

GUJARAT TECHNOLOGICAL UNIVERSITY

C. K. PITHAWALLA COLLEGE OF ENGINEERING AND TECHNOLOGY, SURAT (009)

CIVIL ENGINEERING DEPARTMENT

REPORT OF WEBINAR ORGANIZED

Academic Year 2020

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Program was scheduled as per the given details

- **Topic** : Knowledge sharing session for Structural & Geotechnical Engineers on Midas Software
- **Date** :11/06/2020
- **Day** : Thrusday
- **Venue** : Online platform application by Midas
- **Name of Speaker** : Er. Nandeep Gohil, Asia Head, Midas, Mumbai
- **Program Schedule** :

Time	Event	Coordinators
10:30 am to 12:30 pm	Webinar	Dr. Priti A. Patel and Dr. Divyangini P. Gohil

- **Brief Report :**
  - Webinar on Knowledge sharing session for Structural & Geotechnical Engineers on Midas Software was organized by Civil Engineering Department of C.K.P.C.E.T., Surat on 11<sup>th</sup> June 2020, 10:30 am onwards. As an expert, Er. Nandeep Gohil, Asia Head, Midas, Mumbai had delivered a session. Total 79 participants had attended this webinar through online platform shared by Midas. This webinar focuses on the fundamental knowledge of structural and geotechnical field applications and research application by using Midas software. Expert had mentored the participant on the path to develop basic understanding of various Midas applications. He also briefs the participant about how to implicate results avail from design software actually as a field practice. He had explained every concept very nicely with graphical support by taking a case study of various structures analysed and designed using Midas software such as cable sayed bridge, Saheed Stambh, Harrold the empire, blue Altezza etc. of Surat region. At the end expert had interacted with participants and discussed their query.

# Knowledge Sharing for Structural & Geotechnical Engineers

TECH TALK

Nandeep Gohil



In Association with:  
C. K. Pithawala College of Engineering And Technology



## 1.1 Company Introduction

TECH TALK

### Engineering Consulting Service



Building Structure Engineering



Plant Engineering



Applied / Special Simulation

### World-class Engineering Expert Group

Computer Aided Engineering Technology

Engineering Experience

Synergy

Practical Software Development for Engineers

## 1.2 Our Engineering Products

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### Bridge

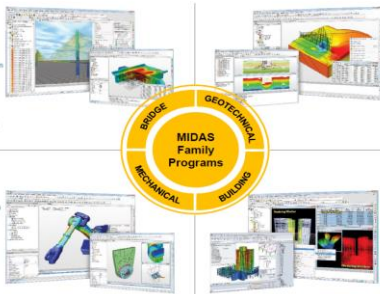
**midas Civil**  
Integrated Solution System for Bridge and Civil Structure

**FEA NX**  
Advanced Nonlinear and Detailed Analysis System

### Mechanical

**midas NFX**  
Total Solutions for Mechanical Engineering in structural Mechanics and CFD

**midas FX+**  
General Pre & Post Processor for Finite Element Analysis



### Geotechnical

**GTS NX**  
GeoTechnical analysis System

**SoilWorks**  
Geotechnical Solutions for 3D geotechnical Design

### Building

**midas Gen**  
Integrated System for building and General Structures

**midas DShop**  
Auto-Drawing Module and generate Structural Drawing and Bill of Materials

**midas Design+**  
Structural engineer's tools

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## 2.1 Bridge Engineering

TECH TALK

### What kind of bridge type can midas Civil handle?

#### Conventional Bridge



Culvert

Frame Bridge

Slab Bridge



Precast (Spliced) Girder Bridge

Integral Bridge

Steel Plate (Flare) Girder Bridge



Steel Box Girder Bridge

#### Staged Segmental Bridge



Balanced Cantilever Method Bridge

Incremental Launching Method Bridge

Movable Scaffolding Method Bridge



Precast Segmental Method Bridge

Fill Staging Method Bridge

#### Cable-stayed Bridge & Suspension Bridge



Cable Stayed Bridge

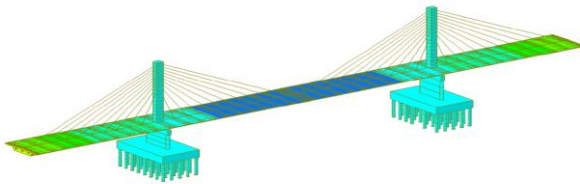
Extradosed Bridge

Suspension Bridge

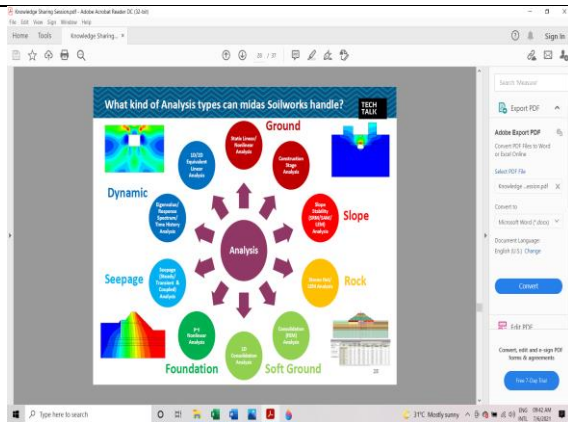
## 2.1 Bridge Engineering

TECH TALK

### A local example of midas Civil – Cable Stayed Bridge, Surat



Consultant: S.N. Bhojbe Consultants (Now, TPF Engineering)  
Contractor: L&T



## 1.2 Shaheed Stambh

TECH TALK



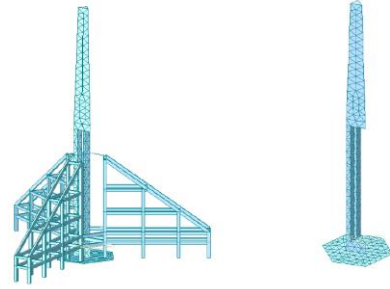
### Structure Details

1. Height of Stambh structure is 35 mt.
2. Geometry of structure is Tapered Triangle Solid element.
3. Unsupported Height is 17.5 mt.

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## 1.2 Shaheed Stambh

TECH TALK



3D model of Shaheed Stambh

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## 2.1 Project Details

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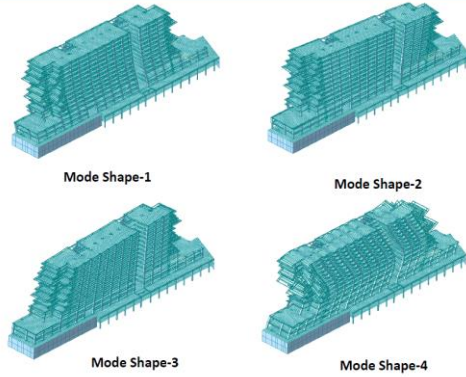
NAME	HARRODS, The Empire
Location	Vesu, Surat
Floors	2 Basement + G + 14 floors
APPROX coverage	7, 00,000 SQFT
Year of Execution	2014
Design Tool	midas Gen



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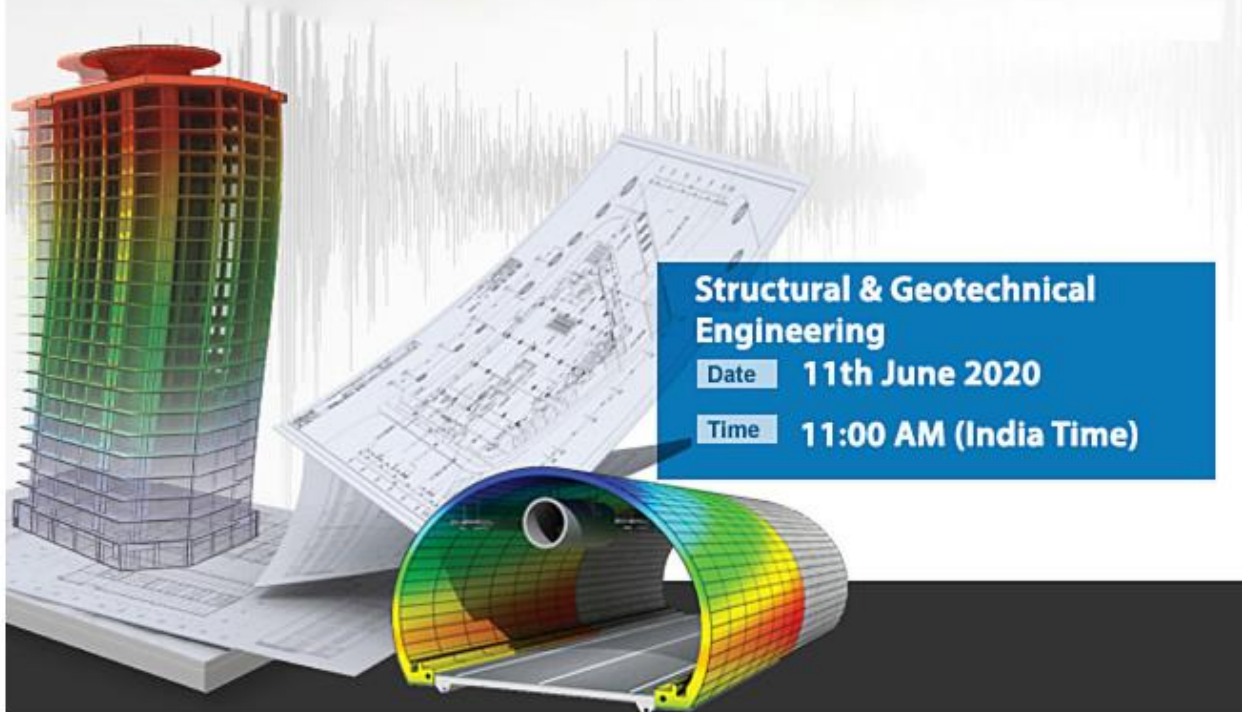
## 2.3 Analysis & Design

TECH TALK



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# Knowledge sharing session for Structural & Geotechnical Engineers on Midas Software



## Structural & Geotechnical Engineering

Date 11th June 2020

Time 11:00 AM (India Time)