

Construction Of Fly Over Bridge Crossing Patrakar Circle And Kailash Nagar Junction On Bamroli-Althan 45.0 Mt. Wide T.P.Road Of South Zone-A (Udhana) In Surat On E.P.C Basis (Design, Engineering, Procurement & Construction)



01	Location	: Patrakar Circle And Kailash Nagar Junction On Bamroli-Althan Road at Surat.
02	River/ Nala/ Creek	: Fly Over Bridge
03	Lane	: 2 X 2 Lane
04	Year of Construction	: Started May-2025
05	Cost	: Rs. 74,66,71,238.45
06	Details of Bridge	:
	(i) Length of Bridge	: 1.) Towards Althan To Piyush Point (LHS) & Piyush Point to Althan Point (RHS): 34 nos. x 25 mt c/c spans (PVL4 TO JNL1, JNL2 to JNL3, JNL4 TO PP6) 8 nos. x 13.75 mt c/c spans (A/VL to PVL4) 6 nos. x 15.00 mt c/c spans (PP6 to A/P) Total Length (1) = (34 x 25) + (8 x 13.75) + (6 X 15)= 1050.00 m Approach Portion – 1 (Toe wall) = 20 x 2 = 40.00 m 2.) Junction Span (LHS & RHS): 2 nos. x 30 mt c/c spans (JN1 to JN2 & JN3 to JN4) Total Length (2) = (2 x 30) =60.0 m Total length=(1)+(2) =1090+60=1150.00mt
	(ii) Width of Bridge	: Clear carriage way width = 7.50 mt. (For Split FOB) & 7.50 x 2 = 15.00 mt (For Merging). Over all width For Split FOB = 2 x 7.50+4 x 0.50 C.B = 17 mt. Over all width For Merging FOB = 2 x 7.50+4 x 0.50 C.B +0.20 = 17.02 mt
	(iii) Number of Span	: 50 Nos. (Either Side)
	(iv) Span Length	: (34 x25.00 mt) + (2.00 x 30.00 mt.) + (8 x 13.75 mt) + (6.x15.00 mt) on either side.
	(v) Carriage Way	: 7.50 mt. (For Split FOB) & 7.50 x 2 = 15.00 mt (For Merging).
07	(i) Type of Bridge	: Fly Over Bridge
	(ii) Finished Road Top Level	: 18.246 mt.
08	Structural Details	:
	(i) Foundation	: RCC bored cast in situ pile having 1000mm.Φ / 750mm.Φ
	(ii) Substructure	: RCC Pedestals, RCC Pier & Pier cap.
	(iii) Superstructure	: R.C.C Girder with Deck slab, P.S.C Girder with Deck slab, RCC Solid Slab.

	(iv) General Items	:	(1) Single Strip seal Type Expansion joint. (2) Elastomeric Bearings.
09	Area of Bridge	:	Split Portion (L.H.S.& R.H.S.) = 890.00 x 8.5 x 2 =15130.00 Sq. Mt. Merging Portion = 260.00 x 17.00 =4420.00 Sq. Mt. Total Area = 15130.00 + 4420.00= 19550.00 sq. mt.
10	Name of Contractor	:	Rachana Construction Company, Bharuch
11	Name of Design Consultant	:	Shah Associates, Ahmedabad.
12	Proof Check Consultant	:	(1) Design Circle, R & B , Gandhinagar. (2) SVNIT, SURAT
13	Project Management Consultancy	:	CASAD Consultants Pvt Ltd., Ahmedabad.