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I-FORM Positions Aluminium Formwork As A Seismic-Ready Alternative To Precast Systems



V. Mallesh
Founder & Chairman
I-FORM ALUMINIUM AND DESIGN LLP

How is I-FORM positioning itself against precast and hybrid construction systems?

Using I-FORM Aluminium Formwork Technology, projects are completed with faster slab cycles, uncompromised quality through factory-made panels, reduced wastage, and less

dependency on machinery. Precast construction is generally more economical for very large-scale standardised developments such as mass housing. However, it involves challenges, including dependency on external casting yards, transportation logistics, and execution complexities at heights exceeding 50 meters.

Hybrid construction systems, on the other hand, tend to be costlier due to the combination of conventional and



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K. Venkatesh
Founder & Managing Director
I-FORM ALUMINIUM AND DESIGN LLP

precast methods, leading to increased coordination complexity and execution challenges & delay in slab cycles. Our Aluminium Formwork technology enables monolithic construction, ensuring superior structural integrity, seamless finishes, and reduced reliance on external materials.

In high-rise developments, due to shear wall design, this advanced technology provides increased resistance to seismic activity, allowing structures to withstand earthquakes more effectively than precast and hybrid construction systems. Overall, we position ourselves as a solution that delivers speed, quality, and long-term value, tailored to each project type.

What are the key engineering advantages that differentiate your Aluminium Formwork systems?

I-FORM's Aluminium Formwork Technology is engineered for precision, durability, and repeatability. A key advantage is the ability to achieve monolithic construction, in which walls, slabs, and structural components are cast in a single pour, thereby enhancing structural strength and seismic performance.



Meenakshi Elysia - Abids, Hyderabad.



South India's First Long Automated Robotic FSW Machine at I-FORM Manufacturing Facility, Siddipet, Telangana.

Our systems use high-grade aluminium alloys, ensuring lightweight handling without compromising strength. This reduces manual effort and minimises on-site crane dependency.

Another major advantage is dimensional accuracy. Precision-engineered panels ensure minimal deviations, resulting in excellent surface finish and reduced plastering requirements. This leads to cost savings, faster project completion, and reduced wastage on-site. We also focus on system standardisation and modular design, enabling faster assembly and dismantling. Combined with optimised load distribution, our systems deliver both speed and safety.

What is the average repetition cycle your systems can achieve under Indian site conditions?

Under typical Indian conditions, our Aluminium Formwork Technology achieves a 5–7 day slab cycle, depending on project scale, planning, and site readiness.

For repetitive structures such as villa clusters and high-rise buildings, once the learning curve is achieved, the cycle can be further optimised. Our teams actively support clients during the initial stages to streamline workflows and improve productivity.

Our systems are designed for high reuse, typically achieving 100–150 repetitions or more, significantly reducing

per-use cost and improving overall project viability.

What kind of locking or pin systems do you use to ensure faster assembly and safety?

We utilise advanced pin-and-wedge locking systems, known for their reliability, speed, and safety.

These systems enable quick and secure panel connections, ensuring structural stability during concreting. Their simplicity allows faster assembly and dismantling without complex tools, improving productivity and reducing installation errors.

Additionally, our systems incorporate safety features, including proper alignment, supports, and load-bearing considerations. We also emphasise training and supervision to ensure safe and efficient execution on-site.

Are rental, leasing, or hybrid ownership models gaining traction?

In our View, rental is not a preferred model for Aluminium Formwork technology when quality, lifecycle performance, and precision are critical.

Although rental reduces upfront investment, it introduces risks such as misuse, unauthorised modifications, and excessive wear from use across multiple projects. This reduces system lifecycle and achievable repetitions & is non-profitable for operators.

Aluminium Formwork is a precision-engineered system, and maintaining

design integrity is essential. Any compromise can affect alignment, finish quality, and structural outcomes.

At I-FORM, we focus on outright purchase and controlled hybrid ownership models, ensuring proper maintenance, accountability, and consistent long-term performance.

How aligned is your system with green building norms and ESG expectations?

At I-FORM, we integrate FSW (Friction Stir Welding) technology in our manufacturing process, significantly enhancing sustainability.

FSW is a solid-state welding process that reduces energy consumption compared to conventional welding, thereby lowering carbon emissions. It also eliminates the need for shielding gases such as argon, making the process cleaner and more environmentally friendly.

Additionally, FSW produces strong, defect-free joints, improving durability and enabling higher repetitions. This reduces material replacement and supports resource conservation.

Beyond manufacturing, our systems contribute to sustainability by refurbishing aluminium formwork, extending its lifecycle and optimising resource use.

The superior surface finish minimises plastering requirements, reducing cement consumption and overall carbon footprint. Faster construction cycles also reduce project duration, lowering energy usage and environmental impact.

Together, these factors ensure strong alignment with green building standards, eco-friendly construction practices, and ESG expectations.

At I-FORM, under the leadership of our founders, we are committed to delivering engineering excellence, operational efficiency, and sustainable construction solutions. We continue to drive innovation in Aluminium Formwork technology, enabling faster, safer, and more efficient construction. ■