

## Construction of bridge on Mithi khadi in upstream of existing bridge near Dumbhal tenament, Surat



1.	<b>Location</b>		Near Dumbhal Tenament and Anjana Sewage treatment plant
2.	<b>River/Nala/Creek</b>		Creek bridge
3.	<b>Lane</b>		Two
4.	<b>Year of Construction</b>		Oct. - 2006
5.	<b>Cost</b>		Rs. 81.12 Lacs
6.	<b>Details of Bridge:-</b>		
	1	<b>Length of bridge between ends of decking</b>	36.90 mt. (skew bridge)
	2	<b>Width of Bridge</b>	11.250 mt
	3	<b>No. of spans</b>	3
	4	<b>Span length</b>	12.30 mt.
	5	<b>Carriage way</b>	7.50 mt. + 1.50 mt. footpath on one side (U/s side) + 1.80 mt. Cantilever slab for service on adjoining existing bridge side.
	6	<b>Length of RCC approaches &amp; returns</b>	14.00 mt + 14.00 mt
7.	<b>(i) Design Discharge</b>		740 cumecs
	<b>(ii) Design H.F.L.</b>		R.L. (+) 10.40 mt.
	<b>(iii) Type of Bridge</b>		Submersible
	<b>(iv) F.R.L. (Road top)</b>		R.L. +9.80 mt
8.	<b>Structural details :</b>		
	<b>(i) Foundation</b>		1000 mt. dia. Pile foundation in M30 concrete
	<b>(ii) Substructure</b>		Pile cap M20 controlled concrete, RCC wall type piers
	<b>(iii) Superstructure</b>		RCC solid slab in M20 controlled conc. and supported over Elastomeric bearings, Concrete wearing coat in M25 controlled concrete
	<b>(iv) General items</b>		Post and Pipe railing
9.	<b>Name of Contractor</b>		Sonal Construction, Surat
10.	<b>Name of Design Consultant</b>		Jignesh B. Gandhi, Casad Consultant, Ahmedabad.