

Bridge across creek near Varachha Water Works



1.	Location	Road from Surat to Kamrej
2.	River/Nala/Creek	Local creek
3.	Lane	Two
4.	Year of construction	1991
5.	Cost	Rs.23.71 Lacs
6.	Details of Bridge	
	(i) Length of Bridge between ends of decking	33.5 mtr.
	(ii) Width of Bridge	9.50 mtr.
	(iii) Number of span	Three
	(iv) Span Length	2 x 10 mtr + central 13.5 mtr.
	(v) Carriage Way	7.5 mtr. + 1.5 mtr. Wide footpath on one side,
	(vi) Length of Returns	Left side - 6.4 mtr.
		Right side -16.9 mtr.
7.	(i) Design Discharge	100.00 Cumecs
	(ii) Design H.F.L.	R.L. 13.10 mtr.
	(iii) Type of bridge	High Level bridge
	(iv) F.R.L.	15.925 mtr
8.	Structural Details	
	(i) Foundation	Open type R.C.C. M-20 foundations.
	(ii) Substructure	R.C.C. M-20 wall type pier as substructure.
	(iii) Superstructure	R.C.C.M-20 T beam and deck slab simply supported on elastomeric bearings.
	(iv) General Items	A separate structure for R.C.C. foot bridge is provided.R.C.C. M-20 parapet.
9.	Name of Contractor	M/s. Shreeji Builders, Surat.
10.	Name of Consultant	Multi Media Consulting Engineers, Ahmedabad.