

# Case Study



## PROJECT INFORMATION

- Project name:** Delhi Metro Rail Corporation, phase III
- Client:** Delhi Metro Rail Corporation
- Contractors:** AFCONS, JMC CHEC JV, Larsen & Toubro, ITD-ITD Cem JV and others
- Location:** New Delhi, India

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## PROJECT REQUIREMENT

### Task at Hand

Delhi metro is the world's thirteen longest metro system. Currently, the project in its third phase which consists of 160 km line with eleven route extensions.

One of the major challenges in this phase was to construct an elevated viaduct consisting of 11 precast concrete segments of Grade M50 on a suspended girder in order to reduce the disturbance to traffic and enabling a faster construction process. It was highly important to guarantee that the bonding material between these segments has an exceptional bond strength, fast curing time, excellent water tightness properties and grey colour to be similar to concrete colour.

## DCP SOLUTION

In order to fulfill all these requirements, DCP has supplied Quickmast SBA which is a two component, high viscous and solvent free epoxy based adhesive especially designed for bonding segmental concrete bridges.

Quickmast SBA is available in three grades according to the application temperature which are:

- Quickmast SBA 1: for temperatures ranges from 5°C to 20°C.
- Quickmast SBA 2: for temperatures ranges from 15°C to 30°C.
- Quickmast SBA 3: for temperatures ranges from 25°C to 40°C.

All these grades are characterized with several advantages that exceed the client expectations including but not limited to:

- Extremely high compressive strength.
- Suitable curing time.
- Uniform grey colour.

### Products and Quantities Supplied

Product	AFCONS	JMC	L&T	ITD Cem JV	S.P Singla	YFC	Total
Quickmast SBA 1	4,986	13,992	13,494	1,992	360	-	34,824
Quickmast SBA 2	9,690	23,988	10,500	6,492	-	-	50,670
Quickmast SBA 3	14,556	22,494	14,598	7,584	2496	1998	63,726
TOTAL	29,232	60,474	38,592	16,068	2,856	1,998	149,220

### Supply Period

2013 to June 2016.

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