

# CONSTRUCTION OF HEADQUARTERS: INSTITUTE OF ARCHITECTS PAKISTAN (IAP), KARACHI

The Institute of Architects Pakistan (Karachi Chapter) recently completed the construction of a 3 storey office building using **IIL's Hollow Structural Sections (HSS)**. The use of IIL's HSS in an Architect led, high scrutiny project such as this, lends even more credibility and strength to the innovative structural section introduced in Pakistan by International Industries Limited (IIL)

## PROJECT:

To build a three storey, 12,000 sq. ft. building using **IIL's Hollow Structural Sections (HSS)** in Karachi, Pakistan.

## OBJECTIVES:

- ⊗ Aesthetic value upon completion
- ⊗ Fast & non-disruptive project completion.
- ⊗ Durable, cost effective & stable solution.
- ⊗ Flexibility for further expansion.



## CHALLENGES & SOLUTIONS:

CHALLENGES	SOLUTIONS
- A platform was needed to connect a pre-existing RCC structure with the upcoming HSS structure.	- Hollow Structural Sections were seamlessly incorporated into the design. HSS is compatible with concrete which made it easily possible to connect the two structures.
- Transportation of completed trusses to construction site was difficult due to their size.	- Trusses were fabricated & welded on-site.
- Due to the pre-existing structure present and congestion on site, construction work was difficult.	- Appropriate planning, project management and communication between all parties resulted in seamless work construction.

## MATERIAL:

- ⊗ 10"x10" IIL HSS were used as columns.
- ⊗ 8"x8" IIL HSS were used as columns & beams.
- ⊗ 4"x4" IIL HSS were used as purlins.
- ⊗ ISL corrugated sheets were used for roofing

## EXECUTION:

The structure was erected in less than 2 months which included the erection of columns, installation of trusses, purlins and decking sheets. Two cantilevered sections were added to the front and sides of the building to extend an aesthetic value to overall structure.

During construction, Architect visits took place on an almost weekly basis during which Architects marvelled at the speed of execution.



## ACHIEVEMENT:

- Completion of structure within the committed target date.
- Architectural community satisfaction & buy-in.

## PROJECT VIDEO:

To watch the video, kindly visit our exclusive HSS section on our website | [www.iil.com.pk/HSS](http://www.iil.com.pk/HSS)



## ABOUT THE COMPANY

International Industries Limited (IIL) is Pakistan's largest manufacturer of steel, stainless steel and plastic pipes with an annual manufacturing capacity of 740,000 tons and annual revenues of Rs. 25 billion.