

ARES Panel Reinforced Soil wall in the heart of Mumbai city

Lower Parel Bridge of N.M Joshi & G.K Road Marg, Western Railway Quarters

Mumbai, India

CLIENT'S CHALLENGE

According to IIT Bombay's structural stability report, the existing three-arm bridge structure was deemed unsafe. This vital link connects major city areas including Parel, Dadar, Mahalaxmi and Currey Roads. Its closure severed regional connections and disrupted public movement, necessitating urgent reconstruction. The project faced significant challenges: tight construction timeframes, constrained working space and complex traffic diversion requirements.

TENSAR SOLUTION

Tensar supplied the ARES Reinforced Soil wall system featuring 1.5m x 1.5m concrete panel facia connected to Tensar uniaxial RE 500 geogrids. The geogrids were casted into concrete panels to create connection tabs, using bodkins for panel attachment. Tensar designed the system with their TensarSoil software, complying with IRC SP 102, and provided installation training and technical approval assistance.

B E N E F I T S

- **Ease of construction** within constraint space in city centre
- **Eliminates on-site casting and curing**, unlike conventional RCC wall solutions.
- **Savings in** construction, cost and time

Tensar
A Division of CMC

PROJECT DETAILS

Constructed in
2022

Client
Municipal Corporation of Greater Mumbai (MCGM)

Consultant
TPF Engineering Pvt Ltd.

Contractor
Pinnakee Engineers & Developers



A close up of the installation of ARES Reinforced Soil Wall at Lower Parel Bridge.

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