

India-Japan Seminar on Advantages of Using Steel Structures in Buildings and Infrastructure under India-Japan Steel Relations Program

In cooperation with Ministry of Steel, India

Entrusted by Ministry of Economy,
Trade and Industry (METI), Japan

Organized by The Association for Overseas Technical
Cooperation and Sustainable Partnerships (AOTS)

Information Booklet

12-13 March, 2019

Indian Institute of Technology Bombay



इस्पात मंत्रालय
MINISTRY OF
STEEL



India-Japan Seminar

on

Advantages of Using Steel Structures in Buildings and Infrastructure under India-Japan Steel Relations Program



Venue: Victor Menezes Convention Centre, IIT Bombay

Date: 12-13 March, 2019

Objective:

The use of steel structure in industrial buildings and infrastructure projects like bridges, stadium, offshore projects, railway etc, is widespread and merits of the steel structure over RC structure due to enormous advantages over lifecycle has already been established. However, the use of steel in residential and commercial buildings in India has not gained much popularity whereas other countries are continuously shifting to steel based design. Japan is one of the leading countries where the use of steel in buildings and structures in all applications have increased considerably. To share the experience of Japan in promoting the use of steel in buildings and infrastructure and its advantages, a 2-day seminar-cum-workshop is being organized by the Japan Steel Industries with the support from the Ministry of Steel, India and IIT Bombay under the India-Japan Steel Relations Program. This shall provide an opportunity for designers, manufacturers, fabricators, architects and structural engineers, business entrepreneurs, etc. to exchange views and explore opportunities for promoting steel based designs.

The seminar shall be addressed by highly experienced specialists in the field from Japan besides representation of the top companies engaged in manufacturing and fabrication. This shall also provide opportunities for business discussions between India and Japan.

Expected Outcome

- Understanding advantages of using steel structure over life cycle
- Identifying gaps on the availability of ranges of steel sections and products to optimize design
- Design philosophy adopted by Japan for optimizing cost and minimizing construction time
- Safety practices in steelmaking and fabrications
- Demand creation and increasing steel growth as envisaged in the National Steel Policy-2017
- Design for special purposes buildings like earthquake resistant buildings, marine structures, affordable housing, etc.
- Requirement of special steel and sections for optimizing cost
- Specifications and standards for steel oriented buildings
- Advance fabrication and pre-fabrication methodology in steel buildings

PROGRAM DETAILS

Time	DAY 1 (12/03/2019)	
9:00-9:30	Registration	
9:30-9:40	Welcome Remarks	Siddhartha Ghosh, IIT Bombay
9:40-10:00	Opening Remarks	Tadayoshi Hiraki, Ministry of Economy, Trade and Industry, Japan Ruchika Chaudhary Govil, Joint Secretary, Ministry of Steel, India
10:00-11:30	Advantage of Steel Structure: <ul style="list-style-type: none"> • Demand Creation for Steel Structure • Need of Optimized Steel Sections and its • Characteristics Experience of Japan Steel Structure Society • Question & Answer 	Noriaki Watanabe, JSSC, Japan
11:30-11:45	Tea Break	
11:45-12:15	Use of Steel Structure in Buildings in India -- Case Studies 1 & 2	BVS Viswanadham, IIT Bombay, India D Dutta, INSDAG, India
12:15-12:30	Use of Software in the Design of Steel Structure	Siddhartha Ghosh, IIT Bombay
12:30-12:45	Question & Answer	
12:45-13:45	Lunch	
13:45-15:15	Advantage and Application of Steel Buildings for: <ul style="list-style-type: none"> • Earthquake Resistant Buildings • Construction Materials in Steel Buildings • Standards and Specifications for Building Materials • Question & Answer 	Koji Oki, JFE Steel, Japan
15:15-15:30	Tea Break	
15:30-17:15	Application of Steel – Bridges and Infrastructure <ul style="list-style-type: none"> • High Strength Steel in Bridges • Weathering Steel • Material Standards and Specification • Question & Answer & Case Studies 	Yasuyuki Kurihara, JFE Steel, Japan
17:15-17:45	Beauty in Steel Bridge and Some Aspects of Steel Bridges Relevant to India	H Subbarao, Construma Cons., India

Time	DAY 2 (13/03/2019)	
9:00-10:45	Recent Development of Facilitating Safety Measures in the Japanese Steel Industry	Shinji Matsumoto, JISF Japan
10:45-11:30	Safety in Steel Industry: Steel Making and Manufacturing (Panel discussion & Q&A)	Dupont, NSC, E&M, IIT Bombay, Japan
11:30-11:45	Tea Break	
11:45-13:00	Japanese Business Activities in India	Shigeo Asano, MD, JFE Steel India
13:00-14:00	Lunch	
14:00-15:15	Expectation and Opportunities in Steel Market in India	Testuro Kariya, Mahindra Sanyo Special Steel Japan
15:15-15:30	Tea Break	
15:30-16:15	Manufacturing of Steel Structures in India (Need for manufacturing high strength steel structures)	Shekhar Ghate, Optimal Cons., India SR Satish Kumar, IIT Madras
16:15-17:30	Opportunities with Japan Steel including Automation in Manufacturing	Tohoku Special Steel, Japan
17:30-17:45	Japan Steel Policy - Learning	Tadayoshi Hiraki, METI, Japan
17:45-18:00	Closing Remarks	Ministry of Steel, India
18:00	Vote of Thanks	K Narasimhan, IIT Bombay