

STATEWISE/BASINWISE INFORMATION ON WATER QUALITY

- 1 Basin: Mahi Basin
- 2 River : Mahi
- 3 Site : Mataji
- 4 Name & Location of Laboratory : Level II Laboratory , MahiDivision, CWC, Ahemadabad
- 5 Type of Staion, Parameter and frequency of monitoring : Baseline Station , 24 parameters, monthly

[Water Quality Data](#)

Sl. No.	River/ Parameters	Site/ Unit	Analysis of Data From 1996-97 to 2005-06						Last year Average		Remarks
			Maximum observed		Average observed		Minimum observed		Monsoon	Non- Monsoon	
			Monsoon	Non- Monsoon	Monsoon	Non- Monsoon	Monsoon	Non- Monsoon			
1. PHYSICAL											
	Discharge	Cumecs	880.00	14.67	48.88	0.73	0.00	0.00	10.78	0.09	
	Temperature	0C	35.00	32.00	27.43	12.57	18.00	0.00	27.60	23.70	
	pH		8.40	8.50	7.99	4.85	7.60	0.00	8.05	8.27	
	Conductivity at 25 C	Micro mho/cm	512.00	463.00	271.27	190.11	130.00	0.00	245.00	305.00	
	Total Dissolvev S	mg/l	328.00	292.00	202.11	165.64	82.00	0.00	171.00	200.00	
	Total Suspended	mg/l	52.00	48.00	34.03	22.37	12.00	0.00	23.00	18.67	
	Turbidity	NTU	5.00	4.00	2.12	1.38	1.00	0.00	1.50	2.67	
2. CHEMICAL											
	Potassium	mg/l	2.00	2.00	1.09	0.65	1.00	0.00	1.00	1.00	
	Sodium	mg/l	34.00	26.00	14.63	10.01	6.00	0.00	12.00	15.33	
	Calcium	mg/l	33.46	32.46	29.39	18.67	24.00	0.00	28.50	32.00	
	Magnesium	mg/l	7.84	7.80	5.72	3.75	3.80	0.00	4.35	7.47	
	Aluminium	mg/l	0.06	0.04	0.02	0.01	0.00	0.00	0.02	0.01	
	Iron	mg/l	0.14	0.16	0.03	0.03	0.00	0.00	0.03	0.03	
	Ammonia	mg/l	0.05	0.08	0.01	0.01	0.00	0.00	0.01	0.01	
	Carbonate	mg/l	2.00	3.00	0.15	0.27	0.00	0.00	1.00	1.00	
	Bicarbonate	mg/l	138.00	148.00	113.53	70.94	86.00	0.00	96.50	109.67	
	Chloride	mg/l	46.00	34.00	18.89	13.09	6.00	0.00	18.00	25.33	
	F luoride	mg/l	0.48	0.40	0.15	0.11	0.02	0.00	0.22	0.20	
	Sulphate	mg/l	14.46	13.48	8.15	6.00	3.64	0.00	6.90	10.07	
	Sulphite	mg/l	-	-	-	-	-	-	-	-	
	Nitrate	mg/l	0.20	0.20	0.10	0.06	0.02	0.00	0.10	0.09	
	Nitrite	mg/l	0.04	0.08	0.01	0.01	0.00	0.00	0.02	0.00	
	Phosphate	mg/l	0.14	0.14	0.04	0.02	0.00	0.00	0.01	0.03	
	Silicate	mg/l	20.86	18.90	12.27	6.99	8.46	0.00	11.70	17.77	
	B.O.D.	mg/l	1.70	1.60	0.67	0.35	0.10	0.00	0.45	0.40	
	D.O..	mg/l	7.50	10.10	6.58	8.33	5.60	7.00	6.85	8.43	
3. CHEMICAL INDICES											
	Hardness Numb	m.eq/l	115.72	112.06	96.83	62.01	75.92	0.00	89.00	110.67	
	Sodium Percent	m.eq/l	39.20	34.52	23.50	15.31	13.60	0.00	21.50	22.67	
	S.A.R.	m.eq/l	1.40	1.07	0.64	0.43	0.29	0.00	0.55	0.67	
	R.S.C.	m.eq/l	0.16	0.18	0.02	0.02	0.00	0.00	0.00	0.00	

STATEWISE/BASINWISE INFORMATION ON WATER QUALITY

1 Basin: Mahi Basin

2 River : Mahi

3 Site : Paderdibadi

4 Name & Location of Laboratory : Level II Laboratory , MahiDivision, CWC, Ahemadabad

5 Type of Staion, Parameter and frequency of monitoring : Trend Station , 24 parameters, monthly

[Water Quality Data](#)

Parameter	Unit	Analysis of Data From 1996-97 to 2005-06						Last year Average 2005-06		Remarks
		Maximum observed		Average observed		Minimum observed		Monsoon	Non- Monsoon	
		Monsoon	Non-Monsoon	Monsoon	Non-Monsoon	Monsoon	Non- Monsoon			
PHYSICAL										
Discharge	Cumecs	821.20	32.83	40.48	4.57	0.00	0.00	25.07	6.33	
Temperature	0C	33.40	29.50	19.94	9.69	0.00	0.00	30.58	24.50	
pH		8.60	8.50	8.07	6.47	7.60	0.00	8.22	8.12	
Conductivity at 25 C	Micro mho	622.00	706.00	350.72	332.46	138.00	0.00	474.40	519.17	
Total Dissolvev Solids	mg/l	402.00	488.00	256.68	242.85	146.00	0.00	315.00	336.67	
Total Suspended Solids	mg/l	54.00	58.00	36.75	25.14	18.00	0.00	44.80	19.33	
Turbidity	NTU	6.00	10.00	2.62	2.77	1.00	0.00	2.20	7.67	
2. CHEMICAL										
Potassium	mg/l	3.00	2.00	1.18	1.01	1.00	0.00	1.20	1.45	
Sodium	mg/l	52.00	48.00	22.72	22.19	6.00	0.00	24.80	30.90	
Calcium	mg/l	34.12	41.00	31.06	26.06	24.80	0.00	32.60	37.83	
Magnesium	mg/l	9.80	10.90	6.40	5.63	3.90	0.00	6.72	9.58	
Aluminium	mg/l	0.10	0.02	0.02	0.01	0.00	0.00	0.01	0.01	
Iron	mg/l	0.22	0.22	0.07	0.07	0.00	0.00	0.03	0.02	
Ammonia	mg/l	0.06	0.12	0.01	0.02	0.00	0.00	0.02	0.09	
Carbonate	mg/l	6.00	6.00	0.57	0.41	0.00	0.00	1.20	0.33	
Bicarbonate	mg/l	174.00	168.00	122.23	106.23	94.00	0.00	117.20	145.17	
Chloride	mg/l	58.00	52.00	28.28	26.82	6.00	0.00	35.20	42.00	
F luoride	mg/l	0.42	0.44	0.18	0.16	0.01	0.00	0.29	0.27	
Sulphate	mg/l	16.46	21.00	10.72	10.24	2.84	0.00	10.08	19.15	
Sulphite	mg/l	-	-	-						
Nitrate	mg/l	0.24	0.85	0.13	0.13	0.01	0.00	0.14	0.41	
Nitrite	mg/l	0.09	0.08	0.02	0.01	0.00	0.00	0.04	0.02	
Phosphate	mg/l	0.18	0.16	0.04	0.03	0.00	0.00	0.01	0.05	
Silicate	mg/l	22.48	20.80	13.07	10.41	9.80	0.00	12.12	19.63	
B.O.D.	mg/l	2.40	1.90	0.64	0.57	0.20	0.00	0.58	0.68	
D.O..	mg/l	7.40	8.50	5.94	7.25	3.20	5.20	6.12	7.42	
3. CHEMICAL INDICES										
Hardness Number	m.eq/l	124.30	147.00	103.74	88.17	77.91	0.00	108.40	133.67	
Sodium Percentage	m.eq/l	47.12	47.67	30.42	27.79	12.30	0.00	32.40	33.17	
S.A.R.	m.eq/l	2.03	1.97	0.95	0.92	0.27	0.00	1.02	1.15	
R.S.C.	m.eq/l	0.42	0.38	0.09	0.07	0.00	0.00	0.00	0.00	

STATEWISE/BASINWISE INFORMATION ON WATER QUALITY

1 Basin: Mahi Basin Gujarat

2 River : Mahi

3 Site : Khanpur

4 Name & Location of Laboratory : Level II Laboratory , MahiDivision, CWC, Ahemadabad

5 Type of Staion, Parameter and frequency of monitoring : Trend Station , 24 parameters, monthly

Water Quality Data

Parameter	Unit	Analysis of Data From 1996-97 to 2005-06						Last year Average 2005-06		Remark
		Maximum observed		Average observed		Minimum observed		Monsoon	Non- Monsoon	
		Monsoon	Non- Monsoon	Monsoon	Non- Monsoon	Monsoon	Non- Monsoon			
1. PHYSICAL										
Discharge	Cumecs	3060.00	140.10	174.51	21.32	1.81	1.49	329.20	32.54	
Temperature	OC	33.80	32.50	27.79	22.56	23.00	15.50	27.74	24.23	
pH		8.60	8.60	8.04	8.10	7.50	7.36	8.10	8.32	
Conductivity at 25 C	Micro mho/cm	980.00	1039.00	426.32	470.68	150.00	277.00	448.20	473.33	
Total Dissolvev Solids	mg/l	660.00	640.00	275.21	278.85	158.00	186.00	295.60	305.67	
Total Suspended Solid	mg/l	64.00	72.00	44.81	33.00	16.00	12.00	52.00	15.67	
Turbidity	NTU	8.00	9.00	2.61	2.85	1.00	0.00	1.80	6.17	
2. CHEMICAL										
Potassium	mg/l	4.00	2.00	1.41	1.37	1.00	1.00	1.60	1.00	
Sodium	mg/l	90.00	92.00	30.40	35.31	6.00	16.00	23.20	23.17	
Calcium	mg/l	37.48	41.00	31.69	32.51	24.56	28.80	32.20	34.50	
Magnesium	mg/l	13.84	10.80	6.90	7.26	4.48	4.80	6.60	8.40	
Aluminium	mg/l	0.12	0.08	0.02	0.01	0.00	0.00	0.02	0.02	
Iron	mg/l	0.26	0.30	0.07	0.08	0.01	0.01	0.03	0.02	
Ammonia	mg/l	0.22	0.10	0.02	0.02	0.00	0.00	0.02	0.04	
Carbonate	mg/l	6.00	4.00	0.31	0.29	0.00	0.00	1.20	0.83	
Bicarbonate	mg/l	214.00	212.00	132.08	138.31	98.00	90.00	119.20	129.83	
Chloride	mg/l	108.00	96.00	37.12	42.42	6.00	18.00	31.60	33.67	
F luoride	mg/l	0.72	0.52	0.21	0.23	0.02	0.06	0.29	0.26	
Sulphate	mg/l	20.84	20.99	11.20	12.39	4.48	4.60	10.58	12.92	
Sulphite	mg/l	-	-	-	-	-	-	-	-	
Nitrate	mg/l	0.40	0.34	0.15	0.15	0.02	0.01	0.16	0.05	
Nitrite	mg/l	0.08	0.08	0.02	0.02	0.00	0.00	0.03	0.00	
Phosphate	mg/l	0.14	0.16	0.04	0.04	0.00	0.00	0.01	0.02	
Silicate	mg/l	32.44	24.80	14.50	13.67	9.64	6.80	11.98	19.98	
B.O.D.	mg/l	1.80	2.10	0.73	0.84	0.10	0.20	0.26	0.55	
D.O..	mg/l	7.10	9.30	5.91	7.53	4.40	6.00	5.88	7.65	
3. CHEMICAL INDICES										
Hardness Number	m.eq/l	150.42	146.00	107.38	111.00	81.01	91.59	107.00	121.00	
Sodium Percentage	m.eq/l	60.74	59.77	34.71	38.47	13.32	25.00	30.80	28.50	
S.A.R.	m.eq/l	3.52	3.47	1.25	1.44	0.29	0.70	0.98	0.88	
R.S.C.	m.eq/l	0.96	0.83	0.12	0.17	0.00	0.00	0.00	0.00	

STATEWISE/BASINWISE INFORMATION ON WATER QUALITY

1 Basin: Mahi Basin Gujarat

2 River :SOM

3 Site : RANGELI

4 Name & Location of Laboratory : Level II Laboratory , MahiDivision, CWC, Ahemadabad

5 Type of Staion, Parameter and frequency of monitoring : Baseline Station , 24 parameters, monthly

Water Quality Data

Parameter	Unit	Analysis of Data From 1996-97 to 2005-06						Last year Average2005-06		Remark
		Maximum observed		Average observed		Minimum observed		Monsoon	Non- Monsoon	
		Monsoon	Non- Monsoon	Monsoon	Non- Monsoon	Monsoon	Non- Monsoon			
1. PHYSICAL										
Discharge	Cumecs	195.00	25.00	12.93	2.90	0.00	0.00	27.41	1.48	
Temperature	0C	39.00	36.00	29.15	16.21	0.00	0.00	30.75	24.00	
pH		8.50	8.50	8.07	6.46	7.40	0.00	8.23	8.13	
Conductivity at 25 C	Micro mho	679.00	996.00	393.86	377.00	158.00	0.00	508.00	493.00	
Total Dissolvev Solids	mg/l	400.00	618.00	292.95	270.23	198.00	0.00	334.50	314.00	
Total Suspended Solids	mg/l	56.00	68.00	38.85	27.58	18.00	0.00	43.00	18.67	
Turbidity	NTU	4.00	10.00	2.13	3.32	1.00	0.00	1.50	8.67	
2. CHEMICAL										
Potassium	mg/l	2.00	4.00	1.22	1.17	1.00	0.00	1.25	1.67	
Sodium	mg/l	68.00	64.00	24.90	25.07	8.00	0.00	27.00	29.33	
Calcium	mg/l	36.84	39.00	31.93	26.22	25.60	0.00	33.00	36.33	
Magnesium	mg/l	10.68	9.80	6.77	6.12	3.90	0.00	6.80	9.07	
Aluminium	mg/l	0.12	0.06	0.02	0.01	0.00	0.00	0.02	0.01	
Iron	mg/l	0.24	0.16	0.08	0.06	0.01	0.00	0.03	0.02	
Ammonia	mg/l	0.10	0.08	0.02	0.02	0.00	0.00	0.01	0.04	
Carbonate	mg/l	5.00	2.00	0.50	0.12	0.00	0.00	1.25	0.00	
Bicarbonate	mg/l	188.00	180.00	127.10	110.81	100.00	0.00	120.75	139.33	
Chloride	mg/l	74.00	66.00	31.12	30.20	8.00	0.00	38.00	40.67	
F luoride	mg/l	0.49	0.70	0.17	0.21	0.04	0.00	0.27	0.67	
Sulphate	mg/l	16.31	16.00	11.01	10.21	3.48	0.00	10.55	15.73	
Sulphite	mg/l	-	-	-						
Nitrate	mg/l	0.20	0.26	0.12	0.09	0.01	0.00	0.15	0.03	
Nitrite	mg/l	0.06	0.08	0.01	0.01	0.00	0.00	0.03	0.00	
Phosphate	mg/l	0.20	0.12	0.05	0.04	0.01	0.00	0.01	0.03	
Silicate	mg/l	18.86	22.00	12.52	10.52	9.80	0.00	11.00	20.30	
B.O.D.	mg/l	2.40	2.20	0.66	0.62	0.10	0.00	0.73	0.67	
D.O..	mg/l	8.40	8.60	5.53	7.36	4.20	5.20	5.35	7.80	
3. CHEMICAL INDICES										
Hardness Number	m.eq/l	135.83	137.10	107.47	90.55	79.91	0.00	110.00	127.67	
Sodium Percentage	m.eq/l	53.81	52.39	31.90	29.31	17.00	0.00	33.75	33.00	
S.A.R.	m.eq/l	2.65	2.50	1.03	1.02	0.38	0.00	1.13	1.10	
R.S.C.	m.eq/l	0.60	0.47	0.06	0.07	0.00	0.00	0.00	0.00	

STATEWISE/BASINWISE INFORMATION ON WATER QUALITY

1 Basin: Sabermati Basin Gujarat

2 River :SABARMATI

3 Site : DEROL BRIDGE

4 Name & Location of Laboratory : Level II Laboratory , MahiDivision, CWC, Ahemadabad

5 Type of Staion, Parameter and frequency of monitoring : Baseline Station , 24 parameters, monthly

Water Quality Data

Parameter	Unit	Analysis of Data From 1996-97 to 2005-06						Last year Average 2005-06		Remark
		Maximum observed		Average observed		Minimum observed		Monsoon	Non- Monsoon	
		Monsoon	Non- Monsoon	Monsoon	Non- Monsoon	Monsoon	Non- Monsoon			
1. PHYSICAL										
Discharge	Cumecs	132.50	8.40	4.89	1.63	0.00	0.00	29.19	0.20	
Temperature	0C	33.00	29.00	14.77	5.16	0.00	0.00	25.00	0.00	
pH		8.20	8.20	4.81	2.40	0.00	0.00	8.00	0.00	
Conductivity at 25 C	Micro mho	1760.00	1547.00	293.78	334.71	0.00	0.00	340.00	0.00	
Total Dissolvev Solids	mg/l	238.00	0.00	59.50	0.00	0.00	0.00	238.00	0.00	
Total Suspended Solids	mg/l	30.00	0.00	7.50	0.00	0.00	0.00	30.00	0.00	
Turbidity	NTU	2.00	0.00	0.50	0.00	0.00	0.00	2.00	0.00	
2. CHEMICAL										
Potassium	mg/l	4.00	4.00	0.78	0.54	0.00	0.00	1.00	0.00	
Sodium	mg/l	188.00	140.00	24.92	31.22	0.00	0.00	20.00	0.00	
Calcium	mg/l	40.08	38.10	19.24	10.73	0.00	0.00	31.00	0.00	
Magnesium	mg/l	16.86	14.60	4.45	3.37	0.00	0.00	5.80	0.00	
Aluminium	mg/l	0.32	0.26	0.04	0.03	0.00	0.00	0.02	0.00	
Iron	mg/l	0.56	0.48	0.08	0.09	0.00	0.00	0.03	0.00	
Ammonia	mg/l	0.10	0.12	0.01	0.01	0.00	0.00	0.02	0.00	
Carbonate	mg/l	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Bicarbonate	mg/l	288.00	278.00	88.38	68.50	0.00	0.00	110.00	0.00	
Chloride	mg/l	198.00	142.00	27.61	32.28	0.00	0.00	26.00	0.00	
F luoride	mg/l	0.54	0.46	0.13	0.09	0.00	0.00	0.26	0.00	
Sulphate	mg/l	40.36	28.84	7.88	5.97	0.00	0.00	8.60	0.00	
Sulphite	mg/l	-	-	-						
Nitrate	mg/l	0.50	0.46	0.08	0.09	0.00	0.00	0.16	0.00	
Nitrite	mg/l	0.06	0.06	0.01	0.01	0.00	0.00	0.04	0.00	
Phosphate	mg/l	0.14	0.12	0.02	0.02	0.00	0.00	0.01	0.00	
Silicate	mg/l	32.42	19.83	11.30	4.76	0.00	0.00	9.80	0.00	
B.O.D.	mg/l	1.60	1.90	0.31	0.10	0.00	0.00	0.60	0.00	
D.O..	mg/l	7.40	0.00	3.70	0.00	0.00	0.00	7.40	0.00	
3. CHEMICAL INDICES										
Hardness Number	m.eq/l	165.13	155.09	66.20	40.65	0.00	0.00	100.00	0.00	
Sodium Percentage	m.eq/l	70.94	66.50	21.76	17.93	0.00	0.00	30.00	0.00	
S.A.R.	m.eq/l	6.36	4.89	0.97	1.15	0.00	0.00	0.90	0.00	
R.S.C.	m.eq/l	1.45	1.46	0.24	0.31	0.00	0.00	0.00	0.00	

STATEWISE/BASINWISE INFORMATION ON WATER QUALITY

- 1 Basin: Sabermati Basin Gujarat
- 2 River :SABARMATI
- 3 Site : Vautha
- 4 Name & Location of Laboratory : Level II Laboratory , MahiDivision, CWC, Ahemadabad
- 5 Type of Staion, Parameter and frequency of monitoring : Flux Station , 24 parameters, monthly

Water Quality Data

Parameter	Unit	Analysis of Data From 1996-97 to 2005-06						Last year Average 2005-06		Remark
		Maximum observed		Average observed		Minimum observed		Monsoon	Non- Monsoon	
		Monsoon	Non- Monsoon	Monsoon	Non- Monsoon	Monsoon	Non- Monsoon			
1. PHYSICAL										
Discharge	Cumecs	3141.00	76.50	153.00	11.87	0.00	0.00	591.60	20.25	
Temperature	0C	38.10	35.90	20.61	17.70	0.00	0.00	29.33	27.40	
pH		8.40	8.50	7.82	6.35	6.80	0.00	7.68	7.77	
Conductivity at 25 C	Micro mho	9990.00	12406.00	2145.30	3409.85	311.00	0.00	1556.50	2307.67	
Total Dissolvev Solids	mg/l	3826.00	3428.00	1213.96	1711.83	240.00	642.00	1073.75	1623.33	
Total Suspended Solids	mg/l	624.00	402.00	178.07	210.96	34.00	22.00	136.50	37.33	
Turbidity	NTU	14.00	14.00	7.02	6.92	1.00	2.00	6.00	10.67	
2. CHEMICAL										
Potassium	mg/l	32.00	57.00	8.34	13.28	1.50	0.00	5.50	11.00	
Sodium	mg/l	1090.00	1308.00	213.94	339.00	20.00	0.00	150.00	213.33	
Calcium	mg/l	148.00	198.00	52.43	67.42	32.00	0.00	48.00	66.67	
Magnesium	mg/l	88.00	128.00	18.46	29.59	7.80	0.00	14.93	17.42	
Aluminium	mg/l	0.62	0.80	0.16	0.14	0.02	0.00	0.07	0.04	
Iron	mg/l	3.12	3.20	0.64	0.49	0.01	0.00	0.04	0.03	
Ammonia	mg/l	62.00	78.00	12.80	19.70	0.68	0.00	4.38	25.40	
Carbonate	mg/l	6.00	5.00	0.24	0.15	0.00	0.00	0.50	0.00	
Bicarbonate	mg/l	1200.00	1574.00	254.12	388.14	124.00	0.00	203.75	262.33	
Chloride	mg/l	1400.00	1660.00	277.13	439.68	26.00	0.00	202.50	283.00	
F luoride	mg/l	1.32	1.16	0.78	0.72	0.32	0.00	0.77	0.77	
Sulphate	mg/l	300.00	480.00	92.91	114.31	12.48	0.00	50.85	88.80	
Sulphite	mg/l	-	-	-						
Nitrate	mg/l	3.50	5.90	0.77	1.31	0.28	0.00	0.57	0.15	
Nitrite	mg/l	0.96	1.48	0.22	0.27	0.02	0.00	0.09	0.02	
Phosphate	mg/l	5.80	7.00	1.96	2.16	0.68	0.00	1.46	1.61	
Silicate	mg/l	34.84	35.68	22.00	19.60	11.48	0.00	18.38	22.97	
B.O.D.	mg/l	58.00	132.00	17.21	29.59	0.60	0.00	10.08	16.00	
D.O..	mg/l	7.00	7.40	5.57	6.14	3.80	2.00	4.98	6.53	
3. CHEMICAL INDICES										
Hardness Number	m.eq/l	731.10	1020.33	206.69	289.86	112.00	0.00	181.00	237.83	
Sodium Percentage	m.eq/l	76.56	75.29	62.19	57.46	27.50	0.00	57.00	64.67	
S.A.R.	m.eq/l	17.53	18.09	6.01	7.17	0.82	0.00	4.60	6.05	
R.S.C.	m.eq/l	5.05	6.07	0.28	0.89	0.00	0.00	0.00	0.02	

STATEWISE/BASINWISE INFORMATION ON WATER QUALITY

1 Basin: Sabermati Basin Gujarat

2 River :Sheturanji

3 Site : LUVARA

4 Name & Location of Laboratory : Level II Laboratory , MahiDivision, CWC, Ahemadabad

5 Type of Staion, Parameter and frequency of monitoring : Baseline, Station , 24 parameters, monthly

Water Quality Data

Parameter	Unit	Analysis of Data From 1996-97 to 2005-06						Last year Average 2005-		Remark
		Maximum observed		Average observed		Minimum observed		Monsoon	Non- Monsoon	
		Monsoon	Non- Monsoon	Monsoon	Non- Monsoon	Monsoon	Non- Monsoon			
1. PHYSICAL										
Discharge	Cumecs	530.00	0.10	16.85	0.00	0.00	0.00	26.83	0.02	
Temperature	OC	30.00	17.00	26.29	1.65	0.00	0.00	26.50	16.50	
pH		8.60	8.00	8.07	0.80	7.20	0.00	8.20	7.95	
Conductivity at 25 C	Micro mho/cm	1659.00	5450.00	550.61	495.10	147.00	0.00	695.00	4951.00	
Total Dissolvev Solids	mg/l	1084.00	3538.00	423.08	839.00	160.00	0.00	462.50	3356.00	
Total Suspended Solids	mg/l	176.00	120.00	72.58	19.25	36.00	0.00	74.00	77.00	
Turbidity	NTU	8.00	10.00	3.58	1.50	1.00	0.00	3.00	6.00	
2. CHEMICAL										
Potassium	mg/l	10.00	7.00	1.98	0.60	1.00	0.00	1.50	6.00	
Sodium	mg/l	188.00	430.00	45.51	38.70	6.00	0.00	49.00	387.00	
Calcium	mg/l	42.48	100.00	33.40	9.80	25.42	0.00	35.00	98.00	
Magnesium	mg/l	13.42	52.00	8.08	4.54	3.86	0.00	8.80	45.40	
Aluminium	mg/l	0.16	0.01	0.02	0.00	0.00	0.00	0.03	0.01	
Iron	mg/l	0.40	0.06	0.12	0.00	0.01	0.00	0.04	0.05	
Ammonia	mg/l	0.10	0.67	0.03	0.06	0.00	0.00	0.02	0.56	
Carbonate	mg/l	6.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	
Bicarbonate	mg/l	282.00	488.00	146.74	46.35	88.00	0.00	147.50	463.50	
Chloride	mg/l	194.00	540.00	54.15	49.30	6.00	0.00	65.00	493.00	
F luoride	mg/l	0.80	1.10	0.31	0.09	0.04	0.00	0.37	0.94	
Sulphate	mg/l	52.86	200.00	15.58	17.80	4.86	0.00	13.70	178.00	
Sulphite	mg/l	-	-	-						
Nitrate	mg/l	0.52	0.56	0.21	0.04	0.04	0.00	0.20	0.42	
Nitrite	mg/l	0.06	0.06	0.02	0.01	0.00	0.00	0.05	0.06	
Phosphate	mg/l	0.14	0.06	0.04	0.00	0.01	0.00	0.02	0.05	
Silicate	mg/l	28.84	20.00	18.71	1.90	10.46	0.00	15.70	19.00	
B.O.D.	mg/l	2.00	0.90	0.86	0.07	0.30	0.00	0.60	0.55	
D.O..	mg/l	7.30	8.00	6.64	3.78	5.80	0.00	7.05	7.55	
3. CHEMICAL INDICES										
Hardness Number	m.eq/l	158.62	464.00	116.51	43.15	83.16	0.00	123.00	431.50	
Sodium Percentage	m.eq/l	71.81	66.00	38.76	6.55	13.38	0.00	43.50	65.50	
S.A.R.	m.eq/l	6.73	8.70	1.74	0.81	0.29	0.00	1.90	8.10	
R.S.C.	m.eq/l	1.67	0.00	#DIV/0!	0.00	0.00	0.00	0.05	0.00	

STATEWISE/BASINWISE INFORMATION ON WATER QUALITY

- 1 Basin: Bhadar Basin Gujarat
- 2 River : Bhadar
- 3 Site : GANOD
- 4 Name & Location of Laboratory : Level II Laboratory , MahiDivision, CWC, Ahemadabad
- 5 Type of Staion, Parameter and frequency of monitoring : Baseline, Station , 24 parameters, monthly

Water Quality Data

Parameter	Unit	Analysis of Data From 1996-97 to 2005-06						Last year Average 2005-		Remark
		Maximum observed		Average observed		Minimum observed		Monsoon	Non- Monsoon	
		Monsoon	Non- Monsoon	Monsoon	Non- Monsoon	Monsoon	Non- Monsoon			
1. PHYSICAL										
Discharge	Cumecs	63.09	0.00	5.33	0.00	0.00	0.00	13.16	0.00	
Temperature	0C	30.00	0.00	24.48	0.00	0.00	0.00	27.80	0.00	
pH		8.52	0.00	7.24	0.00	0.00	0.00	8.45	0.00	
Conductivity at 25 C	Micro mho	886.00	0.00	339.24	0.00	0.00	0.00	460.00	0.00	
Total Dissolvev Solids	mg/l	580.00	0.00	249.60	0.00	96.00	0.00	301.00	0.00	
Total Suspended Solids	mg/l	88.00	0.00	47.50	0.00	36.00	0.00	50.00	0.00	
Turbidity	NTU	6.00	0.00	3.23	0.00	1.00	0.00	1.50	0.00	
2. CHEMICAL										
Potassium	mg/l	2.00	0.00	1.15	0.00	0.00	0.00	1.50	0.00	
Sodium	mg/l	78.00	0.00	24.92	0.00	0.00	0.00	28.00	0.00	
Calcium	mg/l	35.80	0.00	27.89	0.00	0.00	0.00	33.00	0.00	
Magnesium	mg/l	9.70	0.00	5.87	0.00	0.00	0.00	7.20	0.00	
Aluminium	mg/l	0.10	0.00	0.02	0.00	0.00	0.00	0.02	0.00	
Iron	mg/l	0.24	0.00	0.06	0.00	0.00	0.00	0.04	0.00	
Ammonia	mg/l	0.10	0.00	0.02	0.00	0.00	0.00	0.03	0.00	
Carbonate	mg/l	3.00	0.00	0.31	0.00	0.00	0.00	2.50	0.00	
Bicarbonate	mg/l	204.00	0.00	116.07	0.00	0.00	0.00	122.00	0.00	
Chloride	mg/l	80.00	0.00	29.79	0.00	0.00	0.00	39.00	0.00	
F luoride	mg/l	0.78	0.00	0.29	0.00	0.00	0.00	0.31	0.00	
Sulphate	mg/l	20.08	0.00	10.62	0.00	0.00	0.00	11.65	0.00	
Sulphite	mg/l	-	-	-						
Nitrate	mg/l	0.28	0.00	0.14	0.00	0.00	0.00	0.17	0.00	
Nitrite	mg/l	0.07	0.00	0.02	0.00	0.00	0.00	0.04	0.00	
Phosphate	mg/l	0.14	0.00	0.04	0.00	0.00	0.00	0.01	0.00	
Silicate	mg/l	28.38	0.00	14.87	0.00	0.00	0.00	11.00	0.00	
B.O.D.	mg/l	1.90	0.00	0.76	0.00	0.00	0.00	0.50	0.00	
D.O..	mg/l	6.50	0.00	5.40	0.00	4.20	0.00	5.35	0.00	
3. CHEMICAL INDICES										
Hardness Number	m.eq/l	128.41	0.00	93.68	0.00	0.00	0.00	111.50	0.00	
Sodium Percentage	m.eq/l	58.09	0.00	29.62	0.00	0.00	0.00	34.50	0.00	
S.A.R.	m.eq/l	3.10	0.00	1.04	0.00	0.00	0.00	1.15	0.00	
R.S.C.	m.eq/l	0.95	0.00	0.15	0.00	0.00	0.00	0.00	0.00	

STATEWISE/BASINWISE INFORMATION ON WATER QUALITY

1 Basin: Banas Basin Gujarat

2 River :Banas

3 Site : ABU ROAD

4 Name & Location of Laboratory : Level II Laboratory , MahiDivision, CWC, Ahemadabad

5 Type of Staion, Parameter and frequency of monitoring : Baseline, Station , 24 parameters, monthly

Water Quality Data

Parameter	Unit	Analysis of Data From 1996-97 to 2005-06						Last year Average 2005-06		Remark
		Maximum observed		Average observed		Minimum observed		Monsoon	Non- Monsoon	
		Monsoon	Non- Monsoon	Monsoon	Non- Monsoon	Monsoon	Non- Monsoon			
RIVER - 6. BANAS	Unit	Max obs.		Avg obs.		Min obs.		Last year Average 2005-06		
SITE- 1. ABU ROAD		Monsoon	Non-Monsoon	Monsoon	Non-Monsoon	Monsoon	Non-Monsoon	Monsoon	Non-Monsoon	
PARAMETERS-										
1. PHYSICAL										
Discharge	Cumecs	96.66	0.00	4.65	0.00	0.00	0.00	16.63	0.00	
Temperature	0C	30.00	0.00	13.67	0.00	0.00	0.00	25.67	0.00	
pH		8.35	0.00	4.75	0.00	0.00	0.00	7.90	0.00	
Conductivity at 25 C	Micro mho/cm	416.00	0.00	179.29	0.00	0.00	0.00	219.00	0.00	
Total Dissolvev Solids	mg/l	288.00	0.00	93.83	0.00	0.00	0.00	152.00	0.00	
Total Suspended Solids	mg/l	58.00	0.00	22.25	0.00	0.00	0.00	46.00	0.00	
Turbidity	NTU	12.00	0.00	2.50	0.00	0.00	0.00	6.67	0.00	
2. CHEMICAL										
Potassium	mg/l	2.00	0.00	0.73	0.00	0.00	0.00	1.00	0.00	
Sodium	mg/l	38.00	0.00	13.55	0.00	0.00	0.00	14.67	0.00	
Calcium	mg/l	32.06	0.00	18.63	0.00	0.00	0.00	30.67	0.00	
Magnesium	mg/l	8.70	0.00	3.87	0.00	0.00	0.00	5.13	0.00	
Aluminium	mg/l	0.08	0.00	0.02	0.00	0.00	0.00	0.02	0.00	
Iron	mg/l	0.26	0.00	0.07	0.00	0.00	0.00	0.04	0.00	
Ammonia	mg/l	0.04	0.00	0.01	0.00	0.00	0.00	0.00	0.00	
Carbonate	mg/l	3.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	
Bicarbonate	mg/l	154.00	0.00	75.10	0.00	0.00	0.00	105.67	0.00	
Chloride	mg/l	40.00	0.00	16.10	0.00	0.00	0.00	20.67	0.00	
F luoride	mg/l	0.90	0.00	0.17	0.00	0.00	0.00	0.24	0.00	
Sulphate	mg/l	18.46	0.00	7.47	0.00	0.00	0.00	9.10	0.00	
Sulphite	mg/l	-	-	-						
Nitrate	mg/l	0.20	0.00	0.07	0.00	0.00	0.00	0.10	0.00	
Nitrite	mg/l	0.08	0.00	0.01	0.00	0.00	0.00	0.05	0.00	
Phosphate	mg/l	0.06	0.00	0.02	0.00	0.00	0.00	0.01	0.00	
Silicate	mg/l	26.48	0.00	10.60	0.00	0.00	0.00	11.07	0.00	
B.O.D.	mg/l	1.50	0.00	0.25	0.00	0.00	0.00	0.53	0.00	
D.O..	mg/l	7.50	0.00	2.68	0.00	0.00	0.00	5.37	0.00	
3. CHEMICAL INDICES										
Hardness Number	m.eq/l	115.76	0.00	62.38	0.00	0.00	0.00	97.33	0.00	
Sodium Percentage	m.eq/l	43.65	0.00	18.44	0.00	0.00	0.00	24.33	0.00	
S.A.R.	m.eq/l	1.62	0.00	0.57	0.00	0.00	0.00	0.63	0.00	
R.S.C.	m.eq/l	0.44	0.00	0.05	0.00	0.00	0.00	0.00	0.00	

STATEWISE/BASINWISE INFORMATION ON WATER QUALITY

- 1 Basin: Banas Basin Gujarat
- 2 River :Banas
- 3 Site : KAMALPUR
- 4 Name & Location of Laboratory : Level II Laboratory , MahiDivision, CWC, Ahemadabad
- 5 Type of Staion, Parameter and frequency of monitoring : Baseline, Station , 24 parameters, monthly

Water Quality Data

Parameter	Unit	Analysis of Data From 1996-97 to 2005-06						Last year Average 2005-06		Remark
		Maximum observed		Average observed		Minimum observed		Monsoon	Non- Monsoon	
		Monsoon	Non- Monsoon	Monsoon	Non- Monsoon	Monsoon	Non- Monsoon			
1. PHYSICAL										
Discharge	Cumecs	43.74	0.00	2.22	0.00	0.00	0.00	7.29	0.00	
Temperature	0C	36.00	0.00	9.80	0.00	0.00	0.00	27.00	0.00	
pH		8.52	0.00	4.05	0.00	0.00	0.00	8.10	0.00	
Conductivity at 25 C	Micro mho	514.00	0.00	152.37	0.00	0.00	0.00	160.00	0.00	
Total Dissolved Solids	mg/l	158.00	0.00	68.50	0.00	0.00	0.00	116.00	0.00	
Total Suspended Solids	mg/l	62.00	0.00	26.00	0.00	0.00	0.00	42.00	0.00	
Turbidity	NTU	8.00	0.00	3.00	0.00	0.00	0.00	4.00	0.00	
2. CHEMICAL										
Potassium	mg/l	2.00	0.00	0.70	0.00	0.00	0.00	1.00	0.00	
Sodium	mg/l	44.00	0.00	11.87	0.00	0.00	0.00	10.00	0.00	
Calcium	mg/l	32.06	0.00	15.26	0.00	0.00	0.00	29.00	0.00	
Magnesium	mg/l	8.70	0.00	3.29	0.00	0.00	0.00	4.80	0.00	
Aluminium	mg/l	0.12	0.00	0.02	0.00	0.00	0.00	0.02	0.00	
Iron	mg/l	0.24	0.00	0.06	0.00	0.00	0.00	0.08	0.00	
Ammonia	mg/l	0.08	0.00	0.01	0.00	0.00	0.00	0.01	0.00	
Carbonate	mg/l	1.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	
Bicarbonate	mg/l	170.00	0.00	63.60	0.00	0.00	0.00	98.00	0.00	
Chloride	mg/l	48.00	0.00	14.53	0.00	0.00	0.00	18.00	0.00	
Fluoride	mg/l	0.44	0.00	0.13	0.00	0.00	0.00	0.26	0.00	
Sulphate	mg/l	17.34	0.00	6.24	0.00	0.00	0.00	7.40	0.00	
Sulphite	mg/l	-	-	-						
Nitrate	mg/l	0.14	0.00	0.05	0.00	0.00	0.00	0.10	0.00	
Nitrite	mg/l	0.04	0.00	0.01	0.00	0.00	0.00	0.02	0.00	
Phosphate	mg/l	0.08	0.00	0.02	0.00	0.00	0.00	0.01	0.00	
Silicate	mg/l	25.84	0.00	9.19	0.00	0.00	0.00	9.80	0.00	
B.O.D.	mg/l	1.30	0.00	#DIV/0!	0.00	0.00	0.00	0.50	0.00	
D.O.	mg/l	6.80	0.00	6.00	0.00	5.20	0.00	5.20	0.00	
3. CHEMICAL INDICES										
Hardness Number	m.eq/l	115.76	0.00	51.58	0.00	0.00	0.00	92.00	0.00	
Sodium Percentage	m.eq/l	44.70	0.00	15.22	0.00	0.00	0.00	19.00	0.00	
S.A.R.	m.eq/l	1.78	0.00	0.50	0.00	0.00	0.00	0.50	0.00	
R.S.C.	m.eq/l	0.47	0.00	0.06	0.00	0.00	0.00	0.00	0.00	

STATEWISE/BASINWISE INFORMATION ON WATER QUALITY

1 Basin: Banas Basin Gujarat

2 River :BALARAM

3 Site : Chitrasani

4 Name & Location of Laboratory : Level II Laboratory , MahiDivision, CWC, Ahemadabad

5 Type of Staion, Parameter and frequency of monitoring : Baseline, Station , 24 parameters, monthly

[Water Quality Data](#)

Parameter	Unit	Analysis of Data From 1996-97 to 2005-06						Last year Average 2005-06		Remark
		Maximum observed		Average observed		Minimum observed		Monsoon	Non- Monsoon	
		Monsoon	Non-Monsoon	Monsoon	Non-Monsoon	Monsoon	Non-Monsoon			
1. PHYSICAL										
Discharge	Cumecs	7.32	0.00	0.71	0.00	0.00	0.00	1.69	0.00	
Temperature	0C	28.00	0.00	7.88	0.00	0.00	0.00	25.33	0.00	
pH		8.00	0.00	3.16	0.00	0.00	0.00	7.87	0.00	
Conductivity at 25 C	Micro mho/cm	476.00	0.00	129.35	0.00	0.00	0.00	241.00	0.00	
Total Dissolvev Solids	mg/l	296.00	0.00	41.33	0.00	0.00	0.00	165.33	0.00	
Total Suspended Solids	mg/l	62.00	0.00	10.33	0.00	0.00	0.00	41.33	0.00	
Turbidity	NTU	10.00	0.00	1.25	0.00	0.00	0.00	5.00	0.00	
2. CHEMICAL										
Potassium	mg/l	2.00	0.00	0.55	0.00	0.00	0.00	1.00	0.00	
Sodium	mg/l	42.00	0.00	9.60	0.00	0.00	0.00	14.00	0.00	
Calcium	mg/l	33.67	0.00	12.52	0.00	0.00	0.00	29.00	0.00	
Magnesium	mg/l	8.70	0.00	2.81	0.00	0.00	0.00	5.17	0.00	
Aluminium	mg/l	0.08	0.00	0.02	0.00	0.00	0.00	0.02	0.00	
Iron	mg/l	0.14	0.00	0.03	0.00	0.00	0.00	0.03	0.00	
Ammonia	mg/l	0.04	0.00	0.01	0.00	0.00	0.00	0.01	0.00	
Carbonate	mg/l	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Bicarbonate	mg/l	162.00	0.00	53.80	0.00	0.00	0.00	100.00	0.00	
Chloride	mg/l	46.00	0.00	10.90	0.00	0.00	0.00	20.00	0.00	
F luoride	mg/l	0.28	0.00	0.07	0.00	0.00	0.00	0.25	0.00	
Sulphate	mg/l	11.66	0.00	4.19	0.00	0.00	0.00	9.03	0.00	
Sulphite	mg/l	-	-	-						
Nitrate	mg/l	0.18	0.00	0.04	0.00	0.00	0.00	0.12	0.00	
Nitrite	mg/l	0.04	0.00	0.01	0.00	0.00	0.00	0.03	0.00	
Phosphate	mg/l	0.04	0.00	0.01	0.00	0.00	0.00	0.01	0.00	
Silicate	mg/l	20.16	0.00	7.22	0.00	0.00	0.00	12.97	0.00	
B.O.D.	mg/l	1.10	0.00	0.11	0.00	0.00	0.00	0.50	0.00	
D.O..	mg/l	7.40	0.00	3.10	0.00	0.00	0.00	6.20	0.00	
3. CHEMICAL INDICES										
Hardness Number	m.eq/l	119.78	0.00	42.84	0.00	0.00	0.00	94.00	0.00	
Sodium Percentage	m.eq/l	44.34	0.00	12.18	0.00	0.00	0.00	22.67	0.00	
S.A.R.	m.eq/l	1.73	0.00	0.40	0.00	0.00	0.00	0.60	0.00	
R.S.C.	m.eq/l	0.41	0.00	0.05	0.00	0.00	0.00	0.00	0.00	