

Construction of Fly Over Bridge near APMC market on Surat - Bardoli main road of East (Varachha) Zone-A in Surat On EPC Basis (Design, Engineering, Procurement and Construction)



	Location	: APMC market on Surat - Bardoli main road at Surat.
02	River/ Nala/ Creek	: Fly Over Bridge
03	Lane	: 2 X 2 Lane
04	Year of Construction	: Started June-2024
05	Cost	: Rs.39,36,25,359.27
06	Details of Bridge	:
	(i) Length of Bridge	: 1.) Towards Ring Road Sahara Darwaja Side (LHS & RHS): 4 nos. x 25 mt c/c spans (JN1 to PS4) 3 nos. x 13.5 mt c/c spans (PS4 to A/S) Total Length (1) = (4 x 25) + (3 x 13.5) = 140.5 m Approach Portion – 1 (Toe wall) = 40.92 m 2.) Towards AAI Mata Chowk (LHS & RHS): 5 nos. x 25 mt c/c spans (JN6 to PA5) 3 nos. x 13.5 mt c/c spans (PA5 to A/A) Total Length (2) = (5 x 25) + (3 x 13.5) = 165.5 m Approach Portion – 2 (Toe wall) = 40.38 m 3.) Junction Span (LHS & RHS): 1 nos. x 25 mt c/c spans (JN1 to JN2) – Steel Superstructure 3 nos. x 25 mt c/c spans (JN2 to JN5) – PSC girder 1 nos. x 25 mt c/c spans (JN5 to JN6) – Steel Superstructure Total Length (2) = (1 x 25) + (3 x 25) + (1 x 25) = 125.0 m Total length=(1)+(2)+(3) =181.42+205.88+125=512.30mt
	(ii) Width of Bridge	: Clear carriage way width = 15.0 mt (7.50 mt Both Side) Over all width = 2 x 7.50+4 x 0.50 C.B = 17 mt.
	(iii) Number of Span	: 20 Nos.(Either Side)
	(iv) Span Length	: (25.00 x14) + (13.5 x 6) on either side.
	(v) Carriage Way	: Towards Ring Road Sahara Darwaja Side (LHS & RHS):= 7.50 mt. Towards AAI Mata Chowk (LHS & RHS):= 7.50 mt.
07	(i) Type of Bridge	: Fly Over Bridge
	(ii) Finished Road Top Level	: 20.797 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	:	PSC Girder with Deck slab, Steel Composite Girder, RCC Solid Slab.
	(iv) General Items	:	(1) Single Strip seal Type Expansion joint. (2) Elastomeric Bearings.
09	Area of Bridge	:	Main bridge = 4354.55 sq. mt. Total Area = 4354.55 x 2= 8709.10 sq. mt.
10	Name of Contractor	:	Shree Manglam Buildcon (I) Pvt. Ltd., Ankleshwar.
11	Name of Design Consultant	:	Shah Associates, Ahmedabad.
12	Proof Check Consultant	:	S.V.N.I.T. Surat.
13	Project Management Consultancy	:	Rancon Consultants Pvt. Ltd. Navi Mumbai.

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