

Aluminium Formwork (MIVAN Technology) Course

Episode 1.1
[History of MIVAN shuttering](#)



1. [Introduction to MIVAN Technology](#)
2. Formwork System Overview
3. MIVAN Shuttering Components & Description
4. List of Aluminium formwork accessories
5. Consumables Items
6. Safety measures in MIVAN Shuttering
7. Design, Order and Inventory of MIVAN
8. Shell Plan & Layout Drawing of MIVAN
9. Construction Techniques with MIVAN Shuttering
10. Refurbishment / Modification Process
11. Quality Control and Assurance
12. 7 Days Slab Cycle
13. Cost Analysis and Budgeting
14. Future Trends in MIVAN Shuttering Technology
15. MIVAN Interview Question & Answers





MIVAN Shuttering Essentials Course

What you will Get in this course



eBook
100 pages



Dedicated Videos
30+

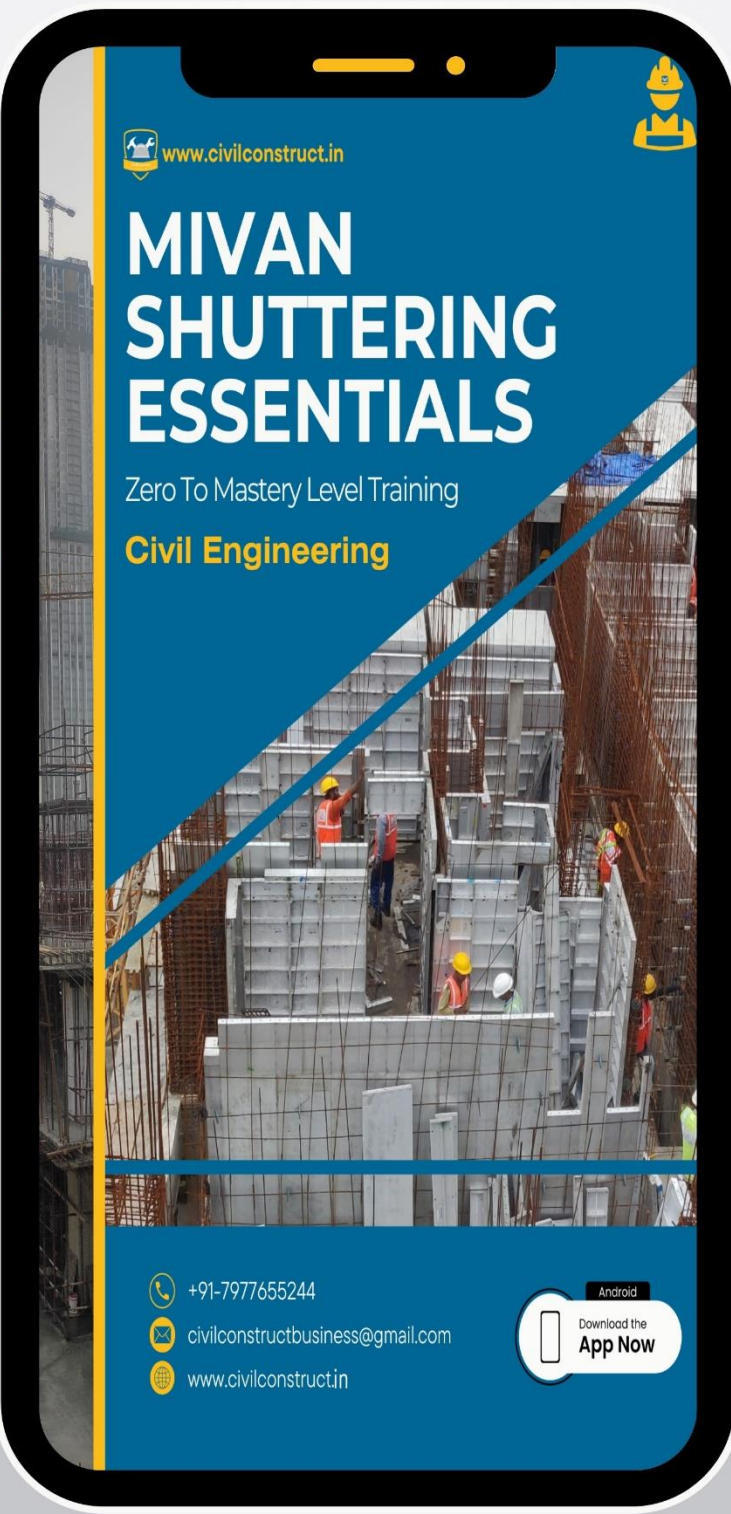


Shell Plan Drawing



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What is Formwork?

- Formwork is a temporary structure which is used as a mould to pour the concrete. It is a vertical or horizontal arrangement made to keep concrete in position until it gains strength & shape.

What is Shuttering?

- It is a part of formwork, or you may call it as derivative of formwork. Shuttering is a **vertical temporary** arrangement which is arranged to bring concrete in a desired shape.





What is Centering?

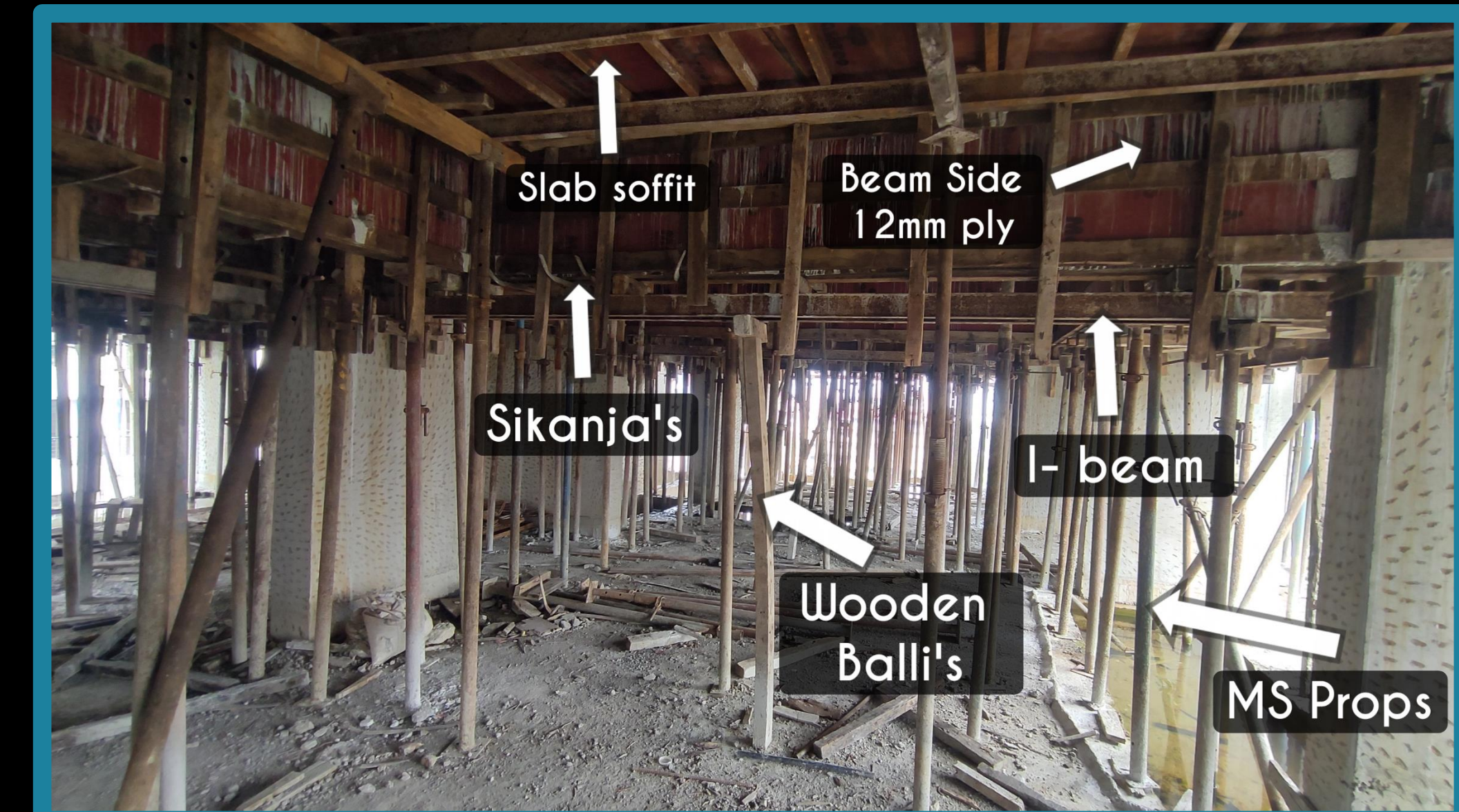
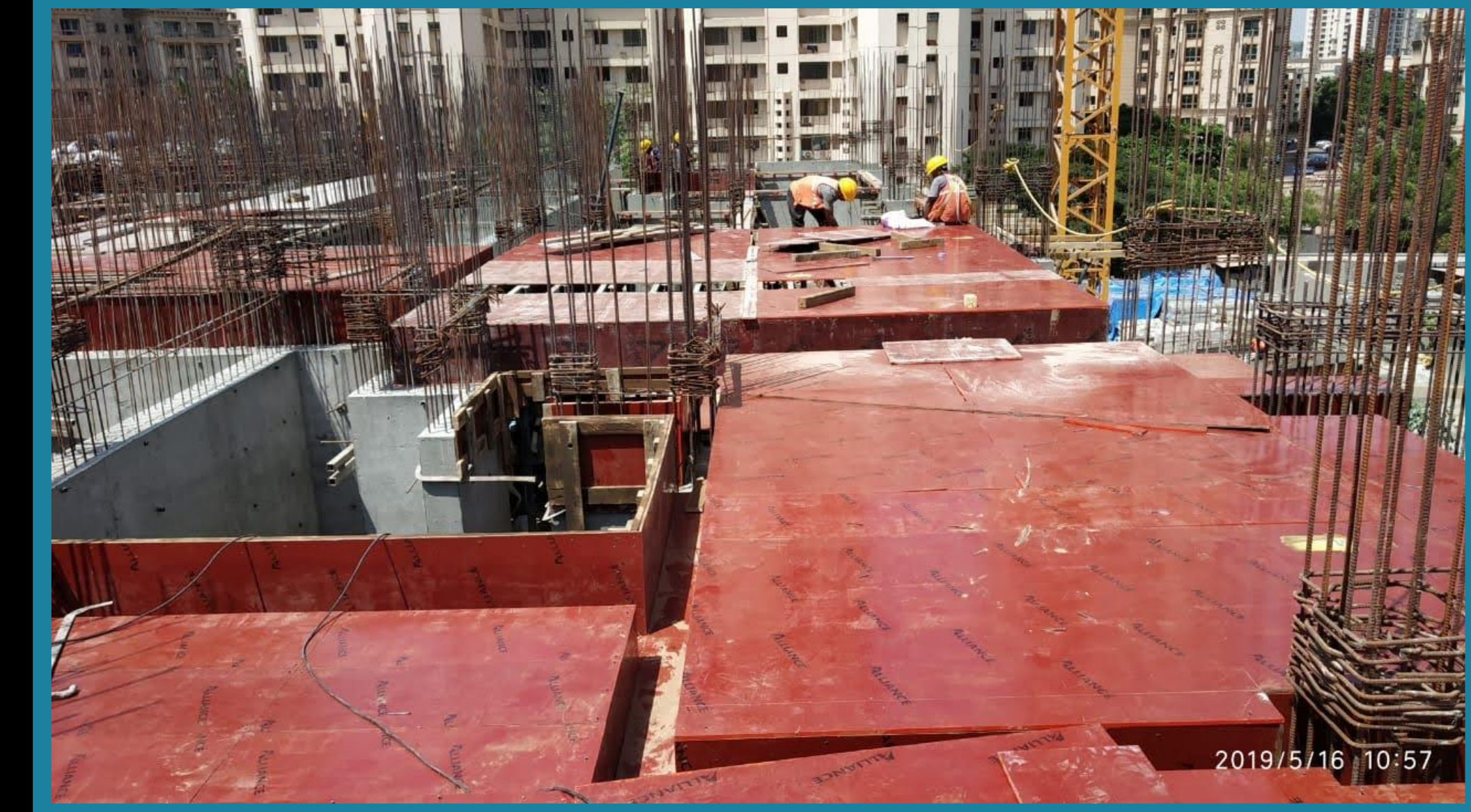
- Centering is a temporary arrangement & part of formwork which is arranged to support **horizontal members**.
- In a technical point of view, the formwork for floor beams & Slabs is called as a Centering.

What is Staging?

- Staging is a temporary member which is used **to support formwork** (either it may be for centering or shuttering).
- It is done by props, jacks, H frames, cup lock system, wooden ballies, etc.

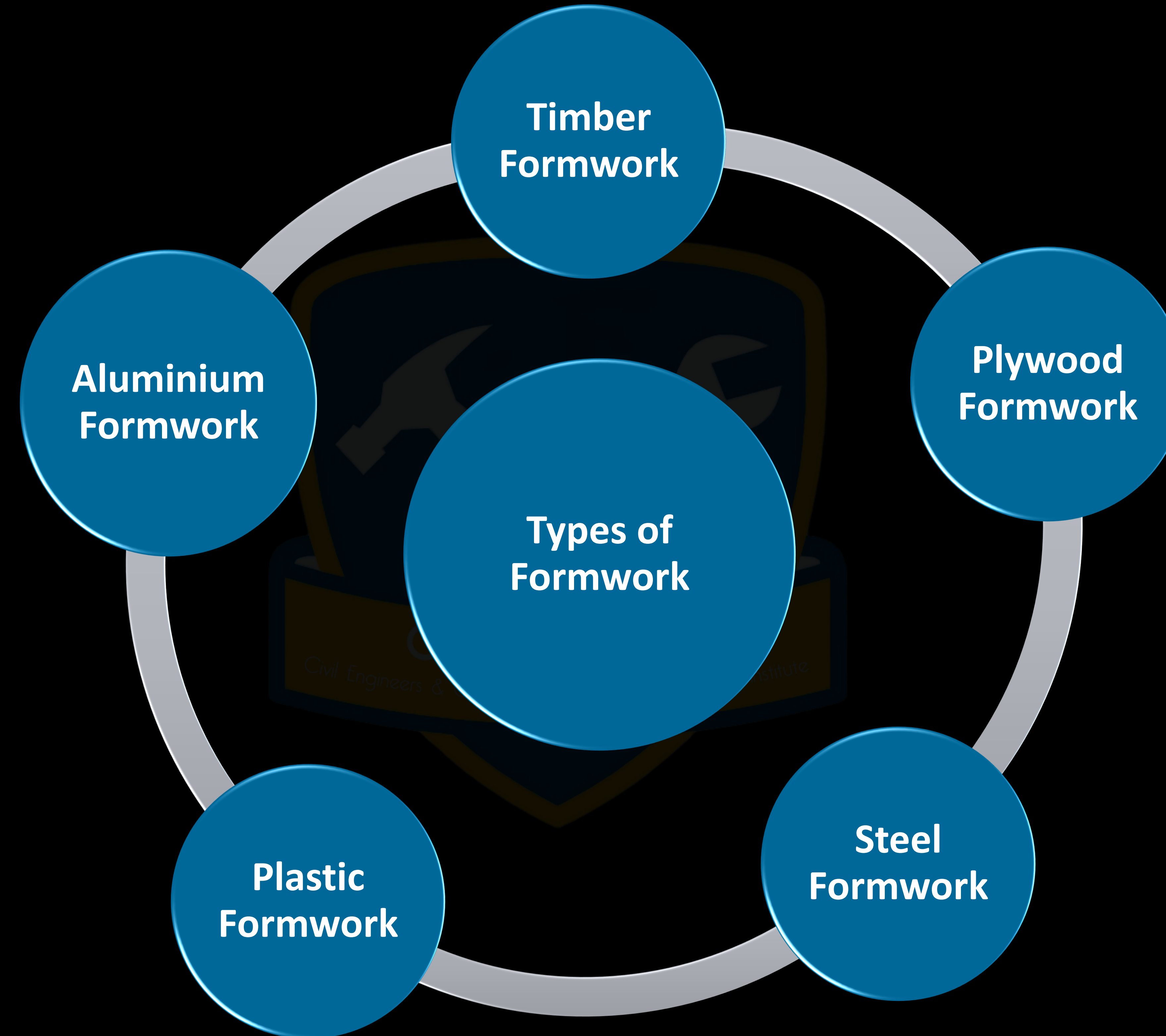
What is Scaffolding?

- Formwork is arranged to support the structural members, whereas scaffolding is provided as a **workers platform** around the building to work at heights, Scaffolding is a movable/fixed platform refer below image for more details





TYPES OF FORMWORK



History of Aluminium Formwork

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- First Developed by Canadian Engineer '**W.J. Malone**' - **1970**.
- Production started on large scale - Malaysian Company '**Mivan**' - **1990**





Overseas Vendor (50%)	Domestic Vendor (50%)
MFE Formwork (Malaysia) 	Cosmos (Pune) 
Kumkang Kind (Korea) 	Knest (Pune) 
S-form Aluminium (Korea) 	Ihita Formwork (Bangalore) 
Hyundai (Korea) 	Technocraft (Delhi) 
	Winntus (Pune) 



India Aluminium formwork system Market Size :

Particulars	2021	2028
Market Size	\$ 5.6 Billion	\$ 7.4 Billion
Demand	1 lakh MT	1.32 lakh MT

