



**Estructura specialised  
Construction Pvt Ltd**

# An ISO Organisation

**CERTIFICATE**

Quality Management System of:

**ESTRUCTURA SPECIALISED CONSTRUCTION PVT. LTD.,**  
F3, Shelters Promoters,  
Sangamitra Flats, Plot No. 29,  
Vasuki Street, Krishnapuram,  
Ambattur, Chennai-600 053  
Tamil Nadu, India

Has been assessed and found to meet the registration requirements of:

**ISO 9001:2015**

The certificate is valid for the following scope of operation:

- > **Design and Execution of Construction Enabling methods and Techniques such as launching Gantries, Formtraveller, Concrete Formworks for Civil Projects**
- > **Providing Specialised Services such as Post Tensioning, Prestressing, Geotechnical Anchoring, Mechanical Splicing and High Tensile Bars System for Civil Projects**

Certificate Registration No. : I006922

Date of 1st Surveillance Due : 30.08.2023	Issue No. : 01
Date of 2nd Surveillance Due : 30.08.2024	Date of Issue : 30.09.2022
Date of re-certification Due : 30.08.2025	* Valid Until : 30.09.2025



**AGQR Certifications Private Limited**

CB Address: A-6, 2nd Floor, A.P. Abhinava, Kavimani Salai, Mogappair West, Chennai-600 037  
Ph: 044 2653 5631 / [www.agqrcertifications.com](http://www.agqrcertifications.com)  
AGQR is Accredited by Singapore Accreditation Services for Certification Bodies (SACB), Singapore

This Certificate is valid for three years subject to the successful completion of two annual surveillance audits. Please Check / Re-check the validity at the above mentioned CB / Accreditation Board Address or Website

This Certificate remains the proprietary of AGQR Certifications Private Limited and shall be returned immediately upon request. This issue of the certificate does not bestow any legal Right.



2

# Introduction - Estructura

**2 PAN INDIA OFFICES**  
**(CHENNAI & DELHI)**

**1 SPECIALISED**  
**PRODUCTION FACTORY**

**40 DEDICATED**  
**PEOPLES**

**80 + ONGOING**  
**PROJECTS INCLUDING**  
**GROUP COMPANY CMC**

**AVG. EXPERIENCE OF**  
**TECHNICAL STAFFS 15+**  
**YEARS**

**ISO CERTIFIED**  
**COMPANY**

**1 GROUP COMPANY –**  
**CONSTRUCTION MEN**  
**CONTRACTS PVT LTD**

## Specialized Main contract

- FOB's ROB's bridges
- Metro and industrial Buildings
- Commercial buildings
- Repair & Retro fitting of concrete structures

## Specialized Sub contract

- Pretensioning /Post Tensioning works
- Geotechnical works
  - PT anchors
  - Micropiles
  - Shotcrete
- Construction Methods
  - Heavy Lifting
  - Incremental Launching system
  - Deconstruction
  - Precasting
  - Cast in situ

## Specialized Products

- Mechanical splicing
- PT bars



# Area of Business

Estructura Specialised Construction Pvt Ltd

## CREDENTIAL REPORT

### INFRASTRUCTURE

- Highways
- Bridges
- Metros
- LNG terminals, silos, wind silos
- Dams and barrages
- Tunnels



### Buildings

- Metro Depot and station buildings
- High rise residential
- High rise commercial
- IT parks
- Hospital
- Hotels
- Education institution



# Architectural ROB's and FOB's



# Repair and retrofitting





# PRESTRESSING - INFRASTRUCTURE

## Prestressing

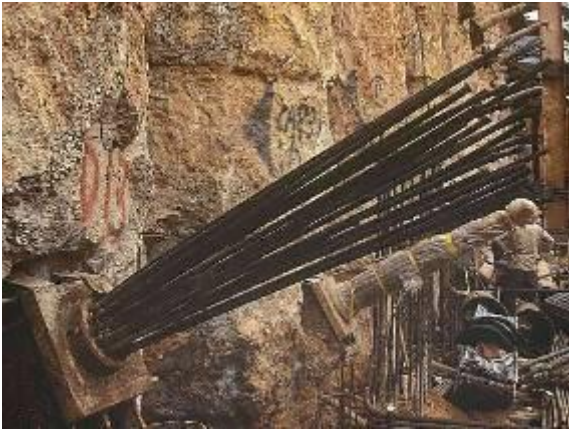
- ▣ Bridges
- ▣ Offshore platforms
- ▣ Silos
- ▣ Other civil structures



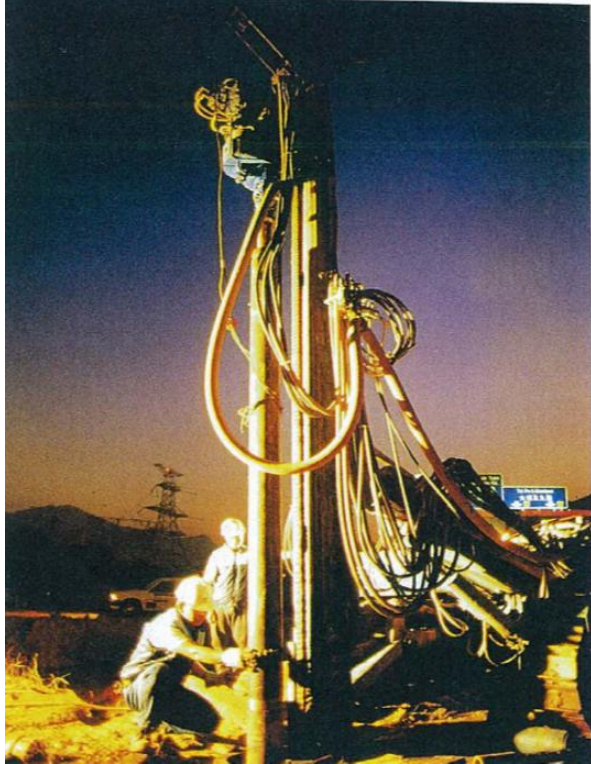


# GEOTECHNICAL – Anchors - strand & bar

**Prestressed ground/rock anchors**  
**Double corrosion protection tendons**



# GEOTECHNICAL – Minipiles, wet/Dry shotcreting





# Construction Methods

**CMC can develop efficient and cost saving construction methods as well as their related activities :**

- ❑ Heavy lifting/  
jacking
- ❑ Incremental  
launching
- ❑ Deconstruction
- ❑ Pre-casting
- ❑ Casting-in-situ



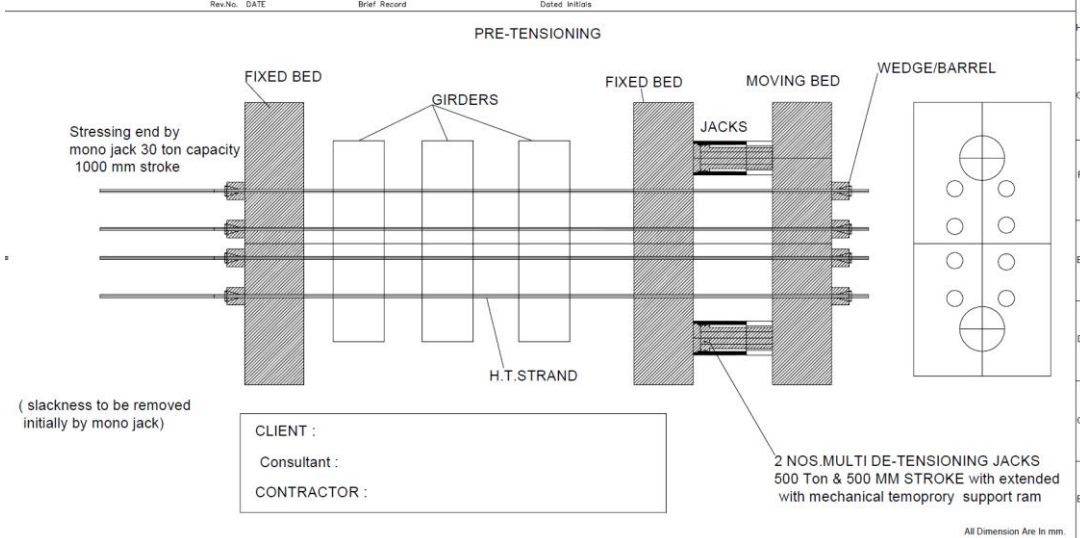


# Construction Methods (Shifting and Lifting)





# Construction Methods (U and I – Girder pretensioning)



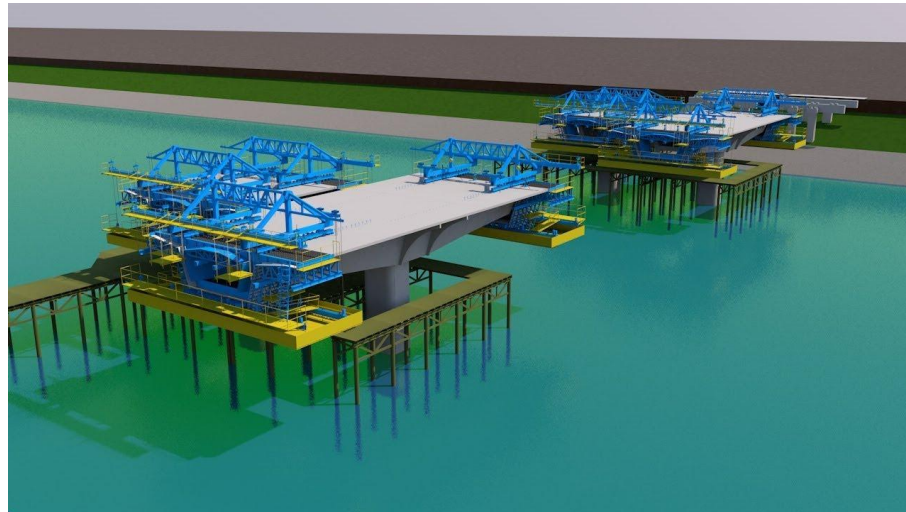


# Launching Gantries





# Form Traveller



# Lifting Frames



# Incremental Launching systems





# Estructura Factory – Manamadurai, Tamilnadu



**4 acre area, 100mtrs x 22mtrs shed**

**EOT cranes -25mt**

# Estructura Factory – Manamadurai, Tamilnadu





# OUR MACHINERY

1. Track cutting machines(pug) – 04nos
2. Hand cutting machines – 03nos
3. Fitting equipment's
4. Welding machines – 12nos
5. Grinding machines – 15nos
6. MPI Test machine – 02no



# OUR MACHINERY

- We have already order some extraordinary machine like

1. CNC Plasma cutting machine
2. Rolling machine
3. Submerged Arc welding machine
4. Vacuum abrasive blasting machine
5. Airless spray painting machine





# Estructura Factory



# Estructura Factory





# Estructura Factory



**Certified Welders**

**Certified inspectors**

**Inhouse testing  
facilities**

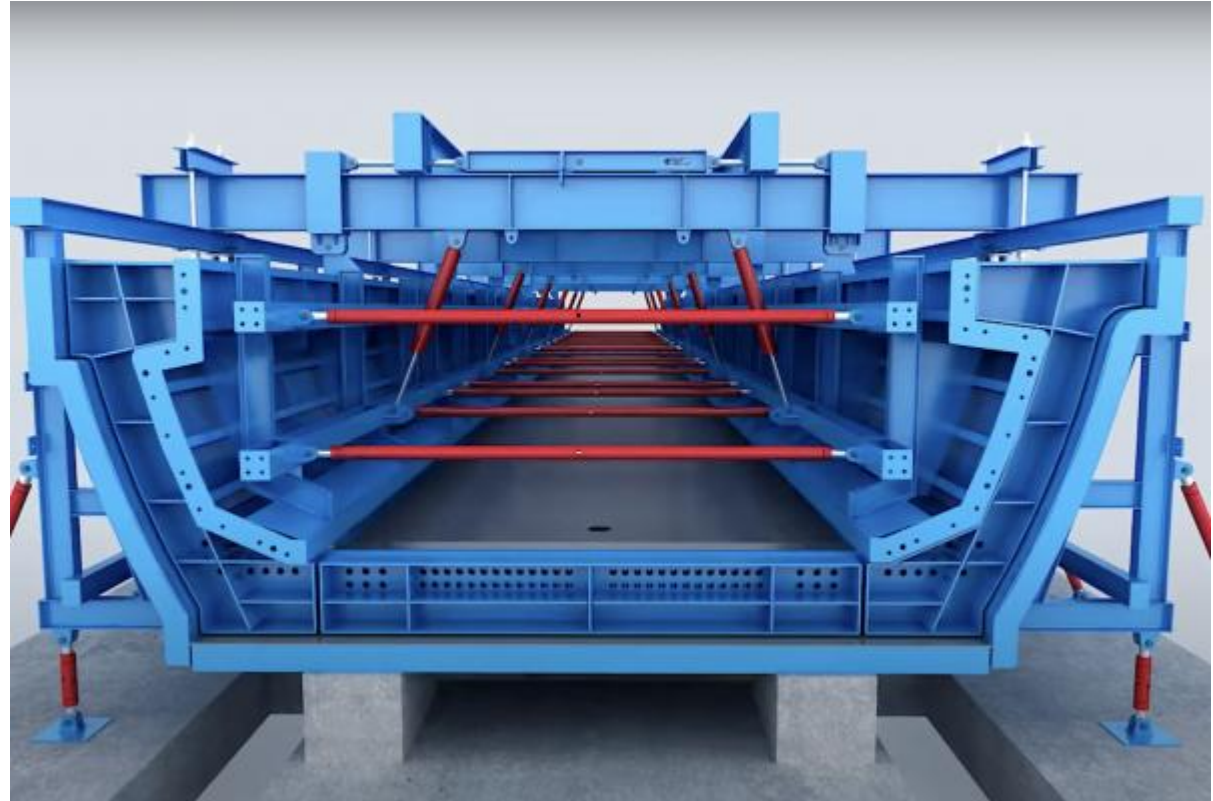


# Short line and Long line concrete segmental bridge moulds fabrication designed and Fabricated by Estructura





# I-Girder and U-girder formwork fabrication designed and Fabricated by Estructura



# I-girder spreader beam Designed and Fabricated by Estructura



**Load Test at site**





# I-Girder shuttering fabrication



# STEEL I - GIRDER FABRICATION





# Bow string Arch bridge Fabrication and painting & Metalizing (42.8 span)



# National Highways Authority of India factory visit





# Jindal stainless steel Management Factory visit



# LG and shuttering despatch from Factory







# Ongoing Projects

# Six Lane ROB between Mahe and Mukkali stations, kerela



**Fabrication Composite I-girder as per RDSO specification**

**Total Fabrication – 1170 MT**

**Length of Girder – Max 49.62 Mtr**





# Six Lane ROB between Mahe and Mukkali stations, kerela



# Construction of Four lane Bangalore Chennai Expressway from Ch.230.000 to ch.261.705



**Design of Prestressing bed, precast Yard, I-girder Mould and operation of Prestressing bed**

**Design and Supply of LG – 100 MT Lifting Capacity**

**Post Tensioning works – 220 MT**

**Prestressing Work – 1580 MT**





# Construction of Four lane Bangalore Chennai Expressway from Ch.230.000 to ch.261.705



**Fabrication Composite I-girder as per RDSO specification**

**Total Fabrication - 430 MT**

**Length of Girder – 43.6mtr**



# Construction of Four lane Bangalore Chennai Expressway from Ch.230.000 to ch.261.705





# Construction of Four lane Bangalore Chennai Expressway from Ch.230.000 to ch.261.705





# Construction of Four lane Bangalore Chennai Expressway from Ch.230.000 to ch.261.705





# Six-Laning of Existing Kozhikode Bypass Section of NH-66 from Km 230+400 to Km 258+800



**Design and Supply of LG – 125 MT  
Lifting Capacity**

**Post Tensioning works – 900 MT**



## Six-Laning of Existing Kozhikode Bypass Section of NH-66 from Km 230+400 to Km 258+800





# KM 0.000 TO KM 124. 636 SECTION OF NH-85 TO 2L/2L+PS – Neriamangalam Bridge, Ernakulam





# KM 0.000 TO KM 124. 636 SECTION OF NH-85 TO 2L/2L+PS – Neriamangalam Bridge, Ernakulam



**Fabrication Composite I-girder as per RDSO specification**

**Total Fabrication - 1115 MT**

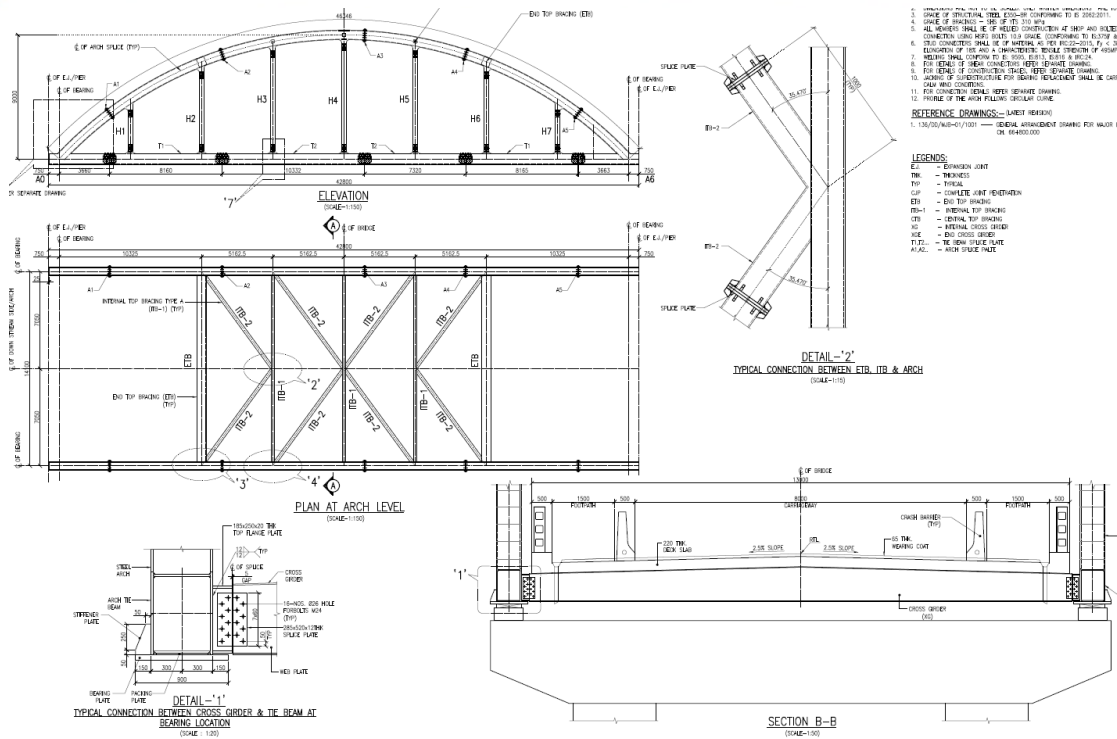
**Length of Girder – 42.8 Mtr**



Network: 05-Apr-2024 at 3:38:46 PM IST  
Local: 05-Apr-2024 at 3:38:45 PM IST  
N 10° 3' 31.429", E 76° 46' 32.001"  
166° 2'  
Neriamangalam Bridge  
Ernakulam 686693  
KL  
India



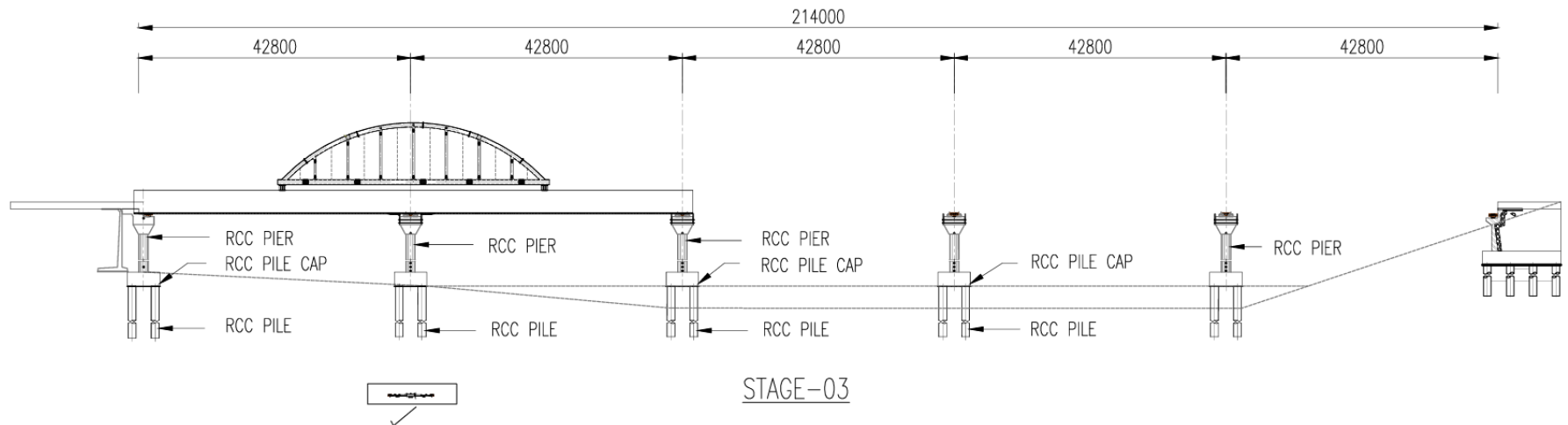
# KM 0.000 TO KM 124. 636 SECTION OF NH-85 TO 2L/2L+PS – Neriamangalam Bridge, Ernakulam



**Fabrication, Supply, Assembly and commissioning of 42.8Mtr span x 5nos – 1115 MT**

**Design, Fabrication, Supply, commissioning and erection of bridge using Bridge Launcher – 325 MT**

# KM 0.000 TO KM 124. 636 SECTION OF NH-85 TO 2L/2L+PS – Neriamangalam Bridge, Ernakulam



**Fabrication, Supply, Assembly and commissioning of 42.5Mtr span x 5nos – 925 MT**

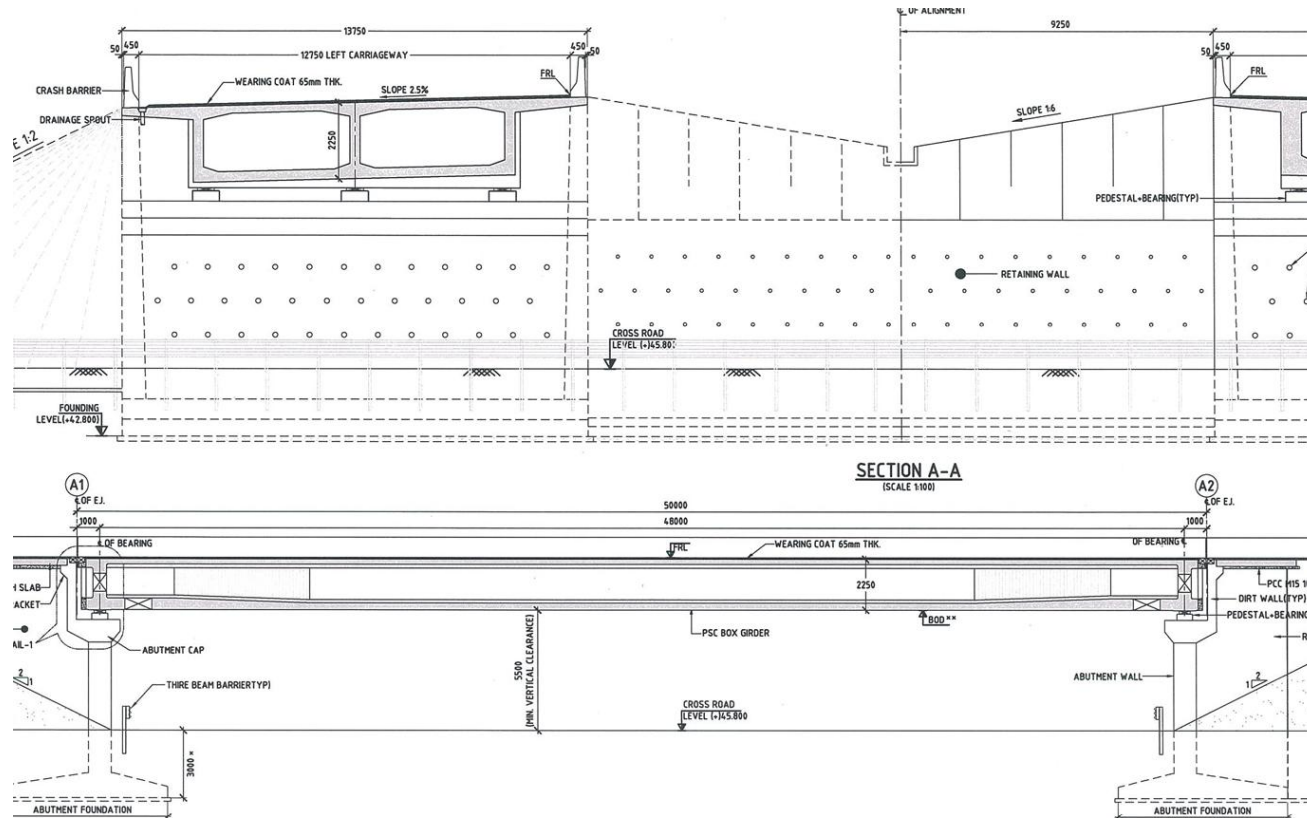
**Design, Fabrication, Supply, commissioning and erection of bridge using Bridge Launcher – 250 MT**



# Launching Girder Assembly, Erection, Launching Commissioning, Testing, Segment Erection & Post Tensioning Works for Versova - Bandra Sea Link Project, Mumbai.



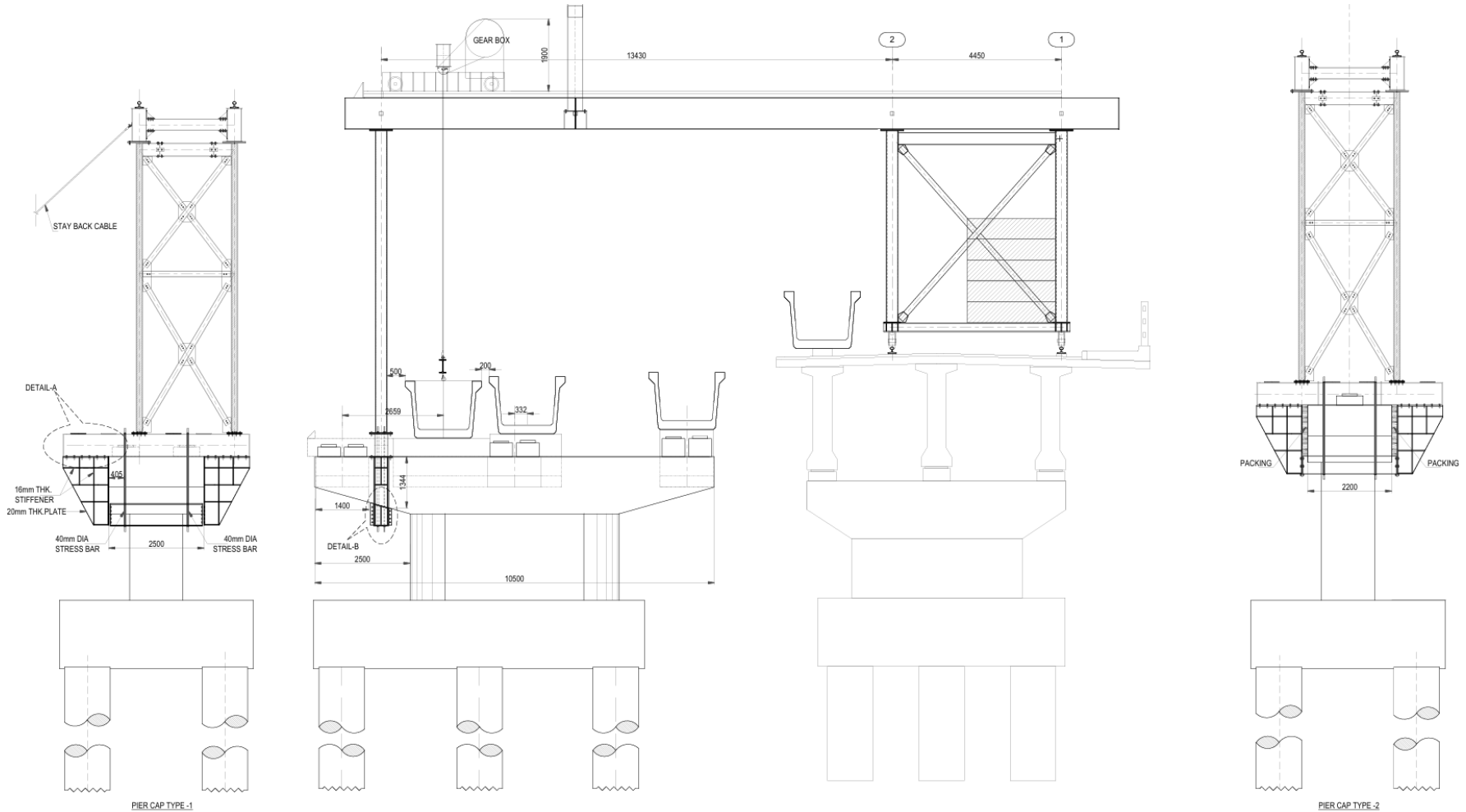
# Construction of Four lane Bangalore Chennai Expressway from Ch.230.000 to ch.261.705 (5nos x 50mtr span box girder)



- 5nos x 50mtr span Box girder
- 150MT of post tensioning works



# Six-Laning of Existing Kozhikode Bypass – 70MT lifting and placing of U-girder



# Buckingham Canal bow string arch – Stainless steel bridge





# Estructura Projects Credentials

S. NO	Project description	Activity	Customer
1	<b>Construction of Trumpet Interchange Connecting Bangalore – Chennai Greenfield Expressway from (Km 261+705 to 262+794) with Madhuravoyal to Wallajapet Section of NH48 near Sriperumbudur toll plaza at Km 35+700 in the State of Tamil Nadu under Bharatmala on EPC Mode</b>	<ul style="list-style-type: none"> <li>- Prestressing I girder– 900nos (1080MT of 38T15 system) of 28.5Mtr</li> <li>- Post Tensioning I girder – 100nos (152 MT of 12T15 and 19T15 system) of 29Mtr</li> <li>- Erection I girder using LG – 505nos of each 70MT capacity</li> </ul>	M/S Ramalingam Construction Company Ltd
2	<b>Construction of Trumpet Interchange Connecting Bangalore – Chennai Greenfield Expressway from (Km 261+705 to 262+794) with Madhuravoyal to Wallajapet Section of NH48 near Sriperumbudur toll plaza at Km 35+700 in the State of Tamil Nadu under Bharatmala on EPC Mode</b>	Fabrication of I-Girder Formwork – 200MT	M/S Ramalingam Construction Company Ltd
3	<b>Construction of Trumpet Interchange Connecting Bangalore – Chennai Greenfield Expressway from (Km 261+705 to 262+794) with Madhuravoyal to Wallajapet Section of NH48 near Sriperumbudur toll plaza at Km 35+700 in the State of Tamil Nadu under Bharatmala on EPC Mode</b>	Fabrication and supply of I-Girder Launching Gantry – 150MT capacity	M/S Ramalingam Construction Company Ltd
4	<b>Six-Laning of Existing Kozhikode Bypass (Near Vengalam JN to Ramanattukara JN) Section of NH-66 from Km 230+400 (Existing Km 230+400) to Km 258+800 (Existing Km 27+840of NH-PWD) under NHDP Phase III on Hybrid Annuity Mode in the State of Kerala</b>	<p>Post tensioning I girder 400nos– 550MT of 19T15, 27T15 system</p> <p>Erection I girder using LG – 120 nos of each 90MT capacity, length of I girder is 37Mtr</p>	M/S KMC
5	<b>Six-Laning of Existing Kozhikode Bypass (Near Vengalam JN to Ramanattukara JN) Section of NH-66 from Km 230+400 (Existing Km 230+400) to Km 258+800 (Existing Km 27+840of NH-PWD) under NHDP Phase III on Hybrid Annuity Mode in the State of Kerala</b>	Fabrication and supply of I-Girder Launching Gantry – 150MT capacity	M/S KMC

# Estructura Projects Credentials

S.NO	Project description	Activity	Customer
6	Sumit sood – Anand Niketan, Delhi	Building construction along with prestressing – 12.7mm strand	M/S AASHRAY
7	Commercial building at new friends colony, Delhi	Building construction along with prestressing – 12.7mm strand	M/S AASHRAY
8	KM 0.000 TO KM 124. 636 SECTION OF NH-85 TO 2L/2L+PS – Neriamangalam Bridge, Ernakulam	<ul style="list-style-type: none"> <li>- LG supply – 250MT capacity and</li> <li>- Bow string arch bridge fabrication and erection – 1115 MT</li> </ul>	M/S EKK Infra
9	Six Lane ROB between Mahe and Mukkali stations, kerela	Fabrication and supply of composite I-Girder - 1170 MT	M/S EKK Infra
10	Six-Laning of Existing Kozhikode Bypass (Near Vengalam JN to Ramanattukara JN) Section of NH-66 from Km 230+400 (Existing Km 230+400) to Km 258+800 (Existing Km 27+840of NH-PWD) under NHDP Phase III on Hybrid Annuity Mode in the State of Kerala	Fabrication and supply of I-Girder Launching Gantry	M/S KMC
11	Villupuram – Puducherry NH project	Supply of Rebar coupler and Prestressing works	M/S Dilip buildcon Ltd



# Estructura Projects Credentials

S.NO	Project description	Activity	Customer
12	<b>Doda-ballapur bypass to Hoskote project</b>	Supply of Rebar coupler	M/S Dilip buildcon Ltd
13	<b>Commercial building- Perumbakkam</b>	Supply and installation of prestressing system in the raft building	M/S Uma Civil construction
14	<b>Four lane Bangalore Chennai Expressway project under baratmala on hybrid annuity mode (Phase 3, package 4)</b>	Fabrication and supply of spreader beam	M/S Ramalingam Construction Company Ltd
15	<b>Launching Girder Assembly, Erection, Launching Commissioning, Testing, Segment Erection &amp; Post Tensioning Works for Versova - Bandra Sea Link Project, Mumbai.</b>	Span erection and post tensioning activities of 65MT segmental sea link bridge	M/S Apco
16	<b>Construction of Four lane Bangalore Chennai Expressway from Ch.230.000 to ch.261.705 (5nos x 50mtr span box girder)</b>	Post tensioning works – 150MT of 19T15 system	M/S Ramalingam Construction Company Ltd
17	<b>Four lane Bangalore Chennai Expressway project under baratmala on hybrid annuity mode (Phase 3, package 4)</b>	Fabrication and supply of composite I-Girder - 430 MT	M/S Ramalingam Construction Company Ltd
18	<b>Six-Laning of Existing Kozhikode Bypass (Near Vengalam JN to Ramanattukara JN) Section of NH-66 from Km 230+400 (Existing Km 230+400) to Km 258+800 (Existing Km 27+840of NH-PWD) under NHDP Phase III on Hybrid Annuity Mode in the State of Kerala</b>	Fabrication and supply of Launching Gantry – 70MT	M/S KMC

# Estructura team members involved in few important projects execution - BWSL



- 3 LG's operation
- 8 sets Lifting derrick
- PT works – 4500MT
- Installation of Stay cable works



# Estructura team members involved in few important projects execution - MTHL



**PT works – 12000MT  
(Internal and External  
Unbonded PT)**



## **Estructra team members involved in few important projects execution – Chambal stay cable bridge**



- 2 sets of Formtraveller**
- PT works – 4500MT (Internal & External)**
- installation of Stay cable works**



# Estructura team members involved in few important projects execution – Lakhadiya stay cable bridge



**- 2 sets of Formtraveller**

**- Installation of Stay cable works**



# Estructura team members involved in few important projects execution – Bhardhawan stay cable bridge



- Lifting derrick operations

- Installation of Stay cable works





# Estructura team members involved in few important projects execution

## Chennai Metro Phase - 1



**- LG operations**

**- PT installation**



# Estructura team members involved in few important projects execution – Riyadh Metro Line 3



- 3 nos of LG operations
- PT installation



# Estructura team members involved in few important projects execution – KVMRT Phase 1 and 2, Malaysia



- 2 nos of LG operations
- PT installation





# Estructura team members involved in few important projects execution – Zuari bridge, Goa



- 4 nos of Lifting derrick operations
- 2 nos of LG operation
- PT installation



# Estructura team members involved in few important projects execution – Chennai Metro double decker





# Thank You



**Estructura specialised Construction Pvt  
Ltd**