



**FORMWELL**  
Formwork Simplified!



**FOCUSSED**



**ORGANIZED**



**RESULT  
ORIENTED**



**MODERN  
APPROACH**



**WISE  
DECISIONS**



**ENERGETIC**



**LOGICAL  
SOLUTIONS**



**LEADER**



# INTRODUCTION

Formwork may be defined as the temporary structure that helps in molding the concrete into the desired shape and helps in holding it in exact size, shape and position till it is hardened properly to bear the loads impended on it. It is an effective means of curing also. The construction industries place a vital role in the development of country. In India, it contributes about 8.3% of national growth GDP. Construction industry involves various resources such as man power, machinery, money, materials. The materials itself contributes 30% of overall cost of the project. Form work is the one of the important material in construction site which affects the quality and safety. There are different types of formwork systems such as conventional timber Formwork system, Re-Usable Plastic /PVC/Aluminum Formwork System, Table Form/Flying Form systems, Jump Plastic /PVC/Aluminum Formwork System which lacks in quality and safety of works. Other technologies such as pre fabrication, table formwork and jump formwork etc. ...can be used in construction which improves the quality of the work and decreases the cost of the project. But in India, we are not adopting the above mentioned due to lack of knowledge and lack of skilled labor. Formwork system plays an important role on cost, time and quality in the venture conveyance. Yet at the same time most recent formwork frameworks are hardly any utilizing in India and the majority of the developers don't prefer to pick the ongoing innovation as they have the uncertainty of confronting misfortunes in the venture. At the same, time they believe that these formwork systems are much expensive.

**FORMWELL is committed to bridge the formwork skill gap and provide the most efficient formwork solutions with best in class quality, Safety and Economy.**



## VISION

To become a benchmark company providing the most qualitative, safe and economical formwork solutions all under one roof.



## MISSION

FORMWELL is committed to deliver the best in class specific formwork solutions for Indian construction sector and be a major contributor in growth of Indian construction industry by bridging the formwork skill gap.



## VALUES

Commitment | Trust | Integrity

Born in 2019, FORMWELL is a forward-looking company focused on Formwork Consultancy Services that are needed in the 21st century for the Construction Sector in India. We pride ourselves in offering end to end formwork solutions all under one roof right from the tendering stage till project completion with the knowledge, skill and expertise of our team having national and international exposure of 15+ years in the field of formwork – accurately delivering successful formwork solutions to customers all over India. Valuing the importance of relationships, we have a collaborative approach that is flexible and provide a win-win situation to our clients.

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Founded upon our core values of Commitment, Trust and Integrity, we ensure quality work within the specified budget and time. We also provide tailored services adopting a logical, structured, professional and effective approach. In addition, as a formwork consultancy firm, we are fully prepared and are able to work in a post COVID world. Well -versed with working and connecting from remote locations, the team is fully capable of working with vigor and efficiency during any future lockdowns following all hygiene measures and compliances from an uber safe work environment.

FORMWELL is a committed team of seasoned and qualified business professionals capable of meeting all the formwork requirements of our prestigious clients under one roof. We render services right from Tendering till project completion in complete or individual packages. The sequential work helps to monitor the project right from tendering stage by tracking the productivity and cost closely to ensure the project is completed in desired quality, economy and Safety parameters

Having national and international expose of the market trends across the globe and having being witnessed the formwork revolution in India. FORMWELL is well equipped and committed to partner our clients in:





# Our Expertize

- ❑ Overall project Scope
- ❑ Deployment analysis
- ❑ Project Planning
- ❑ System selection
- ❑ Budgeting

## Tendering

- ❑ Detailed formwork schemes
- ❑ Design calculations
- ❑ Fabrication Drawings
- ❑ Methodology

## DESIGNING

- ❑ System selection
- ❑ Techno commercial Comparisons
- ❑ Component dwgs. & specifications

## Procurement support

- ❑ Detailed Formwork plan
- ❑ Material movement plan
- ❑ Method statements

## Methods & Planning

- ❑ Various Modules for foremen, supervisors, Engineers & Managers
- ❑ Customized trainings as per Training need analysis (T&A)

## Trainings

- ❑ Formwork material audits
- ❑ Physical asset verification
- ❑ Redesigning & refurbishing of aluform

## Asset Management

- ❑ Work done: planned Vs Achieved
- ❑ Monthly MIS
- ❑ DPR
- ❑ Material & Manpower productivity

## Project Management

- ❑ Safe & Economical formwork systems
- ❑ Design & supply of project specific formwork
- ❑ Futuristic asset building

## Material Supply

## STEP 2

### Detailed Packing list

- As it is / Modification / New procurement
- Fabrication Drawings for new material



## STEP 4

### Unit-wise Handover



## STEP 1

Optimized design considering maximum utilization of available assets



## STEP 3

On-site/ factory works  
Cleaning (Water /jet/chemical)  
Chipping / Modification Lacquer coating



## STEP 5

Successful mock-up using modified and new procured material

# Aluform Management



**Expert Re-designing**  
Shell plan/shop dwgs/Fab. dwgs



**Detailed Packing List**  
As it is/ Modification/New



**Cleaning/Modification/  
Procurement**



**Handing Over**



**Mock-up**



***“Give a Man a Fish and You Feed Him for a Day.  
Teach a Man to Fish and You Feed Him for a Lifetime”***

## ALUMINIUM MONOLITHIC FORMWORK

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- Concept of Monolithic construction
- Advantages of Monolithic formwork
- Application areas
- Limitations
- Knowing the components
- Typical slab cycle study
- Manufacturing process and tolerances
- Yard setup and bifurcation
- Planning and setup
- Setting out and Assembly process
- MEP works in monolithic concept
- Dismantling process
- Safety provisions
- Dos and Don'ts

## FORMWORK TENDERING

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- Types of projects
- Project details with case study
- Understanding client requirements
- Deriving formwork scope for various types of project
- Understanding cycle time concept
- Factors affecting the selection of formwork systems
- Analysis of best suited formwork systems for the project
- Selection of best suitable formwork system
- Quantity of formwork to be deployed on project
- Asset procurement vs cost loading over particular project
- Formwork planning and material movement
- Formwork budgeting

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## FORMWORK DESIGNING:

- Types of formwork from design point of view
- Advantages and disadvantages of system from design point of view
- Types of loads acting on the formwork/scaffold
- Behavior of loads on supports.
- Concept of formwork designing and its application
- Usage of Indian steel table in formwork design
- Indian standard Codes for formwork designs
- Indian standard codes for various formwork material (Assets)
- Indian standard codes for various consumable items (Plywood, timber etc.)
- Types of concrete and its effect on formwork
- Calculating design pressure and factors affecting it
- Causes of formwork

## SCAFFOLDING AND SAFETY

- Importance of a scaffold
- Learning OSHA and standard EHS Guidelines
- Understanding PPE's
- Scaffold's safety: Types of scaffolds and its applications
- Ladder safety: Types of ladders and its applications
- Safety while scaffold erection
- Safety while scaffold dismantling
- Safety while Material handling
- Working at heights
- Safe material stacking practices
- Dos and Don'ts

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## PRODUCTIVITY: (Manpower & Material)

- Understanding the contract document
- Factors affecting productivity
- Responsibilities of sub-contractor
- Understanding the formwork scheme, material BOQ and design
- Issuance of formwork material
- Supervising sub-contractor's work
- Inspection
- Job allocation ensuring right person on right job
- Job types and shuttering rates
- Formwork Bill checking
- Formwork wastages and its causes
- Training the sub-contractors
- Dealing with formwork asset loss by sub-contractor
- Proper distribution/ optimum utilization of resources

## MODULAR FORMWORK SYSTEMS AND LATEST TECHNOLOGIES:

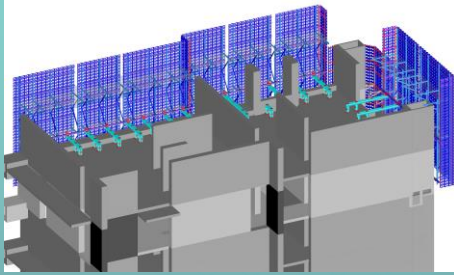
- What is a Company asset?
- Types of formwork assets
- Project specific formwork (Non-asset)
- Conventional Formwork
- Aluminum monolithic formwork
- Plastic monolithic formwork
- Tunnel monolithic formwork
- Modular Panel formwork of various types for verticals
- Modular Panel formwork with drophead mechanism for Slabs
- Modular formwork for beams
- Flex formwork
- Table formwork
- Climbing technology
  - Jump form • Rail climbing • Hydraulic climbing • Automatic climbing • Slipform



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**TRAINING CELL**





### EPS: Edge Protection Screen

In-house designed most economical solution for Edge Protection Screen (Crane Climbing)

- Light Weight
- Choice of on-site fabrication or factory made
- Easy assembly & Dismantling



### Tri-Frame Formwork

In-house designed most economical solution for single sided retaining wall

- Light Weight
- Manual or Crane Operated
- Easy assembly & Dismantling



### Plywood + Hbeam Formwork

In-house designed unique solution for curved surfaces

- 18mm plywood bent to desired curves
- 6m high single shutter
- Fair Finish requirement





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**GOEL GANGA DEVELOPMENTS**





# CONTACT

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**THANKS**