

Sardar Patel Bridge across river Tapi



Project Technical Details

1.	Location	Road from Athwa Gate, Ring Road to Adajan
2.	River/Nala/Creek	Tapi River
3.	Lane	Four
4.	Year of construction	1991
5.	Cost	Rs.1365.40 Lacs
6.	Details of Bridge	
	(i) Length of Bridge between ends of decking	700.00 mtr.
	(ii) Number of span	14 Nos.
	(iii) Span Length	50.00 mtr.
	(iv) Carriage Way	2 x 7.5 mtr.+ 3.15 mtr. wide footpath on both side.
	Width of bridge	22.40 mt
	(v) Length of Returns	Left side - 217 mtr.
		Right side - 232 mtr.
7.	(i) Design Discharge	34000 Cumecs
	(ii) Design H.F.L.	R.L. 11.40 mtr.
	(iii) Type of bridge	High level bridge
	(iv) F.R.L.	R.L. (+) 16.50 mtr.
8.	Structural Details	
	(i) Foundation	Single circular c.c. well foundation 7.5mt dia., 45.46 mt. deep below well cap.
	(ii) Substructure	R.C.C. ' V ' Shaped Pier
	(iii) Superstructure	Pre-stressed concrete 6 girder system simply supported over bearings and R.C.C. Deck slab
	(iv) General Items	R.C.C. precast Parapet
9.	Name of Contractor	1. Bridge - Gujarat State Construction Corporation Ltd., Gandhinagar 2.Approach : Sona Builder. Surat
10.	Name of Consultant	Stup Consultant, Mumbai.