

Modular Formwork Systems for Every Construction

Head Office: Mumbai, Maharashtra
Branch Office: Kochi, Kerala

Engineered | Efficient | Modular | Reliable



Buildings

Infrastructure



Industry

We **B**UILDING **I**NFRASTRUCTURE **I**NDUSTRY **BII Formtek Pvt Ltd** are into Formwork & Scaffolding industry, founded in 2019.

Extensive experience into providing formwork /Scaffolding solutions for the Buildings, designing of Sub/Super structure of Infrastructure and Customize solution in Industrial Segments.

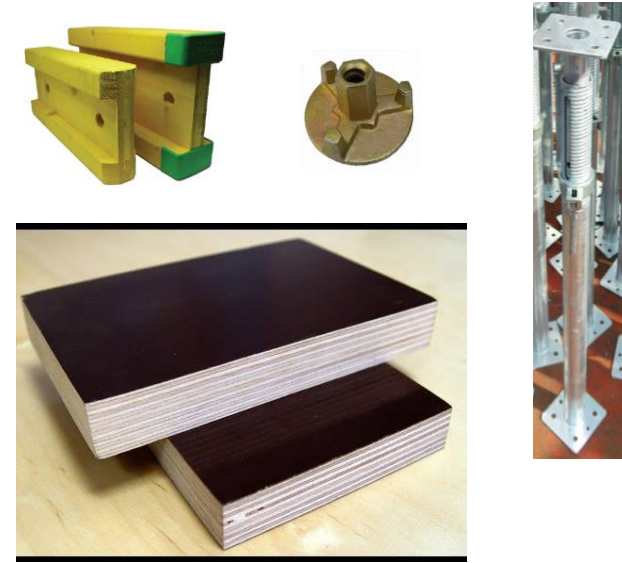
We have world class manufacturing facility, provide excellent quality products. Facility spreads over 18,000 Sqft.



Walls / Columns
LIRO Panel Formwork
ACIERISE Panel Formwork



Slab & Beams
Quick Flex Formwork System



Accessories
Plywood, Props,
H20 Girders



PIER Solutions



PIERCAPS
I, U, T Girders



GIRDERS
(Shortline & Longline)



FRP Solutions

LR70 Panel Formwork System



Light Weight | 38 kg per Sqm



High Performance | 70kN/sqm
concrete pressure



Easy Assembly/disassembly |
Crane independent



Cost Effective & Economical



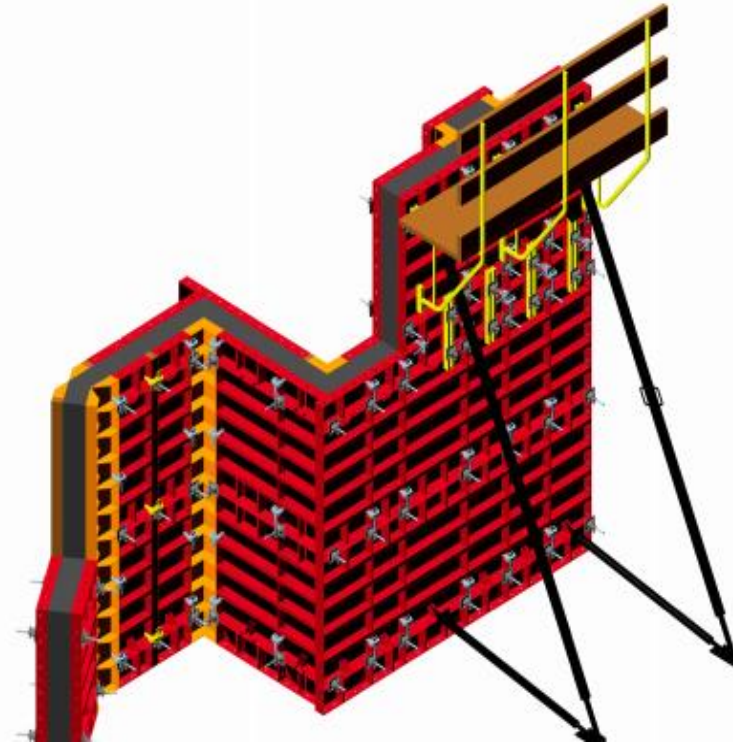
High Repetition with 12mm
120/220 GSM Plywood



Robust System | Designed with
High Grade Steel for Long Life



24 x 7 Technical Support



All multipurpose panels will
ensure broader adjustability



Special alignment adaptors with
local prop will ensure cost
effectiveness



Easy clamping will ensure proper
connection and alignment of
panels



Various panel sizes will ensure
better adaptability



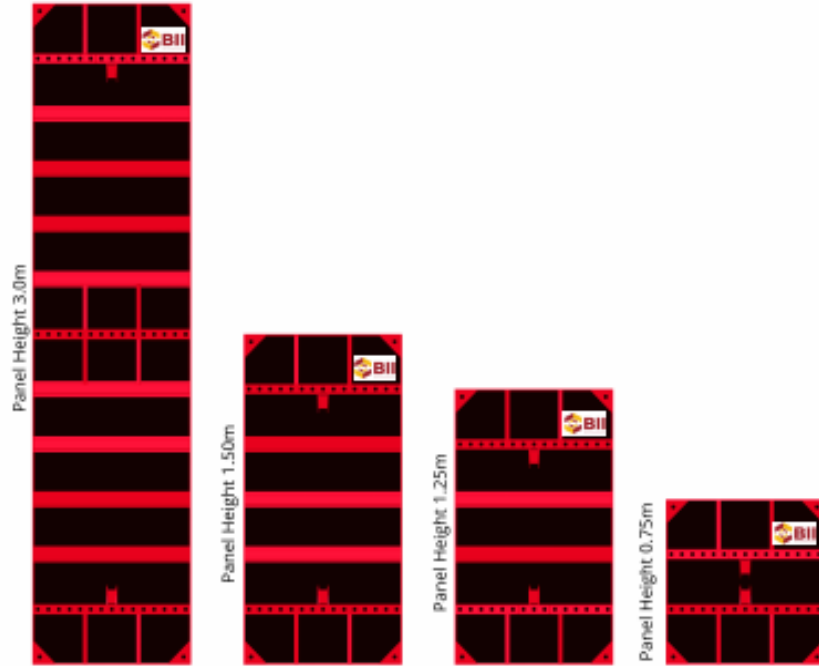
Various angular portions can be
easily formed with hinged
corners



Walkway platforms with handrail
post will ensure safe working at
site.

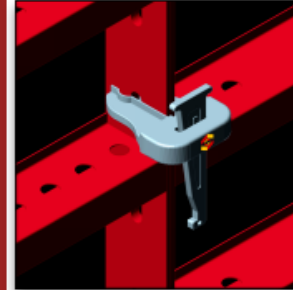
LR70 Panel Formwork System

Panel Heights: 3.0, 1.50, 1.20, 0.75



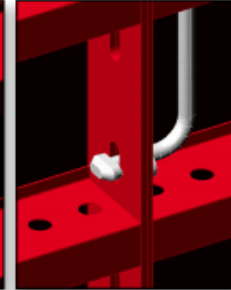
LR-70 Components

Panel Connection



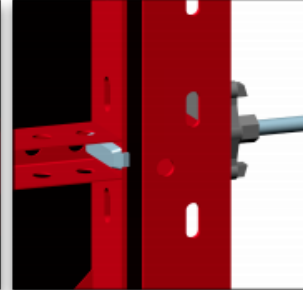
Alignment Clamp

- Ensures panel alignment and clamping



Handle Lock

- Panel connection
- Easy & Simple



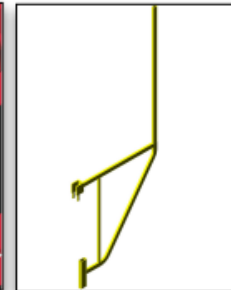
Corner Connector

- To form 90° angle
- Easy & Simple



Filler Clamp

- Connection of panels for filler upto 50mm

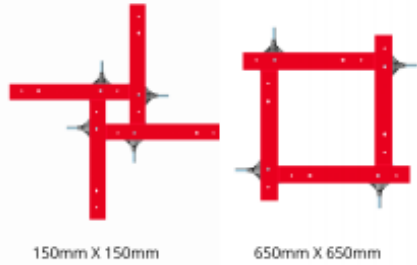


Concreting Platform

- Concreting purposes!

Vertical Construction Applications:

1. Columns

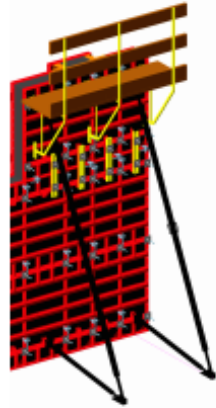


Minimum Size & Maximum Size can be formed using same panels.

All Panels are Multi-Panels.

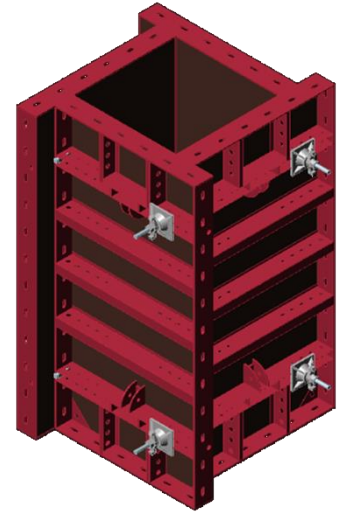
Max. Rate of Pour: 3.80 m/Hr*

2. Shear Walls

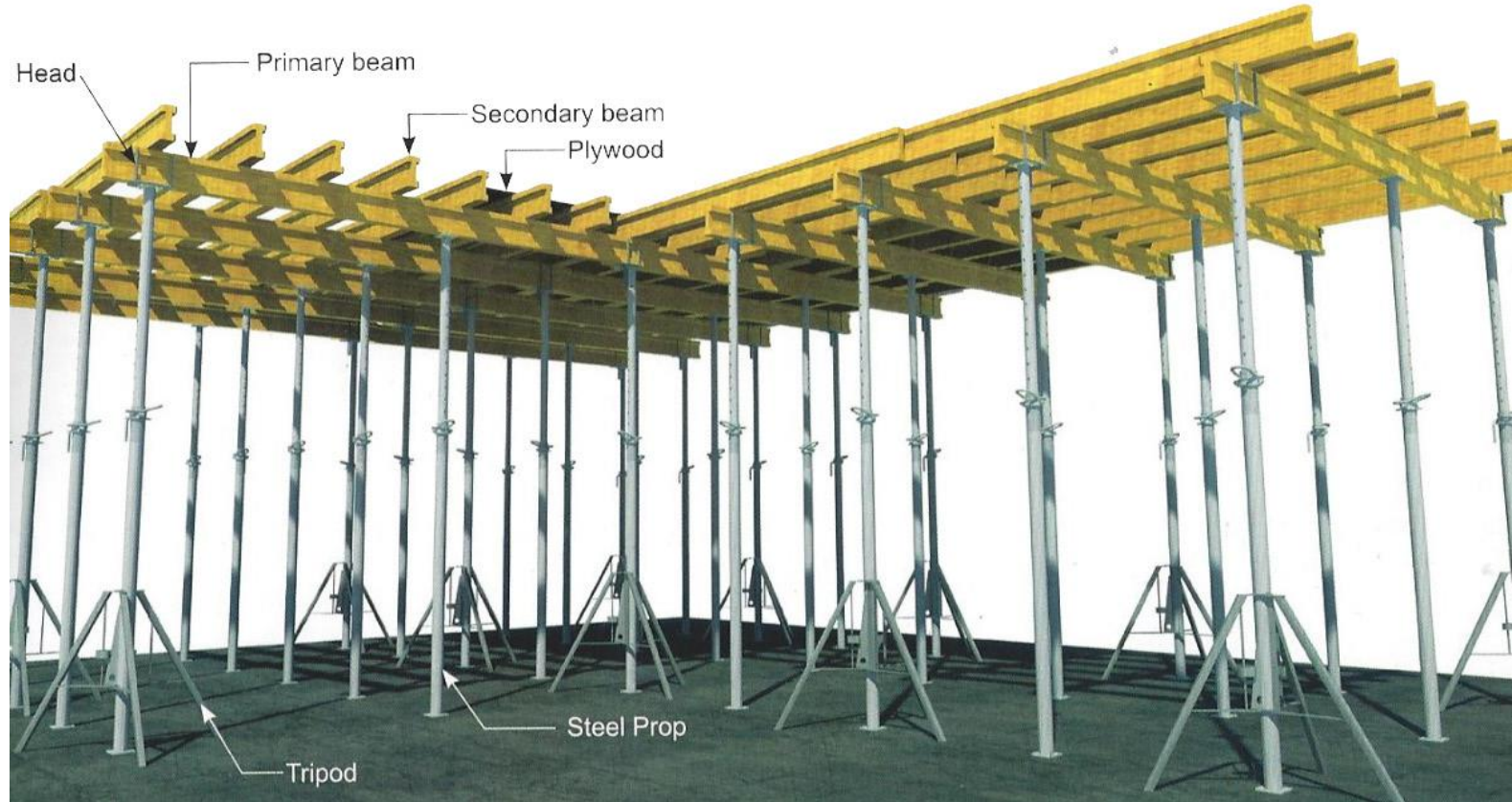


Maximum Wall Height: 6.0m

Max. Rate of Pour: 2.00 m/Hr*





Quick Flex Slab Formwork System



Quick Flex Slab Formwork System

1. Quick Flex can be used for any Lay out
2. Secondary & Primary Members are to be arranged as per Lay out.
3. Props or Cup lock can be used for various floor Heights
4. The System can be designed for any slab thickness
5. Easy to assemble at site
6. Efficient manpower utilization at site
7. Optimized use of materials
8. For all surface requirements



Sr	Parameters	Wall Traditional Formwork	Wall System Formwork
1	Sketch		
2	Components / Material	<p>Sheathing Member – 8/12mm thick plywood Secondary – 50x100/50x75 timber batten Primary ISMC75 / 100 Traditional connections – Majorly Bolts & Nuts Supporting with local props / Munde, etc..</p>	<p>Sheathing Member – 12mm thick (imported) plywood Robust Engineered Steel Frame Easy Connections – Clamps Tie Rods – 5 MT (working capacity) Alignment props (only 1 side)</p>
3	Material Specs	<p>Plywood: High densified plywood Secondary: No structural parameters In consistency in quality due to varying moisture content & particle composition.</p>	<p>Plywood: Birch plywood / equivalent with 120 GSM phenolic resin Robust Frame: designed to take 70kN/sqm of concrete pressure</p>

Sr	Parameters	Wall Traditional Formwork	Wall System Formwork
3	Material Specs	Primary: Heavy Secondary Members – 10 Kg/Rmt Requires planning & cutting at site before use Less repetition No standard Heights & widths.	No cutting operations are required for the panels except for the filler areas. Available in standard Heights & widths.
4	Operations	Unsystematic as no design parameters or technical drawing available during erection. Needs to handle the heavy beam at various heights. On site cutting operation requires for both timber and steel channels. More components to handle	Very systematic as engineered product. Execution drawings available during erection. No on-site cutting operation requires. Less components to handle
5	Man Power & productivity	Requires skilled workforce to handle the material. Productivity → 4-8 Sqm per man-day Total man power requirement is more.	Requires semi-skilled workforce to handle the material. Productivity → 15-20 Sqm per man-day Total man power requirement is less.

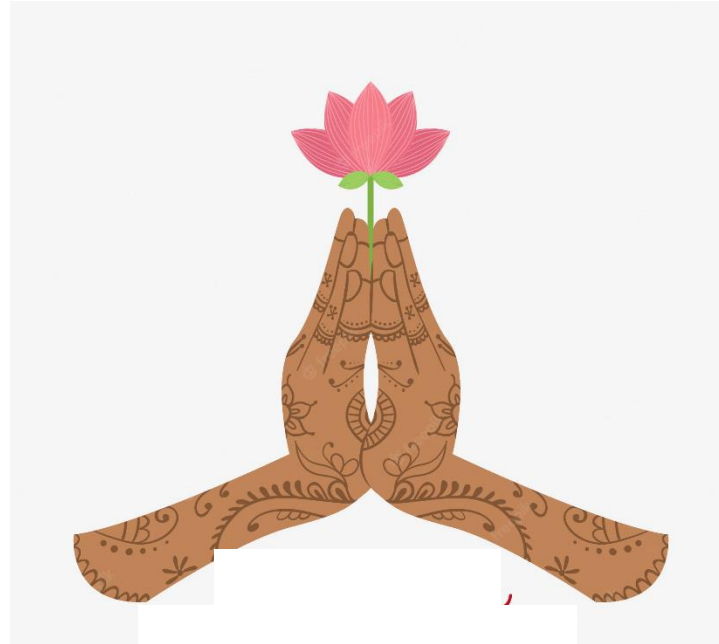
Sr	Parameters	Wall Traditional Formwork	Wall System Formwork
5	Safety	Unsafe as there are no specific load capacity defined for the components.	Safe as pre-engineered components.
6	Cost Impact Labour	Considering avg. Labour cost = Rs. 500/- per man-day Labour cost = $500 / 8 = \text{Rs. } 62.50 / \text{Sqm}$ For 100 Sqm & 50 repetitions: Lab. Cost = $100 * 62.5 * 50 = \text{Rs. } 312,500/-$	Considering avg. Labour cost = Rs. 500/- per day Labour cost = $500/20 = \text{Rs. } 25 / \text{Sqm}$ For 100 Sqm & 50 repetitions: Lab. Cost = $100 * 25 * 50 = \text{Rs. } 125,000/-$
7	Cost Impact (only panels, clamps, ties) Material Repetition	Considering Area = 100 Sqm Cost of Material – Rs. 5,000/- per sqm Investment = Rs. 5,00,000/- Repetition cost (60 times): A. Plywood: 6-8 times = 9 times changes B. Timber beam = 1 times changes C. Steel walers = no changes Additional Cost: Plywood: Rs. 585,000/- (ply @650 per sqm) + Timber: Rs. 172,000/- (timber @1000 per cft) + labour cost: 50% of material cost: Rs. 378,500/- Total cost: 1,635,500/- Repetition cost = $1,635,500/60/100 = 273 \text{ Rs/Sqm}$	Considering area = 100 Sqm Cost of the Material = Rs. 12,000/- per sqm Investment = Rs. 12,00,000/- Repetition cost (50 times): No alteration or changes requires. Repetition cost = $12,00,000/60/100 = 200 \text{ Rs/Sqm}$ <h2 style="color: blue; text-align: center;">Saving~36.50%</h2>

Site Photos



Site Photos





Thank you