

Construction of Flyover at Amroli junction, Mansarovar junction and Cross Road junction in Surat city



Project Technical Details

1.	Location	Amroli junction, Mansarovar junction and Cross Road junction in Surat city d from Ring Road to Adajan
2.	River/Nala/Creek	Flyover Bridge
3.	Lane	2 lane in both direction (2+2)
4.	Year of construction	Completed (30/01/2019)
5.	Cost	Rs. 7462.30 Lacs
6.	Details of Bridge	
	(i) Length of Bridge between ends of decking	Main Flyover Bridge = 898.049 mt. Up Ramp = 176 mt. Down Ramp = 166 mt. River Bridge = 75.771 (U/s) + 76.003 (D/s) = 151.774 mt.
	(i) width of Bridge between ends of decking	Main Flyover Bridge = 17.00 mt., 8.50 mt. + 8.50 mt. Up Ramp = 6.50 mt. Down Ramp = 6.50 mt. River Bridge = 6.45 (U/s) + 7.80 (D/s)
	(ii) Number of span	Main Flyover Bridge = 49 + 21 = 70 Nos. Up Ramp = 15 Nos. Down Ramp = 14 Nos. River Bridge = 3 (U/s) + 3 (D/s) = 6 Nos.
	(iii) Span Length	(20 mt. x 27 Nos.) + (25 mt. x 8 Nos.) + (21.971 mt. x 4 Nos.) + (35 mt. x 1 No.) + (25.197 mt. x 2 Nos.) + (19.968 mt. x 2 Nos.) + (10 mt. x 16 Nos.) + (6 mt. x 10 Nos.)
	(iv) Carriage Way	Main Flyover Bridge = 7.5 mt. + 7.5 mt. Up & Down Ramp = 5.5 mt. River Bridge = 7.5 mt. + 7.5 mt.
	(v) Length of Returns	Main Flyover Bridge River side = 34.298 mt., 28.745 mt. River Bridge Fly over side = 128.614 mt. + 133.287 mt.
7.	(i) Design Discharge	----
	(ii) Design H.F.L.	----
	(iii) Type of bridge	Flyover Bridge
	(iv) F.R.L.	22.359
8.	Structural Details	
	(i) Foundation	RCC bored cast-in-situ piles of 1500mm dia., 1000mm dia. & 750mm dia.
	(ii) Substructure	RCC Piers, RCC Abutment, RCC / PSC Pier Caps
	(iii) Superstructure	I - Girder with deck slab, Box girder, RCC Solid Slab
	(iv) General Items	Solid Retaining Wall / RCC Retaining Wall Type
9.	Name of Contractor	Ajay Engi-Infrastructure Pvt. Ltd., Mehsana

10.	Name of Consultant	Technogem Consultant Pvt. Ltd. Multimedia Consultant Pvt. Ltd.
11.	Name of Project Management Consultant	Pankaj M.Patel Consultant Pvt Ltd., Ahmedabad
12.	Name of Proof Check Consultant	L. J. Purani & Associates, Ahmedabad Design (R & B) Circle, Gandhinagar