

## Bridge across Puna Kumbharia near Lakshmi Motors



1.	Location	Road from Surat city Sahara darwaja to Kadodara.
2.	River/Nala/Creek	Koyali khadi
3.	Lane	Two lane
4.	Year of construction	1994
5.	Cost	Rs.47.34 Lacs
6.	Details of Bridge	
	(i) Length of Bridge	53.00 mtr.
	(ii) Width of Bridge	19.540 mtr.
	(iii) Number of span	Three
	(iv) Span Length	21.10 + 2 x 15.95 mtr.
	(v) Carriage Way	3.75 mtr. + 7.3 mtr. + 3.75 mtr. and 1.5 mtr. wide footpath on both side.
	(vi) Length of Returns	Left side - 3.65 mtr. Right side - 3.65 mtr.
7.	(i) Design Discharge	410 Cumecs
	(ii) Design H.F.L.	R.L.7.70 mtr.
	(iii) Type of bridge	High Level bridge.
	(iv) F.R.L.	11.30 mtr.
8.	Structural Details :	
	(i) Foundation.	Open foundations for piers in M-20 concrete. Bored cast in situ piles of 1000 mm dia in M-20 concrete for abutment.
	(ii) Substructure	R.C.C. M-20 concrete for piers, 1.5 mtr. dia in M-20 for abutments piles extended to support deck on pile cap direct.
	(iii) Superstructure	Pre-stressed concrete M-40 solid deck supported over elastomeric bearings.
	(iv) General Items	R.C.C. M-200 H-type parapet in.
9.	Name of Contractor	M/S. Trishul Construction Co., Patan.
10.	Name of Consultant	Multi Media Consulting Engineers, Ahmedabad.