



## WEBINAR TALK ON

# “DEVELOPING A LOW-CARBON FIBRE PRECAST SEGMENTAL LINING MIX DESIGN FOR SINGAPORE’S TUNNEL”

**06<sup>th</sup> February 2024 (Tuesday)**  
**3.00 pm – 5.00 pm**

### **SYNOPSIS**

Fibre reinforced concrete (FRC) has been used in Southeast Asia since 1990. With the recent publication of the Singapore Standard SS 674:2021, the use of fibre concrete has now start to increase.

This comes at a time when low-carbon concrete solutions are also being actively promoted. Low-carbon FRC mix design for precast segmental tunnel linings took about 8 months to be developed. This webinar will present the challenges in developing this high performing, durable and low-carbon footprint FRC mix design.

It will also show that by developing a high performing FRC mix design, the performance can be confidently repeated during production ensuring a structurally safe and econmocolly sound precast segmental lining production.



### **SPEAKER**



**Mr Gan Cheng Chian** is the Technical Manager for Bekaert Singapore Pte Ltd. He is also a member of the Working Group on SS674-2021 since January 2019. Mr Gan is a Domain Expert for Sprayed Concrete and Fibre Reinforced Concrete under Intelligent National Productivity and Quality Specification Singapore since March 2019. He has also been serving as Vice-President of Society for Rock Mechanics & Engineering Geology (Singapore) since March 2021.

Mr Gan has 35 years of civil engineering experience and has been involved in over 22 sprayed fibre concrete tunnel linings and over 20 fibre precast segmental and cast concrete tunnel lining projects since 1998.

#### **Registration Fees**

**IEM Members : RM 15.00**

**IEM Non-Members : RM 70.00**

**CPD HOURS : 2.0**

**CPD REF NO :**

**IEM24 / HQ / 025 / T (w)**



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