

Common Effluent Treatment Plants: A Case Study from Gujarat

Paryavaran Suraksha Samiti

CETP Ankleshwar Report - CPCB

Parameters	PH	TSS	TDS	BOD	COD	O & G	NH3-N	Phenol
Sampling Date	5.5 – 8.5	100 mg/l	2100 mg/l	30 mg/l	100 mg/l	10 mg/l	50 mg/l	1 mg/l
05/04/03	7.5	84	3476	9	174	6.3	50	
22/07/03	7.5	36	2546	11	112		35.3	
08/06/04	7.2	32	2184	12	645	2.1	200	4.04
26-7-2004 & 27-7-2004	7.7	22	2570	26	115	4	36	3.68
22-9-2004 & 23-9-2004	7.85	17	3221	5.3	157	7.6		
18-11-2004 & 19-11-2004	7.8	10	3032	11	153	6.2	56	
24/06/05	7.8	10	3032	11	153	6.2	56	
July 2006	7.4	221	20801	360	2268	26	386	

CPCB - CETP Panoli Report

Parameters	Permissible Limit	July 2006	November 2006
pH	5.5 – 8.5	7.4	7.4
TSS	100 mg/l	164	282
TDS	2100 mg/l	31341	23658
BOD	30 mg/l	820	1091
COD	100 mg/l	4104	7520
O & G	10 mg/l	45	
NH3-N	50 mg/l		1649

FETP REPORT, Ankleshwar- GPCB

Parameters	Permissible Limit	04/06/07
PH	5.5 – 8.5	7.3
TSS	100 mg/l	196
TDS	2100 mg/l	11352
BOD	30 mg/l	352
COD	100 mg/l	1527
O & G	10 mg/l	4.4
NH3-N	50 mg/l	717
S	0.5 mg/l	27.2
SO4	1000 mg/l	1125
Cl	600 mg/l	3999
Phenol	1 mg/l	3.25

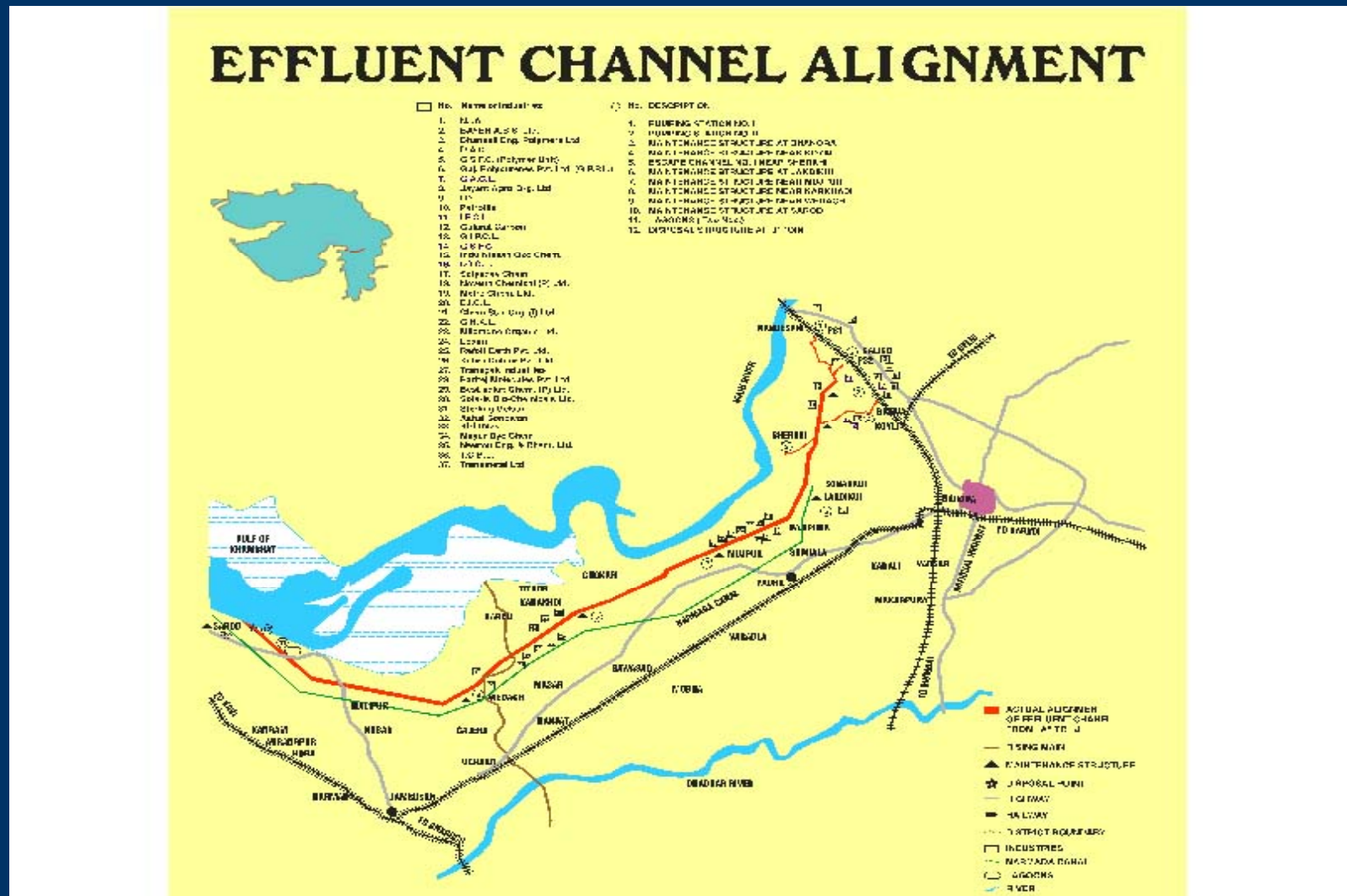
Damanganga Water Quality in Vapi- Daman Region – A trend Analysis by CPCB

	Year	Parameters						
		PH	DO	TDS	BOD	COD	O & G	NH3 – N
Sampling Locations		5.5 – 8.5	4 – 6 mg/l	2100 mg/l	30 mg/l	100 mg/l	10 mg/l	50 mg/l
Damanganga River U/S of CETP Discharge	2004	8	7.7	217	BDL	7	1.2	0.7
	2005	7.81	6.92	240	1.2	5	BDL	0.56
	2006	7.07 – 7.93	7.1 – 7.6	178 – 194	1.2 – 2.2	12 – 24	--	BDL – 0.6
	2007	8.4	7.4	163	2.3	8.6	BDL	0.56
Damanganga River D/S of CETP Discharge	2004	7.07 – 7.93	BDL	5751	140	556	3.6	306.6
	2005	7.07 – 7.93	1.03	6126	28	110	0.8	8.4
	2006	6.41 – 6.63	3.0 – 4.4	1064 – 2706	16 – 19	80 – 93	--	14 – 21
	2007	7.4	1.1	2673	50	246	1.7	72
Damanganga River near mouth of Estuary	2004	7.7	2.5	59248	3	75	--	--
	2005	6.8	2.1	31832	5.6	106	--	6.4

Analysis of Water Near CETP, VAPI - CPCB

Sampling Point		River Damanganga at U/S of CETP, Vapi Discharge		River Damanganga at 400m D/S of CETP, Vapi Discharge	
		12/10/06	10/05/07	12/10/06	10/05/07
PH	5.5 – 8.5	7.18	8.4	6.51	7.4
TSS	100 mg/l	2	27	24	80
TDS	2100 mg/l	194	168	2706	2673
BOD	30 mg/l	1.6	2.3	16	50
COD	100 mg/l	12	8.6	80	246
NH3-N	50 mg/l	BDL	0.56	14	72
SO4	1000 mg/l	11	10.5	398	1365
Cl	600 mg/l	13	17	298	1234

Effluent Channel Project Map - Vadodara



Unmonitored dumping of effluent in the ECP - Vadodara



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Overflow of effluent from the ECP - Vadodara



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& who does this



Various “utilities” of ECP in Vadodara



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“Handling” of Haz Waste from ECP - Vadodara



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**Block No. 364, Village Luna, Taluka Padra(In 2003)
Polluted water drawn from 200 ft. deep borehole**



ECP Final Outlet at 'J' Point Sarod



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Unmonitored Dumping of Effluent into Mahi Estuary



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Chemicals flowing into Mini river from Nandesari Industrial Estate - Vadodara



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Illegal Effluent flowing in the open drain - Ankleshwar



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Industrial effluent contaminating Amla Khadi by violating Guj. HC order - Ankleshwar



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Industrial effluent contaminating Amla Khadi - Ankleshwar



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Thank You

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