

Disclaimer!

In regard to Presentation content, it is to state **that this presentation contains my opinions, experiences and personal views, and is not to be considered as “expert” advice or universal fact.** Also, the content is not intended to malign anyone or anything.



WELCOME

Decoding The Industry Practices

AFTER GRADUATION IN CIVIL ENGINEERING

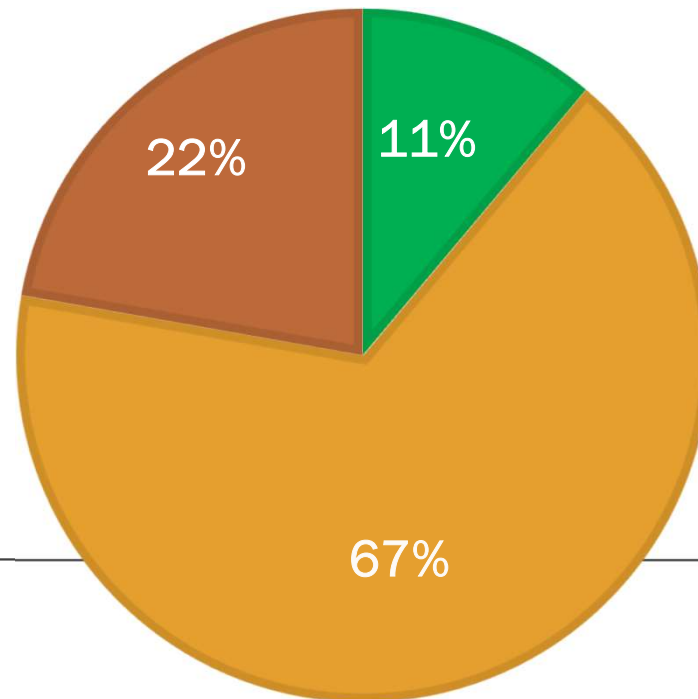
ER. PARVEZ KHAN



-
- Active Participation
 - ON your video camera
 - Gadgets on DND mode
 - Put water bottles – keep yourself hydrated

- No spamming
- Keep yourself on mute
- Ask relevant Questions in Q&A session
- No other works

TIME MACHINE



■ Introduction (10 min.)

■ PPT (60 min.)

■ Q & A (20 min.)

CONTENTS :

Opportunities post CE

What are the Branches/Sectors of CE

Emerging dimensions & Alternates for C Engineers – BIM, DS etc.

Government sector Vs Private sector

Question & Answers

TARGET



HIGHER STUDIES



JOB

- Private Jobs
L&T, TATA, DLF, etc. ?
- Central Govt
Railway/CPWD/Defense
- State Govt
PWD/DA/Water/Power



BUSINESS



Various branches / sectors

Conti..

1. Construction Engineering



CONSTRUCTION ENGINEERING ?

Planning, designing, construction and operation managements of roadways, airports, railroad, dam etc.



OPPORTUNITIES

- Plethora of jobs
- Builders/Contractors
- Average intelligence
- Soft nut to crack



SKILLS

Cost & Estimation
QA & QC
Understanding of drawings
Project Management



WORK-LIFE BALANCE

- W-L balance is poor
- Long hours of working
- Day-Night shifts
- Rude working style



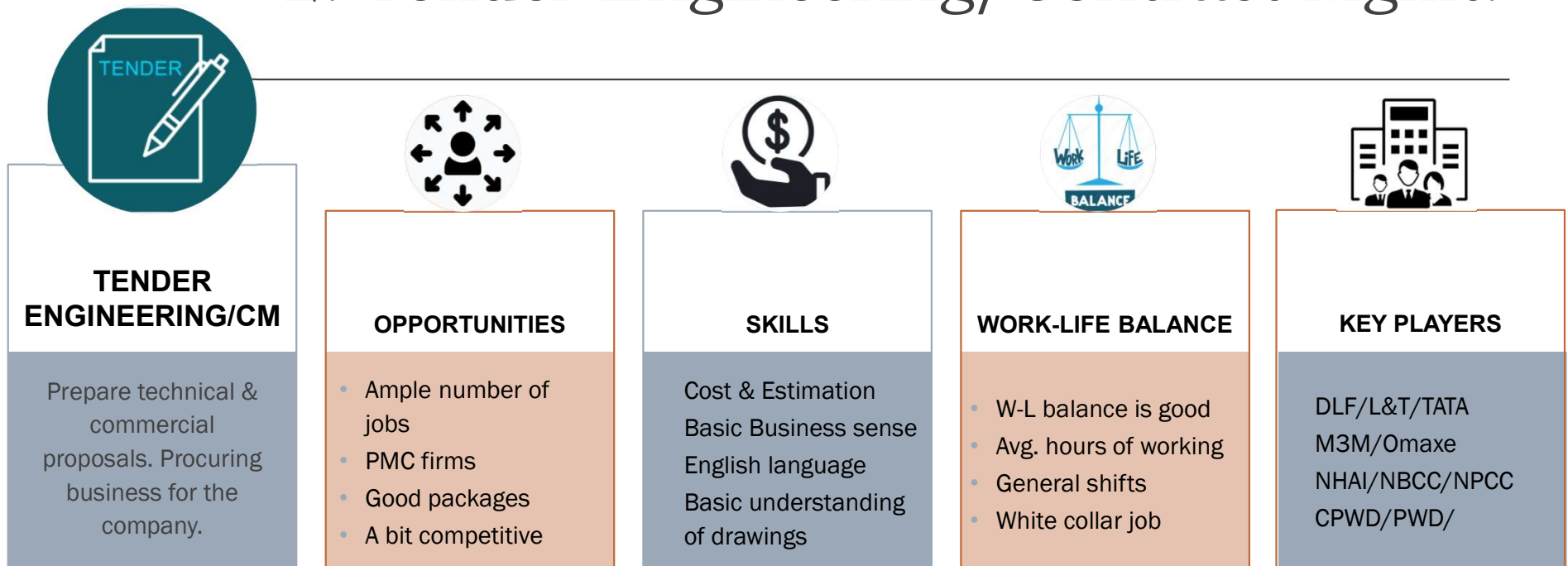
KEY PLAYERS

DLF/L&T/TATA
M3M/Omaxe
NHAI/NBCC/NPCC
CPWD/PWD/

Various branches / sectors

Conti..

2. Tender Engineering/Contract Mgmt.



Various branches / sectors

Conti..

3. Construction Technology & Mgmt.



CONSTRUCTION TECHNOLOGY & M.

The purpose of Construction management is to control a project's time / delivery, cost and quality.



OPPORTUNITIES

- Good number of jobs
- Large number of Infra & Building projects
- Construction sector is 2nd largest in India



SKILLS

Understanding of drawings & designs
May require Masters Construction Mgmt.
Project Management
PMP very important



JOB ROLE

- Site supervisor
- Project In charge
- Project Manager
- Construction Manager



KEY PLAYERS

WSP/Delloite/KPMG/
Pwc/E&Y/Jacobs/

Various branches / sectors

Conti..

4. Geotechnical Engineering



GEOTECHNICAL ENGINEERING

Geotechnical engineering is concerned with the engineering behavior of earth materials.



OPPORTUNITIES

- Good number of jobs
- Govt. & Pvt.
- Conceptual knowledge required
- Hard nut to crack



SKILLS

Analytical knowledge
Sound Technical understanding
Soil mechanics
May require Masters



JOB ROLE

- Foundation designer
- Material surveyor
- Principal designer
- Scientists in CSMRS



KEY PLAYERS

DLF/L&T/TATA/HILL
M3M/Omaxe/AECOM
CWC/Railways/CSMR
S/

Various branches / sectors

Conti..

5. Structural Engineering



STRUCTURAL ENGINEERING

Designing of 'bones and muscles' of buildings/structures. Calculating stability, strength, rigidity & earthquake resistant etc.



OPPORTUNITIES

- Less number of jobs
- Small consultants
- Own consultancy
- Highly competitive market
- Gard nut to crack



SKILLS

Sound knowledge of Structures, RCC etc.
Software STAAD, ETB
Understanding of designs & drawings
May require Masters



JOB ROLE

- Structure modeler
- Structural designer
- Structural consultants
- Structural analyst
- Structural auditor



KEY PLAYERS

SP/AFCONS/DLF/L&T /TATA
AECOM/BECHTEL/Jac obs/WSP/Atkins

Various branches / sectors

Conti..

6. Transportation Engineering



TRANSPORTATION ENGINEERING

Planning, Design, Construction, O & M of Runways, highways, railways, waterways & space transportation .



OPPORTUNITIES

- Plethora of jobs
- Builders/Contractors
- Govt. & Pvt.
- India focusing on infra projects



SKILLS

Cost & Estimation
QA & QC
Surveying & Geotechnical
Software MIDAS, STAAD etc.



JOB ROLE

- Highway design er.
- Bridge design er.
- Billing engineer
- Survey engineer
- Quantity estimator



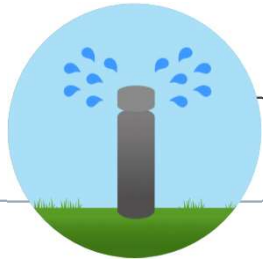
KEY PLAYERS

L&T/Rodic/NCC/AFC
ONS/COWi/Ramboll
NHAI/RITES/CPWD/P
WD/BRO/MES

Various branches / sectors

Conti..

7. Water Resources Engineering



WATER R ENGINEERING ?

WRE is concerned with the flow of water. It includes design of bridges, dams, channels, canals, levees etc.



OPPORTUNITIES

- Plethora of jobs
- River interlinking proj.
- Agriculture is the backbone of India
- Water mgmt. is the need of hour



SKILLS

Understanding of Fluid mechanics & Hydraulics
Software HEC
RAS/Water Gems/Arc
GIS etc.



JOB ROLE

- Dam/Tunnel designer
- Hydraulic designer
- GIS expert
- Hydrology expert
- Irrigation expert
- Flood management



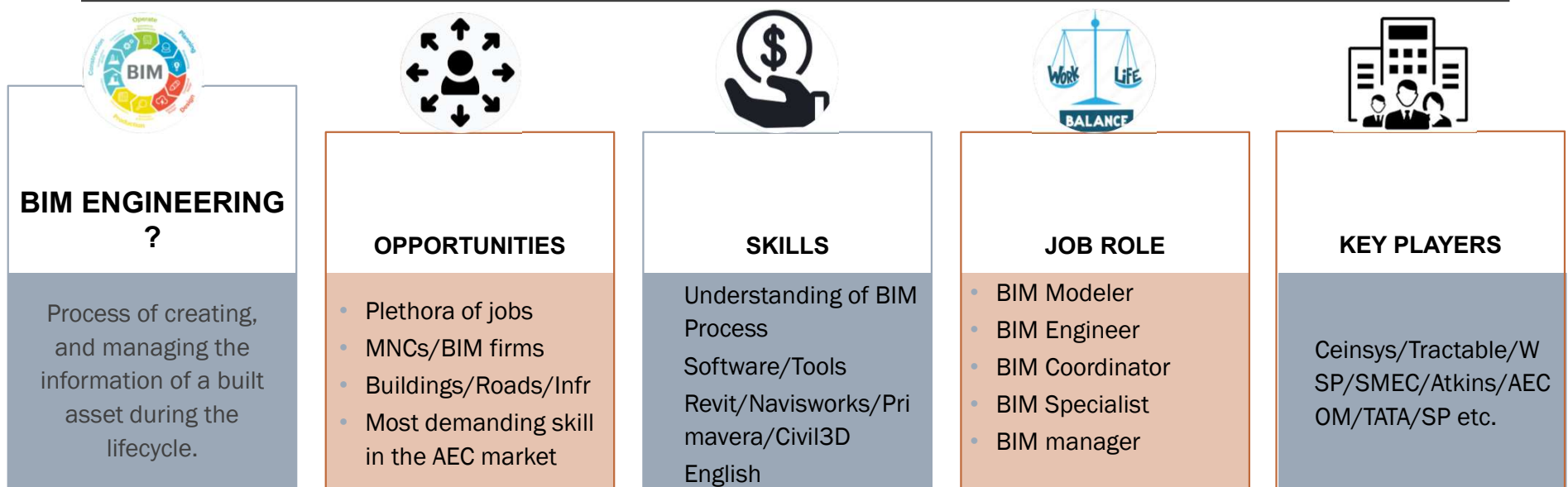
KEY PLAYERS

L&T/Mehga/Ceinsys/
Tractable/WSP/SMEC
WAPCOS/NHPC/CWC
/SJVNL/State
WRD/PHED/

Various branches / sectors

8. BIM Engineering

Conti..



Thank you



REACH ME THROUGH



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