

MESSAGE FROM DIRECTOR - SERVICES



Dear Consortians,

I am happy to address to all Consortians in this Second Issue of CCCL 2.0 Chronicle.

As you are all aware that the Govt of India has allocated 10 Lakh Crores for Infrastructure Development a meagre target from this as our share will poise a rapid growth for our Organisation.

I am pleased to announce that we have Bagged 135 Crores Orders since January 2024 from various prospective clients who are willing to entrust future Construction Orders to us based on our successful performance.

We have also inducted New GET's this year who will be trained in various aspects to become future pillars of our esteemed Organisation.

We are also in the process of approaching all our old clients who shall be pleased on our revival and sure of bagging new orders.

Quality, Safety and nil Rework should be our primary objective in executing our jobs in any terrain.

As you are all aware we are in the initial stages of 2.0 chapter so to make it a bigger success we need to work with dedication and motivation to reach sky high.

Your continued support and dedication would leap us forward.

S. Kaushik Ram

Director - Services

CURRENT EVENTS

GET 2024 Batch - Recruitment and Training

A New Batch of 2024, Graduate Engineering Trainees (GET's) were Recruited and Training provided in all Important Civil Engineering subjects before deputing them to our various Sites and Offices in Aug 2024.



Chairman in a GET Training Session.



MD & Director-Services interacting with the GET's.

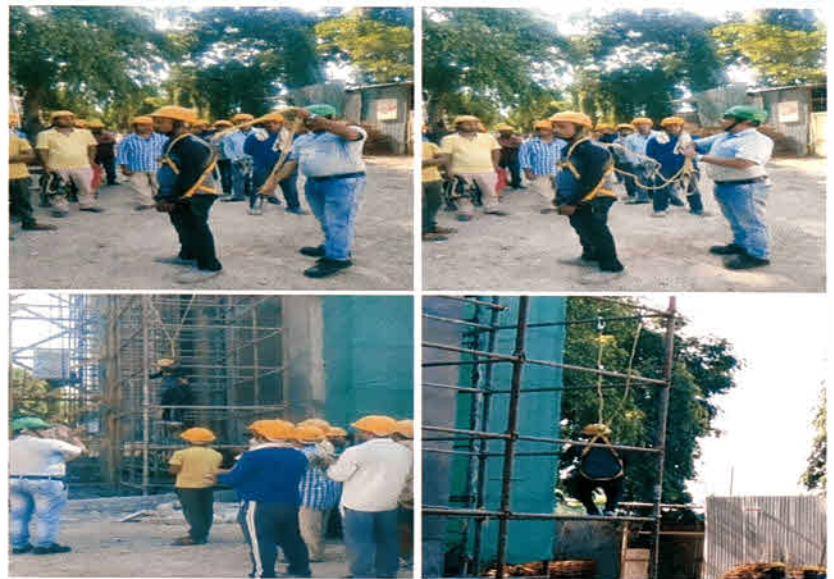
CURRENT EVENTS *contd.*

Safety First

Safety Training and Demo are done at all our sites on a regular basis, reassuring the importance of Working Safely.



HSE Toolbox Talk conducted for workers at Lux Flavours Project, Chennai



"Height Work Safety" Demo Training conducted at XIM Boys Hostel Site, BBSR

Appreciation for Life Saving Act

At our BIM project (Bharathidasan Institute of Management) on 17th Aug 2024, site electrician Deepak Kumar collapsed at site and was lying unconscious on the ground.

At that precise moment, Kalidhass S – Surveyor who was carrying out survey works in the same building rushed to the spot conducted preliminary investigation where he found the victim pulse rate and heart beat was very low and the victim was not breathing so he immediately started to give CPR vigorously for 2 minutes and was able to bring back the victim to a conscious state and send the victim to the hospital for further treatment. Deepak Kumar the electrician has since returned to work.



An Award being presented to Kalidhass S by the Project Head

FROM THE ARCHIVE

From 2002 – 5th year of Operations

Sundaram Architects Pvt Ltd

M/s CCCL have done some interesting works for us. They include large hyperbolic paraboloid shells, large dia Domes, Precast concrete folded plates, precast concrete wall panels, etc for IT buildings, public buildings and industrial structures.

They have demonstrated their capacity to tackle works of complexity. They have completed all the projects within time and good quality. I have found their performance to be good.



R Sundaram
Chairman & Managing Director

NOTABLE ARCHITECTURE IN ASIA

Burj Khalifa, Dubai



The Burj Khalifa, designed by Skidmore, Owings & Merrill (SOM), stands as a testament to modern engineering and architecture, towering at 828 meters as the tallest structure in the world. The design, inspired by the Hymenocallis flower, features a three-lobed foot print that reduces wind forces and enhances structural stability, allowing it to withstand Dubai's challenging environmental conditions.

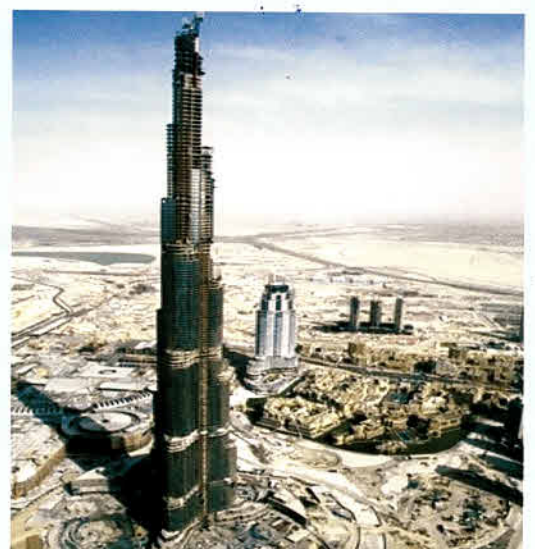
Construction of the Burj Khalifa began in January 2004. Over the next six years, the tower rapidly ascended, with its exterior completed in October 2009. The Burj Khalifa officially opened on January 4, 2010. The tower, standing 320 meters taller than Taiwan's Taipei 101, surpassed it to become the tallest building in the world, a title it still holds.

The tower's core is made of reinforced concrete, with a steel spire extending its height. The use of ultra-strong concrete and advanced steel enabled the tower to reach unprecedented heights, while a meticulously planned construction sequence allowed it to rise quickly and efficiently. The Burj Khalifa incorporates advanced technologies, such as a custom-tuned mass damper to minimize vibrations and a sophisticated curtain wall system that enhances energy efficiency and durability.

The Burj Khalifa has 163 floors above ground, offering a mix of residential, commercial, and leisure spaces. The lower floors are primarily occupied by the Armani Hotel, while the middle floors house luxury residences. The upper floors are dedicated to corporate suites, and the highest floors feature observation decks.

The Burj Khalifa has two observation decks, one on the 124th floor and another on the 148th floor, named "At the Top Sky," which, at the time of its completion, was the highest observation deck in the world. These decks provide panoramic views of Dubai and have become major tourist attractions.

The tower's construction involved global collaboration, symbolizing modern architectural innovation. The Burj Khalifa stands as a beacon of what can be achieved when architectural vision meets construction excellence.



NOTABLE ARCHITECTURE IN INDIA

Rajkumari Ratnavati Girls School, Jaisalmer

Nestled in the arid landscapes of Jaisalmer, the Rajkumari Ratnavati Girls' School stands as a symbol of hope and empowerment for the young girls of the Thar Desert. Designed by Diana Kellogg Architects, this project is more than just a school—it's a catalyst for social change and a testament to the power of architecture in transforming lives.

Local Craftsmanship and Cultural Integration

The building was constructed using traditional stone masonry techniques, employing local artisans who brought their skills and heritage to the project. This not only ensured high-quality craftsmanship but also supported the local economy. The architecture of the school is a celebration of the region's cultural heritage. The building's curved arches and intricate stone work echo the traditional Rajasthani design, symbolizing a harmonious blend of past and present. The low-profile structure, with its oval shape inspired by the surrounding sand dunes, allows the school to seamlessly integrate with the desert landscape.



The building's curved arches and intricate stone work echo the traditional Rajasthani design, symbolizing a harmonious blend of past and present. The low-profile structure, with its oval shape inspired by the surrounding sand dunes, allows the school to seamlessly integrate with the desert landscape.

Adaptation to Climate and Environmental Sustainability

The design incorporates passive cooling techniques that reduce the need for artificial air conditioning, while strategically placed solar panels harness the abundant sunlight to power the school's operations. Constructed from locally sourced sandstone, the thick walls provide excellent insulation, keeping the interiors cool during the blistering summer heat and warm during chilly desert nights. The building also features traditional wind towers, or "jaalis," which enhance natural ventilation by capturing and channelling the desert breeze into the classrooms. Water conservation is another key focus of the project. The school is equipped with rainwater harvesting systems that collect and store water, a critical resource in this arid region.

Form, Function, and Structural Simplicity

The oval shape of the school is not only aesthetically pleasing but also highly functional. It creates a central courtyard that serves as a shaded, ventilated space where students can gather, play, and interact. This design also maximizes the use of natural light, with strategically placed windows and skylights ensuring that the interiors are bright and inviting, reducing reliance on artificial lighting.

Structurally, the building is designed with simplicity and durability in mind. The use of load-bearing walls and a minimal steel frame work reduces construction costs and ensures the building's resilience in the extreme desert environment.



By integrating modern design with cultural relevance and environmental sustainability, the project has created a space that not only educates but also empowers and uplifts an entire community.

LATEST TRENDS IN CIVIL ENGINEERING

BIM (Building Information Modeling)

BIM (Building Information Modeling) is a holistic and collaborative methodology for the management of information for construction projects that has revolutionized the construction industry. Against the typical 2D representational approach, BIM is an intelligent and digital methodology that connects teams and multidisciplinary data in the cloud, allowing the production of real up-to-date representations of all phases of a construction project, from planning and design to the construction phases. Over the last few years, BIM has significantly been improving the efficiency and productivity of companies in the construction industry. Recently, BIM implementation in India has gained popularity in construction, both in public and private sectors, which makes it one of the countries with more opportunities for investors and BIM-qualified professionals.



Bangalore International Airport

Implementation and Use of BIM in India

India has a high population density, and its population is expected to surpass China by 2025. This increases the need for more infrastructure, educational spaces, and social housing. Moreover, as stated by the BIM Academy, according to a 2017-2018 Economic Survey, by 2040, India will require a high investment of around 4.5\$ trillion for developing infrastructure and thereby reach its expected economic growth. Two of the most significant challenges the Indian construction industry faces are time delays and significantly unforeseen costs due to errors during the development of the construction project. Companies and specialists working in construction are aware that the use of BIM methodology is the best option to address these problems. They know that the use of BIM would reduce costs and time delays. In addition, the implementation of BIM would reduce working hours and allow for better supply chain management. Bangalore International Airport used the Autodesk BIM 360 as the design and planning platform for the construction of the project.

The exponential growth of the construction industry in the country will require from the Indian Government an investment and measures for the implementation of BIM in the AEC sector in the near future. To be fair, the Indian Government has already given important steps in implementing and using BIM. The Personal Rapid Transit System in Amritsar, the Bangalore International Airport, Nagpur Metro Rail Corporation, the Delhi Metro Rail, and the renovation of the Central India's Gwalior Railway Station are examples of mega infrastructure projects that have been (or are currently being) developed in the framework of BIM methodology.

WELLNESS CORNER

Benefits of Walking

Walking might not come to mind when you think of a heart-pumping exercise. But it should. Taking a brisk walk or power walking 5 days a week can provide the same benefits as other cardio exercises, from better heart health to better sleep. Plus, it's easy on the joints and accessible to many people.

This simple yet effective physical activity can help you meet your health and fitness goals.

1. Lifts your spirits

The next time you're feeling down, consider stepping out for a walk. Studies indicate that walking reduces the symptoms of depression. And it may help with anxiety and loneliness.

2. Helps you maintain a healthy weight

Walking is an approachable exercise that can help you maintain a healthy weight.

3. Improves heart health

Walking is a great place to start if you want to be more active to boost your heart health. Research suggests that walking improves your heart health by lowering your blood pressure, controlling your blood sugar and reducing your risk of heart disease.

4. Strengthens your immune system

A study found that aerobic exercise may help you fight the common cold. So, walking could reduce your chances of catching a cold or limit the length and severity of cold symptoms if you do get sick.

5. Protects your bones

Weight-bearing activities such as walking keep your bones healthy and strong. They challenge you to work against gravity, which may slow bone loss in people with osteoporosis.

6. Relieves joint pain

Walking is a low-impact exercise that's easy on the joints. It can be a good option for people with conditions that affect their bones, muscles, and joints.

7. Aids digestion

Skip the couch after dinner and go for a walk instead. According to a small study, walking after a meal helps your body break down food and speed up digestion.

8. Improves cognition

Regular exercise, including walking, can boost your brainpower in the short term and long term by improving cognitive function and reducing the risk of age-related cognitive decline. Walking may also decrease cognitive decline in people with Alzheimer's disease.

9. Helps you live longer

Last but certainly not least, with benefits to everything from your heart to your mental health, walking may improve your quality of life and increase longevity.

In a study spanning 10 years, researchers looked at the effects of walking on mortality. They found that older adults who walked for at least 15 minutes a day, 4 days a week, lived longer than those who didn't.

So let us all start Walking and make Walking a daily activity in our routine and reap the above said benefits and live a Healthy and Longer Life.



POSITIVE QUOTES TO REMEMBER

"The future depends on what you do today" – **Mahatma Gandhi**

"Develop success from failures. Discouragement and failure are two of the surest stepping stones to success." - **Dale Carnegie**

"The most important thing in life is to stop saying 'I wish' and start saying 'I will'. Consider nothing impossible then treat possibilities as probabilities." - **Charles Dickens**

"All our dreams can come true if we have the courage to pursue them." - **Walt Disney**

"It is often the small steps, not the giant leaps, that bring about the most lasting change."
- **Queen Elizabeth II**

"Optimism is the faith that leads to achievement. Nothing can be done without hope and confidence."
- **Helen Keller**

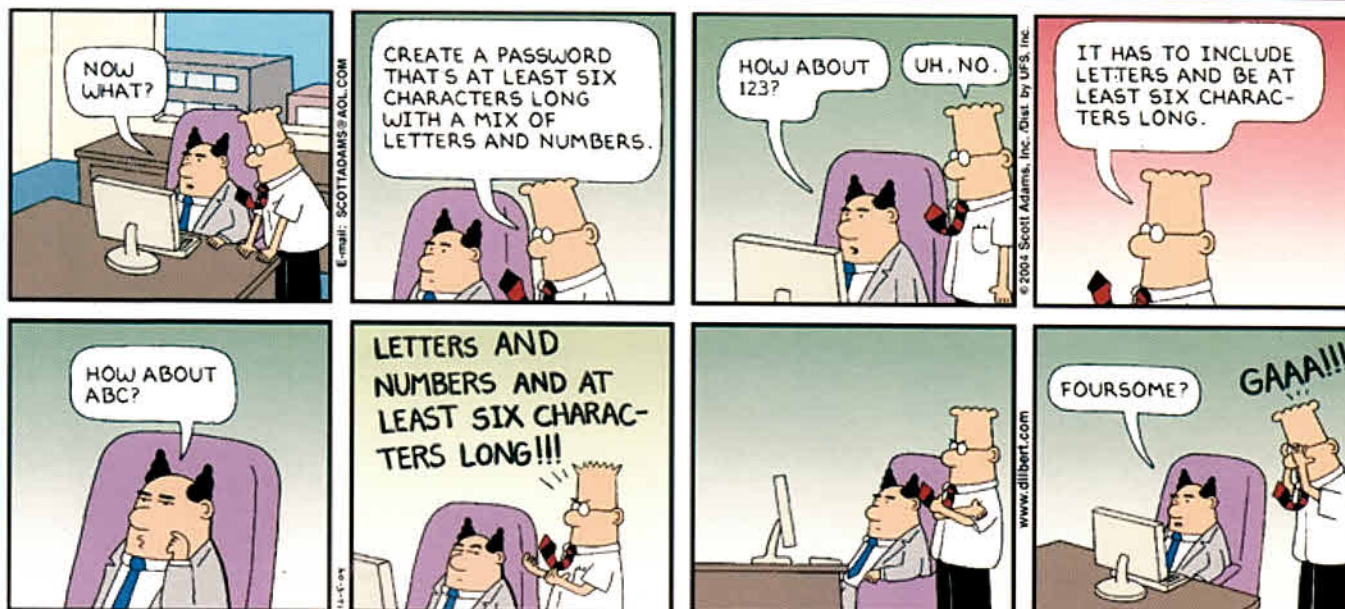
"Anyone who has never made a mistake has never tried anything new." - **Albert Einstein**

"Believe you can and you're halfway there." - **Theodore Roosevelt**

"Success is stumbling from failure to failure with no loss of enthusiasm." - **Winston Churchill**

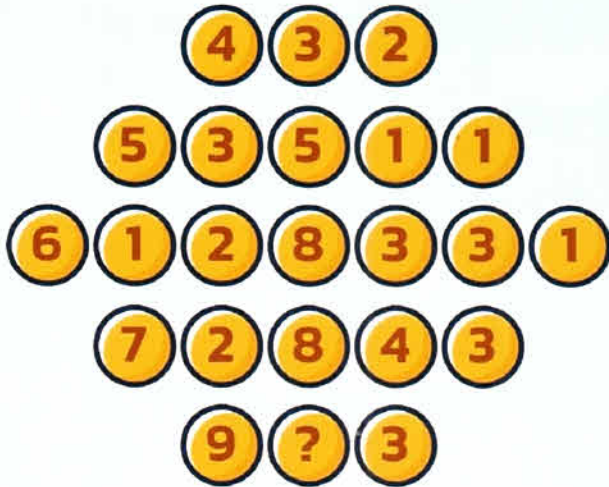
"When you have exhausted all possibilities, remember this – you haven't." - **Thomas Edison**

HUMOUR CORNER





Q. What is the Missing Number in the Circle below ?



You can send your entries to sraj@ccclindia.com mentioning your name and Employee code on or before 31st October 2024. In case more than one correct entries are received the lucky winner will be decided by a draw.

Solution to the Puzzle Published in CCCL 2.0 Chronicle 11th July 2024 Issue.

Answer : O

A + 5 letters = F

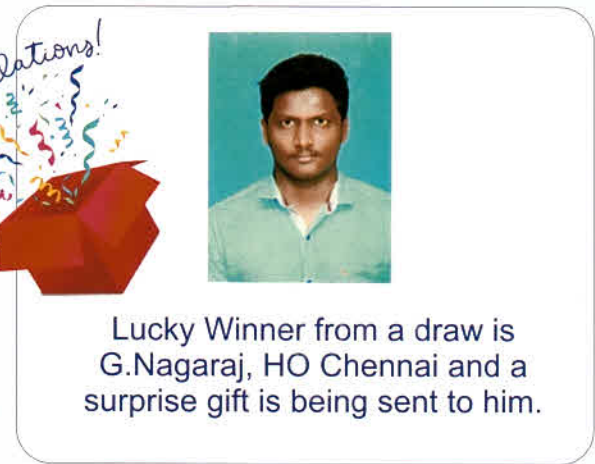
Z - 5 letters = U

G + 5 letters = L

T - 5 letters = O

The following have mailed the correct answers :

- 1. G.Nagaraj - HO,Chennai
- 2. B.Ranjith kumar - Vadapalani Office,Chennai
- 3.S.R.Kanna - Vadapalani Office,Chennai
- 4.A.Sivasankaran - Vadapalani Office,Chennai
- 5.M.Ashok Rajan - Vadapalani Office,Chennai
- 6.U.Bharath - CCCL Infra,Chennai
- 7.K.Sriram - Yuga Homes Ltd,Chennai
- 8.Dinesh Allam - XIM University,BBSR



Lucky Winner from a draw is G.Nagaraj, HO Chennai and a surprise gift is being sent to him.

- 9.V.Thirumurugan - XIM University,BBSR
- 10.S.Vinoth - XIM University,BBSR
- 11.D.Jayaprakash - XIM University,BBSR
- 12.G.Mariappan - Loyola School,BBSR
- 13.M.Rajasekar - Lux Flavours,Chennai
- 14.S.Kalidhass - BIM,Trichy
- 15.C.Murugaiah - Aqua Vista,Bangalore
- 16.R.Jayakumar - Aqua Vista,Bangalore
- 17.P.Vasanthakumar - Srinivas University, Mangalore

Congratulations to all the WINNERS !!!



Editor & Publisher : S. Rajkumar
 Consolidated Construction Consortium Ltd
 Corporate Office: # 8/33, Padmavathiyar Road
 Jeypore Colony, Gopalapuram
 Chennai - 600 086.
 Ph : 044-2345 4500
 Website : www.ccclindia.com