

IGS Mumbai Chapter

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Mumbai Chapter

WEBINAR on

Underground Excavations using Trenchless Technology – Overcoming Challenges in highly urbanised Areas

Date: 20th March (Saturday) 2021 at 11.00 AM

Speaker



Mr. Vidyadhar Vengurlekar
Chartered Engineer

Meeting link:

<https://kaksha.webex.com/meet/dasaka>

Synopsis:

Trenchless technology is increasingly being used as a viable alternative for underground excavations throughout the world. The conventional cut and cover method for laying utilities, though simple, poses several issues, such as diversion of the traffic, continuous pumping in high ground water table regions and associated settlement of structures in the vicinity, diversion of existing utilities, safety of workers due to soil collapse, cost and time overruns. This lecture covers the following aspects of the trenchless technology with regard to laying underground services in densely populated urban areas:

- Why trenchless technology
- Various techniques of trenchless technology for laying of new services
- Requirements
 - Geotechnical aspects
 - Physical site conditions
 - Products
 - Design aspects
 - Standards
 - Costing
- Challenges and issues and resolution
- Way forward

Bio-data of the speaker

Mr. Vidyadhar Vengurlekar received Bachelor of Engineering (Civil) Hons in 1986 from VJTI, Mumbai. He has been the pioneer of Trenchless Technology in India. He worked for 21 years for the Municipal Corporation of Greater Mumbai before resigning from it to pursue a career in the "Trenchless Technology and work for its growth and widespread adoption in India.

He has been associated with introduction, growth and implementation of unique ways of Trenchless Technology for laying and rehabilitation of sewers and water mains as well as storm water systems. Adaptation of Trenchless Technology which till 1990s was considered to be suitable only for developed countries was his key objective and vision.

He has to his credit the first microtunneling project for laying of sanitary sewers of varying sizes in extremely challenging conditions in Mumbai which involved railway crossings and highway crossings as well as sewers in bottleneck portions of urban roads where conventional trenching could not be used for laying of the buried services. This project enabled commissioning of sewers which were idling for almost 18-20 years and reap the benefit of providing sewerage to masses and help in improving environmental and health conditions in the areas affected by these sewers.

He is currently working on many trenchless technology projects which involve microtunneling and pipeline renovation. He is also an expert in water supply and sewerage network planning and pipe laying by conventional techniques.

Click on the URL (<https://tinyurl.com/3vuw33fx>) for detailed CV of the speaker.

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