

## Low Level Submersible bridge across river Tapti near Makaipool ( Swami Vivekanand Bridge)



### Project Technical Details

1.	<b>Location</b>	Road from Makai pool on left bank to Adajan on right bank.
2.	<b>River/Nala/Creek</b>	Tapi River
3.	<b>Lane</b>	Four
4.	<b>Year of construction</b>	1996
5.	<b>Cost</b>	Rs.1551.28 Lacs
6.	<b>Details of Bridge</b>	
	<b>(i) Length of Bridge between ends of decking</b>	625.00 mtr.
	<b>(ii) Width of Bridge</b>	19.520 mtr.
	<b>(iii) Number of span</b>	25 Nos.
	<b>(iv) Span Length</b>	25 mtr.
	<b>(v) Carriage Way</b>	2x7.5 mtr. + 1.5 mtr. Wide footpath on both side.
	<b>(vi) Length of Returns</b>	Left side -
		Right side - 34.40 mtr.
7.	<b>(i) Design Discharge</b>	34000 Cumecs
	<b>(ii) Design H.F.L.</b>	R.L. 13.90 mtr.
	<b>(iii) Type of bridge</b>	Submersible bridge
	<b>(iv) F.R.L.</b>	R.L. (+) 10.80 mtr.
8.	<b>Structural Details</b>	
	<b>(i) Foundation</b>	R.C.C.bored cast in situ pile foundation 1.5 mtr. Dia. Under piers and abutments in M30 concrete.
	<b>(ii) Substructure</b>	R.C.C.single circular column in M25 concrete.
	<b>(iii) Superstructure</b>	Pre-stressed M-40 solid slab, simply supported on elastomeric bearings and anchored in pier cap.
	<b>(iv) General Items</b>	R.C.C. type railings.
9.	<b>Name of Contractor</b>	Vijay M. Mistry Construction Pvt.L:td., Ahmedabad.
10.	<b>Name of Consultant</b>	Multi Media Consulting Engineers, Ahmedabad.