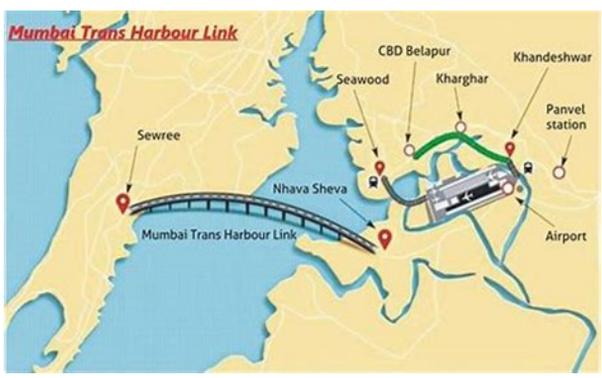
MUMBAI TRANS HARBOUR LINK PROJECT PACKAGE I

TEMPORARY ACCESS BRIDGE PROJECT

Project Name	Mumbai Trans Harbour Link Project Package I
Owner	Mumbai Metropolitan Regional Development Authority
Contractor	L&T – IHI Consortium
Location	Mumbai, India
Product	Bridge Girders
Quantity	2,780MT
Delivery Date	April 2019



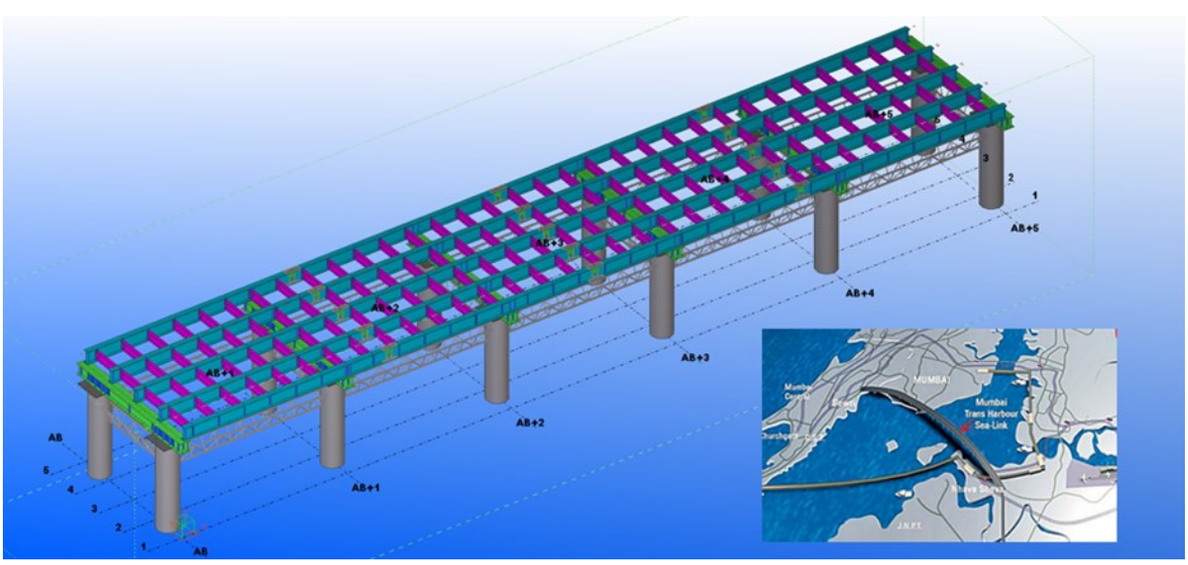
INTRODUCTION

The Mumbai Trans Harbour Link (MTHL), is an under-construction 21.8 km, freeway grade road bridge connecting the Indian city of Mumbai with Navi Mumbai, its satellite city. When completed, it would be the longest sea bridge in India. The sea link will contain a 6 lanes highway, which will be 27 meters in width, in addition to two emergency exit lanes, edge strip and crash barrier.

ESC SCOPE OF SUPPLY

BRIDGE COMPONENTS

ESC was awarded the scope of work for full steel fabrication works for bridge girders, cross beams, floor beams, and decking panels for a total length of over 960 meters in Mumbai, India.



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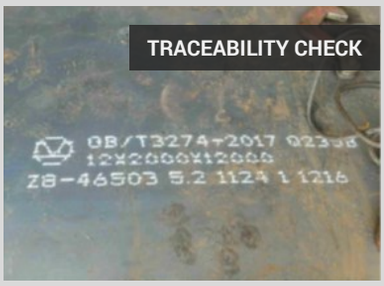
INCOMING MATERIAL INSPECTION

Material Grade: ASTM A36/A36M or GB/T700 Q235B with yield strength min. 250 MPa

All raw materials are visually inspected, dimension checked, traceability checked, and review mill test certificate during the incoming process. Major components will be retested in 3rd party lab to ensure the mechanical properties and chemical compositions are acceptable.


RECTANGULAR BARS


DIMENSION INSPECTION


TRACEABILITY CHECK


C CHANNEL


PLATE CUT & MARKED FOR RETEST


MATERIAL RETEST

PRODUCTION PROCESSES

DECK PANEL

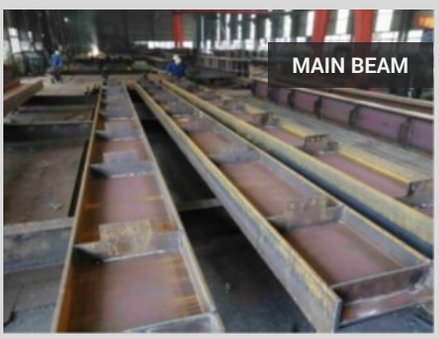
FLOOR BEAM

Welding Procedure : ASME Section IX

NDT: AWS D1.1 (100% VT, 10% MT/PT – PJP Welds, 20% UT – CJP Welds)


ULTRASONIC TEST


DRY PENETRANT TEST


MAIN BEAM

TRIAL ASSEMBLY

Trial Assembled Main Girders, Cross Beams and Splice Plate.

Trial Assembled Deck Panel.

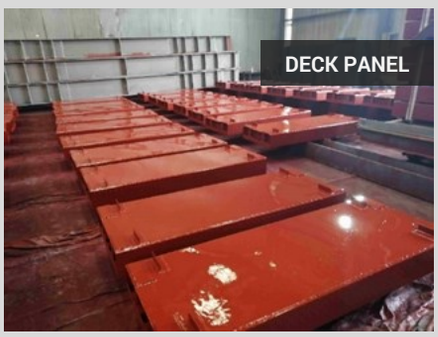
PAINTING

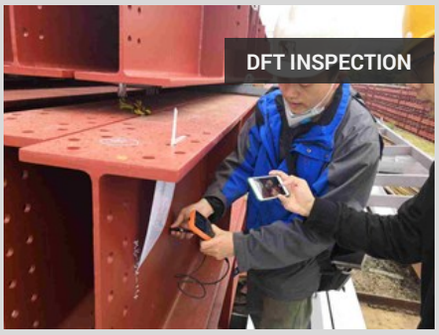
Painting System: Fast-drying Epoxy Iron Red Primer

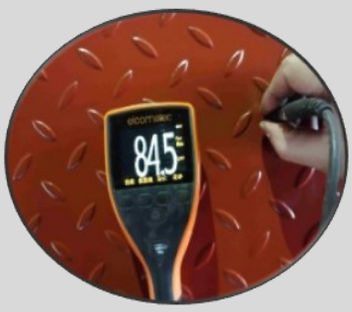
Color: Red

Total DFT: 70 mircons

Application Method: Airless Spray







PACKING, STACKING AND EX-MILL

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ARRIVAL IN PORT STORAGE YARD

SHIP LOADING

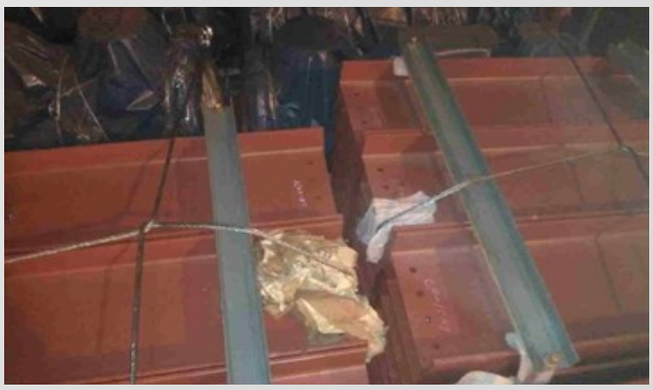
ESC has assigned inspectors to monitor the entire ship loading process to ensure safe, secure, and sufficient protection to prevent damages during the shipping process. Soft sling is used to prevent damages



STACKING, LASHING AND PROTECT IN SHIP





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INSTALLATION ON SITE