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Dear All SPACEans,

Warm Greetings to the family of SPACE !

The 2nd Quarter of the current financial year is satisfying for us with good progress in all the initiatives that the company has embarked including Yoga, HR and Technical trainings. During this period, our company has bagged a new Brownfield project from M/S SIRI SAMPADA for the Galleria Mall project in Hitech city. It is a matter of immense satisfaction that the company sponsored PMP certification has resulted in three of our Project Managers obtaining the highly coveted PMP certification. Keeping in view of the company's commitment to grow the present employees into future leaders, we have introduced a dedicated training program on "Communication Skills" in August 2025 with four online classes per week which is progressing well .

While the year 2025 was dedicated to "**LEARNING**", we all are set to celebrate the year 2026 as the year of "**GIVING**" thereby demonstrating the human face of SPACE and cultivating each member of SPACE family to the joy and bliss in giving and sharing. As we often experience, we get "PLEASURE" when we get something and whereas we receive "HAPPINESS" while giving something which is a far superior mental and emotional state. This has immense spiritual significance as it is believed that SERVICE is the core DHARMA for a human being.

SPACE is committed to continue these initiatives with an endeavour to inculcate a sense of "Integrity of Purpose" at the core of its culture. This means steadfastly and honestly adhering to your goals, mission, or core values, even when faced with difficulties or when it's easier to compromise. It is also a state where one's actions, beliefs, and intentions are consistent, genuine, and focused on a clear "why" leading to trust, alignment, and a more fulfilling life or effective leadership.

We are immensely confident of everyone's wholehearted commitment and support as always!

In Love, Light and Laughter.

COMPANY UPDATES



We are pleased to announce that our company has secured a new Brownfield project from M/S SIRI SAMPADA for the E-Galleria Mall development in Hitech City. A conversion project to state of the art high end office space.



PROMOTIONS



Mr. Gunadeep Peddireddy,
Senior Project Engineer.
A2A Homelands,
Hyderabad.

Joined SPACE as Project Engineer and is promoted to the post of Senior Project Engineer.



Mr. Mohammad Dilshad,
Project Engineer.
A2A Homelands,
Hyderabad.

Joined SPACE as Junior Engineer and is promoted to the post of Project Engineer.

CERTIFICATIONS



In alignment with its commitment to continuous growth and professional excellence, SPACE proudly sponsored its managers for the prestigious PMP Certification. We are delighted to announce that our managers have successfully earned their certifications, marking a significant milestone in their leadership journey.

Congratulations to Mr. Ajay A.S, Mr. Shyam Sandeep Kumar, and Mr. C. Kumar Siva Sankar — your success inspires us all and sets a powerful example for lifelong learning.

ENGINEER'S DAY

In today's world, when we talk about engineers, the conversation often revolves around software engineers. While their contribution is significant, we must not forget the foundational pillars of our country's development — Civil engineers, Mechanical engineers, and Electrical engineers — the unsung heroes behind our infrastructure.

We celebrate Engineer's Day in memory of Sir Mokshagundam Visvesvaraya, one of the greatest civil engineer our country has ever seen. His legacy reminds us of the vital role we play in shaping the nation — not just in terms of buildings, but in the very framework of progress: roads, bridges, irrigation systems, sewage lines, water supply, housing, and industrial structures.

Take the iconic ICICI building in Hyderabad, for example. People admire its architecture, but rarely recognize the hands behind it — the civil engineers who designed it, and the teams who executed it with precision.

Even today, the basic needs of any citizen — clean water, safe housing, efficient roads, Power Supply are met by the dedication and innovation of civil, mechanical, and electrical engineers. We are not just constructing buildings; we are building futures, communities, and a nation.

I am proud to be a civil engineer, currently working at SPACE Konstryst Private Limited. For me, civil engineering is not just a profession, it is like my mother. It has shaped who I am, and I am committed to giving back to this field with the same love and respect.

Many of my peers may have transitioned into software fields, and that is their journey — but I have chosen to stay true to my roots. This Engineer's Day, I celebrated with pride and joy, along with my wonderful team. It was a moment to reflect, appreciate, and be thankful.

Thank you, Sir M. Visvesvaraya, for giving us the identity and inspiration to dream, design, and deliver.

Proud to be a Civil Engineer.

Proud to build the nation.

Dongala Bhanu Prakash Reddy
Project Engineer, My Home Sayuk

Vishwakarma Pooja Observance at sites

On Vishwakarma Jayanti, My Home team held a special Vishwakarma Pooja to pay tribute to Lord Vishwakarma, revered as the divine architect and craftsman. The entire team participated in the event with sincerity and commitment.

The ceremony commenced with customary rituals, invoking blessings for the safety of all personnel, seamless advancement of current projects, and the durability of machinery and tools. Offerings and prayers acknowledged Lord Vishwakarma's significance as the patron deity of engineering, construction, architecture, and skilled trades.



The observance emphasizes:

Respect for tools and equipment: Workers venerate their instruments and machinery, recognising their vital role in daily operations.

- **Safety and prosperity:** Prayers are offered for safe work environments and successful completion of initiatives.
- **Unity and gratitude:** The event encourages teamwork and mutual respect among all staff members.
- **Cultural heritage:** It reinforces the link between modern workplaces and longstanding traditions, underscoring the enduring inspiration behind creativity and craftsmanship.

Celebrating Vishwakarma Pooja served both as a religious ritual and a thoughtful affirmation of the values of safety, professional integrity, and collective development. With Lord Vishwakarma's blessings, we anticipate ongoing success and the continued well-being of all those involved in our endeavors.

Madgi Amarnath

Sr. Project Engineer, My Home Akrida

The Transformative Power of Yoga



Shri. Ramaiah Vemula,
Technical Director,
Pradeep Constructions

Yoga: A Universal Remedy

Yoga is often referred to as "Sarva Roga Nivarini," meaning it is capable of alleviating all ailments. Its benefits are universal and applicable to individuals of all age groups, addressing a wide range of health-related issues.

Accessibility and Convenience

One of the remarkable aspects of yoga is its accessibility. It requires only one hour of practice in the morning and does not necessitate going out or walking. All that is needed is an open area to sit and perform the exercises, making it a convenient addition to any daily routine.

Personal Experience: Endurance and Vitality

At the age of 45, I visited the regional office on RP Road in Secunderabad and was surprised to find myself breathless after climbing just 3 flights of stairs. It was a wake-up call—especially at what I considered a relatively young age. Around that time, my organization hosted a general yoga training session. I joined out of curiosity, but the experience resonated deeply with me and I decided to make yoga a daily habit.

Now, at 77, after dedicating one hour every day to yoga for over three decades, I can climb 10 floors effortlessly. The transformation has been remarkable—and it all began with that one moment of fatigue.



Big Shout-Out to Our Yoga VEERAS!

A heartfelt salute to the dedicated yoga veeras who showed unwavering commitment throughout last month.

Mahankali Harish from *My Home Akrida* and **G. Mallikarjuna** from *My Home Apas* attended all **25 classes** — an incredible feat of consistency and discipline & **Bolaveni Srinivas** from *My Home Akrida* wasn't far behind, showing up for **24 sessions** with equal passion and perseverance.

Your dedication is truly inspiring and sets a powerful example for our entire yoga community. Keep shining and stretching!

My first Trekking Experience at Kodachadri peak

Recently, I had the chance to trek the Kodachadri Peak, one of the most beautiful and adventurous trails in Karnataka. Since this was my first trekking experience, everything felt new and exciting. The journey was filled with greenery, waterfalls, and breathtaking views at every step. The path was challenging at times, with steep climbs and rocky trails, but that only made reaching the top even more rewarding. One of the most refreshing parts of the trek was visiting Hidlumane Waterfalls. The sound of rushing water, the cool breeze, and the greenery around made it one of the most refreshing parts of the journey.

Trekking is useful in many ways. It keeps the body fit, improves stamina, and refreshes the mind. It also helps reduce stress, builds confidence, and teaches teamwork when done in groups. Most importantly, it connects us with nature, which we often miss in our busy lives.

The highlight of the trek was the view from the peak—misty clouds surrounding the mountains and endless valleys stretching into the horizon. It felt like standing above the clouds, with nature showing its grand beauty.

I also visited the famous **MOKAMBIKE DEVI** temple, which added a spiritual touch to the experience. The calm and peaceful atmosphere of the temple made the trek even more memorable.



Kodachadri Peak

After reaching Kodachadri village at the end of the trek, we all gathered together and played some games, and enjoyed a bonfire, which made the evening more enjoyable. That is how the first day came to an end.

On the second day, on the way back, we visited, Deveganga Pond, which is a sacred waterbody near Kodachadri, surrounded by lush greenery.



Hidlumane Waterfalls.

One more thing that made this trip special was that I went with a group of strangers. Trekking with new people not only helped me open up and make new friends but also made the journey more fun and encouraging.

After the trek, we also went on an off-road jeep ride in the valley. It was full of adventure and added even more excitement to the trip.



Deveganga Pond

The water is calm and clear, giving the place a peaceful and refreshing atmosphere. Many people believe the pond has spiritual significance, and the quiet environment makes it a perfect spot to relax and feel close to nature.

Nagara Fort

Nagara Fort is an ancient fort located near Kodachadri, known for its historical importance and stunning views. The fort, built during the Keladi dynasty, still has remnants of stone walls, watchtowers, and gateways that take you back in time. Surrounded by hills and greenery, it's not only a great place for history lovers but also for anyone who enjoys scenic beauty. Walking around the fort and learning about its past made the visit both exciting and meaningful.

Kuvempu's House

We also visited the ancestral house of Kuppali Venkatappa Puttappa, affectionately known as Kuvempu, the legendary Kannada writer and poet. The house has been preserved to reflect his life and work, and walking through it gave us a glimpse into his simple lifestyle and creative world. It was inspiring to see the place where such a great literary figure lived and wrote, and it added a cultural touch to our trip.



Nagara Fort



Kuvempu House



Trekking Team

Conclusion

The Kodachadri trip taught me that adventures like these are important not only for physical health but also for peace of mind.

We at PMC, spend our weekdays dealing with Excel and weekends with Surf Excel—but life shouldn't be just about that. From this trip, I learned that taking a break in nature helps us slow down, stay healthy, and value simple joys. Whether you are single or married, busy with work or family, it's important to step away from routine. Do connect with nature at least twice or thrice a year; it truly makes a difference.

Annavarapu Akaash,
Graduate Engineer Trainee, Taj GVK

Memorable Journey to Srisailam

I had the wonderful opportunity to visit Srisailam, a destination known for its natural beauty and rich history. Our adventure began with a drive through the dense Nallamalla forest. The fresh air, winding ghats, and lush greenery transformed the journey itself into a delightful experience, with every turn revealing more of the forest's enchanting landscape.

One of the most exciting highlights of our trip was the visit to the Srisailam Dam. When we arrived, ten gates were open, allowing the mighty Krishna River to surge through with a thunderous roar that was truly awe-inspiring. I was fortunate to have the chance to enter the dam, where the overwhelming sound of the gushing water created a thrilling memory that will remain with me.

We took a break for breakfast at a small hotel named HOTEL JOSHI in Srisailam, where we relished freshly made appam. During our meal, the hotel owner shared his personal story—he had come to Srisailam decades ago to work on the dam's construction and chose to settle there permanently. Listening to his experiences gave us a deeper connection to the history and legacy of this remarkable project.



Another memorable part of our journey was the ropeway ride to Patala Ganga. This aerial journey provided us with stunning views of the surrounding hills and valleys, as well as a spectacular perspective of the Krishna River flowing below. The ride was both exhilarating and tranquil, offering a unique way to appreciate the scenic splendour of Srisailam.

After the ropeway ride, we visited several iconic spots in Srisailam, including Patala Ganga, Paladhara, and Panche Dara.



These sites, known for their beautiful waterfalls and the serene natural environment surrounding them, allowed us to experience the peaceful and picturesque side of Srisailam.

As evening approached, we began our return journey, carrying with us the memories of a peaceful and adventurous trip.

For anyone planning a one-day getaway, I highly recommend Srisailam. The place offers an ideal blend of nature, history, spirituality, and adventure, making it a perfect destination for travellers seeking a memorable experience.

Chandrala Kumar Siva Sankar
Project Manager, My Home Apas

Reflections at a Traffic Signal

Exhausted from the day's work at the office, I was returning home on a Rapido bike. As we stopped at a signal, I noticed a group of college students—some perched casually on their bikes, others standing nearby. The evening air was filled with laughter as the students clapped their fists, their voices echoing above the hum of engines and the occasional honking horn. The vibrant energy at the signal pulled me into a wave of nostalgia, reminding me of my own carefree college days.

As the signal turned green and our journey resumed, I couldn't help but smile, feeling rejuvenated by the fleeting glimpse of youthful exuberance. The gentle rhythm of the journey home allowed my thoughts to wander, and as the city unfolded around me, I realised how the smallest encounters—like a burst of laughter at a traffic signal—could breathe new life into routine days. It is in these unexpected pauses that we reconnect with our past and draw strength to move forward, much like how every milestone, whether in a fleeting moment or two decades of achievement, deserves to be celebrated. With the hum of the city as my companion, I embraced the gratitude that comes from recognising both the challenges and the joys, knowing that each step, each memory, and each cheerful toast adds depth to our shared story of perseverance and success.

Smitha Kasthuri, HR Manager

Celebrating the Spirit of Festivals

India is a land where every season is marked by celebration. From Diwali and Holi to Eid, Onam, Christmas, Baisakhi, and Pongal, each festival reflects the country's rich cultural and religious diversity. These occasions are not only moments of joy and tradition but also opportunities to strengthen bonds of unity and togetherness.

At SPACE India, we believe festivals remind us of the values that guide our work—teamwork, respect, and harmony. Just as we come together to deliver projects with dedication and collaboration, we also celebrate these occasions as one community, embracing the diversity that defines us.

As we move through the festive season, may the spirit of these celebrations inspire us to create, connect, and grow together.

Onam – A Festival that Blooms in Memory

Onam always takes me back to the simple joys of childhood. I remember the excitement of gathering early in the morning to collect flowers for the pookalam. My little hands would scatter petals in uneven circles, while elders patiently shaped them into beautiful designs. As the pookalam grew brighter each day, so did our anticipation.

The most awaited moment was when Maveli would be placed at the center of the pookalam.



To us children, it felt as if the legendary king himself had arrived, blessing our home with joy and prosperity. And when the chorus of “Poovili- poovoveee poli poovove!” rang out, the whole neighborhood seemed to come alive, voices blending into a celebration of unity and cheer.

Of course, no memory of Onam is complete without the grand Sadhya. Sitting cross-legged with cousins and friends, counting each dish on the banana leaf, and finishing off with sweet payasam—it was a feast that fed not just the stomach, but the soul.

Even today, whenever I see a pookalam or hear a faint Poovili, I am reminded that Onam is not just a festival. It is a feeling—a celebration of abundance, togetherness, and the timeless hope that King Mahabali's spirit of equality and happiness lives on in all of us.

Smitha, HR Manager

Eid Milad-un-Nabi in Hyderabad – Faith, Festivities, and Flavors

The city of Hyderabad, with its deep-rooted heritage, comes alive every year during Eid Milad-un-Nabi (12th Rabi' al-Awwal) — the blessed day marking the birth of the Holy Prophet Muhammad (Peace Be Upon Him) which was celebrated this year on 05th September 2025. Known for its grand processions, illuminated streets, and vibrant cultural traditions, Hyderabad celebrates the occasion with unmatched devotion and a unique culinary richness.

City Illuminated with Devotion

From the old quarters of Charminar and Mecca Masjid to bustling neighborhoods across the city, homes, mosques, and streets are beautifully decorated with fairy lights, green flags, and banners praising the Prophet (PBUH). Special gatherings, called Mehfil-e-Milad, are held where scholars and community leaders narrate the life and teachings of the Prophet. The air fills with the expressions of gratitude, creating an atmosphere of reverence and celebration. Processions weave through the streets, reflecting unity, devotion, and pride in the city's heritage.

The Culinary Traditions of Eid Milad in Hyderabad

Hyderabad's celebrations are incomplete without its legendary cuisine. On this occasion, families and community kitchens prepare traditional dishes and distribute them generously as an act of devotion and charity. The highlight of Eid Milad-un-Nabi is undoubtedly:

Kheer Puri – The most famous and beloved dish of the festival. Sweet, creamy rice kheer flavored with cardamom and garnished with dry fruits is paired with crisp, golden puris. It is offered in large quantities to guests, neighbors, and the underprivileged, making it a symbol of sharing and community bonding.

Other festive dishes that grace the Hyderabadi table include:

Haleem – Rich, slow-cooked stew of meat, wheat, and lentils.

Biryani – The city's signature dish, layered with fragrant rice and spiced meat.

Sheer Khurma – A milk-based vermicelli dessert with dates and nuts.

Double ka Meetha – Hyderabadi bread pudding flavored with saffron and cardamom.

Food, in Hyderabad's tradition, is not just about taste but about sharing — embodying the Prophet's values of compassion, hospitality, and care for others.

Spirit of Brotherhood

One of the most beautiful aspects of Eid Milad-un-Nabi in Hyderabad is the spirit of togetherness. Communities open their homes to guests, distribute food to the needy, and participate in collective prayers for peace and harmony. The celebration is both spiritual and cultural, reminding everyone of the Prophet's timeless message of mercy and unity.

In Hyderabad, Eid Milad-un-Nabi is not just celebrated — it is experienced, savored, and cherished, with the aroma of Kheer Puri and the warmth of devotion filling hearts across the city.

Ahmad Abbad Quadri

Manager Services, My Home Akrida



Bathukamma



Every year, when Bathukamma arrives, it feels like the earth itself is celebrating with us. The sight of colorful flowers stacked in beautiful layers, the sound of folk songs echoing through the evening, and the warmth of women coming together—it all feels like home.

For me, Bathukamma has always been a festival of connection. I remember sitting with my mother and grandmother, hands busy plucking flowers, carefully arranging them into patterns. Each flower carried its own fragrance, its own charm, yet together they created something far more beautiful—just like our families and communities.

The evenings were the best part. All of us gathering in circles, singing and clapping, watching our Bathukammas glow in the twilight. There was laughter, playful teasing, and a sense of togetherness that words can hardly capture. And finally, when the Bathukamma was set afloat in water, it felt like we were offering not just flowers, but our gratitude to nature and life itself.

Today, even though life often rushes ahead with work and responsibilities, Bathukamma still reminds me to pause, to celebrate small joys, and to stay rooted in traditions that bring us closer to each other. It is not just about flowers—it is about family, community, and the simple beauty of living.

M.Praneetha,

Executive Assistant.

MY JOURNEY AT SPACE

As a civil engineer, I've always believed that strong foundations are key to lasting success. In the past three years at SPACE, I've witnessed first hand how this principle goes beyond just concrete and steel — it also applies to people and culture.

From the day I joined, the company has constantly evolved — not just in terms of technology or project scale, but also in the way it values and supports its employees. Today, I'd like to share a few ways our workplace is becoming not only more productive, but also more human.

1. A Healthier Start to the Day: Morning Yoga Sessions

One of the most refreshing changes I've seen is the introduction of daily morning yoga classes. It's not something you usually expect from a civil engineering firm, but it shows how much our management values the physical and mental well-being of its people. Yoga helps us clear our minds before a busy day, improves our posture (important for those of us who spend long hours at desks or on-site), and brings a calm, focused energy into the workplace. For many employees, it has become a routine that improves both health and work-life balance.

2. Deeper Inner Peace: Meditation Classes

In addition to yoga, SPACE has introduced guided meditation sessions led by spiritual practitioners — known for their deep wisdom and calming presence. These sessions offer a rare opportunity to pause, reflect, and connect with a deeper sense of purpose in the middle of our busy work lives. Meditation, especially when guided by such experienced mentors, has helped many of us manage stress, improve focus, and cultivate mindfulness. It's a powerful reminder that inner clarity can lead to better decision-making, stronger collaboration, and more meaningful work.

3. Investing in Communication: English Language Classes

Another impressive initiative has been the launch of English communication classes for all employees. As engineers and professionals, we often need to communicate clearly with clients, consultants, and colleagues — sometimes across languages and cultures. These classes are helping us build more confidence, not just in our speaking skills, but also in presentations, meetings, and written communication. It's a thoughtful move by management that shows they are investing in our personal and professional growth.

4. A Culture of Continuous Improvement

What stands out most to me is the company's commitment to continuous improvement. Whether it's adopting the latest construction technology, training programs, or well-being initiatives, the mindset here is never stagnant. The goal is clear: to grow together — as a company and as individuals.

Proud to Be Part of this Journey

As someone who's been part of this journey for three years, I feel proud to contribute to a company that is not only building structures but also building a supportive and forward-thinking workplace culture. The changes I've witnessed are proof that when a company invests in its people, the results reflect in every project we take on.

M.V. Swamynaidu,
Sr. Project Engineer, My Home Akrida

THREE RIVER DRAGON HAS COME !

“The ‘Three River Dragon has come’ – this phrase perfectly describes the Three Gorges Dam, the world’s largest hydroelectric power project built on the mighty Yangtze River in China. Often hailed as a marvel of modern engineering, it stands as both a source of national pride and a subject of global debate. The dam stands as a symbol of China’s technological and economic ambitions while also highlighting the complex relationship between human development and the natural environment.



The idea of constructing a dam on the Yangtze River was first proposed in the early 20th century, but it was only in 1994 that the project officially began. Construction took place in multiple phases, involving the diversion of the river, building of cofferdams, and eventually erecting the main dam structure. The project was completed in 2012 after nearly two decades of work. The dam itself stretches over 2.3 kilometers in length and rises 185 meters in height. It required more than 27 million cubic meters of concrete and almost half a million tonnes of steel. The completed project houses 32 main turbines, giving it a power-generating capacity of 22,500 megawatts. To support transportation, the dam also incorporates five-stage ship locks and a vertical ship lift, enabling large vessels to navigate inland China with greater ease

The primary purpose of the Three Gorges Dam is hydropower generation, providing renewable energy that reduces reliance on coal and lowers greenhouse gas emissions. At full capacity, the dam produces enough electricity to supply millions of households, significantly supporting China’s growing industrial and urban needs. Another major benefit is flood control, The Yangtze river, historically prone to devastating floods, is now managed by the massive reservoir, protecting downstream communities and farmland. Furthermore, the dam has enhanced navigation along the Yangtze by allowing ships to bypass previously dangerous stretches of the river, boosting trade and regional economic growth. Despite its achievements, the project has serious drawbacks. More than 1.3 million people were displaced, making it one of the largest forced relocations in he history. Entire towns and



villages were submerged, and countless cultural and archaeological sites were lost forever. Environmentally, the dam has altered ecosystems, threatening endangered species such as the Chinese sturgeon and the now-extinct Yangtze river dolphin. Sedimentation has become another concern, as silt trapped behind the dam reduces reservoir capacity and starves downstream farmland of natural nutrients. Additionally, the immense weight of the water stored in the reservoir has been linked to increased seismic activity and landslides, raising questions about long-term geological stability.

Effect on Earth's Rotation

One of the most fascinating and less-discussed effects of the Three Gorges Dam is its impact on the Earth itself. By creating a reservoir that holds approximately 39.3 cubic kilometers of water, the dam redistributed a massive amount of mass across the planet's surface. Scientists have calculated that this shift in water weight has slightly altered the Earth's moment of inertia, effectively causing the planet's rotation to slow down by a fraction of a second. In measurable terms, it is estimated that the Earth's day lengthened by about 0.06 microseconds due to the dam. While this effect is imperceptible in daily life, it illustrates the incredible scale of human engineering and its ability to influence planetary systems.

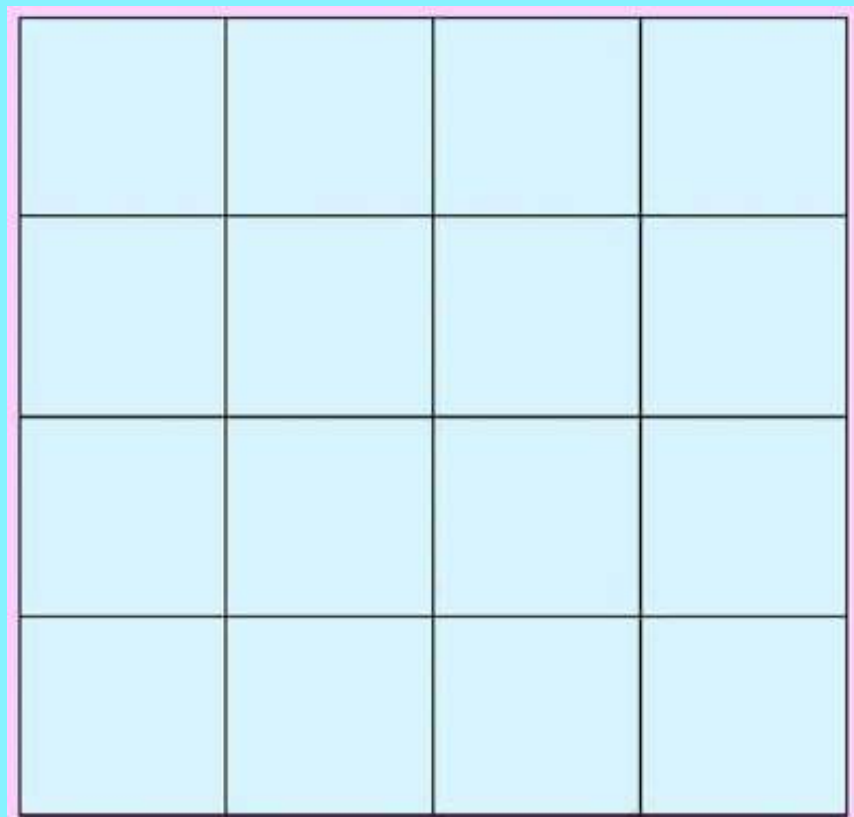
Nomula Ganesh

Graduate Engineer Trainee, Songs of the Sun



SOLVE THIS :

How many squares are
there in this grid





NEW BEGINNINGS



Marriage marks the beginning of a beautiful journey filled with love, laughter, and shared dreams. As *Nagaraju Yendrapu, Udayagiri Prasanth* and *Vishnuvardan Reddy* along with their spouses, embark on this exciting new chapter, we extend our heartfelt congratulations and best wishes.

May their lives together be filled with joy, harmony, and countless unforgettable moments. Here's to a future as radiant as their wedding day!





Blessings of New Arrivals



We're overjoyed to announce that our team members have welcomed a precious new member into their family!

Parenthood is a journey filled with wonder, love, and unforgettable firsts—and we couldn't be happier for them.

As they step into this beautiful new role, we wish them endless cuddles, sweet giggles, and cherished memories. May their days be filled with warmth, discovery, and the kind of love that only a child can bring.

Congratulations on this incredible new chapter—your adventure has just begun!

Ganjamalla Amarnath blessed with baby boy

Rajaram Naveen blessed with baby boy

M.V Swamynaidu blessed with baby girl

Mohd. Firoz blessed with baby girl

Dornala Praveen blessed with baby girl

Riyaz Shaik blessed with baby girl



The journey to fatherhood: A New beginning



I'll never forget the moment I found out I was going to be a father. It was an ordinary Saturday until everything changed with a single word: pregnant. Time appeared to simultaneously compress and extend in that moment. I was filled with joy, fear, disbelief, and something new — a deep, quiet sense of purpose that I had never known before.

This was the beginning of a journey I couldn't prepare for with books or Google searches. A journey not just toward fatherhood, but toward a new version of myself. One who would soon be someone's protector, teacher, and safe place. Like all significant journeys, it started not with confidence, but with uncertainty and a heart full of hope. But no amount of preparation can truly capture the intensity of witnessing birth. It's raw, powerful, and humbling. In the waiting room, time bends — there's fear, excitement, and then, suddenly, a cry that rewires your entire being. The moment the child enters the world lives in our heart forever.

His tiny feet, hands and like everything are tiny. Just by looking at his cute smile I wanted to embrace him in my arms forever but I was a little anxious to do so. However, with family members support I carried him for few seconds. Next comes the sleepless nights, irregular feeding schedules and diaper change. It's been a few weeks since the baby arrived, and life's completely flipped. Days and nights blur together. I am running on naps instead of full length sleep, where everything revolves around our tiny human who somehow holds the entire house in the palm of his hand. I'm learning that this phase is heavy but beautiful. I want to be there all the time. I'm still figuring it out. But one



thing I know for sure is that nothing compares to walking back in the door, seeing that little face, and knowing this is where I'm meant to be right now.

Finally, fatherhood is not a destination but a lifelong journey which is filled with lessons, laughter, challenges and growth.

A big shout-out and huge respect to all the parents out there raising their children.

Enuganti Shanthan Goud

Sr. Project Engineer, My Home Apas

Understanding Artificial Intelligence:

Artificial intelligence (AI) is a multidisciplinary field dedicated to creating systems capable of performing tasks that typically require human intelligence. These tasks encompass perception, reasoning, learning, and natural language processing. AI involves both the scientific pursuit of understanding intelligent behaviour and the engineering objective of developing intelligent agents and practical applications. Major domains within AI include machine learning, robotics, and the consideration of ethical issues arising from its significant societal impact.

Core Concepts of Artificial Intelligence

- **Intelligent Behaviour:** The primary aim of AI is to automate tasks that are currently performed by humans, by modelling behaviours such as perception, reasoning, learning, and acting upon the environment.
- **Multidisciplinary Nature:** AI draws upon a range of disciplines to facilitate the understanding and construction of intelligent systems.
- **Engineering Goals:** The field seeks to develop intelligent agents, formalise knowledge, and enable machines to learn and adapt over time.

Key Applications of AI

- **Perception:** AI systems create models of the external world using sensory inputs such as vision and audio.
- **Manipulation:** AI enables physical devices, for instance mechanical arms, to interact with and manipulate the physical environment.
- **Reasoning:** Advanced AI systems can execute higher-level cognitive functions including planning and diagnosing problems.
- **Learning:** Through methods like machine learning and deep learning, AI systems are able to enhance their performance based on accumulated experience.
- **Communication:** AI incorporates the capacity to understand and generate human language, facilitating effective interaction between humans and machines.

Impact and Future of Artificial Intelligence

- **Societal Transformation:** AI is a pivotal force in the twenty-first century, driving changes across industries, communication, and our broader understanding of humanity.
- **Ethical Considerations:** Owing to its vast potential, AI requires the formulation of new bioethical principles to ensure its responsible use and maximise societal benefit.
- **Ongoing Evolution:** The field of AI continues to evolve rapidly, particularly in machine learning and neural networks, with ongoing research expanding possibilities across diverse domains.

As artificial intelligence continues to progress, it is increasingly integrated into daily life, influencing sectors such as healthcare, finance, education, and transportation. These advancements not only enhance productivity and efficiency but also raise important questions about privacy, security, and the potential for bias in automated decision-making. Consequently, collaboration between technologists, policymakers, and ethicists is essential to establish frameworks that balance innovation with public trust. As research explores novel AI architectures and interdisciplinary approaches, the promise of AI to address complex global challenges grows, underscoring the need for continuous learning and adaptability in both individuals and institutions to harness AI's benefits responsibly and equitably.

A Childhood Lesson in Contentment

During my childhood, I witnessed an interesting trend among my friends. One day, my friend's grandfather purchased a bicycle, and soon after, several other friends' grandfathers did the same for them. This new acquisition brought them immense joy, and they would often ride their bicycles together to the cricket ground, their laughter echoing through the neighborhood as they pedaled side by side. Watching them, I naturally wished for a bicycle of my own.

Unable to contain my desire, I approached my grandfather and asked if he could buy me a bicycle as well. He listened patiently and then offered me some advice that I did not fully understand at the time. He said, "Look Siva, learn to manage with what you already have. If you do that, you'll be happy in the future."

At first, his words left me feeling disappointed, as I believed a bicycle was essential to join my friends. Instead of dwelling on my longing, however, I found another way to be part of the group—by riding to the cricket ground on our bullock cart. I would leave the bulls in the field and then head over to play cricket with my friends. Back then,



I could not grasp the deeper meaning behind my grandfather's advice. It seemed unusual, perhaps even a little crazy, that I was riding a bullock cart while everyone else enjoyed their new bicycles. Yet, as I reflect on the experience now, I realise the wisdom in his words. That simple lesson has stayed with me, reminding me that true happiness lies in making the best of what we have, rather than yearning for what we do not.

Galla Siva,
Junior Engineer, The VUE residences

TECHNICAL PLATFORM

Understanding the Water-Cement Ratio in Concrete Technology

The water-cement (w/c) ratio is a critical parameter in concrete technology, defined as the ratio of the weight of water to the weight of cement used in a concrete mix. This fundamental factor significantly influences the strength, durability, workability, and overall performance of concrete. Optimizing the w/c ratio is essential for producing high-quality concrete that meets structural and environmental requirements.

Importance of the Water-Cement Ratio

The w/c ratio governs the properties of concrete by controlling the hydration process, where cement reacts with water to form a binding matrix that holds aggregates together. A lower w/c ratio generally results in higher strength and durability due to reduced porosity in the hardened concrete. Conversely, a higher w/c ratio increases workability but compromises strength and increases permeability, making the concrete more susceptible to environmental degradation, such as sulfate attack or freeze-thaw damage.

The relationship between the w/c ratio and concrete strength was first established by Duff Abrams in 1918 through the Abrams' Law, which states that for a given set of materials, the compressive strength of concrete is inversely proportional to the w/c ratio. This principle remains a cornerstone of concrete mix design.

Effects on Concrete Properties

- 1 **Strength:** A w/c ratio typically between 0.4 and 0.6 is used for most structural concrete. Ratios below 0.4 yield high-strength concrete but may require superplasticizers to maintain workability. Ratios above 0.6 weaken the concrete, increasing the risk of cracking and reduced durability.
- 2 **Workability:** Higher w/c ratios improve the flowability of fresh concrete, making it easier to place and compact. However, excessive water leads to segregation and bleeding, negatively affecting the mix's uniformity.
- 3 **Durability:** Lower w/c ratios reduce the capillary pores in hardened concrete, enhancing resistance to chemical ingress, abrasion, and weathering. For example, concrete exposed to harsh environments, such as marine structures, often requires a w/c ratio below 0.45.
- 4 **Shrinkage and Cracking:** Excess water in high w/c ratio mixes evaporates during curing, causing shrinkage and potential cracking. Proper curing practices and an optimized w/c ratio mitigate these issues.

Practical Considerations in Mix Design

Achieving the desired w/c ratio involves balancing workability, strength, and durability requirements. Key considerations include:

Cement Type: Different cements (e.g., Ordinary Portland Cement, blended cements) have varying water demands, affecting the w/c ratio.

- *Admixtures:* Superplasticizers and water-reducing agents allow lower w/c ratios without sacrificing workability, enabling high-performance concrete.
- *Aggregate Properties:* The size, shape, and gradation of aggregates influence water demand. Well-graded aggregates reduce the need for excess water.
- *Environmental Conditions:* Hot or dry climates may necessitate adjustments to the w/c ratio or additional curing measures to prevent rapid water loss.

Standards and Guidelines

Standards such as ACI 318 and IS 456:2000 provide guidelines for selecting appropriate w/c ratios based on exposure conditions and structural requirements. For instance, IS 456 recommends a maximum w/c ratio of 0.45 for severe exposure conditions, such as coastal areas, to ensure durability. Trial mixes and laboratory testing are critical to fine-tuning the w/c ratio for specific applications.

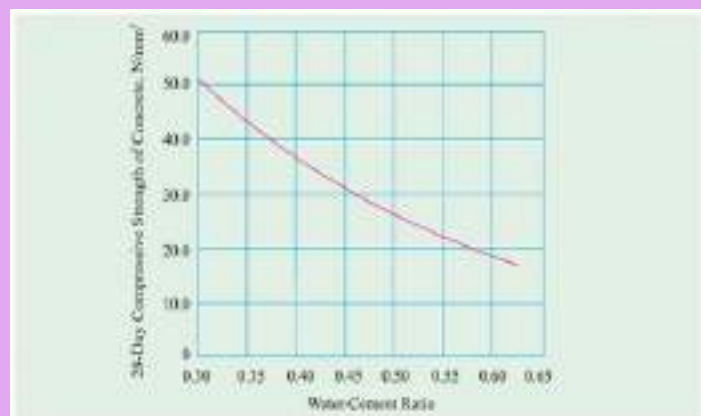
Challenges and Innovations

Maintaining an optimal w/c ratio can be challenging in field conditions due to factors like improper batching, variable aggregate moisture content, or site-specific demands. Innovations in concrete technology, such as self-compacting concrete (SCC) and ultra-high-performance concrete (UHPC), rely on advanced admixtures and precise w/c ratio control to achieve superior performance. Additionally, sustainable practices, such as using supplementary cementitious materials (e.g., fly ash, slag), can reduce cement content while maintaining low w/c ratios, enhancing both performance and environmental benefits.

Conclusion

The water-cement ratio is a pivotal factor in concrete technology, dictating the balance between strength, workability, and durability. By carefully controlling the w/c ratio and leveraging modern admixtures and mix design techniques, engineers can produce concrete that meets stringent performance criteria while addressing sustainability goals. For optimal results, adherence to standards, rigorous testing, and proper curing practices are essential to ensure the long-term performance of concrete structures.

Korada Srinivasa Rao
General Manager



NEWBEES AT SPACE



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