

## Flyover bridge near Athwa Gate



Category IV -  
Innovative  
Construction  
Engineering

Indian Institution of Bridge Engineers  
4th Most Outstanding Bridge National Awards - 1997  
**Flyover Bridge at Athwa Gate Junction (Surat)**



### Project Technical Details

1.	<b>Location</b>	Road from Sardar Bridge to R.T.O. office on Ring road.
2.	<b>River/Nala/Creek</b>	Fly Over Bridge
3.	<b>Lane</b>	Two lane
4.	<b>Year of construction</b>	1997
5.	<b>Cost</b>	Rs.704.73 Lacs
6.	<b>Details of Bridge</b>	
	<b>(i)Length of Bridge</b>	692.12 (single lane) + 156.8 mtr. (double lane)
	<b>(ii)Length of Bridge</b>	5.50 (single lane) + 8.10 mtr. (double lane)
	<b>(iii) Number of span</b>	67
	<b>(iv) Span Length</b>	RCC Slab : 11.20 mtr PSC Slab : 22.40 mtr
	<b>(v) Carriage Way</b>	4.9 mtr. single lane (divided) and 7.5 mtr. double lane.
	<b>(vi) Length of Returns</b>	R.T.O.side 68.00 mtr.
7.	<b>(i)Design Discharge</b>	-----
	<b>(ii) Design H.F.L.</b>	-----
	<b>(iii) Type of bridge</b>	Fly Over bridge.
	<b>(iv) F.R.L.</b>	Varying
8.	<b>Structural Details :</b>	
	<b>(i) Foundation.</b>	1.00 mtr 1.2 mtr dia Bored cast in situ pile in M-20 & M-25 concrete
	<b>(ii) Substructure</b>	R. C. C. in M-25 single circular column 1.75 mtr. dia. For single lane and 2 Nos.1.2 mtr. dia. Two lane span.
	<b>(iii) Superstructure</b>	R.C.C. in M-25 solid slab decking for 11.2 mtr. spans and PSC Solid slab in M-35 Concrete for Super structure & Elastomeric bearing 22.4 mtr. spans for single lane, and R.C.C. M-20 girder/slab for double lane.
	<b>(iv) General Items</b>	R.C.C. M-20 Parapet
9.	<b>Name of Contractor</b>	Vijay M. Mistry Construction Pvt. Ltd., Ahmedabad.
10.	<b>Name of Consultant</b>	Multi Media Consulting Engineers, Ahmedabad.