

SAURASHTRA BRANCH CANAL		
1	Name of Canal	: SAURASHTRA BRANCH CANAL
2	Off taking chainage from NMC (Km.)	: 263.20 Kms.
3	Type of Canal	: Ridge Canal
4	Length of Branch Canal (Km.)	: 104.460 Km.
5	F.S.L. of Main Canal (mt.)	:
6	F.S.L. of Branch Canal (mt.)	:
	Off Taking Point	61.111 m.
	Tail Point	86.455 m.
7	Breadth X Depth Up to 17.760km 17.760km to 104.46km	: 38.00m X 5.75m 35.50m X 5.75m
8	CAPACITY (ENHANCED)	:
	a. At head (ch.0) Q(Design)	: 424.80Cumeecs (15000 Cusecs)
	b. At ch. 17.760 Q(Design)	: 406.30Cumeecs (14350 Cusecs)
9	Nos of Sub Branch Canal	: 7 Nos

Saurashtra Branch Canal has no direct command area. Command is served by 7 branch canals.

Details of Branch Canal is as under

Sr. No.	Name of Branch Canal	Length (in Km)	Capacity (Cumeecs)	C.C.A. (Ha)
i.	Narsingpura Branch Canal	31.42	20.053	20524
ii.	Maliya Branch Canal	136.29	28.427	41561
iii.	Vallabhipur Branch Canal	120.00	69.964	136470
iv.	Dhrangadhra Branch Canal	126.60	59.500	81502
v.	Morbi Branch Canal	117.81	49.915	61757
vi.	Limbdi Branch Canal	117.74	73.870	108343
vii.	Botad Branch Canal	109.20	52.000	65342
TOTAL :		759.06		515499

The Saurashtra Branch Canal (SBC) is the largest Branch of Narmada Project Canal System, which offtakes from Narmada Main Canal at Ch. 263.20 Km near Kadi District - Mehsana and has a length of 104.46 Km. It tails in Bhogavo - II Irrigation Scheme (Dholi Dhaja dam) near Surendranagar.

Chainage	Distance in km	Taluka	District
0.00 to 24.66 km	24.66 km	Kadi	Mehasna
24.66 km to 46.43 km	21.77 km	Viramgam	Ahmedabad
46.43 km to 47.01 km	0.58 km	Lakhtar	Surendranagar
47.01 km to 51.13 km	4.12 km	Dasada	Surendranagar
51.13 km to 87.75 km	36.62 km	Lakhtar	Surendranagar
87.75 km to 104.46 km	16.71 km	Wadhawan	Surendranagar

Saurashtra Branch Canal is quite a large system but in addition the system is complex and unique in nature that involves the passages of canal through a constantly falling ground in more than half of its initial reach and rises before tailing into Dholi Dhaja Dam.

Three falls each of 10.91 m magnitude are provided at ch. 5.15 km, 17.76 km and 32.94 km. Approximate 45 MW electricity is planned to be generated from those 3 falls.

For lifting the water in the rising limb of SBC, Five Pumping stations are constructed. Salient features of the pumping stations are as follows.

SALIENT FEATURES OF PUMPING STATION.						
Chainage	68.551 KM	77.165 KM	87.950 KM	93.205 KM	102.84 KM	
Nearby Village	Dhanki Ta. Lakhtar	Lakhtar Ta. Lakhtar	Bala Ta. Wadhwan	Rajpar Ta. Wadhwan	Dudharej Ta. Wadhwan	
Capacity in cumecs						
Planned	300.62	208.88	208.88	98.3	98.3	
Enhanced	406.32	314.58	314.58	204	204	
GL	25.920 m	38.260 m	55.310 m	64.276 m	75.551 m	
CBL	U/S	14.652 m	24.555 m	38.603 m	53.478 m	63.647 m
	D/S	25.458 m	39.926 m	54.274 m	65.525 m	80.672 m
FSL	U/S	20.402 m	30.005 m	44.355 m	59.228 m	69.397 m
	D/S	31.208 m	45.676 m	60.024 m	71.275 m	86.422 m
Height of Lift	10.81 m.	15.67 m.	15.67 m.	12.05 m.	17.025 m.	
Type of Pumps						
Concrete Volute (CV)	10 nos.	5 nos.	5 nos.	3 nos.	3 nos.	
	20 Cumecs Capacity each					
Vertical Turbine (VT)	6 nos.	4 nos.	4 nos.	4 nos.	4 nos.	
	5 Cumecs Capacity each					

Saurashtra Branch Canal

Canal Name	Canal Classification	Offtaking Chainage (km)	Total Length (km)	Completed Length (km)	Water Flown Length (km)	Ongoing work Length (km)	Yet to take up Length (km)
Saurashtra	Branch	263.2	104.46	104.46	104.46	0	0
Narasingpura	Branch	15.465	32.01	32.01	32.01	0	0
Maliya	Branch	69.493	137.93	137.93	137.93	0	0
Vallabhipur	Branch	70.68	118.751	118.751	118.751	0	0
Dhrangadhra	Branch	88.87	124.983	124.983	124.983	0	0
Limbdi	Branch	89.14	117.99	117.99	117.99	0	0
Morbi	Branch	104.2	118.19	118.19	118.19	0	0
Botad	Branch	104.5	109.934	109.934	109.934	0	0