

Company Profile

Force Structural Engineers Pvt. Ltd.

 ForceSE

About Force SE



Established in
2013



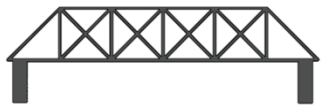
Founded by IIT
Bombay Alumni



Based in Mumbai,
India



Strong team of
~50



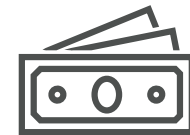
Specialize in Bridge
Engineering



Long span bridges like
Cantilever, Extradosed
& Cable stayed



Over 25 clients served



Annual turnover > INR
10.5 Cr (1.2 M USD)



Meet the Founders



Abhishek Sanyal

Abhishek is always looking for an out of the box solution, be it engineering or business. He has a flair for aesthetics and develops designs that seamlessly merge with the environment. Learning and development of engineers is a key focus area for him.



Deepak Prajapati

Being a gold medalist from IIT Bombay, Deepak has strong technical understanding and a keen eye for details. He has played leading role for many long span bridges including network arches, cable stayed bridges etc. engineered by us in the last decade.



Akhilesh Lahoti

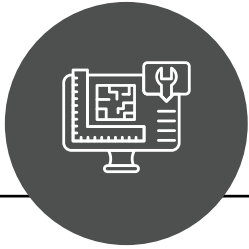
Akhilesh has worked across Europe and UK and brings with him a professional outlook and work ethics at par with global standards. With key focus on client satisfaction, he has managed to build long-lasting clients for Force SE.



Prateek Jain

Prateek looks after the business development and day to day operations. With great interpersonal skills, he has managed to acquire many construction giants as our clients. His interest lies automation and machine learning.

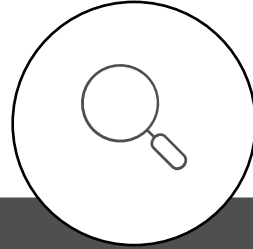
Our Services



Detailed Engineering

Our specialities include:

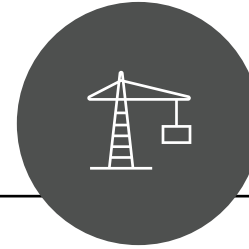
- Long-span Bridges – Extradosed, Cable-stayed, Network Arches etc.
- Wide Deck Bridges - Spine and Wing, Strutted Box etc.
- Segmental construction
- Cantilever construction
- Integral bridges
- Steel structures



Proof Checking

We understand the importance of having trust in any design solution. Our proof-checking of designs includes

- Review of designs and drawings
- Independent analysis and design checks
- Value engineering and optimisation



Construction Engineering

To help our clients execute complex projects, we offer services such as:

- Design of enabling structures
- Construction methodology supported with construction stage analysis
- Bridge dismantling scheme

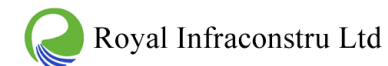


Prebid Engineering

We associate right from the bidding stage. We provide:

- Detailed bill of quantities
- Sketches for structural arrangement
- Construction methodology
- Necessary assistance to arrive at an economical and reliable bid.

Some of our Partners



Highway Bridges

Past and ongoing experience

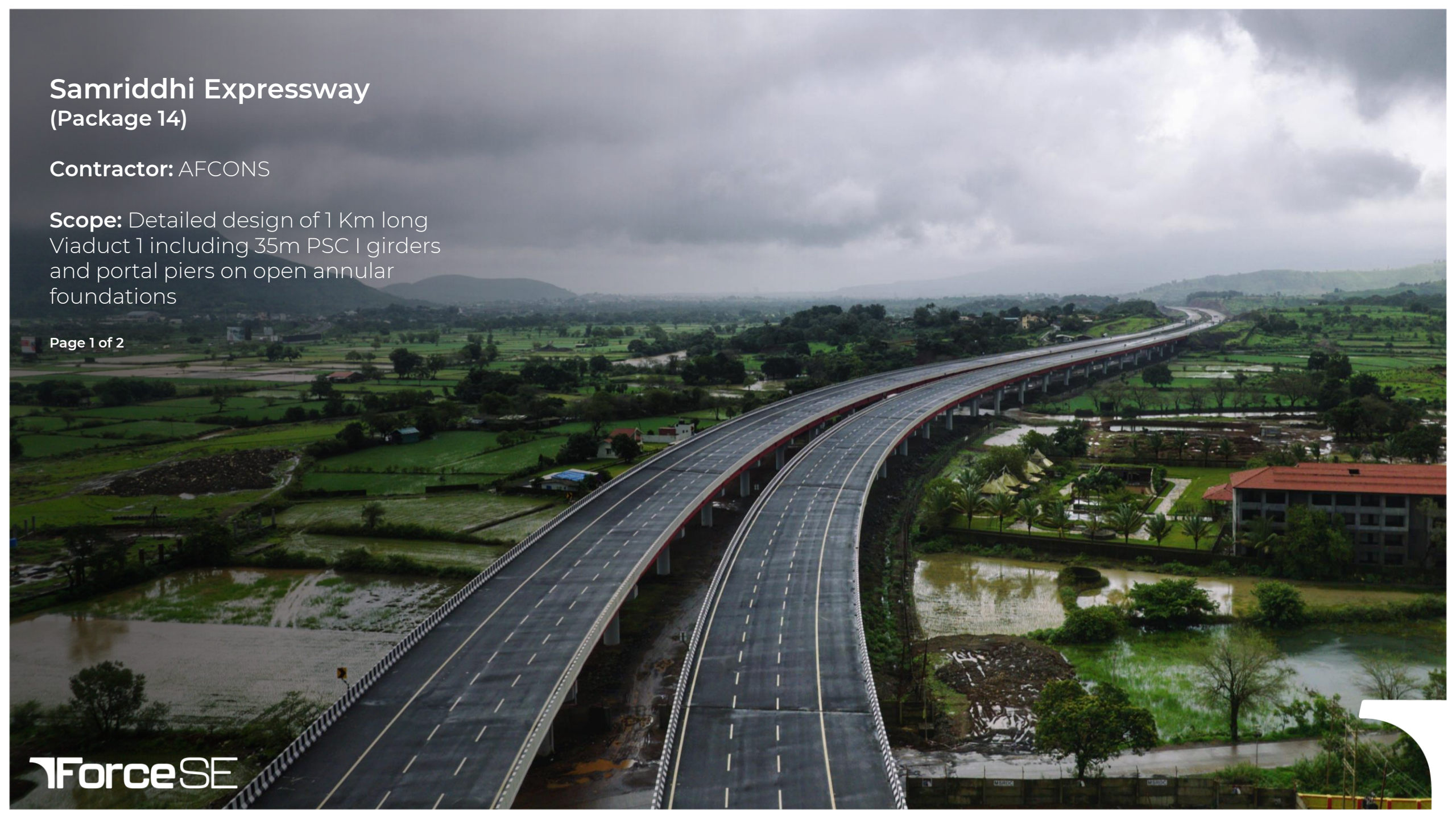
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Samriddhi Expressway (Package 14)

Contractor: AFCONS

Scope: Detailed design of 1 Km long Viaduct 1 including 35m PSC I girders and portal piers on open annular foundations

Page 1 of 2



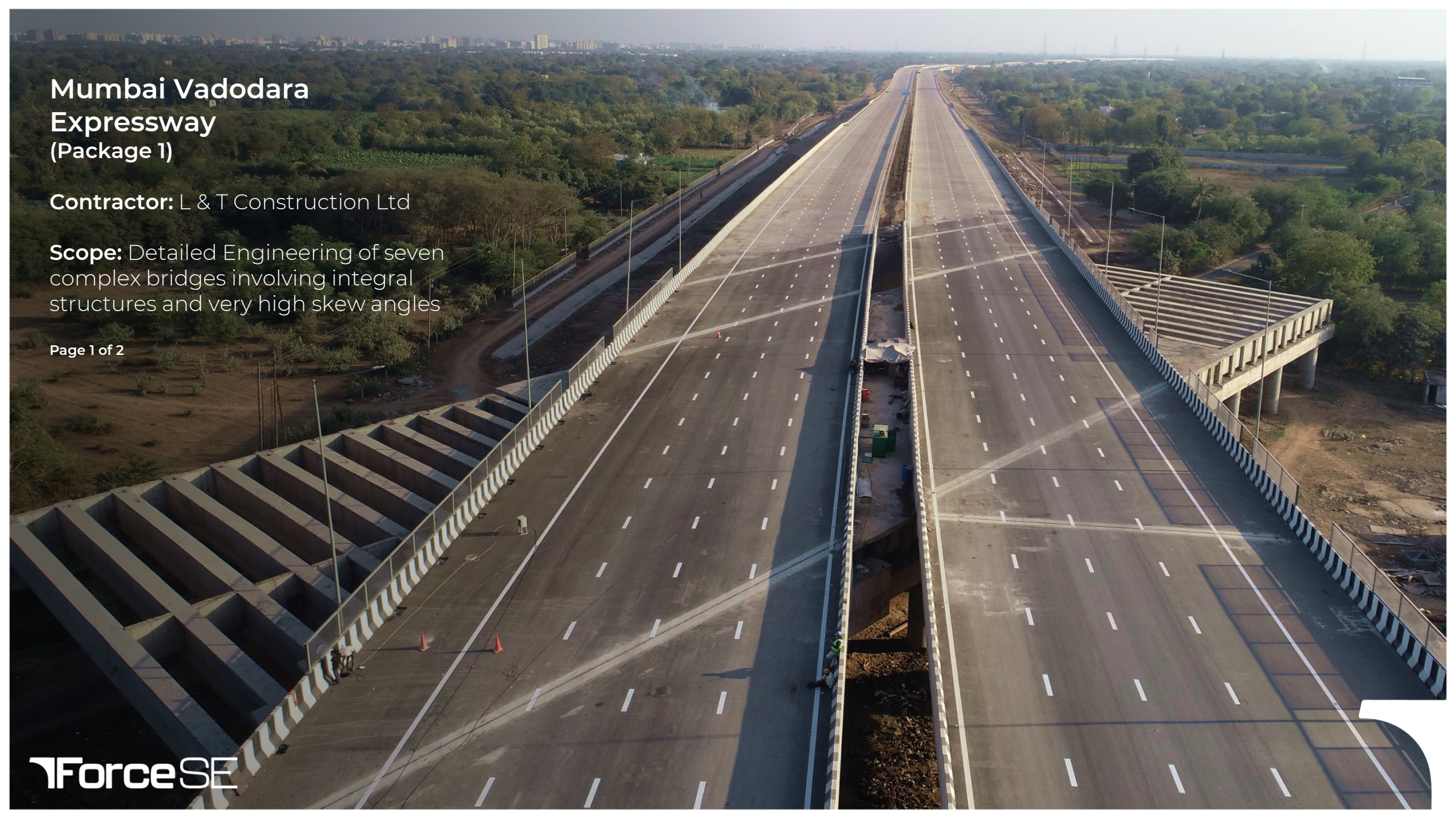
Samriddhi Expressway (Package 14)

Contractor: AFCONS

Scope: Detailed design of 1 Km long Viaduct 2 with 100m balance cantilever span and 55m pier height resting on open annular foundations

Page 2 of 2





Mumbai Vadodara Expressway (Package 1)

Contractor: L & T Construction Ltd

Scope: Detailed Engineering of seven complex bridges involving integral structures and very high skew angles

Page 1 of 2

Mumbai Vadodara Expressway (Package 1)

Contractor: L & T Construction Ltd

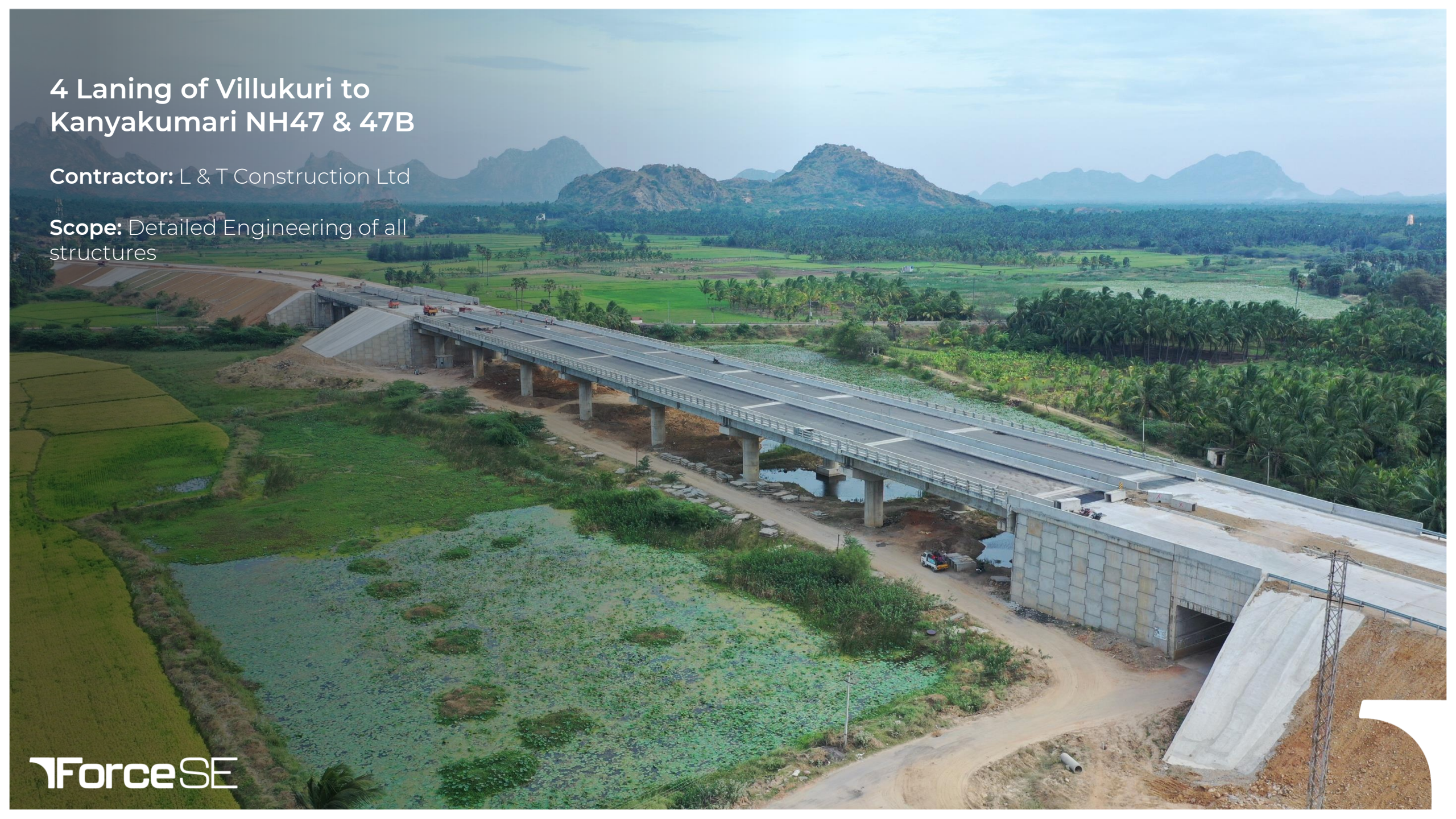
Scope: Detailed Engineering of 1 Km
long ROB with integral superstructure
and single row of piles

Page 2 of 2

4 Laning of Villukuri to Kanyakumari NH47 & 47B

Contractor: L & T Construction Ltd

Scope: Detailed Engineering of all
structures



River Bridges

Past and ongoing experience

 ForceSE

An aerial photograph showing a long, narrow cantilever bridge spanning a deep valley. The bridge is supported by two large concrete piers. The road on the bridge is paved and has a yellow and black hazard stripe along its edge. The surrounding landscape is lush with green trees and vegetation. A river flows through the valley below the bridge. The sky is clear and blue.

Cantilever Bridge across river Tanalung Chu in Bhutan

Contractor: Poddar Construction Co.

Scope: Detailed design of complete project of 100m span with compartment box abutments and continuity girder

Cantilever Bridge across river Deopani in Arunachal Pradesh

Contractor: Poddar Construction Co

Scope: Detailed design of 300m long
(50m + 2 x 100m + 50m) balance
cantilever superstructure

Bridge across River Parwan near Aklera, Rajasthan

Contractor: Poddar Construction Co

Scope: Detailed design of complete project including major bridge of 400m with PSC segmental box girders



Bridge across river Twlang in Aizawl, Mizoram

Contractor: Poddar Infratech Pvt. Ltd.

Scope: Detailed design and construction engineering of 100m tied structural steel Network arch



Cable stayed bridge near Yeldari Dam

Contractor: T and T Infra

Scope: Detailed design and construction engineering of 240m (60m + 120m + 60m) long cable stayed bridge with concrete ladder deck

Bridge across river Narmada in Jabalpur (M.P.)

Contractor: Jandu Constructions Pvt.
Ltd.

Scope: Detailed design and
construction engineering of 900m
(75m + 5 x 150m + 75m) long
continuous extradosed bridge with
segmental cantilever construction of
strutted PSC box girder



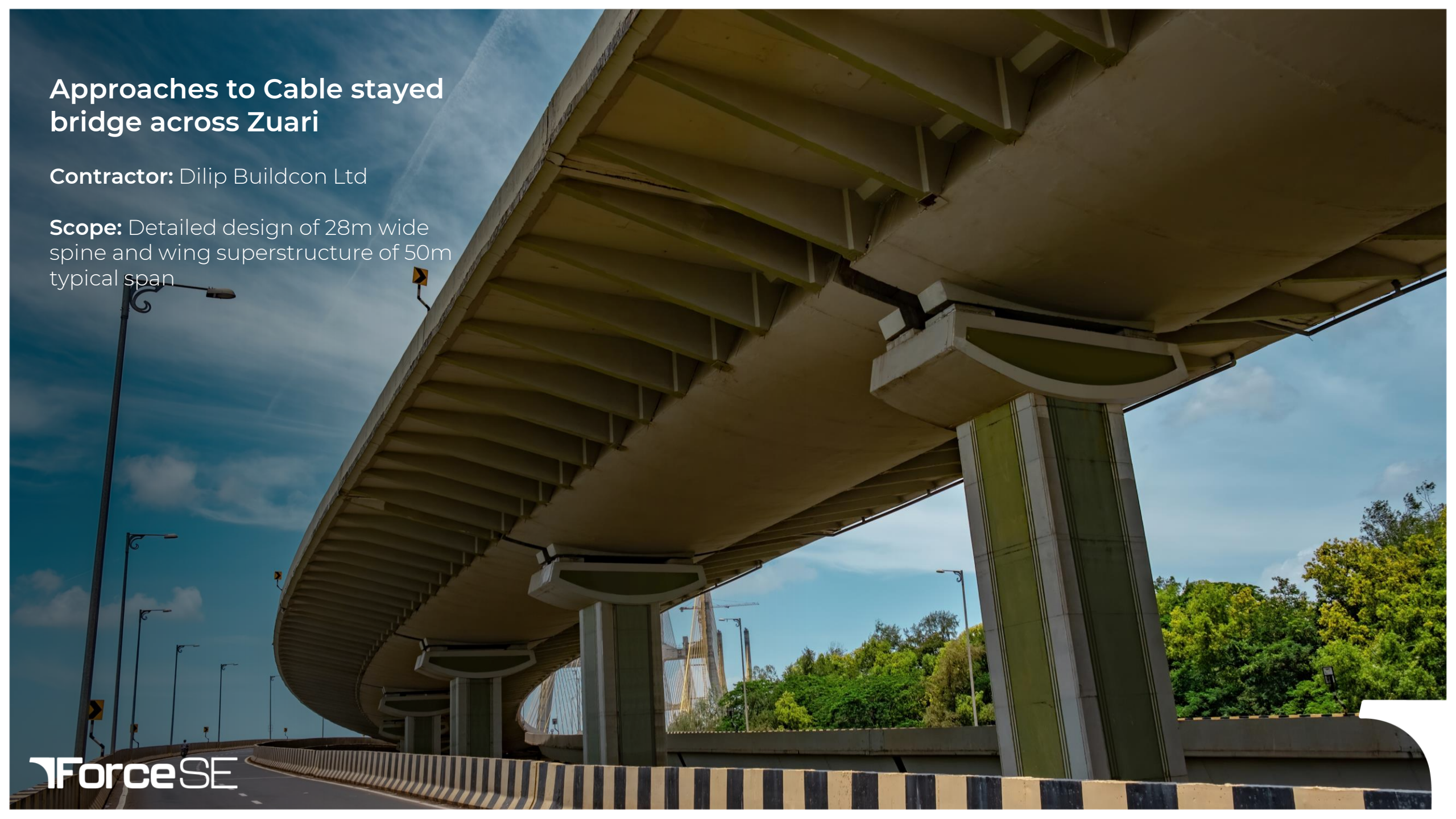
Urban Flyovers

Past and ongoing experience

Approaches to Cable stayed bridge across Zuari

Contractor: Dilip Buildcon Ltd

Scope: Detailed design of 28m wide spine and wing superstructure of 50m typical span



Elevated corridor in Tirupati

Contractor: AFCONS

Scope: Detailed design of 7 Km long elevated viaduct with PSC box girder segmental bridge. Project also includes elevated rotary, double decker ROB, sharp curvature steel spans. Structural elements inspired by local deity

Elevated corridor in Patna

Contractor: AFCONS

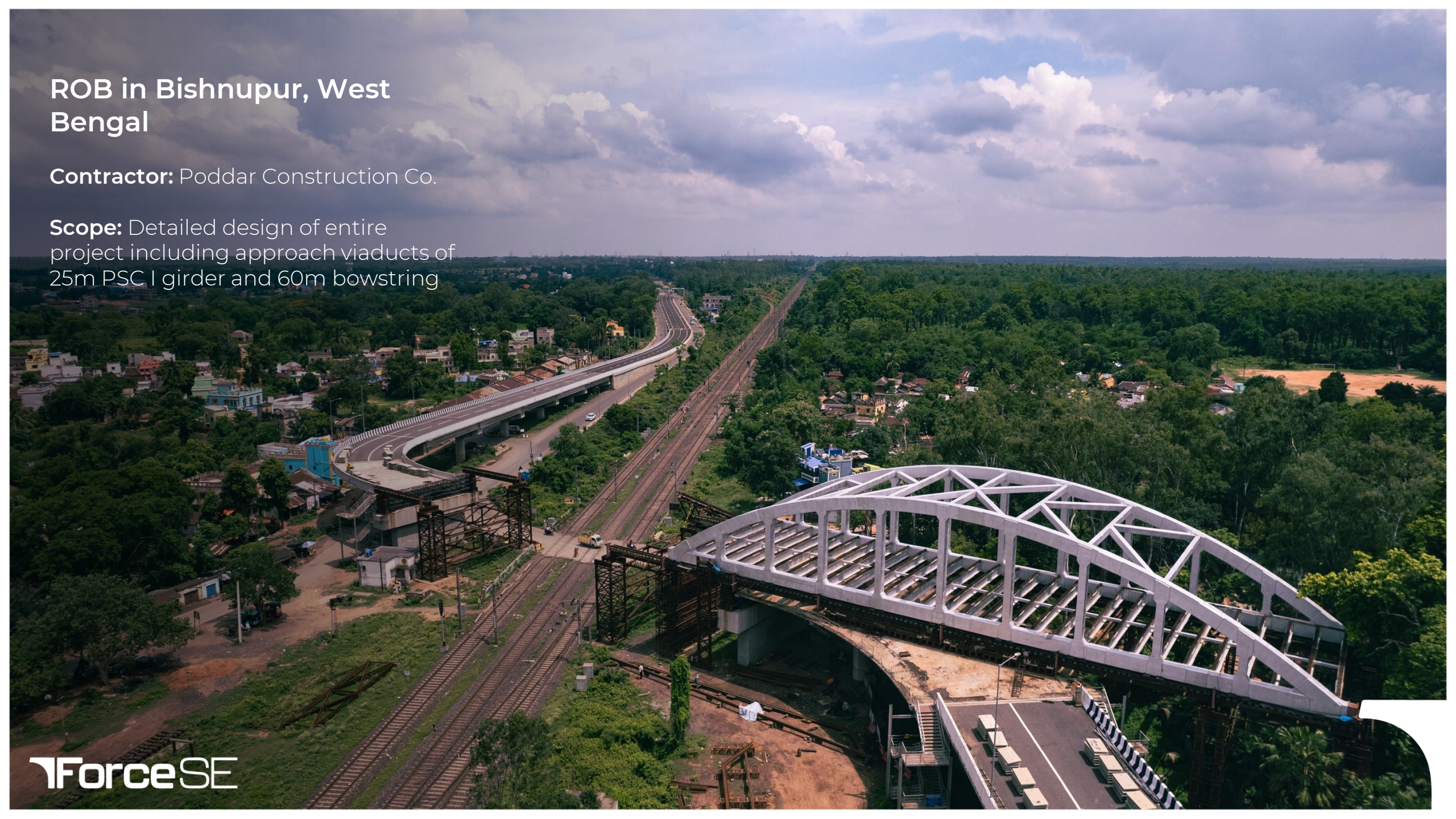
Scope: Detailed design of 5.5 Km long elevated viaduct of 17m deck width and 45m typical spans resting on pile foundations



ROB in Bishnupur, West Bengal

Contractor: Poddar Construction Co.

Scope: Detailed design of entire project including approach viaducts of 25m PSC I girder and 60m bowstring



Elevated corridor in Jabalpur

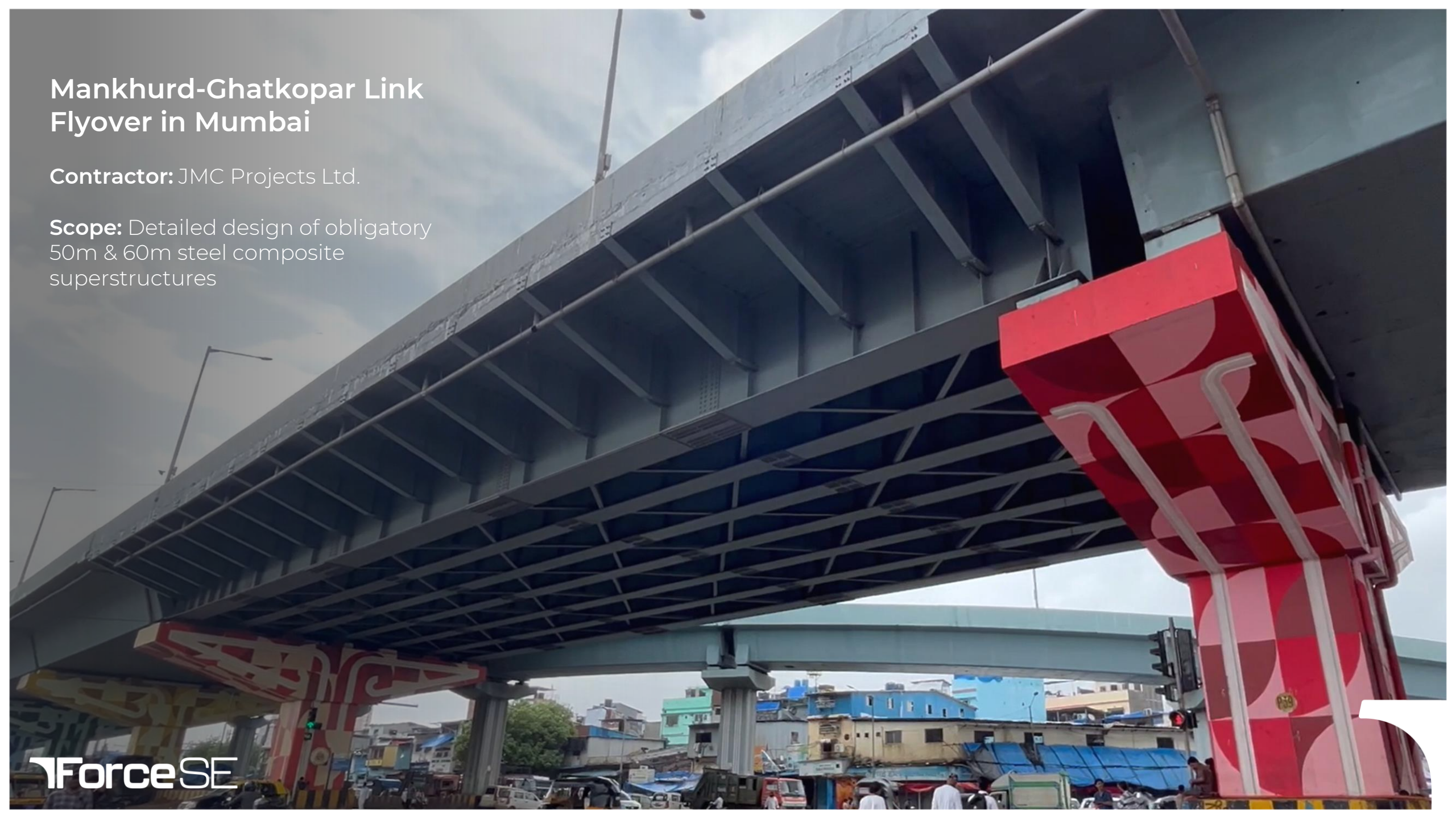
Contractor: NCC Ltd.

Scope: Proof checking cum value engineering of 5.9 Km long elevated structure with elevated rotary, bowstring spans and 193m central span extradosed bridge across railway line

Mankhurd-Ghatkopar Link Flyover in Mumbai

Contractor: JMC Projects Ltd.

Scope: Detailed design of obligatory
50m & 60m steel composite
superstructures





Amar Mahal Flyover on Eastern Expressway in Mumbai

Contractor: NCC Ltd.

Scope: Dismantling engineering of existing bridge + Detailed engineering of complete project involving 35m steel composite superstructures

Contact Us

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