

Bridge across river Tapi joining Nana Varachha and Mota Varachha (Savjibhai Korat Bridge), Surat



Project Technical Details

1.	Location	: Road from Nana Varachha on left bank to Mota Varachha on right bank.
2.	River/ Nala/ Creek	: Tapi river
3.	Lane	: Four
4.	Year of Construction	: May - 2001
5.	Cost	: Rs. 1947.35 Lacs
6.	Details of Bridge	:
7.	(i) Length of Bridge (Between ends of Decking)	: 544.6 mt.
	(ii) Widht of Bridge	: 21.50 mt.
	(iii) Number of Span	: 13 nos.
	(iv) Span Length	: 11 spans of 42 mt. each & 2 spans of 41.3 mt. each at ends.
	(v) Carriage Way	: 7.5 mt +7.5mt and 1.8 mt. wide footpath on both sides and central verge of 1.20 mt.
	(vi) Length of R.C.C. Approaches &Returns	: Left side - 103.00 mt., Right side - 152.0 mt.
	Width of bridge	: 21.500 mt
8.	(i) Design Discharge	: 34000 cumecs
	(ii) Design H.F.L.	: R.L. + 15.0 mt.
	(iii) Type of Bridge	: High level Bridge
	(iv) Finished Road top level	: 19.66 mt.
9.	Structural Details	:
	(i) Foundation	: Bore cast in situ in M-30 concrete piles having 1500 mm dia mt. depth of pile below pile cap. (1) Pier pile cap : 30.80 mtr (2) A/R. pile cap : 21.50 mtr (3) A/L pilecap : 24.00 mtr.
	(ii) Substructure	: Wall type pier in M-20 Concrete.
	(iii) Superstructure	: Pre-stressed concrete in M-45 in 6 girder supported on elastomeric bearings.
	(iv) General Items	: R.C.C. M-20 parapet.
10.	Name of Contractor	: Vijay M. Mistry Construction Pvt. Ltd., Ahmedabad
11.	Name of Design Consultant	: Multi Media Consulting Engineers, Ahmedabad.
12.	Name of Project Management Consultant	: Lea Associates South Asia Pvt. Ltd., New Delhi.