

## Nav Nirman's H-Beams

### An Efficient, Safer, and Economical System



**Project:** Riverside Mall

**Client:** Marg Ltd

**Challenge:** To complete the Project in the limited time by getting a good Concrete finish.

**A** riverside Mall project was coming up in Chennai with a built in space area of more than 1 million sqft, one of the largest in the city. The Client wanted to go for the Formwork System, which best suited their requirement of completing the project in less time and get a good concrete finish keeping the investment intact.

After a thorough research, the Client decided to go with the Timber H-Beam Formwork which comes in the range of H-12 Beam, H-16 Beam, H-20 Beam and H-24 Beam and is relatively easy to handle, as they are less in weight and also ready to use, as no making is required.

The section of the H-Beam is "I" shaped which makes it structurally strong and economical in the long run due to high number of repetitions. It is manufactured at par with International Standards under strict quality control and quality assurance to withstand various loads during the construction of various activities. These H-Beams along with the scaffolding forms a part of the

Formwork system that has been in high growth due to the rise in the number of highrise structures (residential, commercial and Industrial) and mega infrastructure projects including Water – Resources Engineering, Transport Infrastructure (Road & Bridge), Stadiums and Sports Building Construction.

H-Beam is a unique introduction to overcome the cumbersome and costly procurement of timber. It has been designed to withstand multiple loads during construction activities. The members are made of seasoned ply by making the web and flange section of seasoned Pine Wood imported from Europe so as to make Timber H-Beam stronger and denser. Both the flange and web are hot processed by the wedge technology making it a composite versatile section. It is used for Column Box, Formwork Making, Circular Column, Wall Shuttering and for Beam Span Base Support.



Timber H-Beam formwork gave the clients the desired result with the execution of the Project happened in less time and added advantage of minimal Labor cost. They also found out that this system was very easy to use and the workers were easily adopting the system. Being dimensionally stable, it gives uniform Concrete finish. Also the investment made in this formwork is less compared to the other type of Formwork System, which enabled the Client to keep the cost low. These benefits enable the Project to be implemented without any hassle.

Nav Nirman Beam Technics, the leading manufacturers and Exporters of Formwork H-Beams in

India, was the sole supplier of the Formwork H-Beams for this Project. The company with its experience in wood over three decades is the leading brand in manufacturing H-Beams. It was observed by Nav Nirman that in order to reduce the investment cost, many construction companies engineers preferred to go separate way by purchasing Timber H-Beams from one supplier and scaffolding items to another. In India, there are many suppliers of scaffolding items but when it comes to Timber H-Beams, there are very few, as there is a need of a proper technical expert in the field of wood. Hence Company's main objective is to expand the original value chain of round timber by way of cut timber

and to widen and optimize the application thereof.

### **Salient Features of H-Beam:**

- ◆ Reduction in consumption of timber
- ◆ Making work at site minimized
- ◆ No. of reuses - more than 8 times that of conventional timber
- ◆ Dimensionally stable and uniform in size
- ◆ Consistent in strength
- ◆ Cost ratio per use, H-16 beam conventional timber = 1:3.5
- ◆ Economical and long - lasting

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