveness of the system continually."



“There are no mistakes, only opportunities.”
—Tina Fey



JOIN THE TROOP

QUALITY OBJECTIVES

- Adapting safe procedures in execution process.
- Delivering quality output at economical cost.
- Having effective control over unproductive works.
- Having effective preventive maintenance.

GROUP COMPANIES

- URC Builders
- URC InfoTech (P) Ltd
- URC Creative Developers (P) Ltd
- URC Gurukulam
- URC Power Product (P) Ltd
- Palaniammal Matric Hr. Sec. School

Five P Venture India (P) Ltd **ENVIRONMENT HEALTH & SAFETY** Our vision is “Zero Accidents” We are strongly committed in our all operations to working safely at all times, while ensuring minimizes impact to our environment.

We has undertaken several initiatives to improve our safety performance, including mandatory induction / PPE, training programs, Daily talks, Motivation, Internal / External audit, Award system and etc...

- For sustainability in EHS, we are introduce LIFE
- Leadership for injury free environment (LIFE)

All employees and everyone in our projects, from workers to customers, have ownership of the EHS program and binding with accountability for its implementation. The core principles of our LIFE philosophy are:

All incidents and injuries are preventable & Injury-free operations are possible in construction. Each URCCian is empowered to stop all unsafe act or condition in the jobsite.

Source : <http://www.urcindia.com/about/company.html>



History of Ready Mix Concrete

This economical, easy-to-make product ranks as the world's most widely used building material. In fact, it serves as the foundation for nearly all of the skyscrapers, factories, dams, bridges and overpasses built today.

Ready-Mixed Concrete Introduced:

In 1913, the first load of ready-mixed concrete was delivered in Baltimore, MD. This concrete was processed at a central mixing plant and hauled to the construction site in a dump truck. In 1914, the Panama Canal opened, with three pairs of concrete locks having floors up to 20 feet thick and walls up to 60 feet thick at the base.

Two years later, Stephen Stepanian of Columbus, OH, applied for a patent for the first truck mixer. He failed to get the patent because the prototype truck was too heavy to carry a load of concrete. In 1921, the large concrete parabolic airship hangars at Orly Airport in Paris were completed.

Within the next decade, trucking technology improved and ready-mixed concrete was being delivered in at least 25 cities across the United States. Some of these companies also supplied centrally mixed concrete that was delivered in dump trucks. By 1923, two of the Western Paving Company's concrete plants in Oklahoma City each produced up to 1,000 cubic yards of concrete a day.

Source : <https://www.kuhlman-corp.com/history-of-concrete/>

"Strive for
perfection in
everything you do."
~ Henry Royce



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Formation of Modern integrated Check post at Pethikuppam (Incoming and Outgoing) in Tiruvallur District.



About the company

Founder **Mr. SP Periasamy** started this company in the year 1970 as a proprietorship firm. Since 1977, there was no looking back. It was then, the company had entered into many government departments like PWD, TNHB, Railways, Police Housing, Slum Clearance Board, CPWD, etc... under this name the company grew rapidly and reached a sales figure of rupees 30 Crores per annum, in the year 1993 itself.

after 1994, in order to take part in international bidding and overcome the challengers in the partnership firm, the promoters started a Private Limited Company called P&C Constructions (P) Ltd., Both the Companies SP Periasamy & Co. and P&C Constructions (P) Ltd., did very good business in their respective verticals. It was in 2004, that both the companies together had crossed a sales figure of Rs.100 Crores PA. Having felt the difficulties in managing two contracting companies in one roof, in the year 2004, SP Periasamy & Co., was merged with P&C Constructions (P) Ltd.,



"We shape our
buildings; thereafter
they shape us." ~
Winston Churchill



JOIN THE TROOP

P&C Constructions (P) Ltd., was changed as P&C Projects (P) Ltd., in the year 2015.

Today, the company's presence is very well established in the fields of Residential, Public, Commercial, Industrial buildings, Roads & Bridges, irrigation & water supply sectors, WTP & STP projects and also in Railways.

The Company's strength is its Manpower and Plant & Machinery built on the foundation of its characters like ethical business behavior & timely delivery with the highest quality.

Today, we are marching towards 500 crore Sales figures, with a vision of reaching 1000 crore by the year 2020.

The Company started with a single staff, but today have staff strength of around 450 nos.

(excluding technicians, drivers, operators, etc..). It has civil engineers, mechanical engineers, electrical engineers, automobile engineers, who are having expertise in designing & executing jobs of their respective verticals. We also have civil, mechanical & electrical foreman and technical assistants to face the day to day activities at any project site.

Apart from engineers, we have a company secretary, internal auditor, and finance manager - who monitors & guides the way the company marches ahead.

P&C range of services includes:

- Pre-engineering, feasibility studies and detailed project reports
- Engineering, design and consultancy services.
- Complete civil and structure construction services for all types of building, industrial and infrastructure projects.
- Engineering including fabrication and erection of structural steelwork, supply, erection, testing and commission of plant and equipment, heavy-lift, high-pressure piping.

Source : pandc.co.in/about.php



History of Fiber Reinforced Concrete

A French gardener by name Joseph Monier first invented the reinforced concrete in the year 1849. If not for this reinforced concrete most of the modern buildings would not have been standing today.

FIBER REINFORCED CONCRETE

The construction material is continuously evolving. The demand for high strength, crack, resistant and lighter concrete resulted in development of fiber reinforced concrete (2, 3, 4, 5, 6, 7). Fibers that are used are steel, nylon, asbestos, glass, carbon, sisal, jute, coir, polypropylene, kenaf.

History of FRC

The practice of adding certain fibers to construction material dates back to the ancient times. When horse hair, straws were used to strengthen the bricks. In 1911 Porter found that fiber could be used in concrete. Early 1900 saw the use of asbestos fiber. In 1950 fiber reinforced concrete was becoming a field of interest as asbestos being a health risk was discovered. In 1963 Romualdi and Batson published their classic paper on FRC. Since then there was no looking back, glass, steel, polypropylene fiber were used in concrete.

Source : https://swsu.ru/sbornik-statey/pdf/08_chapter%201.pdf



History of Prestressed Concrete

The concept of prestressed concrete appeared in 1888 when P.H. Jackson was granted the first patent in the United States for prestressed concrete design. Jackson's idea was perfect, but the technology of high strength steel that exhibited low relaxation characteristics was not yet available. It was not until Eugene Freyssinet defined the need for these materials that prestressed concrete could be used as a structural building material.

Unfortunately, although Freyssinet, a brilliant structural designer and bridge builder, lacked the teaching qualities necessary to communicate his ideas to other engineers. It would take Gustave Magnel to write the first book of design in prestressed concrete, communicating this idea to designers worldwide. Magnel designed and built the legendary Walnut Lane Bridge in Philadelphia, which revolutionized prestressed concrete in America. Simultaneously, Ulrich Finsterwalder, the German bridgebuilder and designer, was revolutionizing the construction means and methods for prestressed concrete bridges. For example, Finsterwalder invented the free-cantilever construction method of prestressed concrete bridges, which allowed long span bridges to be constructed without stabilized shoring. He then designed stress-ribbon bridges, which would eventually allow prestressed concrete to span distances only steel suspension bridges could

Source : <https://krex.k-state.edu/dspace/handle/2097/1439>

"Take the best that exists and make it better."

~ Henry Royce



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Construction of Water Supply System for Upper Shilong Water Supply Project under Non-Lapsable Central Pool Resources (NLCPR) Package I



About the Company:

For decades, eastern India was dismissed as remote and under-invested. This picture is rapidly changing. With fresh investments being made in the development of roads, railways and airports. The one company that is helping to make this a vibrant reality is Tantia Constructions Limited. A core infrastructure company. A pioneer in creating infrastructure in Eastern India. Enjoying a wide and deep footprint across the region today.

Possessing a rich terrain experience of over four decades. Reflected in a robust order book of Rs. 2500 crores.

ROBUST FUNDING

A significant number of projects we work on enjoy committed funding from the World Bank, Japan Bank for International Cooperation or the Asian Development Bank, de-risking us from funding delays and incompleteness.

REGIONAL FOCUS

The resurgence of Eastern India has thrown a number of opportunities our way through invest-



“Everything you
can imagine is
real”

-Pablo Picasso



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ments in creating infrastructure for increasing industrial activity, growing trade and commerce and enhancing demand for real estate.

INTERNATIONOMNAL SPREAD

We have enhanced our international experience through projects in Bangladesh, Nepal and Bhutan in association with active local partners, a valuable precursor to our prospective entry in neighboring underdeveloped countries and the fast-growing ASEAN.

PRUDENT RECRUITMENT

We create long lasting trust and win-win partnerships through recruitment from within the local population, resulting in a better understanding of the geographic terrains and local work practices.

The net result of this business model is a rare distinction of growth in our business in good times and bad and having completed every single assignment we embarked upon in the 49 years of our existence.

I am confident that these fundamentals will stand the Company in good stead leading to increasing wealth for our shareholders and justifying our strong presence in the business of the future.

ACHIEVEMENT:

- 32 32.8% CAGR (four years) in revenues leading to 2007-08
- 56.77% CAGR (four years) in profit after tax leading to 2007-08
- 107.56% growth in earnings per share from Rs. 4.76 in 2003-04 to Rs. 9.88 in 2007-08
- 92.14% growth in market capitalization from offer price of Rs 50 per share in 2006 to Rs. 108.08 crore as on 31 March 2008 (BSE)
- Uninterrupted dividend payout for nine years

Source : <https://www.tantiagroup.com/company.html>



History of Prefabricated Structures

Buildings have been built in one place and reassembled in another throughout history. This was especially true for mobile activities, or for new settlements; one of the first buildings at Cape Ann in 1624 was probably partially prefabricated, and was rapidly disassembled and moved at least once. John Rollo described in 1801 earlier use of portable hospital buildings in the West Indies. Possibly the first advertised prefab house was the "Manning cottage". A London carpenter, Henry Manning, constructed a house that was built in components, then shipped and assembled by British emigrants. This was published at the time (advertisement, South Australian Record, 1837) and a few still stand in Australia. One such is the Friends Meeting House, Adelaide. The peak year for the importation of portable buildings to Australia was 1853, when several hundred arrived. These have been identified as coming from Liverpool, Boston and Singapore (with Chinese instructions for re-assembly). In Barbados the Chattel house was a form of prefabricated building which was developed by emancipated slaves who had limited rights to build upon land they did not own. As the buildings were moveable they were legally regarded as chattels.

Source : <https://careerthesaurus.com/careers/prefabricated-modular-buildings/>



Interlocking Bricks

Typically, the construction process and masonry can be tedious, time consuming, and expensive. To overcome the hardships and issues encountered during construction, varied methods of construction is being considered and developed. Simultaneously, materials and equipment used for construction are also being fabricated to enhance the quality of construction and furthermore minimize the time and cost. **Interlocking bricks** is one such advancement in the construction industry.

Interlocking bricks are the enhanced form of conventional clay bricks. Each brick is constructively designed to lock itself to the other bricks around without the use of mortar. The self-locking is achieved using shear-key and lock mechanism. Based on the design, the shape of shear-key will vary and a complimentary lock is provided on the opposite side of brick. Load transfer is achieved by shear transfer and gravity.

Interlocking bricks are **compressed and stabilized earth bricks** which contributes to strength of the structure. They are usually not subjected to baking. Interlocking bricks come in various sizes and locking systems depending on the supplier. A typical brick size is 230x100x75mm (9x4x3 in). The cost of inter-locking bricks varies from 0.5\$ to 2\$ (Rs. 30 to Rs. 150).

Source : <https://civildigital.com/interlocking-bricks-features-of-interlocked-brick-masonry-benefits->



Steel Construction

The erection of structural steelwork consists of the assembly of steel components into a frame on site. The processes involve lifting and placing components into position, then connecting them together. Generally this is achieved through bolting but sometimes site welding is used. The assembled frame needs to be aligned before bolting up is completed, and the structure handed over to the principal contractor.

Often the ability to complete these processes safely, quickly and economically is influenced significantly by early decisions made during design long before erection commences. It is important that designers clearly understand the impact that their decisions can have; "buildability" is a valid design objective. In this context, this article draws on the wider advice given in the SCI publication P178 Design for Construction.

Adequate access is required by the steelwork contractor for steel transportation, unloading and erection, both on the site as well as on surrounding or adjacent access roads. The provision of well prepared level ground that is able to take the requisite wheel loads is essential. BCSA Safe Site Handover Certificate will assist in meeting these requirements, thus reducing the risk of accidents and delays due to poor and unsafe site conditions.

Source : <https://www.steelconstruction.info/Construction>

Events

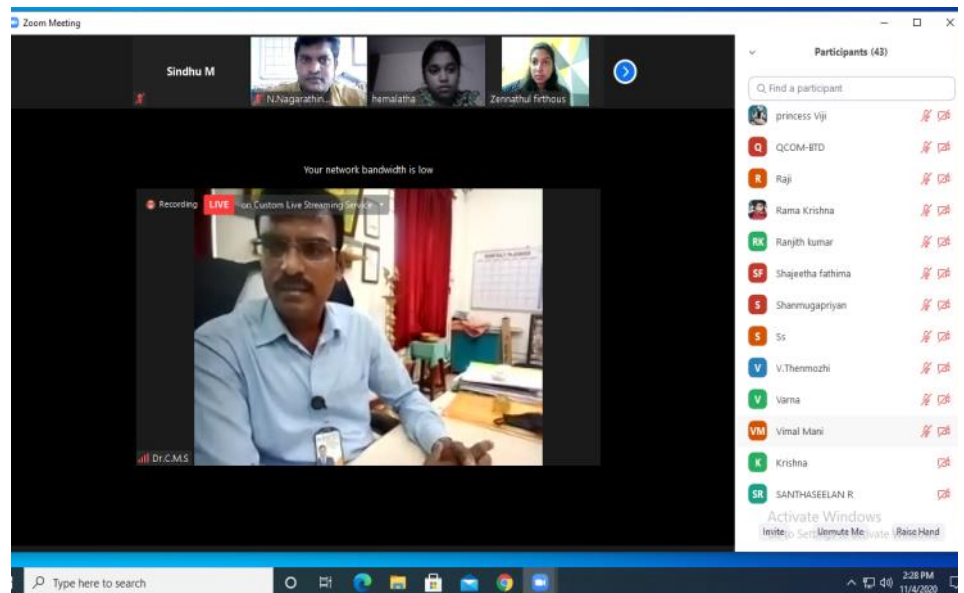
“If you want to fly, give up everything that weighs you down “-Buddha



Practical Training of Soil Test for KMC Associates Site Engineers

Photograph of Civil staffs & KMC participants in practical training (15/10/2020)

Inauguration of EYCA 2020



Snap of EYCA Inauguration (04/11/2020)



Principal Appreciation TNSI selected Students (11/12/2020)

Tamil Nadu Students Innovators 2020

Faculty Achievements



N.NAGARATHINAM

- Completed short term course in "Introduction to Philosophy", University through Coursera on 19th December 2020.
- Attended Webinar On Problem Solving & Ideation organized by NSCET On 30 th December 2020
- Completed short term course in "Learning How To Learn For Youth ", University through Coursera on 17th December 2020.



G.SUGILA DEVI

- Completed short term course in "PSYCHOLOGICAL FIRST AID", by Johns Hopkins University through Coursera on 24 th December 2020.
- Attended Webinar On Problem Solving & Ideation organized by NSCET On 30 th December 2020



K.KIRUBAKARAN

- Completed short term course in "A Life Of Happiness & Fulfillment ", University through Coursera on 03rd December 2020.
- Completed short term course in "Learning How To Learn For Youth ", by Arizona State University through Coursera on 02 nd December 2020.
- Completed short term course in "The Science Of Success What Research Known That You Should Know ", by Arizona State University through Coursera on 27 th December 2020.
- Attended Webinar On Problem Solving & Ideation organized by NSCET On 30 th December 2020



M.SINDHU

- Completed short term course in "Introduction to Philosophy", University through Coursera on 19 th December 2020.
- Completed short term course in "Learning How To Learn For Youth ", University through Coursera on 17th December 2020.
- Attended Webinar On Problem Solving & Ideation organized by NSCET On 30 th December 2020



S.MANIMARAN

- Attended Webinar On Problem Solving & Ideation organized by NSCET On 30 th December 2020



R.SHANMUGAPRIYAN

- Attended Webinar On Problem Solving & Ideation organized by NSCET On 30 th December 2020
- Attended Research Study on Status of Use of Rubrics in Technical Institutions Of India Organized by NITTTR, Bhopal.

Faculty Achievements



N.NAGARATHINAM

- Completed short term course in "PSYCHOLOGICAL FIRST AID", by Johns Hopkins University through Coursera on 20th November 2020.



G.SUGILA DEVI

- Attended Webinar on "Geopolymer Composites", organized by Kalasalingam Academy of research & Education on 21st November 2020



K.KIRUBAKARAN

- Completed short term course in "PSYCHOLOGICAL FIRST AID", by Johns Hopkins University through Coursera on 15th November 2020.
- Completed short term course in "Mind shift: Break Through Obstacles to Learning and Discover Your Hidden Potential", by McMaster University through Coursera on 14th November 2020.
- Attended Webinar on "Geopolymer Composites", organized by Kalasalingam Academy of research & Education on 21st November 2020.



M.SINDHU

- Completed short term course in "PSYCHOLOGICAL FIRST AID", by Johns Hopkins University through Coursera on 20th November 2020.



S.MANIMARAN

- Attended Webinar on "EARTHQUAKE SAFETY AND PROTECTION", organized by the institution of engineers (India) on 2nd November 2020.
- 2. Attended Webinar on "HIGH PERFORMANCE CONCRETE", organized by the EPICONS CONSULTANTS PVT LTD on 7th November 2020.



S.GAYATHRI

- Attended Webinar on "Geopolymer Composites", organized by Kalasalingam Academy of research & Education on 21st November 2020



R.SHANMUGAPRIYAN

- Attended Webinar on "Geopolymer Composites", organized by Kalasalingam Academy of research & Education on 21st November 2020

Students Achievements



A. POOJAA SHRI

- Completed short term course in “PSYCHOLOGICAL FIRST AID”, by Johns Hopkins University through Coursera on 24 th December 2020.



R. KIRUBAKARAN

- Completed short term course in “PSYCHOLOGICAL FIRST AID”, by Johns Hopkins University through Coursera on 30 th December 2020.



G. PREETHA

- Completed short term course in “PSYCHOLOGICAL FIRST AID”, by Johns Hopkins University through Coursera on 24 th December 2020.



K. RAJESWARI

- Completed short term course in “PSYCHOLOGICAL FIRST AID”, by Johns Hopkins University through Coursera on 24 th December 2020.



D. PRAKASH

- Completed short term course in “PSYCHOLOGICAL FIRST AID”, by Johns Hopkins University through Coursera on 30 th December 2020.
- Completed short term course in “THE ARTS AND SCIENCE OF RELATIONSHIPS: UNDERSTANDING HUMAN NEEDS”, by University Of TORONTO through Coursera on 31st December 2020.

Test Your Brain



எண்ணென்ப ஏனை யெழுத்தென்ப இவ்விரண்டுங்
கண்ணென்ப வாழும் உயிர்க்கு.

nghUs::

வாழும் நல்லவர்க்கு அறிவியலும் கலைஇயலும் சிறந்த கண் என்று அறிந்தவர் கூறுவர்



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