

HALF DAY COURSE

"DESIGN AND CONSTRUCTION OF PRECAST AND CAST IN-SITU SEGMENTAL BOX GIRDER BRIDGES"

{HRDF Claimable}

SPEAKER ; Ir. Dr. LOW HIN FOO



TRAINING PROVIDER

Closing Date: 23rd NOVEMBER 2020

NO online registration will be allowed after the Closing Date

Organized & Hosted by: Civil and Structural Engineering Technical Division (CSETD), IEM

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SPEAKER



Ir. Dr. LOW HIN FOO B.Eng (Hons) Civil, PhD (Structure), CEng MIStructE, MIEAust CPEng, MIEM PEng, ASEAN Eng, APEC Engineer, IntPE(MY)

Ir. Dr. Low Hin Foo araduated from University Malaya with an Honours degree in Civil Engineering. Since then he has more than 18 years of design and construction experience in various reinforced concrete and post-tensioned buildings as well as bridges both locally and abroad. He was the Technical Manager for prestressing specialist contractor, BBR Construction Systems, and he is currently the Principal Engineer for a design consultancy firm, OSD Consultants (M) Sdn Bhd.

Ir. Dr. Low has vast experience in the design and construction of long span bridges using precast and cast in-situ prestressed concrete segmental box girders (SBG) as well as integral bridges with drop-in spans. His bridge experience also includes the design and construction of cable-stayed and steel arch bridges. On top of that, he has extensive experience in the design of prestressed structures for large commercial projects and high-rise towers, particularly in handling the design of prestressed flat slab or flat plate systems with irregular column grids, including prestressed transfer plates.

He is currently working on research projects with Monash University Malaysia on the experimental and numerical studies on the prestressed transfer plates subjected to staged casting and sequential stressing. He is also actively involved in the training of engineers and undergraduates by conducting courses on the design of prestressed building and bridge structures.

SYNOPSIS

This topic provides an overview of the design and construction of concrete segmental box girder (SBG) bridge using precast and cast in-situ methods. During the talk, the advantages and limitation of the precast and cast in-situ segmental box girder bridge will be highlighted. Besides, the fundamental and design consideration of the concrete segmental box girder bridge will be highlighted. The typical prestress and steel reinforcement details for SBG and their erection method will be explained. The types of temporary work involved in the erection of the cast in-situ segmental box girder as well as the form traveler (bridge builder) for the cast in-situ segmental box girder will be presented. Some of the construction related matters like, temporary fixity system, box girder dimension control; precamber design and Christmas tree and the mid-span stitching will be explained.

PROGRAMME

Time	Topics		
9.00 a.m. – 9.05 a.m.	Welcoming & Introduction		
9.05 a.m. – 10.45 a.m.	 Session 1 Introduction to Segmental Box Girder (SBG) Bridges Advantages & Limitation of Precast vs. Cast In-Situ SBG Design and Detailing of SBG 		
10.45 p.m. – 11.00 a.m.	Break Time		
11.00 a.m. – 12.45 p.m.	 Session 2 Precasting & Erection of Precast SBG Construction of Cast In-Situ SBG Precamber Design & Midspan Stitching 		
12.45 p.m. – 1.00 p.m.	Break Time		
1:00 p.m. – 1:30 p.m.	Question & Answer Session End of Course (Participants, kindly fill in the IEM Survey Form. TQ)		

For further details, kindly contact:

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HALF DAY COURSE ON "DESIGN AND CONSTRUCTION OF PRECAST AND CAST IN-SITU SEGMENTAL BOX GIRDER BRIDGES" <u>28TH NOVEMBER 2020 (Via GoToWebinar PLATFORM)</u>

REGISTRATION FEE : 6% GST EFFECTIVE 01 ST MARCH 2019 (HRDF Claimable)					
	Online Fee	Normal Fee			
Student Member	RM 40.00	RM 50.00			
Graduate Member	RM 75.00	RM 90.00			
Corporate Member	RM 125.00	RM 150.00			
Non IEM Member	RM 240.00	RM 300.00			

No	Name(s)	Membership No.	Grade	Fee (RM)*
+ 6% SST				
TOTAL PAYABLE				

PAYMENT DETAILS :

Cash RM ____

<u>FULL PAYMENT</u> must be settled before commencement of the seminar, otherwise participants will not be allowed to enter the hall. If a place is reserved and the intended participant fails to attend the course, the fee is to be settled in full. If the participant failed to attend the course, the fee paid is non refundable. The Registration Fee includes lecture notes, refreshment and lunch.

For ONLINE REGISTRATIONS, please note that payment MUST be made BEFORE the closing date. If payment is not received within the stipulated time, the registration fee will be reverted to the normal registration fee.

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- The Organising Committee reserves the right to cancel, alter, or change the program due to unforeseen circumstances. Every effort will be made to inform the registered participants of any changes. In view of the limited places available, intending participants are advised to send their registrations as early as possible so as to avoid disappointment.