

CONSTRUCTION FOR WIDENING ON BOTH SIDES OF SARDAR PATEL RIVER BRIDGE JOINING ATHWA — ADAJAN ON RIVER TAPI AT SURAT



Project Technical Details

1.	Location	Adjoining Existing Sardar Bridge (Joining Athwa- Adajan)	
2.	River/Nala/Creek	Tapi River	
3.	Lane	Four (Two Up + Two Down)	
4.	Year of Construction	Up Stream Side 04/02/2018 & Down Stream Side 30/01/2019	
5.	Tender Cost	Rs.8075 Lacs	
6.	Details of Bridge	Up Stream	Down Stream
7.	No Of Span	20 nos	19 nos
8.	Length of Bridge	759.603m	772.233m
9.	Length of Span	1 No. 3 mtr.	2 Nos. 5mtr.
		1 No. 5mtr.	2 Nos. 20mtr.
		1 No. 15mtr.	1 No. 25mtr.
		2 Nos. 20mtr.	1 No. 45mtr.
		1 No. 23.5mtr.	13 Nos. 50mtr.
		1 No. 36.9mtr.	
		1 No. 39.9mtr.	
		1 No. 45mtr.	
	11 Nos. 50mtr.		
10.	Carriage Way	Bridge on Upstream side of Existing Bridge: 11.000 mtr. Consisting 1 x 7.5 mtr.. clear carriage way + 1 x 2.5 mtr.. footpath + 1 x 500 mm Crash barrier with 480 mm central verge.	Bridge on Downstream side of Existing Bridge : 11.000 mtr. consisting 1 x 7.5 mtr.. clear carriage way + 1 x 2.5 mtr.. footpath +1x 500 mm Crash barrier with 480 mm central verge.
11.	Design Discharge	34000 Cumecs	
12.	Design H.F.L.	R.L. 12mtr.	
13.	Type Of Bridge	High Level Bridge	
14.	F.R.L.	R. L. 16.360 mtr.	

Project Technical Details

15.	Structure Details	
	Foundation	RCC Bored Cast in Situ Pile having 1500mm/1200mm/1000 mm dia
	Sub-Structure	RCC Pilecap , RCC Pier with R.C.C. Pier Cap
	Super-Structure	Pre-stressed Concrete 4 Girder System Simply Supported over bearings and R.C.C. Slab
	General Item	R.C.C. Crash Barrier
	Types Of Bearing	Elastomeric Bearing
	Types Of Expansion Joint	Strip Seal Type
	Wearing Coat	75mm(50 mm DBM + SDBC 25 mm) + Bitumenpainting
	Grade Of Concrete	Pile = M-35,M-40
		Pile Cap, Pier, Pier Cap, Pedestal, Crash Barrier = M-35
		Crash Barrier = M-40
		PSC I -Girder = M-50
		Deck Slab = M-45
		Curb, Central verge. = M-25
		Wearing Coat = M-30
16.	Contractor	: Unique Construction, Surat
17.	Design Consultant	: Casad Consultant, Ahmedabad
18.	Proof Check Consultants	: Green Design & Engg. Services Pvt. Ltd.
19.	Proof Check Consultants	: R&B (Design) Circle, Gandhinagar
20.	Project Management Consultant	: Pankaj M Patel Consultants Pvt. Ltd., Ahmedabad
	Note :- Up Stream Side of Bridge (Adajan to Athwa) Was Inagurated On 04/02/2018 & Down Stream Side of Bridge (Athwa to Adajan) was Inagurated on 30/01/2019 by Prime Minister shri Narendra Modi	