

## GANESH VISARJAN DATA FOR THE YEAR 2014

### River Mandovi at Ferry Point 2014

Sr.No	Parameters	Before Ganesh Visarjan	After Ganesh Visarjan	After 15 day of Ganesh visarjan
1	pH	7.24	7.02	7.05
2	Temperature °C	29.5	28.7	28
3	Cond ms/cm	14.65	3.827	5.714
4	Turb NTU	9.15	15.7	8.86
5	DO mg/l	6.6	6.8	6.8
6	BOD mg/l	0.9	1.6	1.8
7	COD mg/l	25	18	9
8	No <sub>3</sub> -N mg/l	0.67	0.46	0.31
9	No <sub>2</sub> -N mg/l	0.01	BDL	0.01
10	PO <sub>4</sub> -P mg/l	0.02	0.02	0.02
11	Ca mg/l	208.42	32.06	48.1
12	So <sub>2</sub> -4 mg/l	133.1	167.82	289.35
13	Chloride mg/l	4869.41	819.6	1859
14	NH <sub>3</sub> -N mg/l	0.1	0.02	0.035
15	Fecal Coliform MPN/100ml	3300	7900	4900
16	Total Coliform MPN/100 ml	4900	13000	7000
17	Ni mg/l	0.16	0.101	0.112
18	Cr mg/l	BDL	BDL	BDL
19	Zn mg/l	0.024	0.024	0.018
20	Cd mg/l	0.01	0.005	0.007
21	Cu mg/l	0.013	0.017	0.011
22	Co mg/l	0.202	0.096	0.118
23	Pb mg/l	0.114	0.015	0.045
24	Fe mg/l	1.119	1.159	1.537
25	Mn mg/l	0.134	0.028	0.142

### River Mapusa at Taricode- Mapusa 2014

Sr.No	Parameters	Before Ganesh Visarjan	After Ganesh Visarjan	After 15 day of Ganesh visarjan
1	pH	6.28	6.87	6.41
2	Temperature °C	28.5	28.4	28.3
3	Cond µs/cm	352.6	172.24	256.63
4	Turb NTU	5.78	5.25	6.2
5	DO mg/l	2	2.5	2.9
6	BOD mg/l	-	1.4	1.7
7	COD mg/l	14	5	10
8	No <sub>3</sub> -N mg/l	0.77	0.87	0.96
9	No <sub>2</sub> -N mg/l	0.02	0.02	BDL
10	PO <sub>4</sub> -P mg/l	0.09	0.04	0.05
11	Ca mg/l	12.02	9.62	10.42
12	So <sub>2</sub> -4 mg/l	16.59	9.63	9.41
13	Chloride mg/l	68.46	20.73	43.5
14	NH <sub>3</sub> -N mg/l	0.28	0.08	0.079
15	Fecal Coliform MPN/100ml	17000	17000	13000
16	Total Coliform MPN/100 ml	22000	22000	17000
17	Ni mg/l	0.11	0.068	0.077
18	Cr mg/l	BDL	BDL	BDL
19	Zn mg/l	0.008	0.004	0.016
20	Cd mg/l	0.004	0.004	0.008
21	Cu mg/l	0.009	0.012	0.012
22	Co mg/l	0.03	0.077	0.061
23	Pb mg/l	0.024	0.024	0.186
24	Fe mg/l	1.495	1.41	2.705
25	Mn mg/l	0.019	0.012	0.282

**Carambolim Lake at Carambolim 2014**

Sr.No	Parameters	Before Ganesh Visarjan	After Ganesh Visarjan	After 15 day of Ganesh visarjan
1	pH	6.96	6.51	6.03
2	Temperature °C	32	28.3	28
3	Cond µs/cm	135.66	96.92	123.28
4	Turb NTU	33.4	8.17	4.85
5	DO mg/l	3.8	4.5	2.8
6	BOD mg/l	2.3	2.8	1.8
7	COD mg/l	14	16	5
8	No <sub>3</sub> -N mg/l	0.07	0.11	4.14
9	No <sub>2</sub> -N mg/l	0.01	0.01	BDL
10	PO <sub>4</sub> -P mg/l	0.01	0.01	0.03
11	Ca mg/l	13.63	9.62	11.22
12	So <sub>2</sub> -4 mg/l	6.02	8.82	10.59
13	Chloride mg/l	10.61	3.37	8.8
14	NH <sub>3</sub> -N mg/l	0.27	0.01	0.014
15	Fecal Coliform MPN/100ml	3300	7900	3300
16	Total Coliform MPN/100 ml	4900	11000	4900
17	Ni mg/l	0.038	0.138	0.15
18	Cr mg/l	BDL	BDL	BDL
19	Zn mg/l	0.04	0.04	0.022
20	Cd mg/l	0.008	0.013	0.01
21	Cu mg/l	0.015	0.014	0.014
22	Co mg/l	0.073	0.11	0.061
23	Pb mg/l	0.014	0.029	0.136
24	Fe mg/l	1.342	2.516	3.066
25	Mn mg/l	0.118	0.097	0.404

**Carkhamba (Mansher) Panaji – St. Cruz road 2014**

Sr.No	Parameters	Before Ganesh Visarjan	After Ganesh Visarjan	After 15 day of Ganesh visarjan
1	pH	6.93	7.28	7.21
2	Temperature °C	31.5	29	30.4
3	Cond ms/cm	5.23	1.72	14.87
4	Turb NTU	10	15.5	8.49
5	DO mg/l	6.5	6.1	5
6	BOD mg/l	2.2	2.5	1.6
7	COD mg/l	17	18	14
8	No <sub>3</sub> -N mg/l	0.31	0.13	0.57
9	No <sub>2</sub> -N mg/l	0.09	BDL	0.01
10	PO <sub>4</sub> -P mg/l	0.02	0.02	0.02
11	Ca mg/l	39.28	16.83	74.55
12	So <sub>2</sub> -4 mg/l	173.61	275.85	515.04
13	Chloride mg/l	1639.21	241.06	4745.3
14	NH <sub>3</sub> -N mg/l	0.19	0.04	0.016
15	Fecal Coliform MPN/100ml	13000	7900	4900
16	Total Coliform MPN/100 ml	17000	13000	7000
17	Ni mg/l	0.084	0.056	0.189
18	Cr mg/l	BDL	BDL	BDL
19	Zn mg/l	0.049	0.01	0.068
20	Cd mg/l	0.013	0.006	0.012
21	Cu mg/l	0.011	0.024	0.013
22	Co mg/l	0.117	0.08	0.11
23	Pb mg/l	0.042	0.011	0.089
24	Fe mg/l	1.421	1.603	1.57
25	Mn mg/l	0.018	0.029	0.117

**Near the bridge , Chereaband , Dandora, Cuncolim 2014**

Sr.No	Parameters	Before Ganesh Visarjan	After Ganesh Visarjan	After 15 day of Ganesh visarjan
1	pH	6.48	6.84	6.63
2	Temperature °C	27	27	27
3	Cond µs/cm	89.1	9.43	60.5
4	Turb NTU	9.07	2.93	183
5	DO mg/l	6.1	6.5	7.2
6	BOD mg/l	0.5	0.7	1.1
7	COD mg/l	5	14	20
8	No <sub>3</sub> -N mg/l	0.79	0.66	0.88
9	No <sub>2</sub> -N mg/l	BDL	BDL	0.01
10	PO <sub>4</sub> -P mg/l	0.01	0.02	0.07
11	Ca mg/l	4.01	5.61	5.61
12	So <sub>2</sub> -4 mg/l	4.92	6.44	7.43
13	Chloride mg/l	10.61	5.79	7.8
14	NH <sub>3</sub> -N mg/l	0.04	0.02	0.046
15	Fecal Coliform MPN/100ml	13000	7900	7900
16	Total Coliform MPN/100 ml	24000	13000	13000
17	Ni mg/l	0.111	0.121	0.094
18	Cr mg/l	BDL	BDL	BDL
19	Zn mg/l	0.027	0.023	0.073
20	Cd mg/l	0.012	0.018	0.008
21	Cu mg/l	0.025	0.046	0.041
22	Co mg/l	0.104	0.052	0.105
23	Pb mg/l	0.045	0.056	0.207
24	Fe mg/l	1.225	3.203	7.91
25	Mn mg/l	0.022	0.222	0.322

**Near Railway bridge, Khandiwada , Curchorem 2014**

Sr.No	Parameters	Before Ganesh Visarjan	After Ganesh Visarjan	After 15 day of Ganesh visarjan
1	pH	5.98	6.07	5.6
2	Temperature °C	28.7	28	27.8
3	Cond µs/cm	62.54	49.24	110.2
4	Turb NTU	9.4	5.92	12.8
5	DO mg/l	4.3	7.8	4.8
6	BOD mg/l	0.5	0.8	0.5
7	COD mg/l	6	7	3
8	No <sub>3</sub> -N mg/l	0.29	0.33	0.44
9	No <sub>2</sub> -N mg/l	BDL	BDL	BDL
10	PO <sub>4</sub> -P mg/l	0.03	0.01	0.02
11	Ca mg/l	3.21	3.21	5.61
12	So <sub>2</sub> -4 mg/l	4.46	4.61	7.58
13	Chloride mg/l	6.75	0.96	14.7
14	NH <sub>3</sub> -N mg/l	0.02	0.03	0.028
15	Fecal Coliform MPN/100ml	7900	4900	2300
16	Total Coliform MPN/100 ml	13000	7000	3300
17	Ni mg/l	0.199	-	0.081
18	Cr mg/l	BDL	-	BDL
19	Zn mg/l	0.052	-	0.03
20	Cd mg/l	0.015	-	0.02
21	Cu mg/l	0.023	-	0.019
22	Co mg/l	0.073	-	0.109
23	Pb mg/l	0.053	-	0.044
24	Fe mg/l	1.845	-	1.882
25	Mn mg/l	0.013	-	0.122

**Paraste, Harmalkar wada, Pernem 2014**

Sr.No	Parameters	Before Ganesh Visarjan	After Ganesh Visarjan	After 15 day of Ganesh visarjan
1	pH	6.77	6.97	6.56
2	Temperature °C	27	28.3	28
3	Cond µs/cm	150.5	127.2	203.63
4	Turb NTU	14	9.31	9.3
5	DO mg/l	7.1	7.2	7.4
6	BOD mg/l	0.6	0.8	0.8
7	COD mg/l	3	17	3
8	No <sub>3</sub> -N mg/l	0.32	0.32	0.46
9	No <sub>2</sub> -N mg/l	0.01	BDL	0.01
10	PO <sub>4</sub> -P mg/l	0.02	0.01	0.04
11	Ca mg/l	5.61	4.81	5.61
12	So <sub>2</sub> -4 mg/l	5.42	7	7.14
13	Chloride mg/l	26.03	15.91	38.7
14	NH <sub>3</sub> -N mg/l	0.05	0.07	0.023
15	Fecal Coliform MPN/100ml	13000	13000	7900
16	Total Coliform MPN/100 ml	17000	17000	13000
17	Ni mg/l	0.043	0.048	0.033
18	Cr mg/l	BDL	BDL	BDL
19	Zn mg/l	0.024	0.03	0.014
20	Cd mg/l	0.01	0.02	0.012
21	Cu mg/l	0.013	0.022	0.016
22	Co mg/l	0.202	0.034	0.074
23	Pb mg/l	0.114	0.011	0.533
24	Fe mg/l	1.119	1.259	1.778
25	Mn mg/l	0.134	0.007	0.028

**Daudkiwada River, Daudkiwada-velus, ward no. 1, Valpoi 2014**

Sr.No	Parameters	Before Ganesh Visarjan	After Ganesh Visarjan	After 15 day of Ganesh visarjan
1	pH	7.22	6.33	6.26
2	Temperature °C	28	28.9	27
3	Cond µs/cm	66.77	58.03	69.07
4	Turb NTU	1.85	6.85	2.02
5	DO mg/l	7.6	7.3	7.6
6	BOD mg/l	0.7	0.3	0.4
7	COD mg/l	2	9	2
8	No <sub>3</sub> -N mg/l	0.27	0.24	0.24
9	No <sub>2</sub> -N mg/l	BDL	BDL	BDL
10	PO <sub>4</sub> -P mg/l	0.004	0.01	BDL
11	Ca mg/l	4.81	4.01	5.61
12	So <sub>2</sub> -4 mg/l	2.95	4.28	4.42
13	Chloride mg/l	2.89	0.96	6.4
14	NH <sub>3</sub> -N mg/l	0.04	0.01	0.005
15	Fecal Coliform MPN/100ml	2300	7000	3300
16	Total Coliform MPN/100 ml	3300	11000	4900
17	Ni mg/l	0.108	0.112	0.159
18	Cr mg/l	BDL	BDL	BDL
19	Zn mg/l	0.009	0.036	0.009
20	Cd mg/l	0.019	0.013	0.008
21	Cu mg/l	0.017	0.014	0.018
22	Co mg/l	0.103	0.076	0.096
23	Pb mg/l	0.024	0.127	0.035
24	Fe mg/l	1.152	1.424	1.359
25	Mn mg/l	0.044	0.035	0.076

**Near bridge, Orcotto, ward no. 4, Sanguem 2014**

Sr.No	Parameters	Before Ganesh Visarjan	After Ganesh Visarjan	After 15 day of Ganesh visarjan
1	pH	6.07	6.08	5.56
2	Temperature °C	30.4	29	26.7
3	Cond µs/cm	55.21	60.86	40.7
4	Turb NTU	8.12	7.31	66.3
5	DO mg/l	6.3	6.5	6.5
6	BOD mg/l	0.3	1.3	1.8
7	COD mg/l	7	7	17
8	No <sub>3</sub> -N mg/l	0.62	0.25	0.37
9	No <sub>2</sub> -N mg/l	0.01	BDL	0.01
10	PO <sub>4</sub> -P mg/l	0.01	0.01	0.07
11	Ca mg/l	2.4	3.21	3.21
12	So <sub>2</sub> -4 mg/l	3.24	5.5	7.95
13	Chloride mg/l	3.86	1.45	3.9
14	NH <sub>3</sub> -N mg/l	0.07	0.01	0.044
15	Fecal Coliform MPN/100ml	2300	3300	7900
16	Total Coliform MPN/100 ml	3300	4900	11000
17	Ni mg/l	0.136	0.09	0.073
18	Cr mg/l	BDL	BDL	BDL
19	Zn mg/l	0.015	0.008	0.043
20	Cd mg/l	0.012	0.02	0.01
21	Cu mg/l	0.022	0.024	0.016
22	Co mg/l	0.111	0.094	0.075
23	Pb mg/l	0.036	0.034	0.039
24	Fe mg/l	1.576	1.784	4.511
25	Mn mg/l	0.006	0.074	0.167

**Pimpolcotto, ward no. 2, Sanguem 2014**

Sr.No	Parameters	Before Ganesh Visarjan	After Ganesh Visarjan	After 15 day of Ganesh visarjan
1	pH	6.14	6.13	5.67
2	Temperature °C	28.4	28.5	27
3	Cond µs/cm	49.05	54.39	53.7
4	Turb NTU	7.62	9.96	36.1
5	DO mg/l	7.2	7.3	6.9
6	BOD mg/l	0.3	0.4	1.3
7	COD mg/l	2	7	2
8	No <sub>3</sub> -N mg/l	0.52	0.4	0.92
9	No <sub>2</sub> -N mg/l	BDL	BDL	0.01
10	PO <sub>4</sub> -P mg/l	0.01	0.01	0.02
11	Ca mg/l	2.4	2.4	3.21
12	So <sub>2</sub> -4 mg/l	2.01	4.61	5.63
13	Chloride mg/l	22.18	1.45	6.4
14	NH <sub>3</sub> -N mg/l	0.004	0.001	0.016
15	Fecal Coliform MPN/100ml	3300	3300	4900
16	Total Coliform MPN/100 ml	4900	4900	7900
17	Ni mg/l	0.091	0.068	0.154
18	Cr mg/l	BDL	BDL	BDL
19	Zn mg/l	0.005	0.009	0.06
20	Cd mg/l	0.013	0.096	0.019
21	Cu mg/l	0.022	0.02	0.02
22	Co mg/l	0.096	0.124	0.102
23	Pb mg/l	0.048	0.043	0.054
24	Fe mg/l	1.386	1.499	2.175
25	Mn mg/l	0.022	0.097	0.098

**Panefond River, Kindlebag, ward no. 5, Canacona 2014**

Sr.No	Parameters	Before Ganesh Visarjan	After Ganesh Visarjan	After 15 day of Ganesh visarjan
1	pH	6.89	7.04	6.62
2	Temperature °C	27	28	30
3	Cond ms/cm	11.09	1.59	3.84
4	Turb NTU	3.26	1.77	7.41
5	DO mg/l	6.6	6.8	7.2
6	BOD mg/l	0.8	1	0.8
7	COD mg/l	9	14	4
8	No <sub>3</sub> -N mg/l	0.02	1.86	0.93
9	No <sub>2</sub> -N mg/l	BDL	BDL	0.09
10	PO <sub>4</sub> -P mg/l	0.01	0.02	0.03
11	Ca mg/l	136.27	24.05	32.06
12	So <sub>2</sub> -4 mg/l	52.25	181.33	235.34
13	Chloride mg/l	3808.75	241.06	1174.1
14	NH <sub>3</sub> -N mg/l	0.01	0.02	0.05
15	Fecal Coliform MPN/100ml	13000	13000	17000
16	Total Coliform MPN/100 ml	22000	24000	22000
17	Ni mg/l	0.129	0.069	0.115
18	Cr mg/l	BDL	BDL	BDL
19	Zn mg/l	0.05	0.006	0.008
20	Cd mg/l	0.011	0.015	0.017
21	Cu mg/l	0.025	0.027	0.109
22	Co mg/l	0.147	0.109	0.072
23	Pb mg/l	0.113	0.068	0.105
24	Fe mg/l	1.318	1.229	1.331
25	Mn mg/l	0.11	0.037	0.044

**Baina Beach, Vasco 2014**

Sr.No	Parameters	Before Ganesh Visarjan	After Ganesh Visarjan	After 15 day of Ganesh visarjan
1	pH	7.56	8.02	7.99
2	Temperature °C	27	27	29
3	Cond ms/cm	55.1	29.19	49.6
4	Turb NTU	23.9	4.93	12.9
5	DO mg/l	6.6	7.5	6.5
6	BOD mg/l	1.9	3.4	1.2
7	COD mg/l	-	42	-
8	No <sub>3</sub> -N mg/l	0.27	0.46	0.65
9	No <sub>2</sub> -N mg/l	0.02	0.01	0.07
10	PO <sub>4</sub> -P mg/l	0.08	0.07	0.08
11	Ca mg/l	817.63	200.4	392.78
12	So <sub>2</sub> -4 mg/l	1344.25	916.28	719.52
13	Chloride mg/l	20634.74	9449.55	20840.4
14	NH <sub>3</sub> -N mg/l	0.09	0.15	0.026
15	Fecal Coliform MPN/100ml	5400	3500	1300
16	Total Coliform MPN/100 ml	9200	5400	1700
17	Ni mg/l	0.89	0.384	0.811
18	Cr mg/l	BDL	BDL	BDL
19	Zn mg/l	0.16	0.085	0.142
20	Cd mg/l	0.063	0.024	0.055
21	Cu mg/l	0.054	0.105	0.02
22	Co mg/l	0.674	0.194	0.546
23	Pb mg/l	0.735	0.307	0.702
24	Fe mg/l	2.481	2.015	2.115
25	Mn mg/l	0.059	0.083	0.13