

Construction of bridge across creek connecting 30.00 mt. Wide T.P. road of T.P. scheme 20 (Nana varachha-Kapodra) to 24.00 mt wide T.P. road of T.P. scheme 20 (Puna) near Saketdham society at Surat on E.P.C basis (Design, Engineering, Procurement & Construction)



Project Technical Details

01	Location	: 30.00 Mt. Wide T.P. Road Of T.P. Scheme 20 (Nana Varachha-Kapodra) To 24.00 Mt Wide T.P. Road Of T.P. Scheme 20 (Puna) Near Saketdham Society at Surat.
02	River/ Nala/ Creek	: Creek Bridge
03	Lane	: 4 Lane & 3 Lane
04	Work Order	: 07/02/ 2024
05	Cost	: Rs.27,59,52,289.75
06	Details of Bridge	:
	(i) Length of Bridge	: Total Length of Bridge-1 :250.76 m 1.) Sarita sagar society side (LHS & RHS): 2 Nos. x 16.00 mt c/c spans (P1 to A1) Total Length (1) = 2 x 16.00 = 32.00 m 2.) Saketdham side (LHS & RHS): 2 nos. x 17 mt c/c spans (A2 to A3) 5 nos. x 9 mt c/c spans (A3 to A/S) Total Length (2) = (2 x 17) + (5 x 9) = 79.00 m 3.) Approach portion-1: (between Bridge No.1 & 2) 1. Diaphragm wall (LHS side) Total length of diaphragm wall = 126.76 m 2. Retaining wall (RHS Side) Total length of Retaining wall = 126.76 m 4.) Approach portion-2: Total length of Toe wall = 13.00 m
	(ii) Width of Bridge	: 1. 7.50 + (0.45 x 2 CB) = 8.40 mt. of bridge (Single Side).

		2. 1.50m utility slab
	(v) Carriage Way	: 3. Clear Carriageway Width for Bridge-1 = 7.5 x 2 = 15.00 mt For Bridge-2 = 11.00 mt
07	(i) Design Discharge	: -----
	(ii) Design H.F.L.	: 13.59 mt
	(iii) Type of Bridge	: Creek Bridge
	(iv) Finished Road Top Level	: Bridge 1 = 13.60 mt Bridge 2= 15.00 mty
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, RCC Solid Slab(3 nos).
	(iv) General Items	: (1) 40 mm Strip seal Type/filler joint joint. (2) Elastomeric Bearings. (3)1.50m utility slab
09	Area of Bridge	: 3761.968 sq. mt.
10	Name of Contractor	: Ranjit Construction Company
11	Name of Design Consultant	: Multi Media Private, Ltd
12	Proof Check Consultant	: SVNIT, Surat
13	Project Management Consultancy	: Rancon Consultants Pvt. Ltd.