



1st Pier of Mumbai Metro Line-6's Double Decker Ready

J Kumar Infra projects – CRTG JV's first pier for a 2.58 km double decker structure on Mumbai Metro's 15.18 km Line-6 (Pink Line) is now ready on the city's Jogeshwari–Vikhroli Link Road (JVLR).

This combined pier has been built at Oberoi International School near the upcoming Shyam Nagar Station just east of the Western Express Highway (WEH). It has a width of 1.8m and now consists of two precast prestressed pier caps –

1. 17.8m wide pier cap for a flyover to support vehicles. 6 T-girders will be launched to build its deck.
2. 10.56m wide pier cap for a viaduct to support metro trains. 2 U-girders will be launched in the future to build its deck.

The execution of this complex project – connecting Swami Samarth Nagar with Vikhroli – with steep gradients and a total of 53 curves (17 sharper than 300m radius) is being managed by the Delhi Metro Rail Corporation (DMRC). To support its construction without disturbing vehicular traffic, J Kumar Infra projects in 2020 deployed a massive straddle carrier which is typically seen at shipping ports.

The exact start/end points of the double-decker structure are unknown, but it will come up between Adarsh Nagar Station and Shyam Nagar Station, which is under the ambit of J Kumar – CRTG JV's Package BC-03.

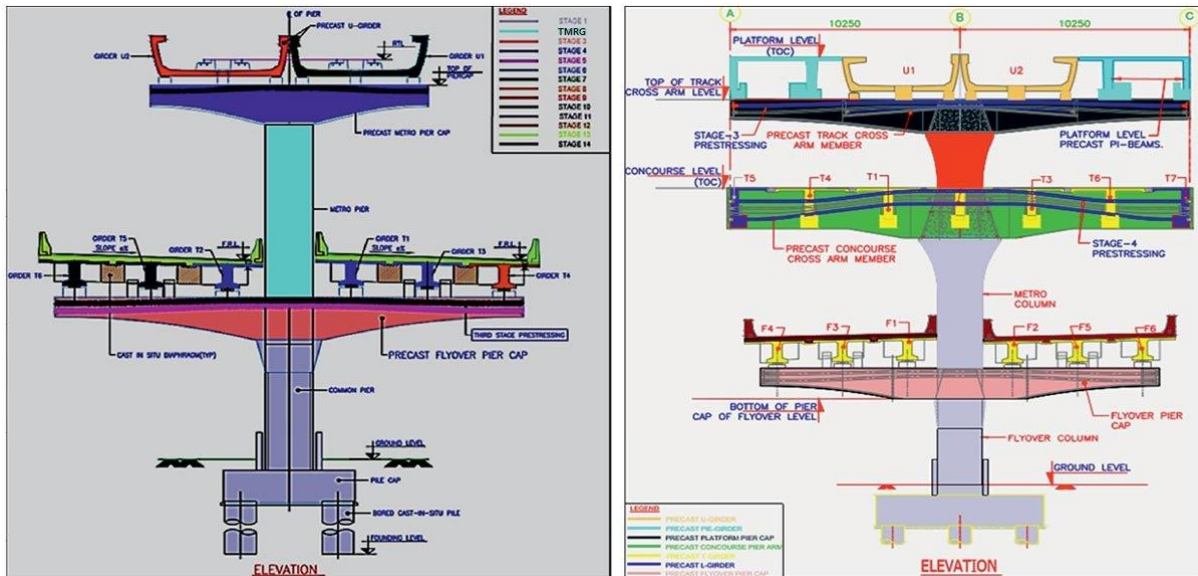
Its construction contract was awarded by DMRC in August 2018 with a contract value of Rs. 867.75 crore. It involves the construction of a 6.079 km viaduct from chainage – 822.508m to 5257.400m and five stations at Swami Samarth Nagar, Adarsh Nagar, Jogeshwari (W), JVLR and Shyam Nagar.

Here's a snap shared by follower 'Lost in Mumbai' on Twitter last week:



Photo Copyright: Lost in Mumbai

Below on the left is a design of the double-decker's combined pier. Metro trains elsewhere on the line will typically run at an average height of 11m above the ground level, but on the double-decker, they'll run at an average height of approximately 19m above the ground.



Copyright: DMRC

The diagram on the right shows Line-6's Adarsh Nagar Station which will consist of 3 levels above the ground level:

- Level-1: Flyover for vehicles
- Level-2: Concourse level for ticketing / customer service etc.
- Level-3: Platform level for metro trains (25m above the ground)

A similar 3 level structure is going to come up at Meditya Nagar on Mumbai Metro's Line-9 in Mira Bhayandar which is also under construction by J Kumar Infra projects through Package CA-48. Elsewhere in India, HCC-URCC JV is currently constructing a 4-level structure for Bangalore Metro's Jayadeva Station. With a pre-existing underpass, that intersection will eventually have a total of 6 levels!

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