

## Morpheus on Top:

Morpheus successfully completed the structure of the Tallest Residential Building (TVH - Ouranya Bay) in Padur, Chennai. The structure has a special feature as it was constructed with Advanced construction technology formwork system (Mivan Formwork) and Helipad on the terrace of the Structure.

The Structure received a Special Award



## ADVANTAGES OF MIVAN FORMWORK SYSTEM

### *Building strength and durability*

All walls are reinforced concrete providing much greater stability than columns with brick walls.

The walls and floor slabs are cast at the same time so there are no weak joints.

Wall surfaces are concrete which do not crack like plaster and maintain a smooth surface for a much longer time.

### ***Quality of finished building***

Precisely manufactured formwork allows concrete to be cast to exact dimensions as designed.

Daily repetition of the same work means that work teams become very efficient to complete their work accurately (as in factory production) and to a high standard.

All door and window openings are formed to precise dimensions which allows perfect fitting of the frames.

Many services, like water supply & some waste pipes and electrical conduits, can be cast into the concrete where it is protected and not visible.

### ***Speed of construction***

A large amount of work can be completed in each daily work routine which means the structure is complete much faster than traditional formwork.

The daily work routine guarantees the target completion dates are achieved.

All of the walls can be formed at the same time so there is no time needed for brick laying and plastering.

After the concrete is cast finishing works like window fixing, wall tiling and plumbing work can be installed immediately.

Many of the finishing items can be prefabricated away from the site because of the accurate dimensions of the concrete work, so installation on site is much faster and at less cost.

### ***Efficiency and cost saving***

The fast production method completes the project in shorter time which saves on site running, operating and financing costs.

Smooth concrete surface means a thin skim coat can achieve a very smooth wall finish with a small labour force.

Much of the structure is cast in concrete by a small group of workers, so no labour is

needed for building brick walls or plastering. Accurately manufactured formwork means it fits into position exactly and does not have to be adjusted each time so it doesn't waste formwork or concrete material.

Prefabricated finishing items means less skilled workers are required on the site. Formwork panels are light and do not need capital cost for heavy cranes for lifting.

### ***Financing costs***

Fast project completion saves financing charges as the buildings can be transferred to the owners much earlier than traditional methods

### ***Environment-friendly***

No timber is used and all aluminum panels are used many times before being recycled to make other products.

The experience gained in this project is a value addition to the team in respect of achieving the objective of Project Management Consultancy.

### **As Built Photo of the Project:**



