

**Construction of “ Dr.Shyana Prasad Mukharji ” four lane bridge across river Tapi joining Dabholi Village to Jahangirpura (Nr.Intake well) in Surat City.
(Under JnNURM)**



1.	Location	Near Intake well on Jahangirpura side and other end on Dabholi side near Torrent Power electric sub station.	
2.	Total Length of Bridge		
	1.River span	$31 * 34.70 = 1075.70$ mt.	
	2. Jahangirpura end		
	Towards City		
	- Via Duct	$2 * 26.708 + 1 * 26.646 + 4 * 25 + 1 * 25.50 = 205.562$ mt.	
	- Solid Approach	168.803 mt.	
			Total: = 374.365 mt.
	Towards Jakatnaka -		
	- Via Duct	$1 * 25.50 + 2 * 25 + 1 * 25.006 + 1 * 31.093 + 1 * 30.980 + 1 * 30.949 = 193.528$ mt.	
	- Solid Approach	= 179.064 mt.	
			Total: = 372.592 mt.
	3. Towards Dabholi - Side		
	- Via Duct	$1 * 12.00 + 1 * 25.00 = 37.00$ mt.	
	- Solid Approach	= 113.520 mt.	
			Total: = 150.520 mt.
	Total Length	$1600.585(4 \text{ lane}) + 372.592(2 \text{ lane})$	= 1973.177 mt.
	Total Area of Bridge	36,867.404 Sq.Mt.	
3.	Width of Bridge	1.River span - 21.70 mtr. 2. Jahangirpura end Towards City - 17.00 mtr. Towards Jakatnaka - 9.300 mtr, 3.Towards Dabholi - 21.700 mtr.	
4.	Type of Foundation		
	River span	1500 mm dia. Pile Foundation	
	Via Duct	Open Excavation	

5.	Sub Structure	R.C.C. Solid Pier
6.	Super Structure	
	River span	Cast in Situ Prestressed Box Girder
	Via Duct	RCC Box Structure
7.	Carriage Way	
	Main Bridge	Two Lane up & Two Lane down (21.70mt.)
	Towards Jakatnaka Up Ramp	Two Lane up 8.40mt
	Towards City Up & Dn Ramp	Four Lane 17.0 mt.
	(i) Design Discharge	12 lacs cusecs and checked for submersible bridge for 16 lacs cusecs
	(ii) Design H.F.L.	R.L. 15.75 mt.
	(iii) Type of Bridge	High level Bridge
	(iv) Finished Road top level	20.666 mt.
8.	Bearing	POT-PTFE & Neoprene Bearing
9.	Expansion Joint	Strip Seal Type
10.	Project Cost	6933.08 Lacs including Cement & Steel
	Funding under JnNURM Scheme	
	Sanctioned project cost	: Rs. 6500 Lacs
	Share of GoI (50%)	: Rs. 3250 Lacs
	Share of GoG (20%)	: Rs. 1300 Lacs
	Share of SMC (30%)	:Rs. 1950 Lacs
11.	Time Limit of Work	30 months including monsoon
12.	Name of Contractor	M/s. Ranjit Construction Co., Ahmedabad
13.	Name of Design Consultant	Stup Consultant, Navi Mumbai
14.	Name of Third Party Inspecting agency	Certifications Engineers International Ltd., New Delhi.
15.	Name of Proof Check Consultant	Sardar Vallabhbhai National Institute of Technology, Surat.