

What is Civil Engineering ?



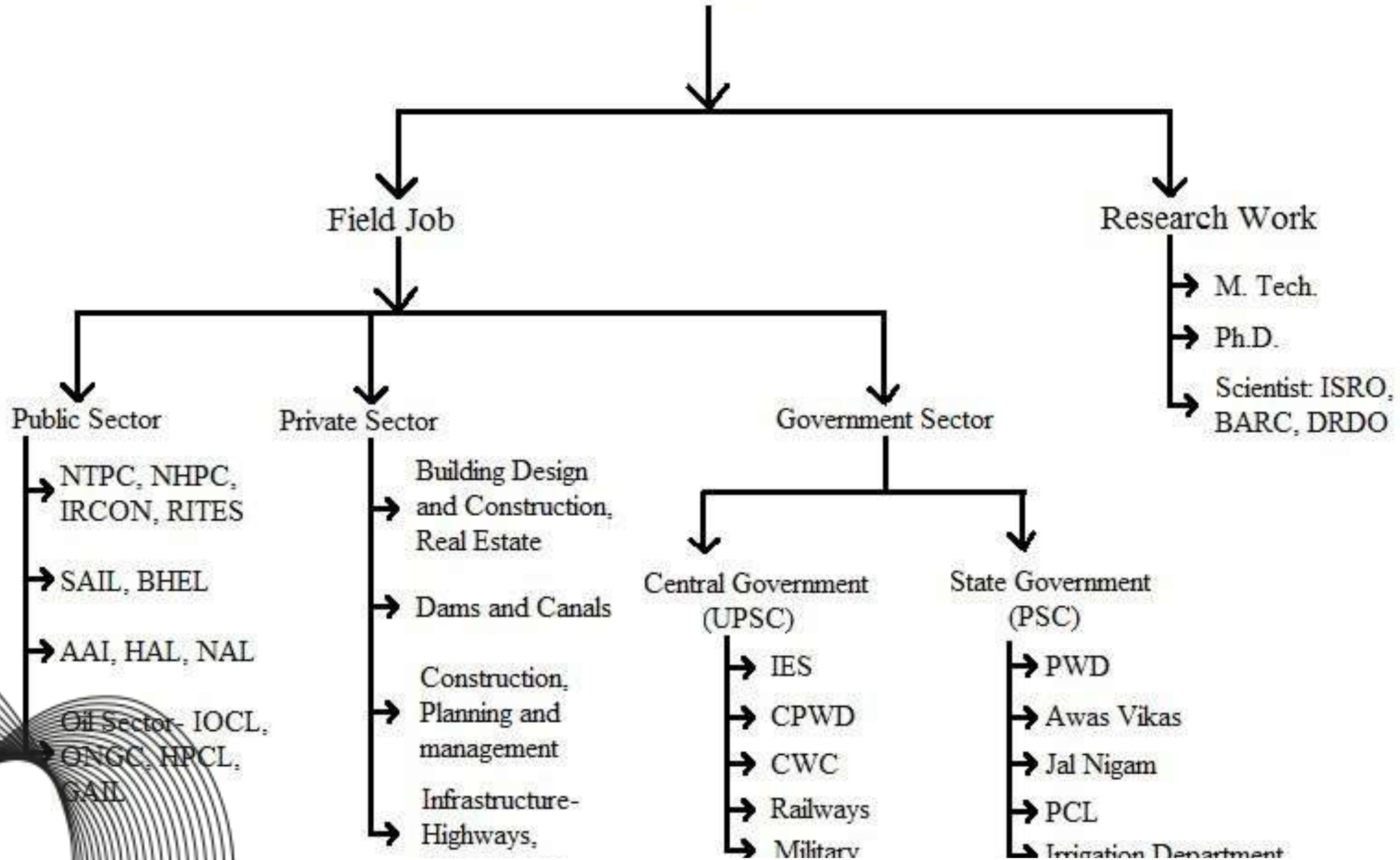
The background of the slide is an aerial photograph of a city skyline, likely Dubai, with several prominent skyscrapers. The image has a teal or cyan color cast. A large, dark semi-transparent rectangle is overlaid on the left and center of the image, containing the title and text. On the right side, there are decorative white, wavy, line-art patterns that resemble stylized waves or architectural forms.

Introduction

Civil engineering is the art and science of designing, constructing, and maintaining the essential infrastructure that supports modern society, including roads, bridges, buildings, water supply systems, and more. It involves harnessing engineering principles to improve the quality of life for communities while safeguarding the environment and ensuring sustainable development for generations to come.

Scope after Civil Engineering

CIVIL Engineer



Objectives

Detail-oriented engineering graduate with hands-on experience in applying engineering principles to projects. Seeking a position that allows for career growth and further skills development.



What is Surveying ?

Surveying in civil engineering is the precise art of measuring, mapping, and analyzing the land's features to understand its topography and characteristics.

What is the role of surveying in civil engineering?

Surveying plays a critical role in ensuring accuracy, efficiency, and safety throughout the entire lifecycle of civil engineering projects.

Why Surveying is required ?

To gather data about the Earth's surface, enabling the design, construction, and maintenance of infrastructure projects such as roads, bridges, and buildings.



Types of survey

1. Topographic Survey
2. Construction Survey
3. Boundary Survey
4. ALTA/NSPS Survey
5. Geodetic Survey
6. Hydrographic Survey
7. Utility Survey
8. Aerial Survey

Note :-

These surveys are essential for planning, designing, constructing, and managing civil engineering projects with accuracy and efficiency.



Equipments or machines using in surveying

1.Total Station

2.Global Navigation Satellite System (GNSS) Receivers

3.Theodolite

4.Levels

5.3D Laser Scanners

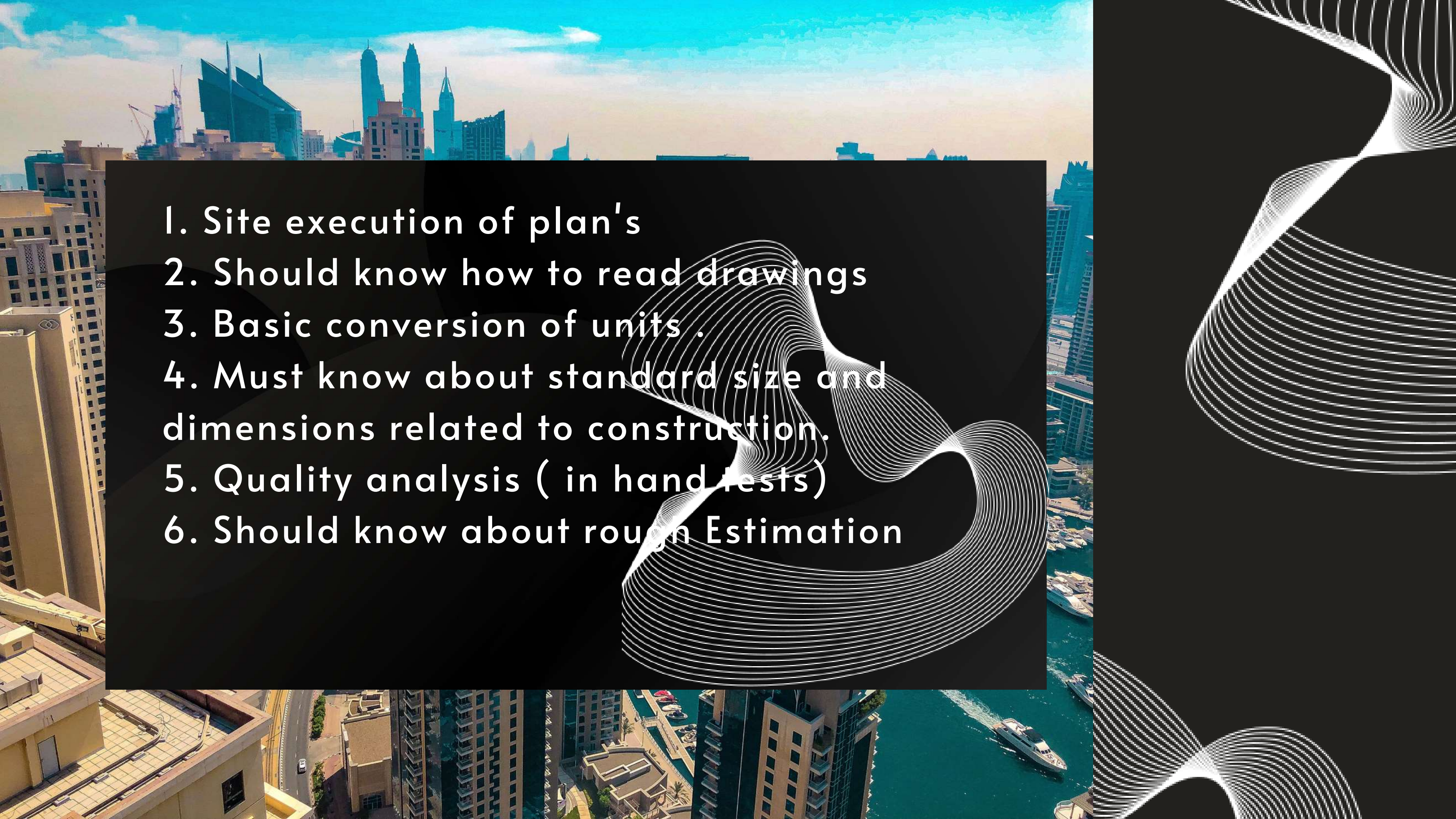
6.Ground Penetrating Radar (GPR) . Etc.

Equipments or machines using in surveying



The background of the image is a city skyline at dusk, featuring several tall skyscrapers with illuminated windows. In the foreground, there is a body of water and a park area with palm trees. A large, dark, semi-transparent rectangular overlay is centered on the image, containing the text. The text is white and reads "Skills & Softwares which civil engineer must learn?". The overlay has a decorative, wavy, white line pattern on its right side.

**Skills & Softwares which
civil engineer must learn?**

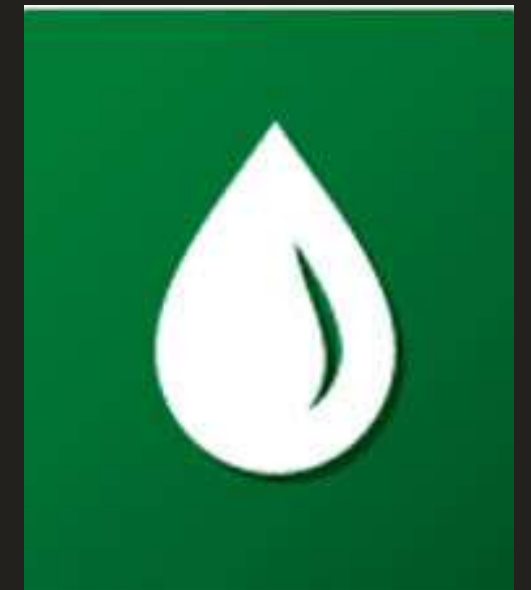
- 
1. Site execution of plan's
 2. Should know how to read drawings
 3. Basic conversion of units .
 4. Must know about standard size and dimensions related to construction.
 5. Quality analysis (in hand tests)
 6. Should know about rough Estimation

Softwares which are using widely in construction companies and consultancies.

1. AutoCAD
2. AutoCAD 3d
3. Staad pro / ETABS
4. Road Estimator
5. Microsoft Word
6. Microsoft Excel
7. WaterGem
8. SewerGem
9. Google Earth pro
10. Microsoft Project / Primavera



Softwares



Architectural softwares which are using widely in construction companies?

3D Modelling Softwares :-

1. AutoCAD
2. Revit
3. 3Ds Max
4. SketchUp


Rendering Softwares :-

1. V.ray (Plugin)
2. Enscape (Plugin)
3. Lumion
4. Grasshopper



What is BIM ?

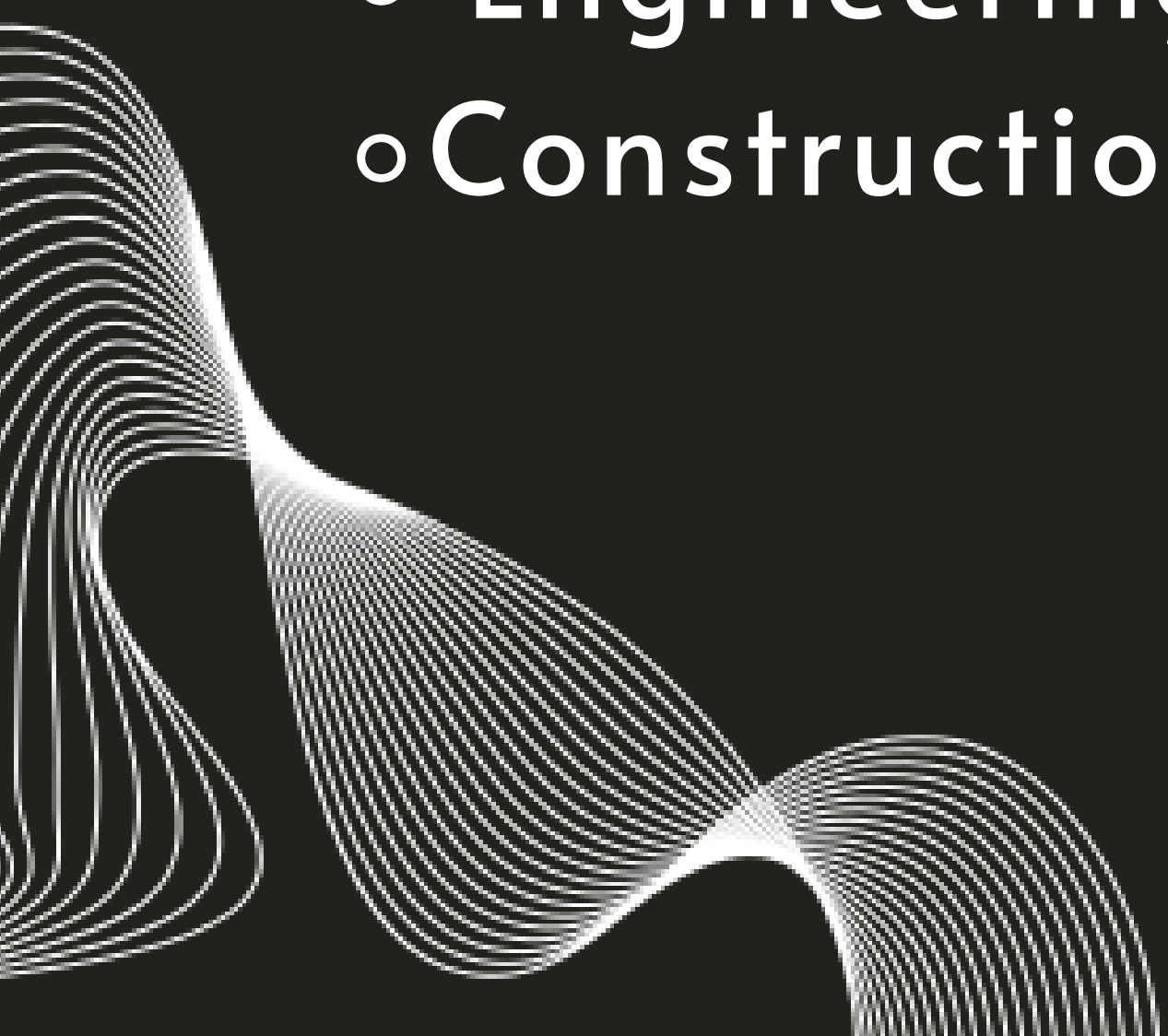


An aerial photograph of a city skyline, likely Dubai, featuring several tall skyscrapers and a body of water with boats. A large, dark, semi-transparent rectangular area is overlaid on the center of the image. Inside this area, there is white text and a decorative graphic of white, wavy, concentric lines that resemble a stylized wave or a series of overlapping circles. The overall color palette is dominated by the blue and white of the sky and water, with the dark grey of the text overlay.

BIM or Building Information Modelling is a process for creating and managing information on a construction project across the project lifecycle. One of the key outputs of this process is the Building Information Model, the digital description of every aspect of the built asset.



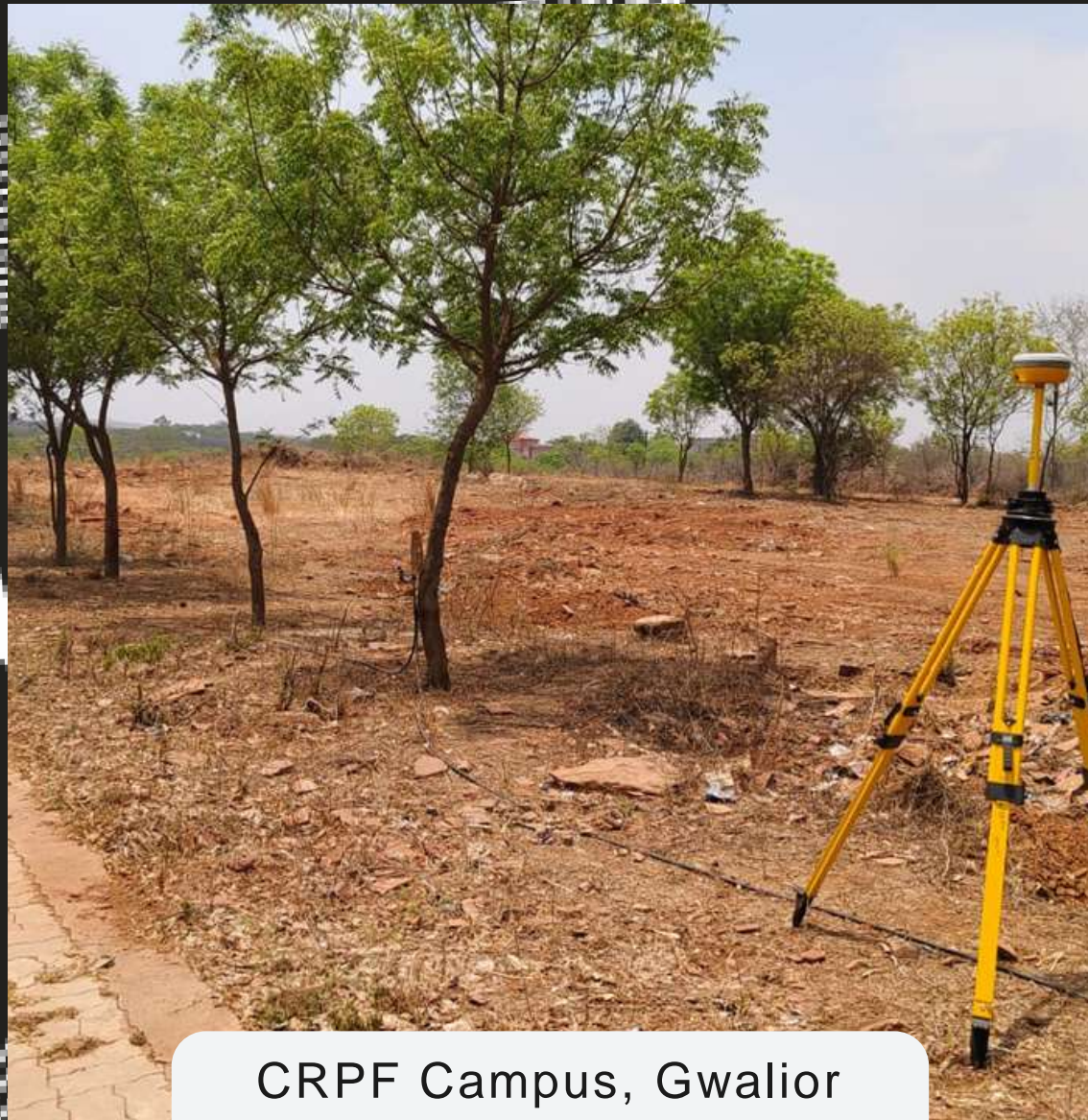
Industry using BIM:

- Architecture
 - Engineering
 - Construction
- 



PROJECT DETAILS

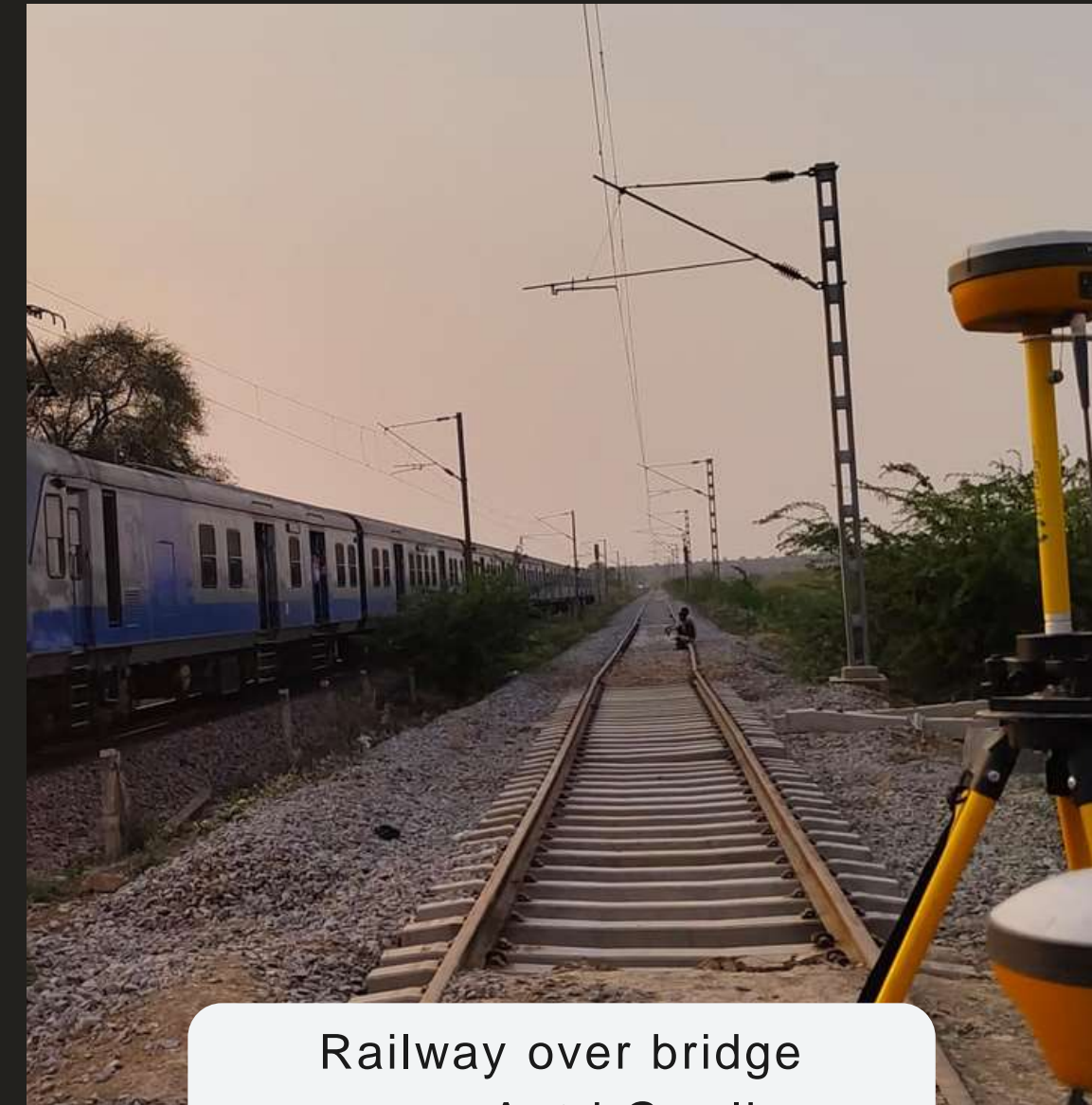
Survey



CRPF Campus, Gwalior



Satvik Agro Chemicals.,
Banmore

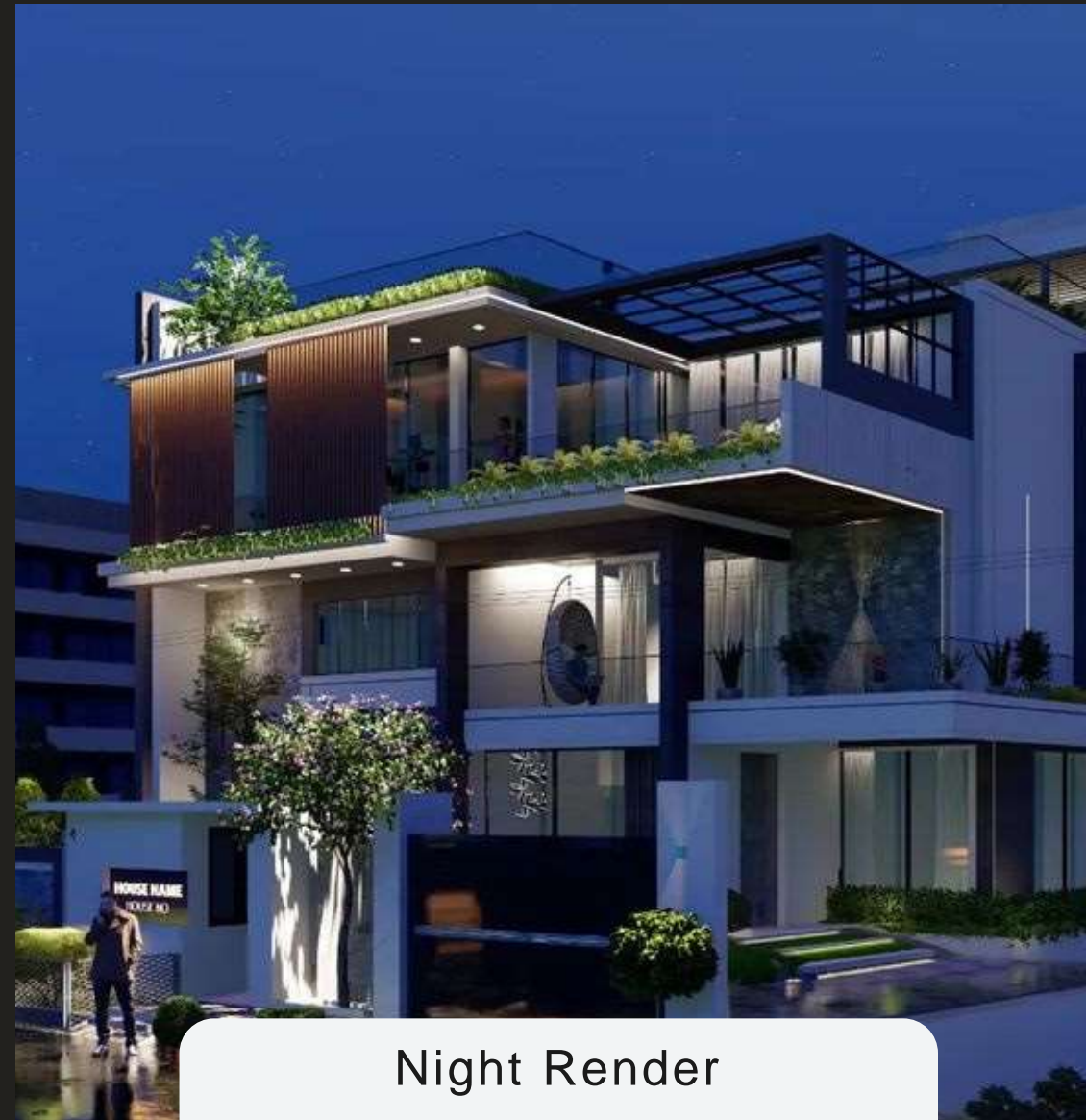


Railway over bridge
survey Antri Gwalior

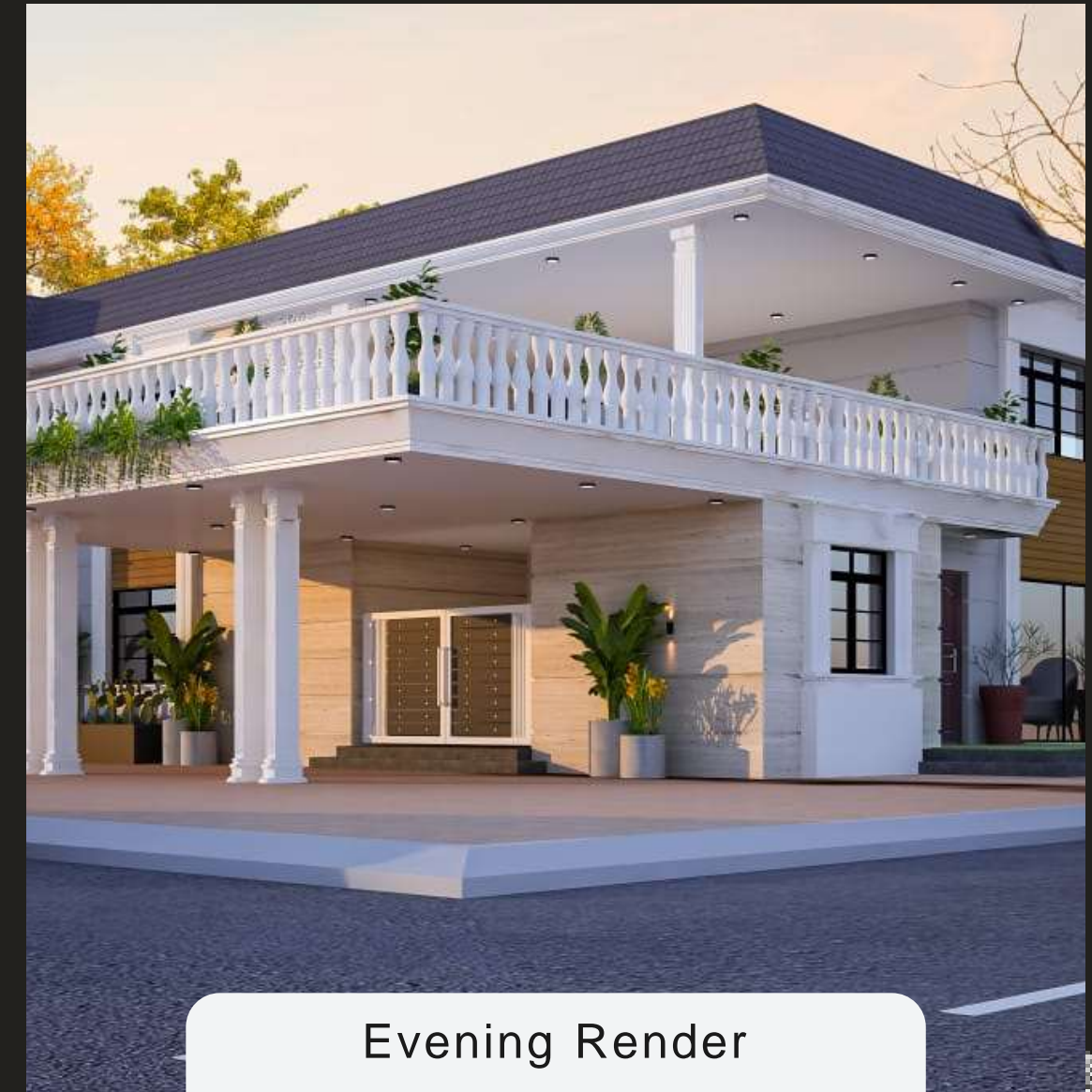
Exterior



Morning Render

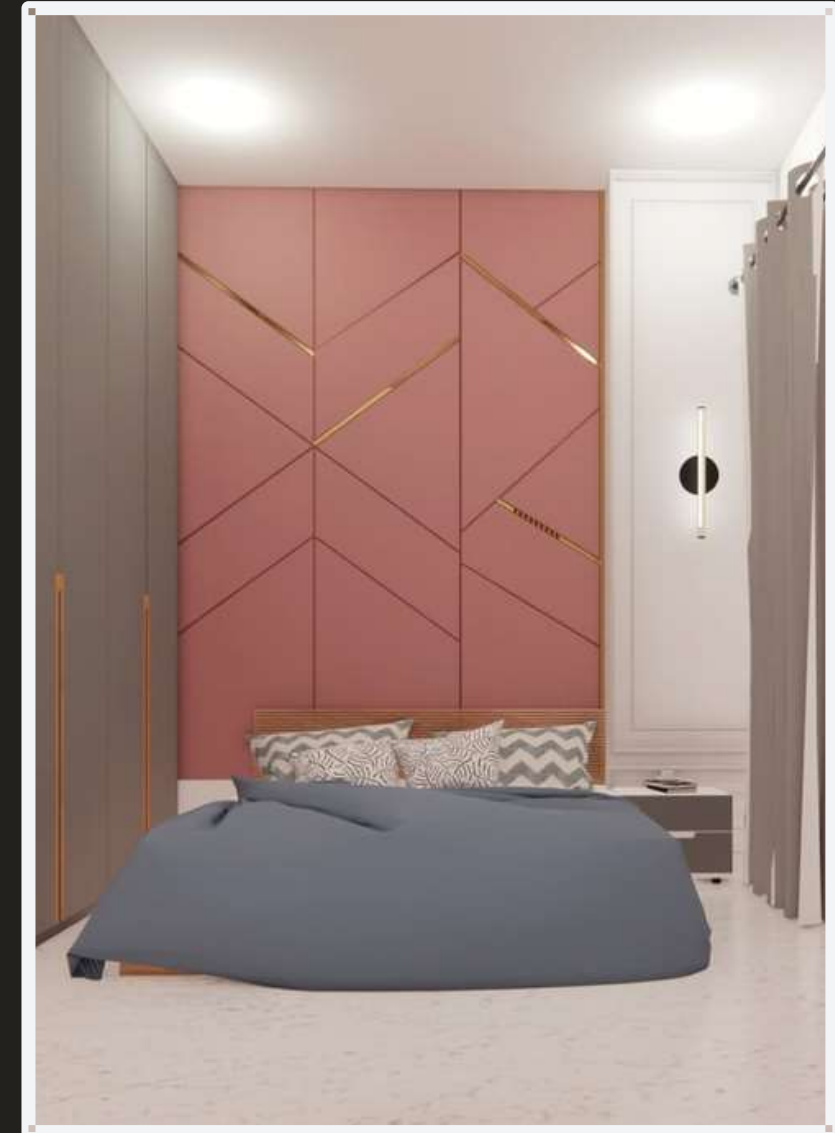
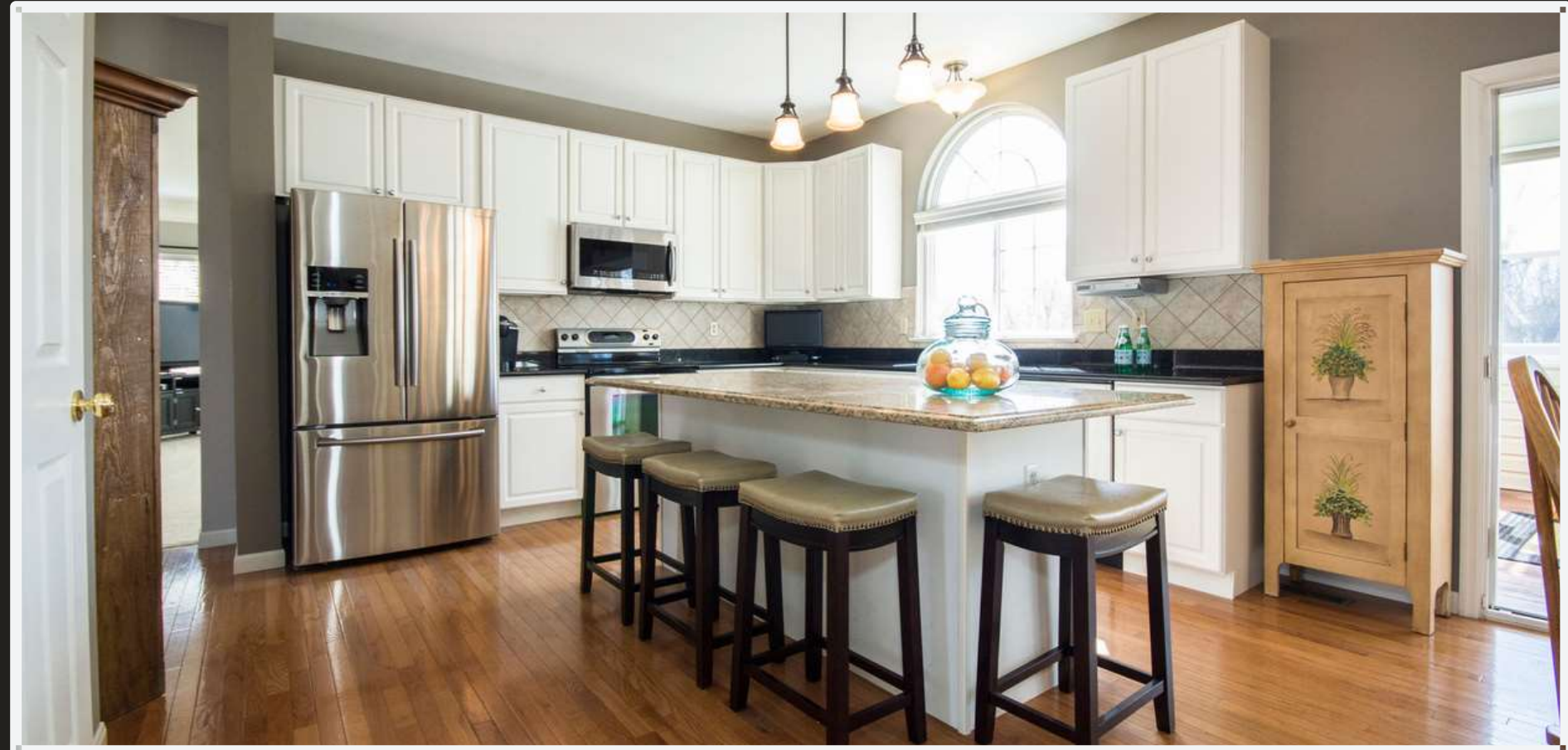


Night Render



Evening Render

Interior



Our team

Danish Ahmed Khan
Founder

Alfiya Parvez
Co-Founder

D.c sharma (Advisory senior)
Retired S.D.O (PWD)

A.K sharma sir (advisory
senior)

Pawan Gware
Senior Civil Engineer

Vipul Tyagi
Civil Engineer

Retd. Executive engineer (RES)

Mohammad Imran
Interior Partner

Sameer Akhtar
Managing supervisor



Civil Works Provider

Thank You

Contact Us



8085788973



civilworksprovider@gmail.com



www.civilworksprovider.com

Gerente General

