



**Mfg. of Concrete Batching Plant &
Aluminium Formwork System**



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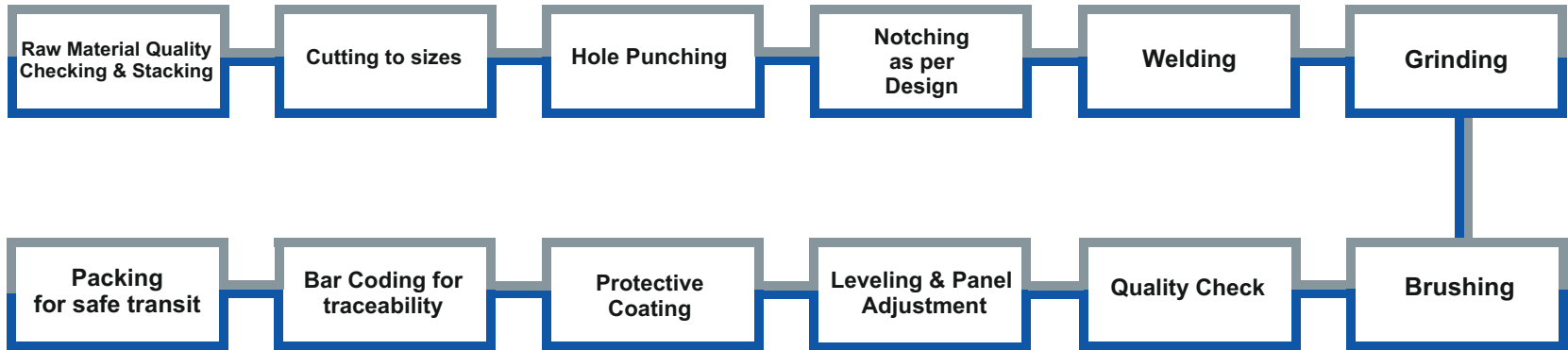
**ALUMINIUM
FORMWORK SYSTEM**



Nilkanth Aluform is a lightweight Formwork system made of high quality Aluminum Extrusion with admirable strength to take on the site conditions. The light weight panels ensure excellent finish, faster construction. **Nilkanth Aluform** is best suited for construction of residential units and mass housing projects. it is fast, simple, adaptable and cost effective. It produces total quality work which requires minimum maintenance and when durability is the prime consideration. The system is designed for maximum repetitions with very stringent tolerances, well designed edges to resist sight abuses. This system is most suitable for Indian condition as a tailor made aluminum formwork for Concrete structure



MANUFACTURING PROCESS



It is an aluminium alloy formwork system used widely in the construction of residential units and mass housing projects. It is fast, simple, adaptable and cost - effective. It produces total quality work which requires minimum maintenance and is the prime consideration. The technology has been used extensively in other countries such as Europe, Gulf countries, Asia and all other parts of the world. This Technology is more suitable in india to construct large number of house within short period of time, economically and satisfactory for all kind of construction

WHERE IS ALUMINIUM FORMWORK IS SUITABLE ?

- Large scale Housing & High-rise Projects
- Column less Structure
- Building with typical Floors
- Number of Repetition are more
- Villas & Independent House
- Quality & Fast Construction Required

ADVANTAGES

- The Formwork is specifically designed to allow rapid construction on all types of architectural layouts.
- Total system forms the complete concrete structure
 - Custom Designed to suit project requirements
 - Walls can be de-shutter after 16-24 Hours
 - Slabs can ne de-shutter after Two-Three Days
 - Fast Construction Speed
 - High Quality Finish
 - Panels can be reused over 200 times
 - Erected using unskilled labour
 - light weight
 - Higher Scrape Value
 - Easy to Handle
 - Cost Effective

WHY NILKANTH ALUFORM

- Our Formwork is custom - designed for your specific projects need.
- It ensure faster construction speed without compromising on quality finishing.
- Reusable Panels up to 200 times, Making it highly cost effective.
- Exclusive Almunium Formwork System manufacturers in centre of Gujarat.
- On time Deliveries, Dedicated Design, Operations & Support Team.
- We are driven by a team of high- skilled experts dedicated to perfection
- Exceptional Service whenever Requested.

7 DAYS WORKING CYCLE OF ALUMINIUM FORMWORK

- 1ST DAY**

 - Setting out line for the Wall.
 - Binding of steel for wall (Reinforcement).
- 2ND DAY**

 - Applying of De-shuttering oil on wall panels.
 - Wall panel join with wedge pin and wall tie.
 - Joining Corner with Wall panels.
 - Fixing of Beam bottom with beam Prop Head.
- 3RD DAY**

 - Window opening.
 - Fixing of Window panels.
 - Fixing of Soffit length.
 - Fixing of Props with prop head
 - Fixing of Mid beam & End beam with deck prop head.
- 4TH DAY**

 - Fixing of deck Panel as per room coding.
 - Fixing of stair case & other formwork like Kicker,Ec & etc.
- 5TH DAY**

 - Binding of steel for Slabs.
 - Top reinforcement .
- 6TH DAY**

 - Final Checking.
- 7TH DAY**

 - Casting

SALIENT FEATURES OF ALUMINIUM FORMWORK

- Latest International Technique
 - High end Finishing
 - Easy Erection
 - Reduce slab cycle and faster completion
 - Less Inventory & economical
 - Saving Human Labour
- Safety of Workers
 - High repetition & Durability
 - Quality & testing
 - Good Resale Value
 - Eco Friendly

KEY PROPERTIES OF NILKANTH ALUFORM ALLOY 6061 ≈ AA

- High Strength
 - Good toughness
 - Good surface Finish
 - Excellent corrosion resistance to atmospheric conditions
- Good Weld ability
 - Good Workability
 - Widely available
 - Can be anodized

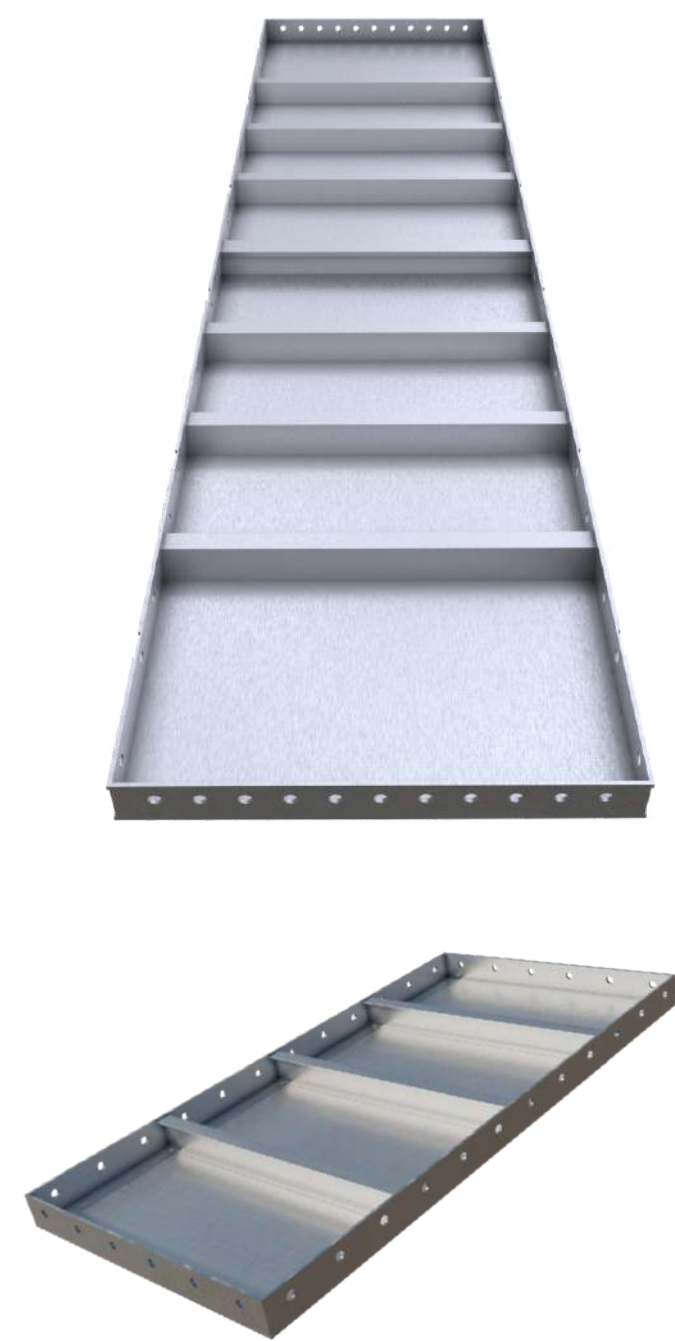


COMPARISON BETWEEN CONVENTIONAL & ALUMINIUM SHUTTERING



Sr.	Item	Light Steel Formwork	Plywood Formwork	Plastic Formwork	Aluminium Formwork
1	Cycle Time	20-25 Days	20-25 Days	16-20 Days	7 Days
2	Material Thickness	2-2.5 mm Thickness Steel Plate	12mm,18 mm & 20mm thickness plywood	20 mm Thickness Plastic sheet	4 mm Thickness Aluminium Profile
3	Side Frame	55 mm	12-20 mm	80 mm	65 mm
4	Weight Kg/m ²	30-35 Kg.	10.5 to 14 Kg.	20 Kg.	21-22 Kg.
5	Load (Kn/m ²)	30	30-20	60	60
6	Cost Effectiveness	low	low	high	higher
7	Cycle Time	50	12-14	100	200
8	Quality of Concrete Surface	smooth surface, low accuracy	rough surface	smooth surface, fair	smooth surface, fair & sine
9	Application	Wall, Column & Slab	Wall, Column, slab & beam ,bridge & Conventional system	Wall, Column, slab , beam,bridge & Conventional system	Wall, Column, slab beam,bridge & Monolithic system
10	Recycle Value of the material	High	low	Medium	high

Specification	Aluminium alloy AA 6061-T6 ≈ AA		
Mechanical Properties of Material	Characteristics	Aluminium alloy AA 6061-T6 ≈ AA	
	Density	2.7 gm/cc ³	
	Allowable bending stress	1250 kg/cm ²	
	Young’s modulus	69000 kg/cm ²	
	Aluminum sheet	Grade - 5052 / 3105 (4mm Thick)	For special & non standard size only.
Standard Panel Sizes	Wall panel	2400 X 600 mm , 2400 X 500 mm 2400 X 450 mm, 2400 X 300 mm	or as per drawings / design
	slab panel	1200 X 600 mm	

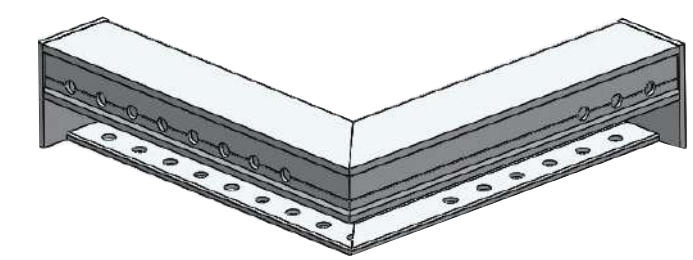


Specification	Aluminium Alloy AA 6061-T6 ≅ AA
Wall Panel	600 (W) X 2400 (H) 500 (W) X 2400 (H) 450 (W) X 2400 (H) 300 (W) X 2400 (H)
Horizontal	2No. H Stiffener 5 No. U Stiffener

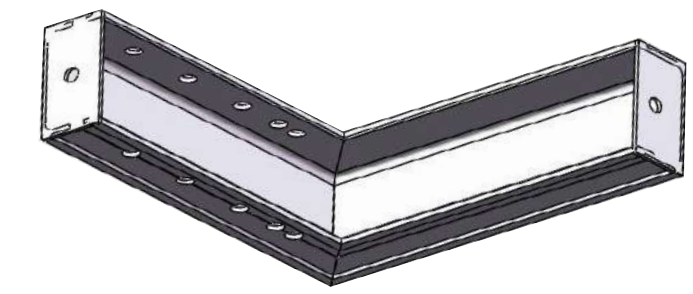
Specification	Aluminium Alloy AA 6061-T6 ≅ AA
Deck Panel	600 (W) X 1200 (L) 500 (W) X 1200 (L)
Beam Panel	300 (W) X 1050 (L) 300 (W) X 900 (L)



Material	Aluminium Alloy AA 6061-T6 ≅ AA
Slab Inner Corner ICI	Soffit Corner Internal. Connection between wall panel & slab panel (internal side)



Material	Aluminium Alloy AA 6061-T6 ≅ AA
Slab Outer Corner ICE	Soffit Corner external. Connection between wall panel & slab panel,beam panel



Material	Aluminium Alloy AA 6061-T6 ≅ AA
Kicker Corner KC	starter for external wall panel



Material	Aluminium Alloy AA 6061-T6 ≅ AA
Prop Head	Used to Joint the beams together (Middle beam or End beam), the pipe support will be placed under the prop head



Material	Aluminium Alloy AA 6061-T6 ≅ AA
End Beam	Used to joint the prop and slab corner, the beam support the slab panel



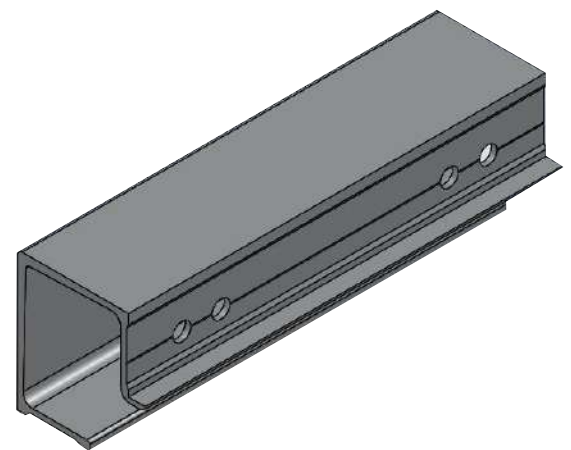
Material	Aluminium Alloy AA 6061-T6 ≅ AA
Mid Beam	Used to joint the prop heads, the middle beam supports the slab panels.



Material	Aluminium Alloy AA 6061-T6 ≅ AA
End Corner	Connection Between two wall panel.



Material	Aluminium Alloy AA 6061-T6 ≅ AA
Joint bar	Used to join the prop head with the beam (middle and end beam).



Material	Aluminium Alloy AA 6061-T6 ≅ AA
Soffit Length	Used to joint the prop heads, the middle beam supports the slab panels.



Pin 50 MM



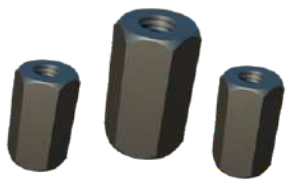
Long Pin 127 MM



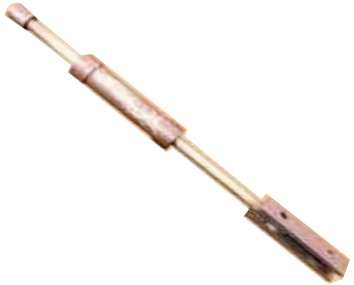
Rocker Bolt with Nut



Wedge



Hexanut (30MM)



Tie Puller



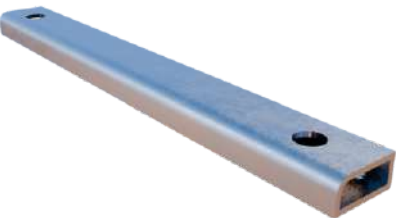
Adjustable Props



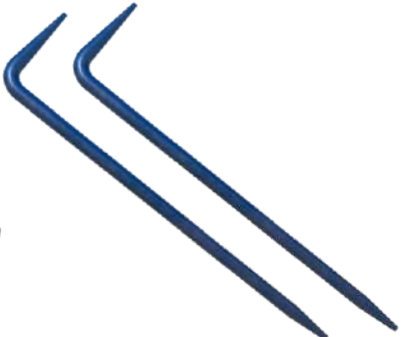
Turn Buckle with cable



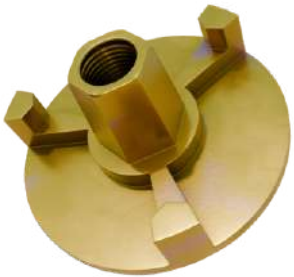
Water Stoper



Beambar(Soldertie) 350 MM



Holebari



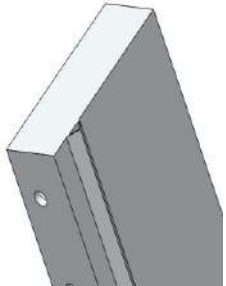
Wingnut (90MM)



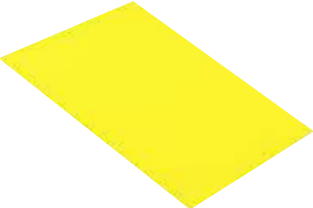
Waller (Double Pipe)
60/80 X40X1000 MM



Wall Tie
280/330/405
455/505/605 MM



Grooves



PVC Sleeve



Waller bracket (German Clamp)



Tie Rod 16 MM



Adjustable Clamp 600 MM



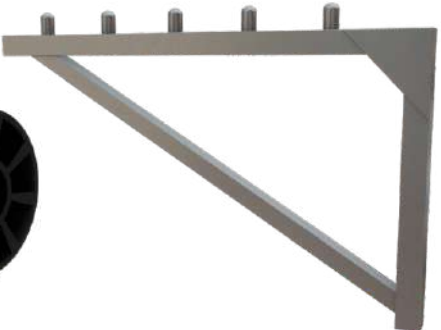
Panel Puller



Polythene Role
(1 Roll Weight 5 Kg.)



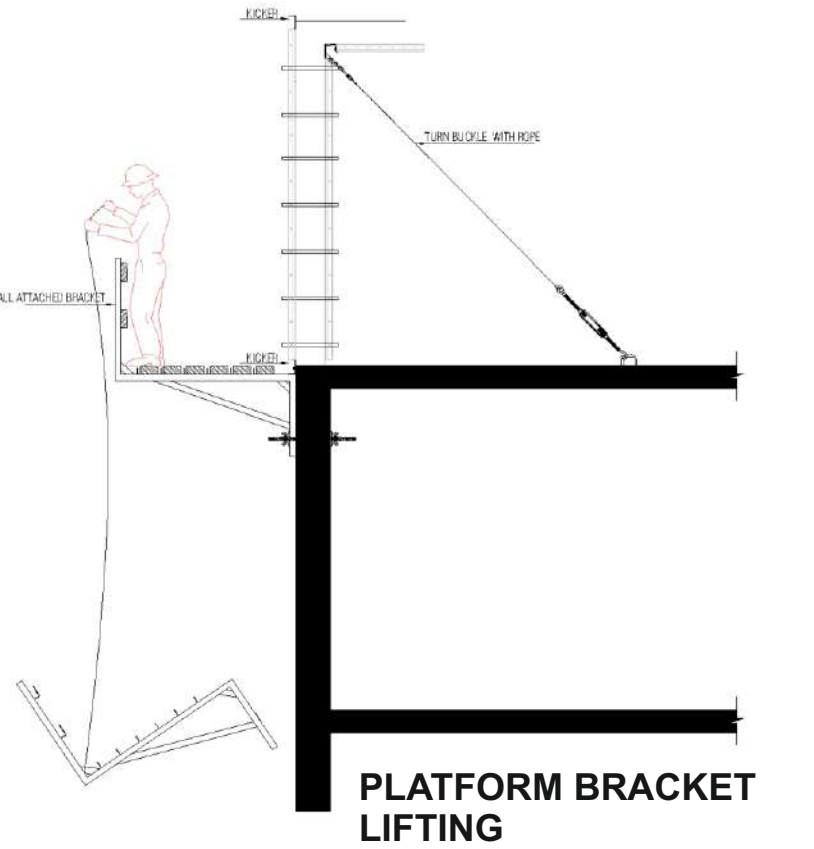
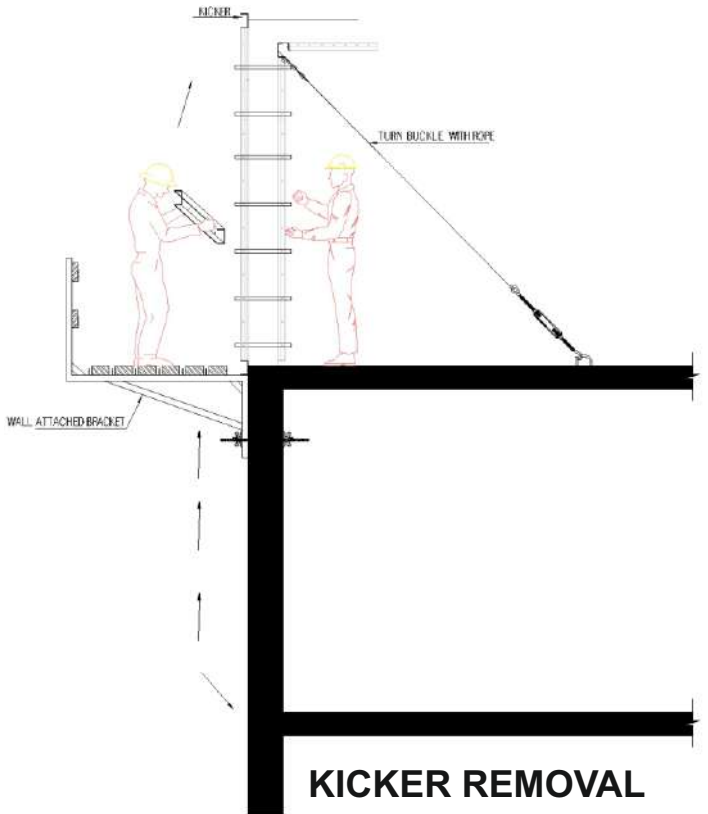
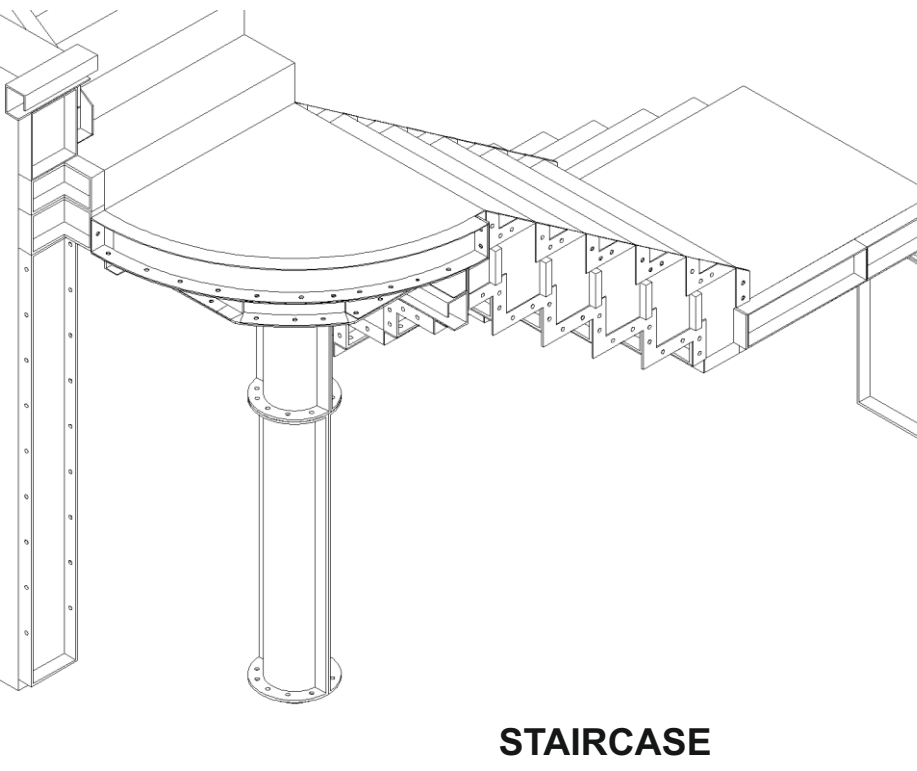
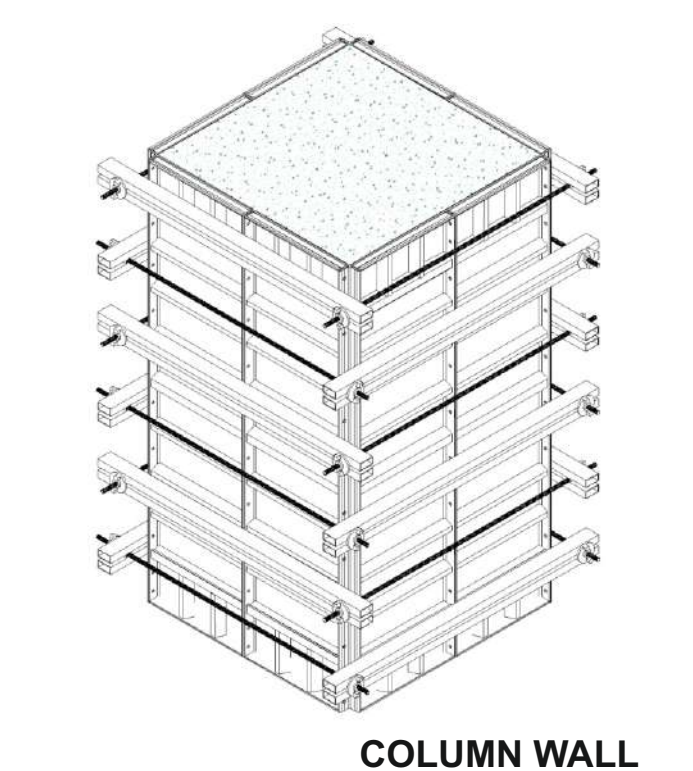
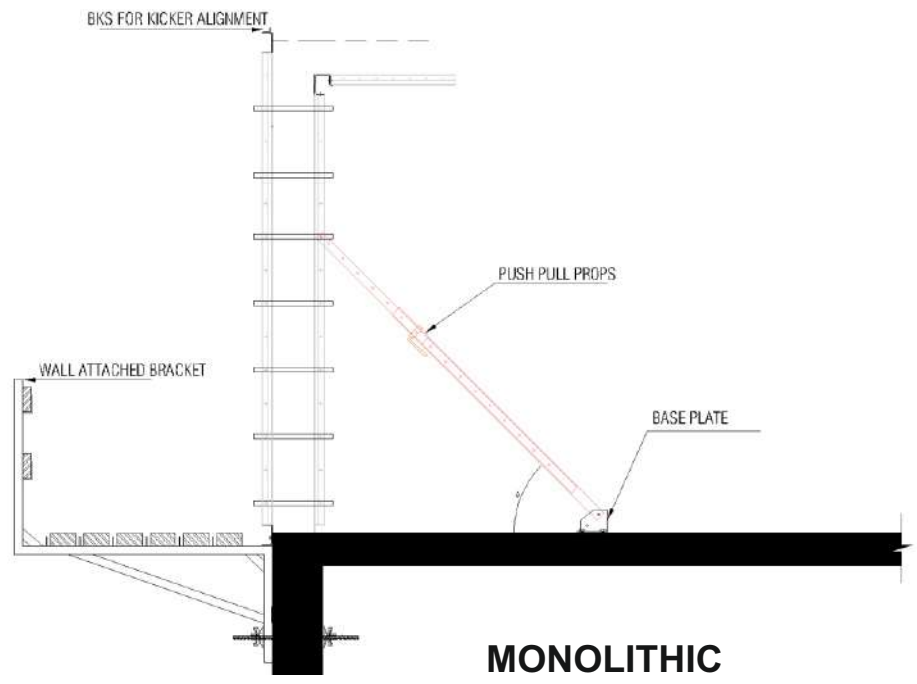
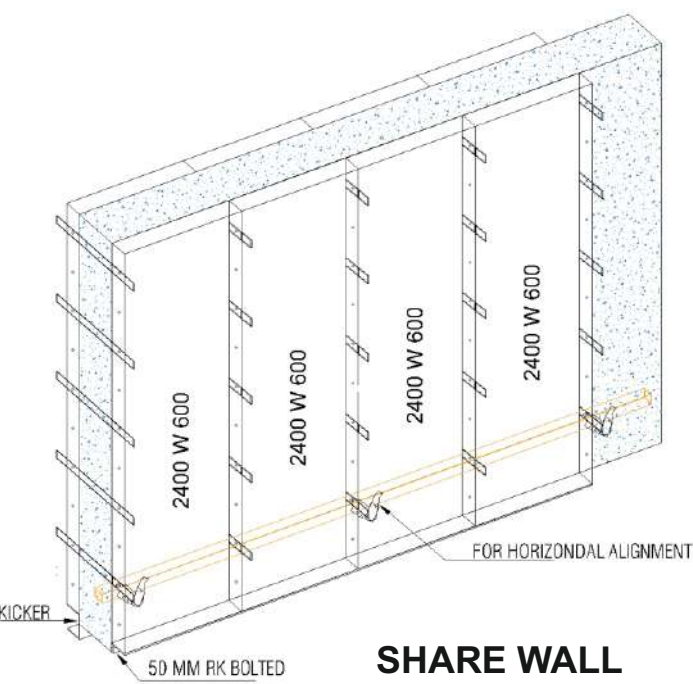
PVC Cone



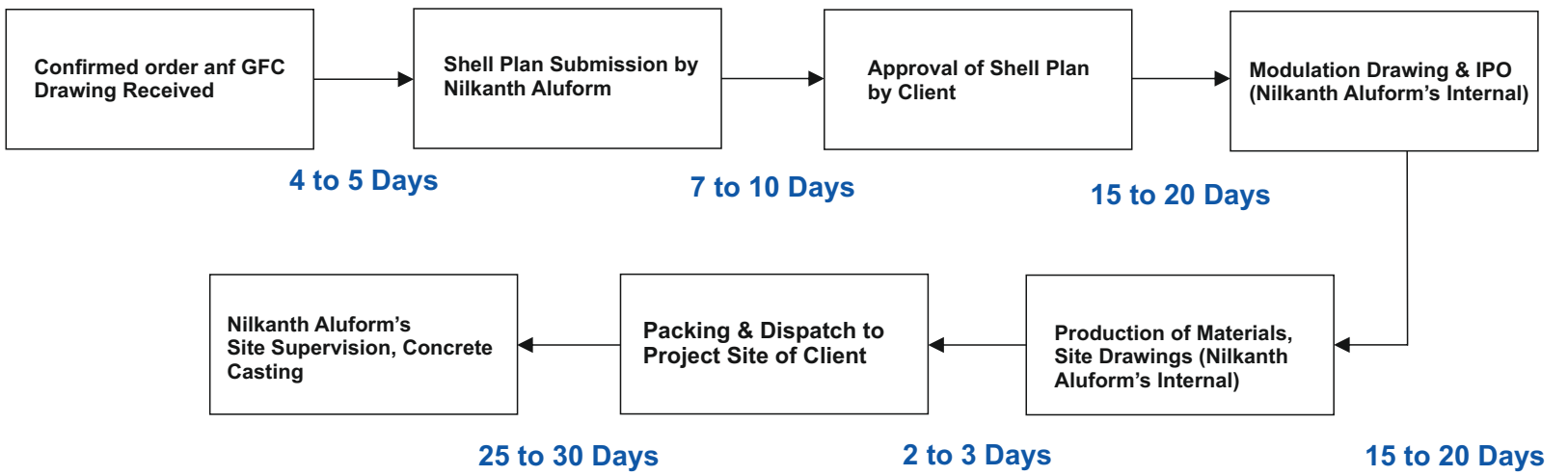
Elevator Bracket



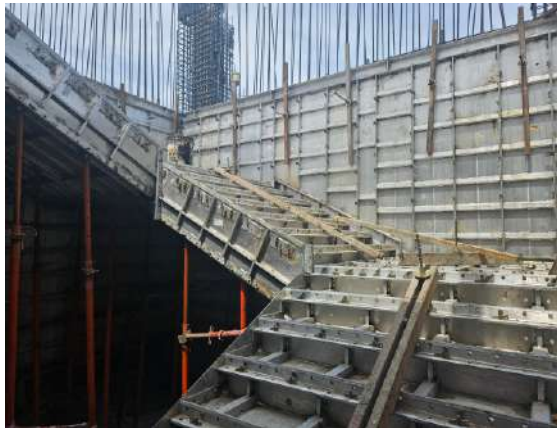
Slab Attached Bracket
350 X 100 MM

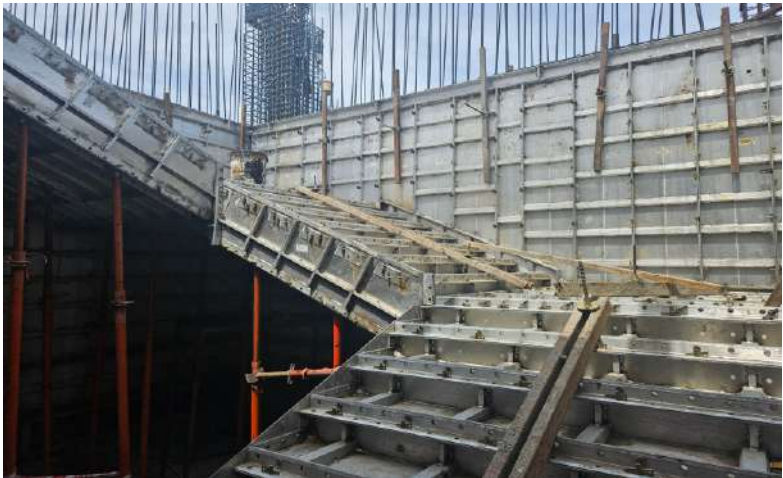


MILESTONES BEFORE FIRST CASTING



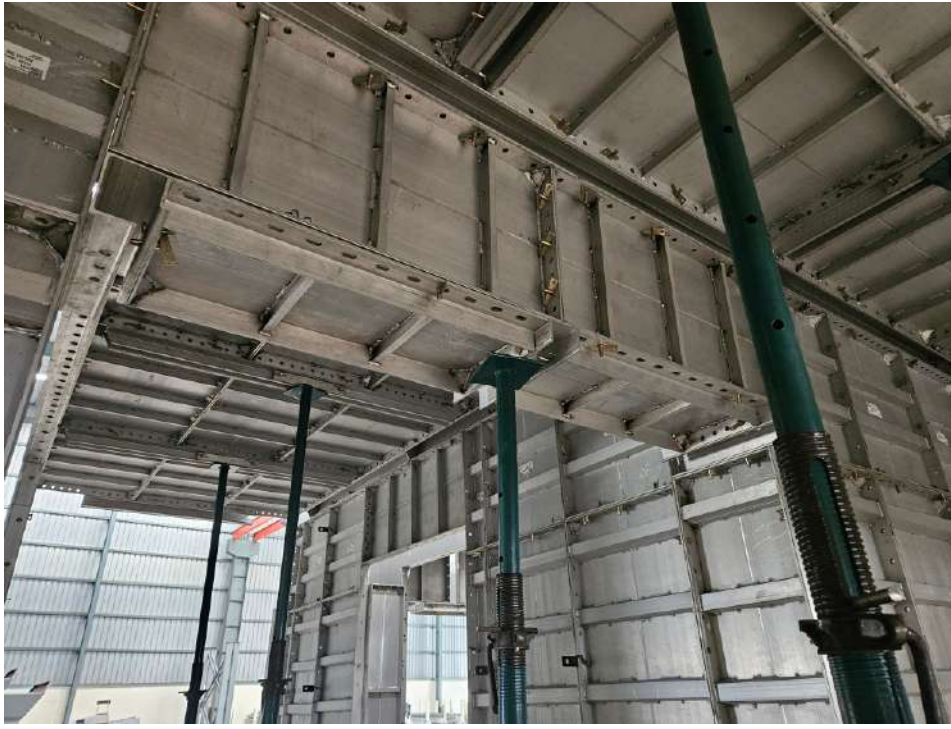
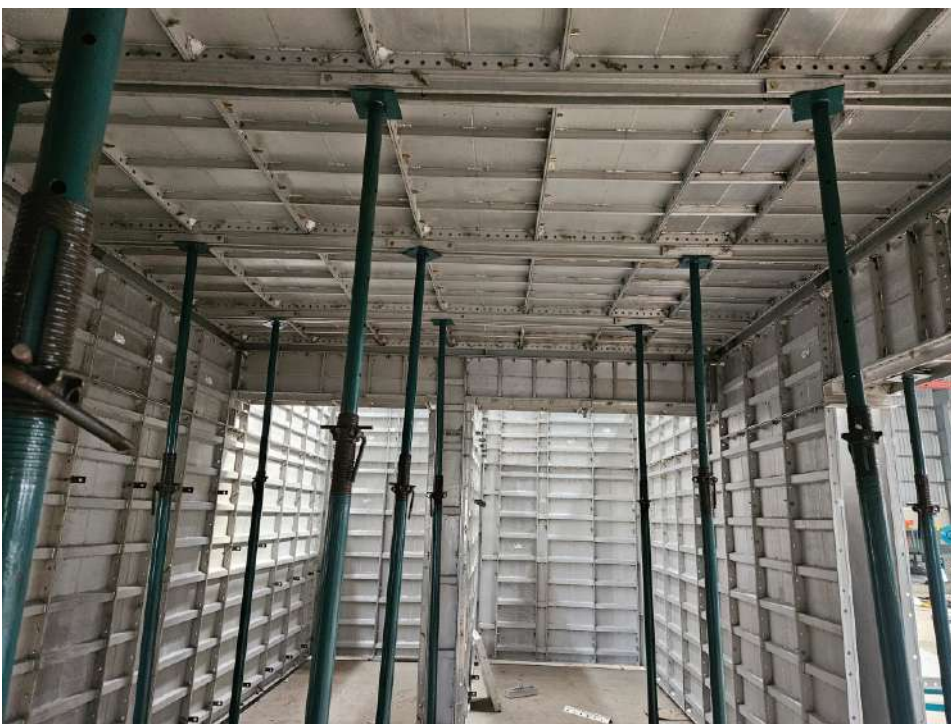


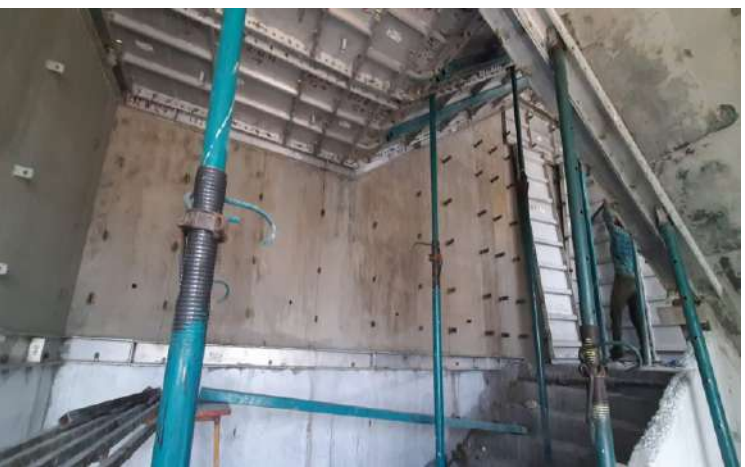
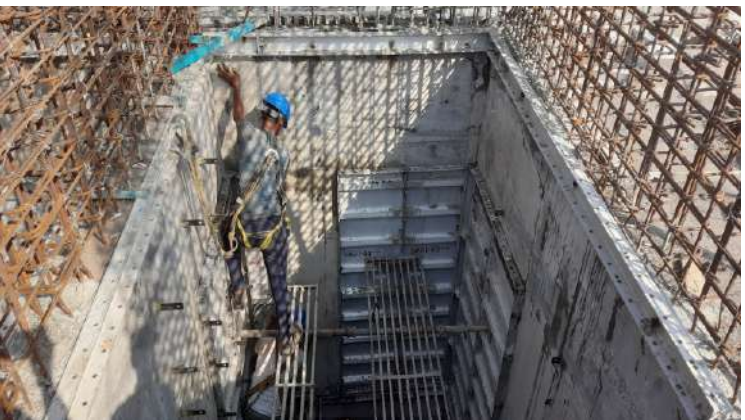
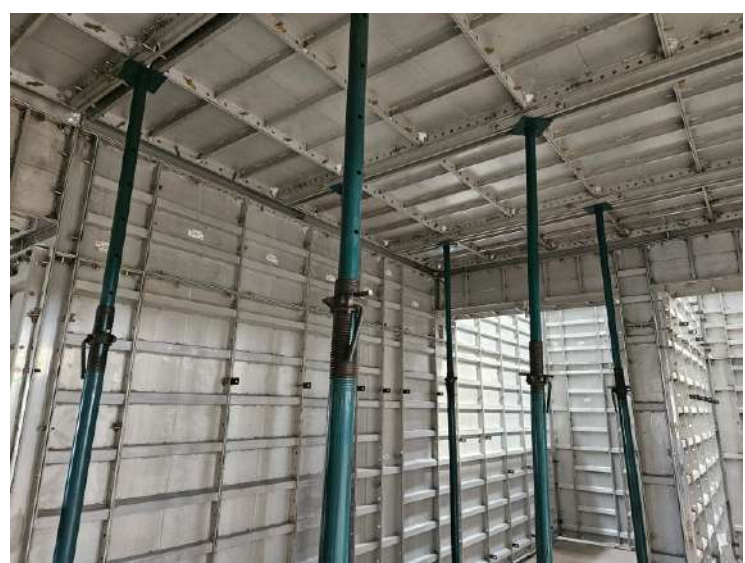










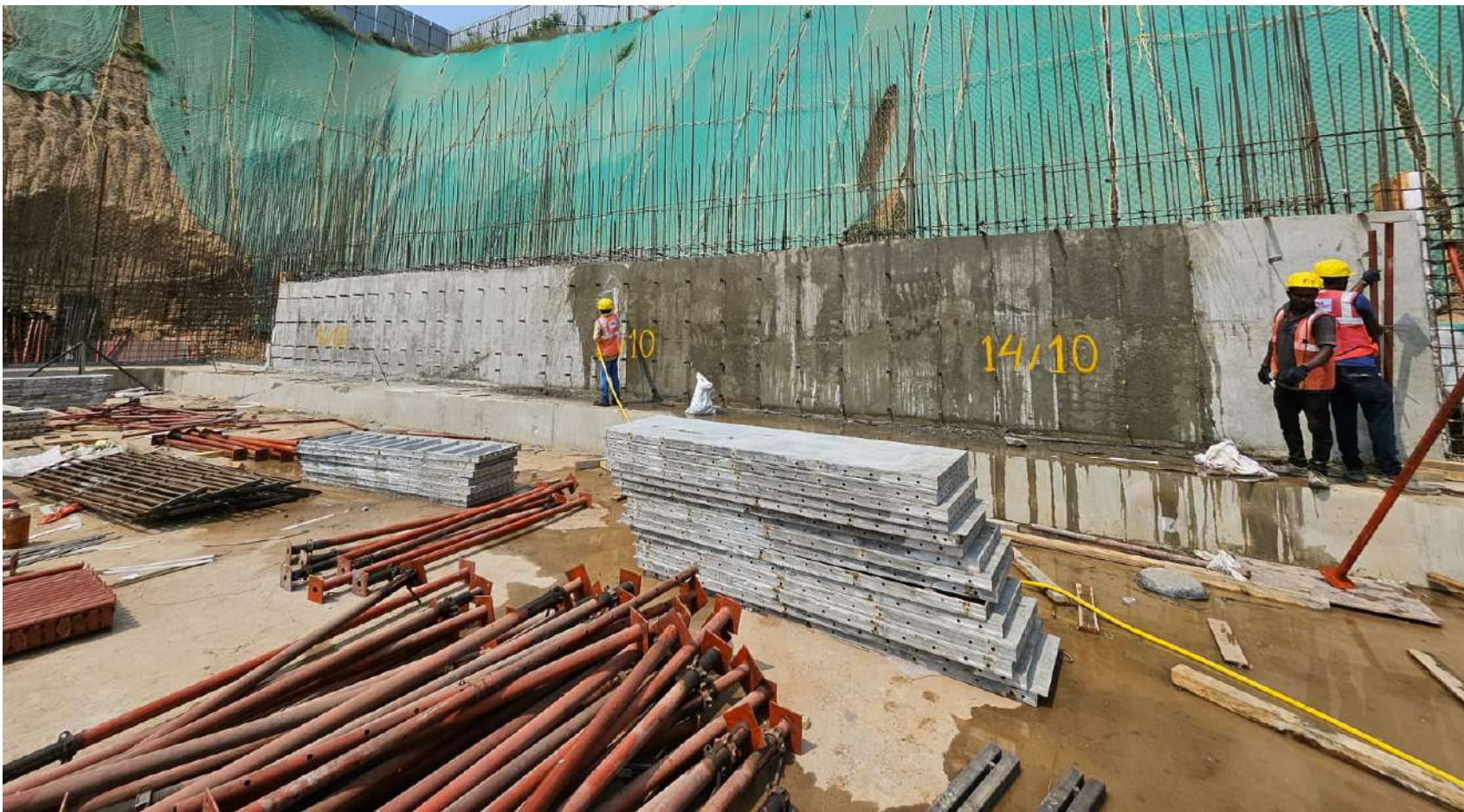




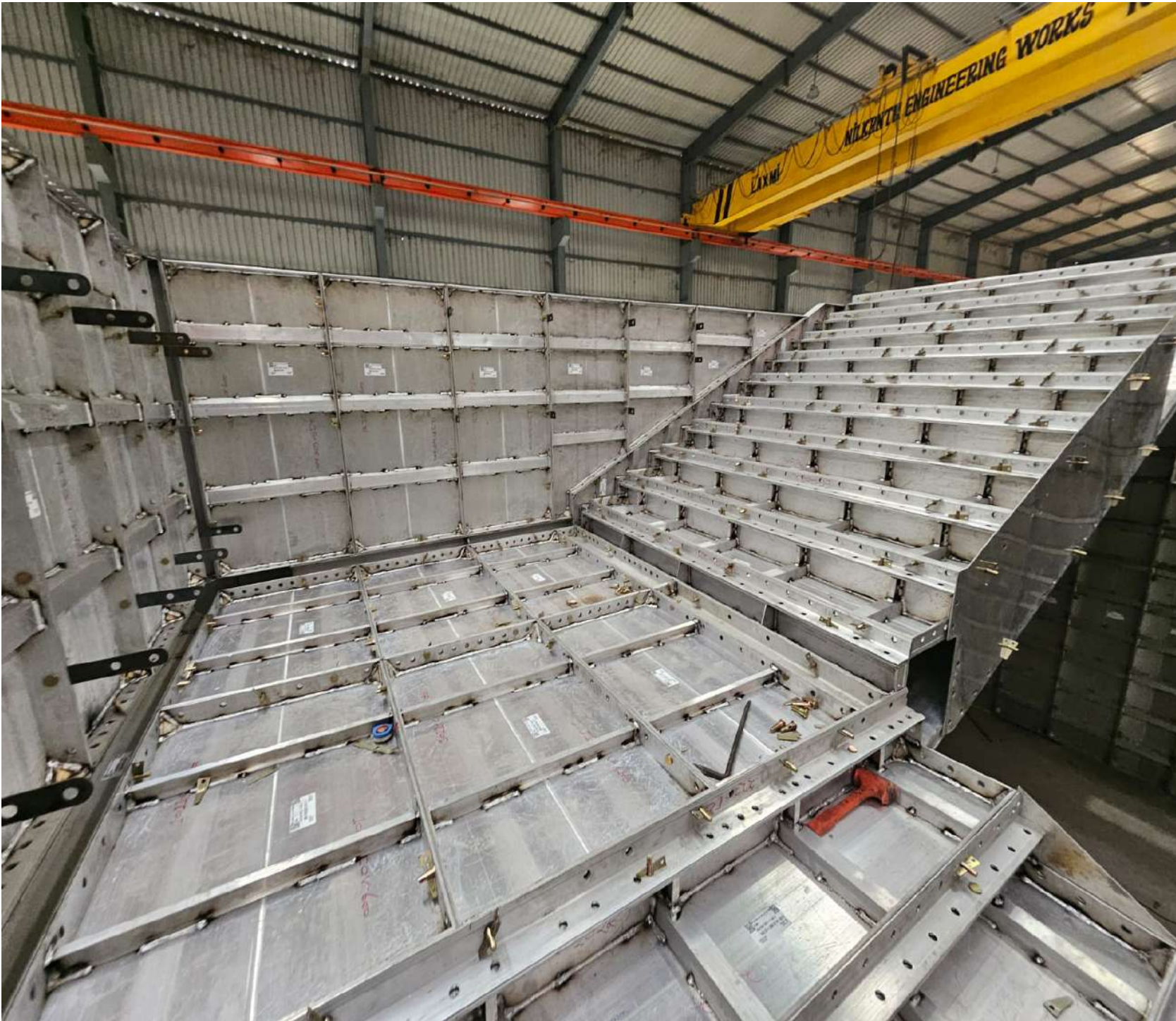




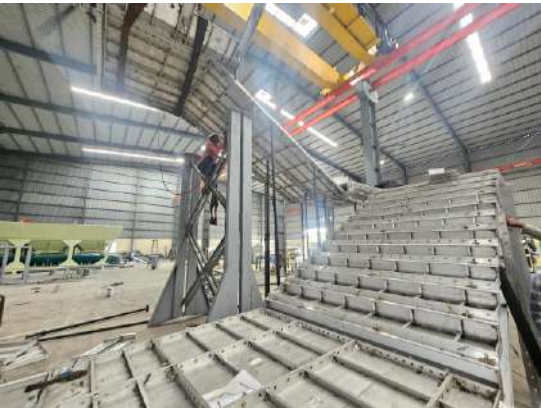
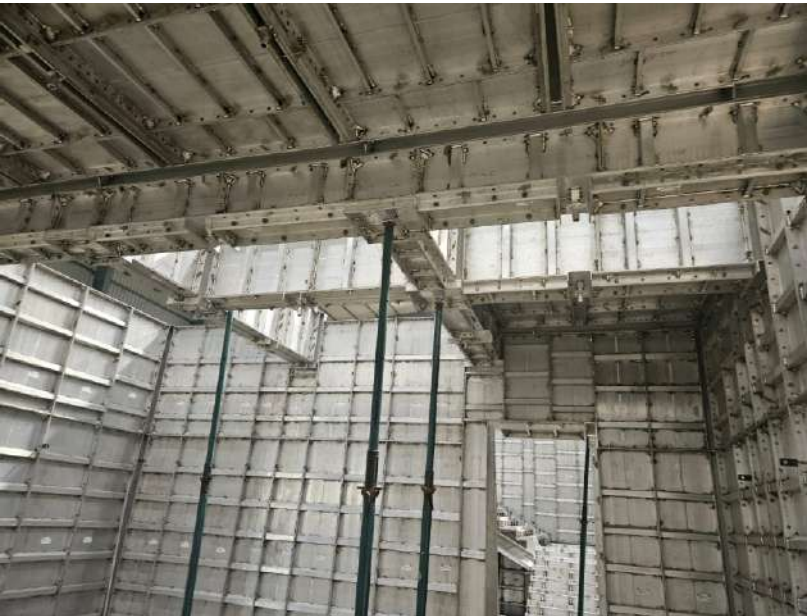
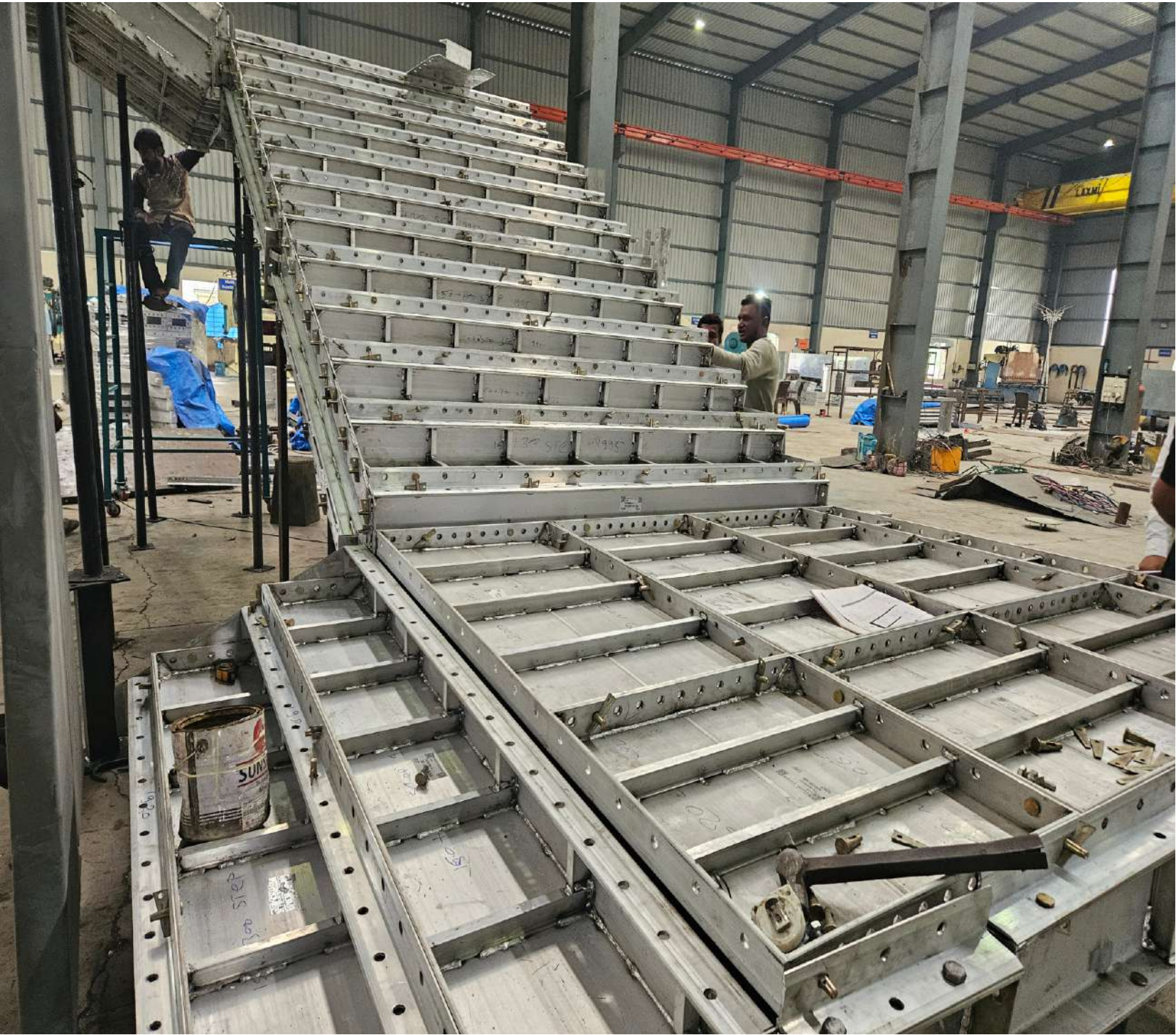










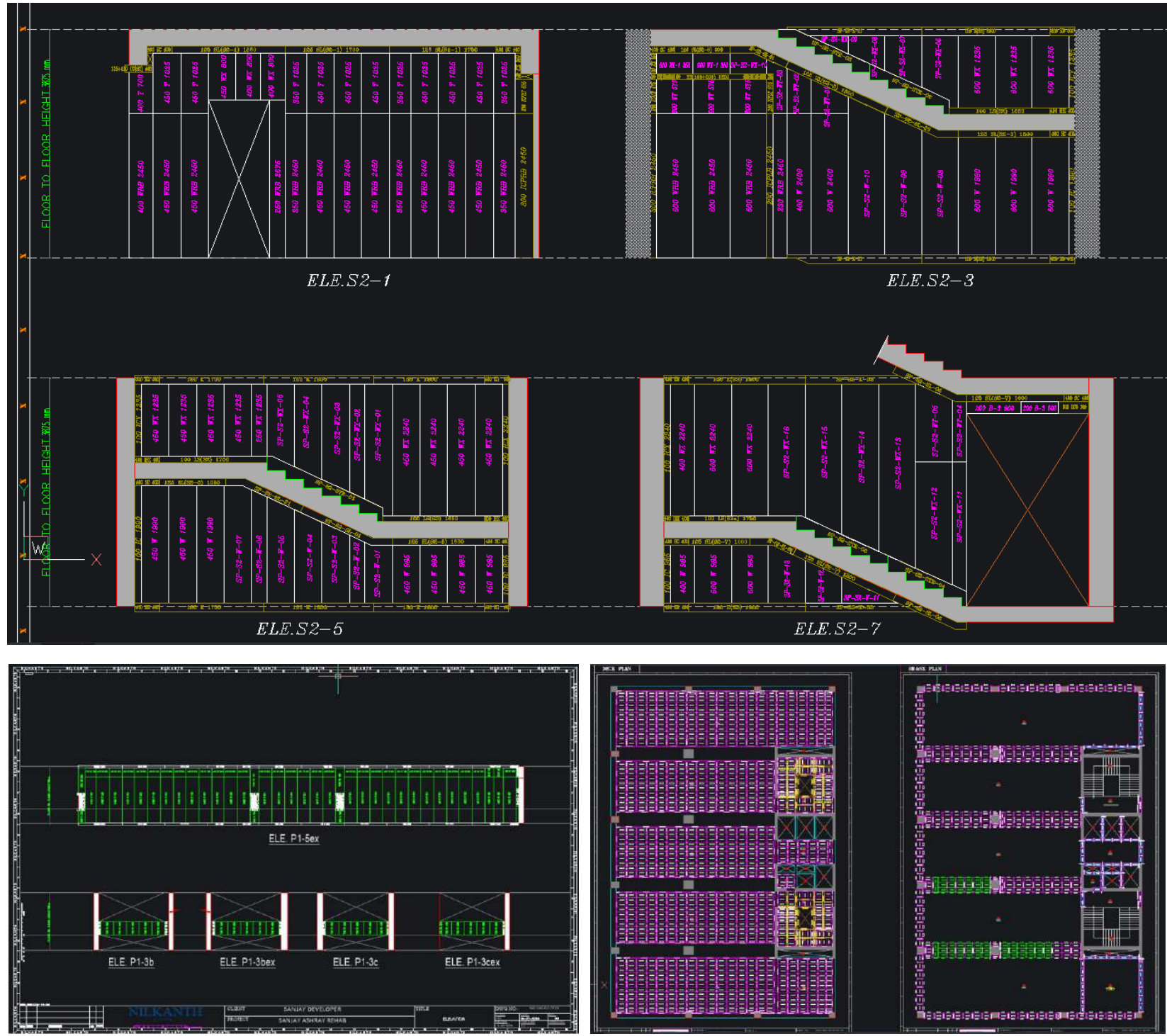
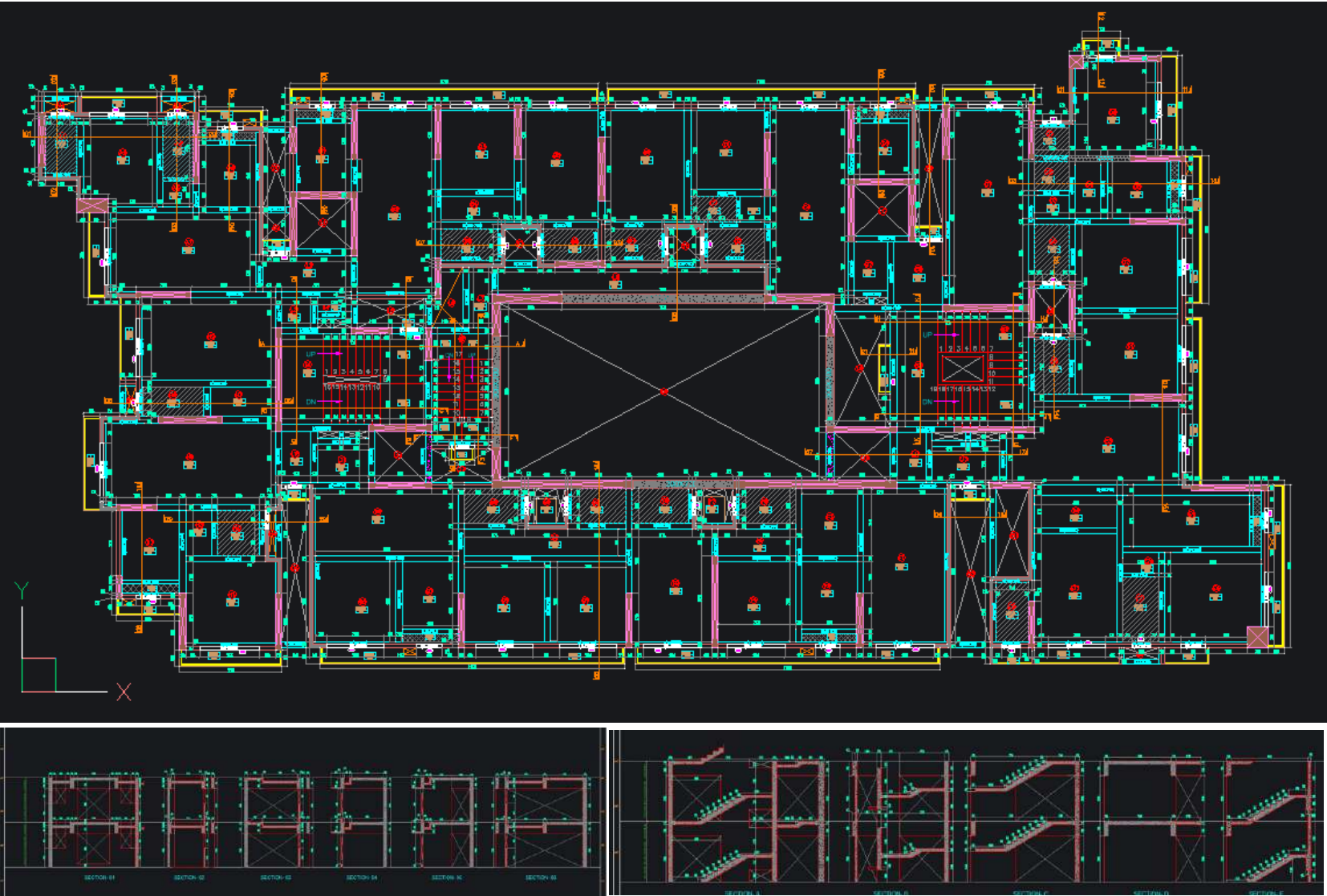








Nilkanth Engineering Works places a very high importance on delivering superior Design support, and believes our design support differentiates us in The market. Our highly skilled designers having Knowledge of the latest design software and its filed applications Provide customized design support in consultation to customer's Technical team. Our design team helps you to determine which product best Suit Your needs as per project's specific architecture and the site Conditions and design a complete system which suits your project To the hilt.





At Victory Park Mumbai



At Rajyash one, Gift City



At Victory Park Mumbai



At Solitare Edge, Kandivali, Mumbai



At Sanay Business Hub, Mumbai







Nilkanth Engineering Works is focused on providing our customers with all the Support required to ensure a smooth usage of the NilkanthSystem ensuring maximum time saving with minimum deployment Of manpower and equipment. Whether this includes construction Management or on-field engineering, technical support during Project execution or training of the workforce, our site support Team is committed to ensure a safe and reliable implementation, Streamlining the project execution and transition. We understand that site support doesn't merely mean to guide the Customer on your product's usability. The objective of our site Support team is to increase the productivity and the structural Quality from the first draft to the finalization of the building.

AFTER SALES SUPPORT

Our customer's success is our success and undoubtedly, the customer's growth is our resultant Growth. We further extend our philosophy- Our customer's saving is our company saving. Our sales, Management and engineering teams have experience in a wide range of Projects and Industries. We understand the changing needs of our customers when they move From one project to another. We work in close partnership with our clients in their new projects in Both the development and refinement of designs, formwork planning, reuses of the existing Inventory.

CLIENTS

- Rajyash Projects Llp
- Epsilon Construction
- Katira Construction
- Krishna Construction
- Manisha Construction
- Aaryman Infra Projects
- Shiv Dhara Enterprise
- Vinca Realtors
- Naumi Realities Pvt. Ltd
- Hetal Infra Realtors Llp
- Devash Construction
- Icon Infra



Mobile Concrete Batching Plant - 3 BIN



Compact Concrete Batching Plant - 3 Bin



Compact Concrete Batching Plant - Cross Bin



Stationary Concrete Batching Plant



Stationary Concrete Batching Plant Inline - Pan Mixer / Twinshaft Mixer



Cement & Flyash Storage Silo

Capacity Available 20,30,45,60,75,90,120 Cu.M/Hr.

WHY US



Quality



Fast Service



Standard Parts



Fast Spares Delivery



Continually Improve



Trust



High Technology



24 X 7 Support