

SURFACE WATER QUALITY

Date of Sampling: 19.02.2016

Sl. No	Parameter	Units	W-1 MINE PIT WATER	W-2 SHALI NADI UP STREAM	W-3 SHALI NADI DOWN STREAM
1	Odour	--	Un-objectionable	Un-objectionable	Un-objectionable
2	Taste	--	Agreeable	Agreeable	Agreeable
3	Color	Hazen units	<5	<5	<5
4	pH	--	6.17	6.72	6.95
5	Turbidity	NTU	<5	<5	<5
6	Dissolved Oxygen	mg/l	6.9	7.20	7.10
7	Total Dissolved solids	mg/l	38.9	55.4	60.8
8	Total Suspended solids	mg/l	6.1	10.4	18.0
9	Alkalinity as CaCO ₃	mg/l	12.0	19	20.0
10	Total Hardness as CaCO ₃	mg/l	18.0	26.0	33.0
11	Nitrate as NO ₃	mg/l	0.17	0.25	0.41
12	Phosphates as PO ₄	mg/l	0.02	0.02	0.02
13	Chlorides as Cl	mg/l	9.4	14	15
14	Sulphates as SO ₄	mg/l	4.3	3.5	5.2
15	Sodium as Na	mg/l	4.8	5.8	4.9
16	Potassium as K	mg/l	1.3	3	2.6
17	Calcium as Ca	mg/l	3.9	5.8	6.8
18	Magnesium as Mg	mg/l	2	2.8	3.9
19	Lead as Pb	mg/l	BDL	BDL	BDL
20	Manganese as Mn	mg/l	0.04	0.04	0.07
21	Cadmium as Cd	mg/l	BDL	BDL	BDL
22	Chromium as Cr	mg/l	BDL	BDL	BDL
23	Copper as Cu	mg/l	BDL	BDL	BDL
24	Zinc as Zn	mg/l	BDL	BDL	BDL
25	Iron as Fe	mg/l	0.17	0.22	0.24
26	Fluoride as F	mg/l	0.01	0.01	0.01
27	Mercury as Hg	mg/l	BDL	BDL	BDL
28	Selenium as Se	mg/l	BDL	BDL	BDL
29	Arsenic as As	mg/l	BDL	BDL	BDL
30	Cyanide as CN	mg/l	BDL	BDL	BDL
31	Boron as B	mg/l	BDL	BDL	BDL
32	BOD	mg/l	<3	<3	<3

BDL: Below Detectable Limit

mg/l: Milligram per liter

GROUND WATER QUALITY

Date of Sampling: 19.02.2016

Sl. No	Parameter	Units	W-4 PANDAPNIWADI VILLAGE	W - 5 THANEWADI VILLAGE	W -6 DHANGARWADI VILLAGE	W-7 PATEWADI VILLAGE	W -8 BHANDAR WADI VILLAGE
1	Odour	--	Un-objectionable	Un-objectionable	Un-objectionable	Un-objectionable	Un-objectionable
2	Taste	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3	Color	Hazen units	<5	<5	<5	<5	<5
4	pH	--	6.93	6.71	6.63	6.59	6.92
5	Turbidity	NTU	<5	<5	<5	<5	<5
6	Dissolved Oxygen	mg/l	5.20	5.00	5.20	5.10	5.10
7	Total Dissolved solids	mg/l	53.5	58.5	35.1	70.3	42.7
8	Total Suspended solids	mg/l	4.0	5.0	6.0	4.0	3.0
9	Alkalinity as CaCO ₃	mg/l	17.5	20	12	22.4	14.2
10	Total Hardness as CaCO ₃	mg/l	20.0	30.3	16.6	35.2	21.0
11	Nitrate as NO ₃	mg/l	0.37	0.34	0.32	0.48	0.21
12	Phosphates as PO ₄	mg/l	0.02	0.03	0.01	0.03	0.02
13	Chlorides as Cl	mg/l	13.7	16	9.3	18	12.1
14	Sulphates as SO ₄	mg/l	3.8	1.9	1.4	5.4	1.7
15	Sodium as Na	mg/l	8.6	5.1	3.1	6.5	3.7
16	Potassium as K	mg/l	1.8	2.7	2.7	3.8	3.1
17	Calcium as Ca	mg/l	4.2	6.7	4.5	8	4.8
18	Magnesium as Mg	mg/l	2.3	3.3	1.3	3.7	2.2
19	Lead as Pb	mg/l	BDL	BDL	BDL	BDL	BDL
20	Manganese as Mn	mg/l	0.04	0.04	0.02	0.04	0.04
21	Cadmium as Cd	mg/l	BDL	BDL	BDL	BDL	BDL
22	Chromium as Cr	mg/l	BDL	BDL	BDL	BDL	BDL
23	Copper as Cu	mg/l	BDL	BDL	BDL	BDL	BDL
24	Zinc as Zn	mg/l	BDL	BDL	BDL	BDL	BDL
25	Iron as Fe	mg/l	0.23	0.22	0.18	0.22	0.22
26	Fluoride as F	mg/l	0.01	0.01	0.01	0.01	0.01
27	Mercury as Hg	mg/l	BDL	BDL	BDL	BDL	BDL
28	Selenium as Se	mg/l	BDL	BDL	BDL	BDL	BDL
29	Arsenic as As	mg/l	BDL	BDL	BDL	BDL	BDL
30	Cyanide as CN	mg/l	BDL	BDL	BDL	BDL	BDL
31	Boron as B	mg/l	BDL	BDL	BDL	BDL	BDL
32	B.O.D	mg/l	<3	<3	<3	<3	<3

BDL: Below Detectable Limit

mg/l: Milligram per liter

NOTE: The results relate only to the condition prevailing at the time of sampling