



Engineering Council of India

CPD credit 5 hours

INTERNATIONAL  
WEBINAR



Construction Industry  
Development Council

## Microtunneling- A Pioneering Technique of Trenchless Technology family



Buddha Institute of Technology, Gorakhpur



**Expert:**

Er Cheng Kim Hua  
Principal, Ciwise Consultants

**Inaugural Speech:**

Dr P R Swarup  
Director General, CIDC &  
Member Secretary, ECI

**Valedictory Speech:**

Er B R Jain  
Sr Advisor  
Engineering Council of India

**Webinar Date:**

29<sup>th</sup> August, 2020

**Time:**

10:20 am to 12:30 pm  
(IST)

**Platform:**

Google meet

**Fee:**

**Total Rs 1180.00 (IR)**

(Participation & certification Rs 1000  
+ GST 18%)

**Bank Details:**

Construction Industry  
Development Council

Bank: Federal Bank Limited

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**Registration closing:**

28.08.2020, 08:00 pm (IST)

**Registration Link:**

<https://docs.google.com/forms/d/1ywk9o4AeFDluAnkk1AOW9-aRo4gKj-khI0zTeJf-Vk/edit>

## Expert:

Er. Cheng Kim Hua graduated with BE (Hons) from **Monash University, Australia** in 1976 and obtained his post graduate diploma in **Hydraulic and Land Development** from **Delft International Institute (Holland)** in 1982.

He has been in the engineering/construction works since 1976, totalling to **44 years** of involvement in the planning, design, and construction supervision and business development of engineering works including civil and infrastructures and trenchless structures.

Er. Cheng served as the **Vice President** of the **Institution of Engineers, Malaysia**, and **Board Member** of the **Highway Authority, Malaysia** and the **Board of Engineers, Malaysia**. He has also served on the **Continuing Education Committee** of the **PE Board, Singapore** and as the **Treasurer** of **Singapore Concrete Institute**. He was a **Board member** of the **Singapore Society for Trenchless Technology SgSTT**, and **Advisor** to **Malaysian Society for Tunnelling and Trenchless Technology (MSTTT)**

Er. Cheng is currently the **Principal** of **Ciwise Consultants** and **Director** of **JPL Consultants, O Liner Sdn Bhd** and **Alliance Water & Environ Sdn Bhd**.

## Webinar:

**Microtunneling and Pipe Jacking** is one of the pioneering **Trenchless Technology** technique that provides cost effective solutions to **subsurface on-grade pipeline construction** challenges. Subsurface space, however, poses different types of challenges that could lead to project failures at times.

These challenges could be due to three main causes, **geological, equipment, and tooling** linked, or a combination thereof. In some case, the project team **fails** to provide adequate inputs for these causes or deploys under-capacity systems, tunneling operations get stressed, leading to higher **consumables consumption**, damage to **equipment**, and to even tunnel or project failure.

To **overcome** these challenges, the tunneling crew must apply appropriate **good practices**, deploy **capable equipment**, use **efficient consumables** and **tooling** for successful project.

In this webinar Er. Cheng will **introduce** the concept of trenchless technology and its various techniques. He will also illustrate the applications popularly used to undertake such constructions. By some case studies he will **compare cost**, and **versatility** of some of these methods

## Coordinators:

**1. Ms. Pratibha Pandey,**  
**Sr. Executive, CIDC**  
**Mobile: +916306174153**  
**Email: ecigorakhpur@gmail.com**

**2. Er. Ankur Kumar,**  
**Assistant Professor, BIT,**  
**Gorakhpur**  
**Mobile: +919794849804**  
**Email: ankur495@bit.ac.in**