

AMBIENT AIR QUALITY

Station: A1, CORE ZONE						
S.No.	Month	Date	SPM	PM 10	SO ₂ (µg/m ³)	NO _x (µg/m ³)
			µg/m ³	µg/m ³ 24 hrs Average	24 hrs Average	24 hrs Average
1	MARCH'16	01-03-16	107.2	33.2	4.9	9.5
2		04-03-16	121.8	36.6	5.3	10.7
3		09-03-16	93.6	31.7	4.6	9.4
4		12-03-16	89.3	31.1	4.5	9.6
5		16-03-16	98.0	30.4	4.3	9.8
6		19-03-16	111.4	34.3	4.9	11.0
7		23-03-16	126.3	38.5	5.4	10.5
8		26-03-16	135.6	41.0	5.7	11.4
1	APRIL'16	04-04-16	114.4	34.4	4.7	9.7
2		06-04-16	128.5	39.4	5.6	12.0
3		13-04-16	98.4	30.6	4.5	10.1
4		16-04-16	84.5	31.9	4.7	10.5
5		20-04-16	98.0	30.3	4.4	9.6
6		23-04-16	115.5	35.3	5.1	10.2
7		27-04-16	130.0	39.4	5.6	11.5
8		30-04-16	142.3	42.9	6.1	13.1
1	MAY'16	04-05-16	102.0	34.3	4.2	9.5
2		07-05-16	122.4	36.9	5.1	11.5
3		11-05-16	102.0	31.2	4.3	9.4
4		14-05-16	81.9	35.0	5.0	9.9
5		18-05-16	93.6	31.2	4.4	9.9
6		21-05-16	119.2	36.2	5.0	10.8
7		25-05-16	133.9	40.5	5.6	12.6
8		28-05-16	139.0	44.3	6.3	12.9
	Min		81.9	30.3	4.2	9.4
	Max		142.3	44.3	6.3	13.1
	Mean		112.0	35.4	5.0	10.6
	10th percentile		90.6	30.8	4.3	9.5
	30th percentile		98.3	31.9	4.6	9.8
	50th percentile		112.9	34.7	4.9	10.3
	95th percentile		138.5	42.6	6.0	12.9
	98th percentile		140.8	43.6	6.2	13.0

BDL: BELOW DETECTABLE LIMIT

AMBIENT AIR QUALITY

Station: A2, NEAR MINES OFFICE						
S.No.	Month	Date	SPM	PM 10	SO ₂ (µg/m ³)	NO _x (µg/m ³)
			µg/m ³	µg/m ³	24 hrs Average	24 hrs Average
1	MARCH'16	01-03-16	98.2	30.6	4.3	9.1
2		04-03-16	129.0	40.3	5.6	12.7
3		09-03-16	82.8	31.6	4.5	9.2
4		12-03-16	95.4	30.6	4.4	10.2
5		16-03-16	90.1	32.0	4.6	11.3
6		19-03-16	106.0	33.8	4.8	10.3
7		23-03-16	130.5	41.0	5.7	12.7
8		26-03-16	122.4	38.1	5.3	10.8
1	APRIL'16	04-04-16	106.0	33.2	4.6	10.7
2		06-04-16	135.9	42.4	6.0	13.5
3		13-04-16	87.4	30.9	4.5	9.6
4		16-04-16	95.4	30.3	4.4	9.8
5		20-04-16	84.1	31.2	4.4	9.1
6		23-04-16	110.4	35.1	4.8	11.2
7		27-04-16	133.6	41.9	5.8	13.1
8		30-04-16	117.3	37.3	5.2	11.2
1	MAY'16	04-05-16	103.6	32.2	4.6	10.3
2		07-05-16	129.5	40.5	5.9	12.0
3		11-05-16	91.1	30.2	4.3	9.8
4		14-05-16	99.3	30.9	4.4	10.7
5		18-05-16	87.8	31.1	4.3	9.7
6		21-05-16	113.8	36.2	5.0	10.3
7		25-05-16	137.1	42.9	6.0	13.8
8		28-05-16	121.2	38.4	5.4	13.3

	Min		82.8	30.2	4.3	9.1
	Max		137.1	42.9	6.0	13.8
	Mean		108.7	35.1	5.0	11.0
	10th percentile		87.5	30.6	4.3	9.3
	30th percentile		95.4	31.2	4.5	10.2
	50th percentile		106.0	33.5	4.7	10.7
	95th percentile		135.6	42.3	6.0	13.5
	98th percentile		136.6	42.7	6.0	13.7

AMBIENT AIR QUALITY

Station: A3, NEAR HAULAGE ROAD						
S.No.	Month	Date	SPM	PM 10	SO ₂ (µg/m ³)	NO _x (µg/m ³)
			µg/m ³	µg/m ³	24 hrs Average	24 hrs Average
1	MARCH'16	01-03-16	95.4	32.5	4.5	9.8
2		04-03-16	115.2	39.8	5.5	12.3
3		09-03-16	88.7	30.9	4.4	9.2
4		12-03-16	91.1	31.7	4.6	9.9
5		16-03-16	96.3	33.6	4.9	10.8
6		19-03-16	102.9	35.0	4.9	10.5
7		23-03-16	133.8	46.4	6.4	14.4
8		26-03-16	129.5	44.3	6.3	13.2
1	APRIL'16	04-04-16	102.8	35.7	5.2	11.1
2		06-04-16	121.5	42.1	6.2	13.5
3		13-04-16	88.9	30.4	4.2	9.1
4		16-04-16	91.6	32.0	4.4	9.9
5		20-04-16	89.8	30.7	4.4	9.2
6		23-04-16	107.5	36.7	5.3	11.4
7		27-04-16	136.8	46.6	6.7	14.8
8		30-04-16	124.1	42.6	6.0	12.8
1	MAY'16	04-05-16	100.2	34.4	4.7	10.7
2		07-05-16	129.8	39.1	5.5	11.7
3		11-05-16	88.9	30.5	4.4	9.5
4		14-05-16	91.9	31.2	4.6	10.0
5		18-05-16	87.7	31.0	4.3	9.6
6		21-05-16	110.8	38.6	5.5	12.3
7		25-05-16	140.8	48.3	6.7	14.1
8		28-05-16	127.5	43.6	6.4	13.7

	Min		87.7	30.4	4.2	9.1
	Max		140.8	48.3	6.7	14.8
	Mean		108.1	37.0	5.2	11.4
	10th percentile		88.9	30.8	4.4	9.3
	30th percentile		91.9	31.9	4.6	9.9
	50th percentile		102.9	35.3	5.0	11.0
	95th percentile		136.4	46.6	6.7	14.4
	98th percentile		139.0	47.5	6.7	14.6

AMBIENT AIR QUALITY

Station: A4, PADSALI VILLAGE						
S.No.	Month	Date	SPM	PM 10	SO ₂ (µg/m ³)	NO _x (µg/m ³)
			µg/m ³	µg/m ³	24 hrs Average	24 hrs Average
1	MARCH'16	01-03-16	102.1	32.5	4.5	9.8
2		04-03-16	119.3	37.8	5.2	11.7
3		09-03-16	95.6	31.8	4.5	9.5
4		12-03-16	92.2	32.0	4.6	10.0
5		16-03-16	94.4	30.2	4.4	9.7
6		19-03-16	109.5	34.2	4.8	10.3
7		23-03-16	127.7	40.2	5.5	12.5
8		26-03-16	131.0	40.9	5.8	12.2
1	APRIL'16	04-04-16	103.0	32.3	4.7	10.1
2		06-04-16	125.4	39.2	5.7	12.6
3		13-04-16	100.2	31.8	4.5	9.6
4		16-04-16	87.4	30.2	4.2	9.4
5		20-04-16	101.2	31.7	4.5	9.5
6		23-04-16	113.6	35.4	5.1	11.0
7		27-04-16	127.8	40.4	5.8	12.8
8		30-04-16	125.8	39.3	5.5	11.8
1	MAY'16	04-05-16	100.9	31.9	4.4	9.9
2		07-05-16	112.3	37.8	5.4	11.3
3		11-05-16	103.6	32.1	4.7	10.0
4		14-05-16	84.6	31.8	4.6	10.2
5		18-05-16	98.6	30.7	4.2	9.5
6		21-05-16	117.2	37.3	5.3	11.9
7		25-05-16	127.9	40.1	5.6	11.7
8		28-05-16	129.8	41.0	6.0	12.9

	Min		84.6	30.2	4.2	9.4
	Max		131.0	41.0	6.0	12.9
	Mean		109.6	35.1	5.0	10.8
	10th percentile		92.9	31.0	4.4	9.5
	30th percentile		100.8	31.9	4.5	9.9
	50th percentile		106.6	33.4	4.7	10.3
	95th percentile		129.5	40.8	5.8	12.8
	98th percentile		130.4	40.9	5.9	12.8

AMBIENT AIR QUALITY

Station: A 5, DURGAMANWADI VILLAGE						
S.No.	Month	Date	SPM	PM 10	SO ₂ (µg/m ³)	NO _x (µg/m ³)
			µg/m ³	µg/m ³	24 hrs Average	24 hrs Average
1	MARCH'16	01-03-16	90.8	31.2	4.3	9.3
2		04-03-16	132.4	43.3	6.1	13.6
3		09-03-16	91.3	30.5	4.3	9.6
4		12-03-16	97.5	31.8	4.6	10.6
5		16-03-16	104.2	33.8	4.9	12.0
6		19-03-16	115.7	37.0	5.3	11.3
7		23-03-16	139.6	45.1	6.2	12.8
8		26-03-16	127.1	41.5	5.8	11.8
1	APRIL'16	04-04-16	98.0	32.3	4.5	10.4
2		06-04-16	139.1	44.7	6.3	13.6
3		13-04-16	95.3	31.0	4.5	9.7
4		16-04-16	102.6	33.5	4.8	10.9
5		20-04-16	111.4	36.5	5.2	10.6
6		23-04-16	120.3	38.8	5.4	12.3
7		27-04-16	143.6	46.8	6.5	13.3
8		30-04-16	121.6	39.4	5.5	11.9
1	MAY'16	04-05-16	95.0	30.4	4.3	9.7
2		07-05-16	132.9	43.5	6.3	12.9
3		11-05-16	98.7	31.9	4.5	10.3
4		14-05-16	106.3	34.5	4.9	12.0
5		18-05-16	109.1	34.9	4.8	10.8
6		21-05-16	124.1	40.3	5.6	11.5
7		25-05-16	136.0	47.1	6.6	13.8
8		28-05-16	124.9	40.3	5.7	14.0

	Min		90.8	30.4	4.3	9.3
	Max		143.6	47.1	6.6	14.0
	Mean		114.9	37.5	5.3	11.6
	10th percentile		95.1	31.1	4.4	9.7
	30th percentile		102.2	33.4	4.8	10.6
	50th percentile		113.5	36.8	5.2	11.6
	95th percentile		139.5	46.5	6.5	13.8
	98th percentile		141.8	47.0	6.5	13.9

AMBIENT AIR QUALITY

Station: A6, KARIWADE VILLAGE						
S.No.	Month	Date	SPM	PM 10	SO ₂ (µg/m ³)	NO _x (µg/m ³)
			µg/m ³	µg/m ³	24 hrs Average	24 hrs Average
1	MARCH'16	01-03-16	94.5	30.1	4.4	10.0
2		04-03-16	124.1	39.1	5.7	11.4
3		09-03-16	97.2	31.0	4.5	9.2
4		12-03-16	90.9	33.2	4.8	10.3
5		16-03-16	92.5	31.1	4.4	10.0
6		19-03-16	103.3	32.1	4.6	10.3
7		23-03-16	128.4	40.5	5.7	11.0
8		26-03-16	130.2	41.3	5.7	11.5
1	APRIL'16	04-04-16	101.7	32.3	4.5	9.1
2		06-04-16	130.6	40.9	5.8	12.5
3		13-04-16	101.8	32.1	4.7	10.6
4		16-04-16	96.3	30.1	4.4	9.9
5		20-04-16	99.7	31.7	4.6	9.6
6		23-04-16	107.7	33.4	4.8	9.6
7		27-04-16	131.5	41.0	5.9	12.0
8		30-04-16	124.9	38.9	5.5	11.9
1	MAY'16	04-05-16	98.8	31.5	4.2	9.5
2		07-05-16	124.2	39.3	5.5	12.3
3		11-05-16	105.6	32.7	4.5	9.4
4		14-05-16	99.7	31.6	4.5	9.7
5		18-05-16	103.5	33.0	4.6	9.9
6		21-05-16	111.6	35.5	4.9	10.6
7		25-05-16	134.8	42.0	5.8	13.0
8		28-05-16	128.3	40.3	5.7	11.7

	Min		90.9	30.1	4.2	9.1
	Max		134.8	42.0	5.9	13.0
	Mean		110.9	35.2	5.0	10.6
	10th percentile		95.0	31.0	4.4	9.4
	30th percentile		99.7	32.0	4.5	9.9
	50th percentile		104.6	33.1	4.7	10.3
	95th percentile		131.4	41.3	5.8	12.5
	98th percentile		133.3	41.7	5.8	12.8

AMBIENT AIR QUALITY

Station: A7, MANBET VILLAGE						
S.No.	Month	Date	SPM	PM 10	SO ₂ (µg/m ³)	NO _x (µg/m ³)
			µg/m ³	µg/m ³	24 hrs Average	24 hrs Average
1	MARCH'16	01-03-16	92.7	33.1	4.8	10.1
2		04-03-16	136.2	39.7	5.8	12.7
3		09-03-16	94.1	30.6	4.3	9.2
4		12-03-16	93.8	31.7	4.6	10.3
5		16-03-16	97.7	31.4	4.4	9.4
6		19-03-16	110.6	32.4	4.7	10.6
7		23-03-16	131.2	38.4	5.4	11.4
8		26-03-16	144.0	42.1	5.9	13.0
1	APRIL'16	04-04-16	100.6	31.6	4.6	9.8
2		06-04-16	143.0	42.0	5.9	13.2
3		13-04-16	98.9	33.2	4.8	10.3
4		16-04-16	99.8	31.7	4.4	9.9
5		20-04-16	104.7	31.1	4.5	9.5
6		23-04-16	115.4	34.3	4.8	10.6
7		27-04-16	134.5	39.5	5.6	12.0
8		30-04-16	150.5	43.7	6.3	13.6
1	MAY'16	04-05-16	98.0	31.5	4.4	9.5
2		07-05-16	136.6	40.4	5.8	13.1
3		11-05-16	102.8	30.5	4.2	9.5
4		14-05-16	103.7	30.3	4.4	9.7
5		18-05-16	105.4	31.0	4.3	9.2
6		21-05-16	119.4	35.6	5.2	11.6
7		25-05-16	137.6	40.0	5.6	12.0
8		28-05-16	154.3	44.8	6.5	13.9

	Min		92.7	30.3	4.2	9.2
	Max		154.3	44.8	6.5	13.9
	Mean		116.9	35.4	5.0	11.0
	10th percentile		95.2	30.7	4.3	9.4
	30th percentile		100.5	31.6	4.5	9.8
	50th percentile		108.0	33.2	4.8	10.5
	95th percentile		149.6	43.5	6.3	13.6
	98th percentile		152.6	44.3	6.4	13.8

AMBIENT AIR QUALITY

Station: A 8, CHAVANWADI VILLAGE						
S.No.	Month	Date	SPM	PM 10	SO ₂ (µg/m ³)	NO _x (µg/m ³)
			µg/m ³	µg/m ³	24 hrs Average	24 hrs Average
1	MARCH'16	01-03-16	96.0	31.0	4.5	9.5
2		04-03-16	130.1	38.6	5.6	12.3
3		09-03-16	90.8	30.1	4.2	9.1
4		12-03-16	94.2	31.7	4.6	10.3
5		16-03-16	101.0	30.5	4.2	9.1
6		19-03-16	105.7	31.4	4.6	10.3
7		23-03-16	129.1	38.3	5.4	11.3
8		26-03-16	132.3	39.0	5.5	12.1
1	APRIL'16	04-04-16	103.0	30.1	4.4	9.4
2		06-04-16	136.6	40.1	5.6	12.6
3		13-04-16	95.3	33.5	4.8	10.4
4		16-04-16	99.4	32.9	4.6	10.3
5		20-04-16	108.5	31.8	4.6	9.8
6		23-04-16	109.9	32.4	4.6	10.0
7		27-04-16	132.2	38.7	5.4	11.7
8		30-04-16	126.4	36.7	5.3	11.4
1	MAY'16	04-05-16	100.1	31.9	4.5	9.6
2		07-05-16	129.7	38.5	5.5	13.6
3		11-05-16	98.4	33.2	4.6	10.4
4		14-05-16	102.9	30.5	4.5	9.8
5		18-05-16	111.8	33.2	4.6	9.9
6		21-05-16	113.0	33.7	4.9	11.0
7		25-05-16	135.3	40.0	5.6	13.7
8		28-05-16	129.8	37.7	5.4	11.7

	Min		90.8	30.1	4.2	9.1
	Max		136.6	40.1	5.6	13.7
	Mean		113.0	34.4	4.9	10.8
	10th percentile		95.5	30.5	4.4	9.4
	30th percentile		100.9	31.8	4.6	9.9
	50th percentile		109.2	33.2	4.6	10.3
	95th percentile		134.8	39.9	5.6	13.4
	98th percentile		136.0	40.1	5.6	13.6

BDL for SO_x-2.0 & NO_x-4.5

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

Method of measurement: As per CPCB Manual & IS 5182

TALGAON VILLAGE

Location Name	:	Talgaon village			
Date	:	05.05.2016	Sample Type	:	Ground water

Sl. No.	Parameter	Unit	Result
1	Odour		Un-objectionable
2	Taste		Agreeable
3	Colour	Hazen Units	<5
4	pH		6.73
5	Turbidity	NTU	<5
6	Dissolved Oxygen	mg/l	5.1
7	Total Dissolved Solids	mg/l	91.7
8	Total Suspended Solids	mg/l	2.0
9	Alkalinity as CaCO ₃	mg/l	30.5
10	Total Hardness as CaCO ₃	mg/l	47.0
11	Nitrates NO ₃	mg/l	0.31
12	Phosphates PO ₄	mg/l	0.03
13	Chlorides as Cl	mg/l	26.2
14	Sulphates as SO ₄ ²⁻	mg/l	2.7
15	Sodium as Na.	mg/l	8.3
16	Potassium as K	mg/l	4.2
17	Calcium as Ca	mg/l	11.9
18	Magnesium as Mg	mg/l	4.2
19	Lead (Pb)	mg/l	BDL
20	Manganese as Mn	mg/l	0.05
21	Cadmium (Cd)	mg/l	BDL
22	Chromium (Cr)	mg/l	BDL
23	Copper (Cu)	mg/l	BDL
24	Zinc (Zn)	mg/l	BDL
25	Iron as Fe	mg/l	0.17
26	Fluoride as F	mg/l	0.01
27	Mercury as (Hg)	mg/l	BDL
28	Selenium as Se	mg/l	BDL
29	Arsenic as As	mg/l	BDL
30	Cyanide as CN	mg/l	BDL
31	Boron as B	mg/l	BDL
32	B.O.D (3 days 27°C)	mg/l	<3

BDL: Below Detectable Limit

mg/l: - Milligram per liter

DURGAMANWADI VILLAGE

Location Name	:	Durgamanwadi village			
Date	:	05.05.2016	Sample Type	:	Ground water

Sl. No.	Parameter	Unit	Result
1	Odour		Un-objectionable
2	Taste		Agreeable
3	Colour	Hazen Units	<5
4	pH		6.72
5	Turbidity	NTU	<5
6	Dissolved Oxygen	mg/l	5.20
7	Total Dissolved Solids	mg/l	84.8
8	Total Suspended Solids	mg/l	4.0
9	Alkalinity as CaCO ₃	mg/l	29.5
10	Total Hardness as CaCO ₃	mg/l	53.6
11	Nitrates NO ₃	mg/l	0.22
12	Phosphates PO ₄	mg/l	0.02
13	Chlorides as Cl	mg/l	24.2
14	Sulphates as SO ₄ ²⁻	mg/l	1.2
15	Sodium as Na.	mg/l	4.2
16	Potassium as K	mg/l	1.8
17	Calcium as Ca	mg/l	11.9
18	Magnesium as Mg	mg/l	5.9
19	Lead (Pb)	mg/l	BDL
20	Manganese as Mn	mg/l	0.02
21	Cadmium (Cd)	mg/l	BDL
22	Chromium (Cr)	mg/l	BDL
23	Copper (Cu)	mg/l	BDL
24	Zinc (Zn)	mg/l	BDL
25	Iron as Fe	mg/l	0.18
26	Fluoride as F	mg/l	0.01
27	Mercury as (Hg)	mg/l	BDL
28	Selenium as Se	mg/l	BDL
29	Arsenic as As	mg/l	BDL
30	Cyanide as CN	mg/l	BDL
31	Boron as B	mg/l	BDL
32	B.O.D (3 days 27°C)	mg/l	<3

BDL: Below Detectable Limit

mg/l: - Milligram per liter

CHAVANWADI VILLAGE

Location Name		:	Chavanwadi village				
Date		:	05.05.2016	Sample Type		:	Ground water

Sl. No.	Parameter	Unit	Result
1	Odour		Un-objectionable
2	Taste		Agreeable
3	Colour	Hazen Units	<5
4	pH		6.60
5	Turbidity	NTU	<5
6	Dissolved Oxygen	mg/l	4.90
7	Total Dissolved Solids	mg/l	49
8	Total Suspended Solids	mg/l	3.0
9	Alkalinity as CaCO ₃	mg/l	17.0
10	Total Hardness as CaCO ₃	mg/l	23.0
11	Nitrates NO ₃	mg/l	0.19
12	Phosphates PO ₄	mg/l	0.02
13	Chlorides as Cl	mg/l	13
14	Sulphates as SO ₄ ²⁻	mg/l	2
15	Sodium as Na.	mg/l	5.4
16	Potassium as K	mg/l	2.1
17	Calcium as Ca	mg/l	5.1
18	Magnesium as Mg	mg/l	2.5
19	Lead (Pb)	mg/l	BDL
20	Manganese as Mn	mg/l	0.04
21	Cadmium (Cd)	mg/l	BDL
22	Chromium (Cr)	mg/l	BDL
23	Copper (Cu)	mg/l	BDL
24	Zinc (Zn)	mg/l	BDL
25	Iron as Fe	mg/l	0.21
26	Fluoride as F	mg/l	0.01
27	Mercury as (Hg)	mg/l	BDL
28	Selenium as Se	mg/l	BDL
29	Arsenic as As	mg/l	BDL
30	Cyanide as CN	mg/l	BDL
31	Boron as B	mg/l	BDL
32	B.O.D (3 days 27°C)	mg/l	<3

BDL: Below Detectable Limit

mg/l: - Milligram per liter

PADSALI VILLAGE

Location Name	:	Padsali village	
Date	:	05.05.2016	Sample Type : Surface water

Sl. No.	Parameter	Unit	
1	Odour		Un-objectionable
2	Taste		Agreeable
3	Colour	Hazen Units	<5
4	pH		6.58
5	Turbidity	NTU	<5
6	Dissolved Oxygen	mg/l	5.30
7	Total Dissolved Solids	mg/l	38
8	Total Suspended Solids	mg/l	4.0
9	Alkalinity as CaCO ₃	mg/l	12.5
10	Total Hardness as CaCO ₃	mg/l	20.5
11	Nitrates NO ₃	mg/l	0.18
12	Phosphates PO ₄	mg/l	0.02
13	Chlorides as Cl	mg/l	9.2
14	Sulphates as SO ₄ ²⁻	mg/l	3.3
15	Sodium as Na.	mg/l	3
16	Potassium as K	mg/l	1.6
17	Calcium as Ca	mg/l	4.1
18	Magnesium as Mg	mg/l	2.5
19	Lead (Pb)	mg/l	BDL
20	Manganese as Mn	mg/l	0.02
21	Cadmium (Cd)	mg/l	BDL
22	Chromium (Cr)	mg/l	BDL
23	Copper (Cu)	mg/l	BDL
24	Zinc (Zn)	mg/l	BDL
25	Iron as Fe	mg/l	0.19
26	Fluoride as F	mg/l	0.01
27	Mercury as (Hg)	mg/l	BDL
28	Selenium as Se	mg/l	BDL
29	Arsenic as As	mg/l	BDL
30	Cyanide as CN	mg/l	BDL
31	Boron as B	mg/l	BDL
32	B.O.D (3 days 27°C)	mg/l	<3

BDL: Below Detectable Limit

mg/l: - Milligram per liter

TULSI STREAM

Location Name	:	Tulsi stream			
Date	:	05.05.2016	Sample Type	:	Surface Water

Sl. No.	Parameter	Unit	Result
1	Odour		Un-objectionable
2	Taste		Agreeable
3	Colour	Hazen Units	<5
4	pH		6.52
5	Turbidity	NTU	<5
6	Dissolved Oxygen	mg/l	7.20
7	Total Dissolved Solids	mg/l	107.4
8	Total Suspended Solids	mg/l	15.0
9	Alkalinity as CaCO ₃	mg/l	37.8
10	Total Hardness as CaCO ₃	mg/l	57.0
11	Nitrates NO ₃	mg/l	0.74
12	Phosphates PO ₄	mg/l	0.03
13	Chlorides as Cl	mg/l	29.8
14	Sulphates as SO ₄ ²⁻	mg/l	2.2
15	Sodium as Na.	mg/l	9.5
16	Potassium as K	mg/l	3.6
17	Calcium as Ca	mg/l	13.1
18	Magnesium as Mg	mg/l	5.9
19	Lead (Pb)	mg/l	BDL
20	Manganese as Mn	mg/l	0.03
21	Cadmium (Cd)	mg/l	BDL
22	Chromium (Cr)	mg/l	BDL
23	Copper (Cu)	mg/l	BDL
24	Zinc (Zn)	mg/l	BDL
25	Iron as Fe	mg/l	0.16
26	Fluoride as F	mg/l	0.01
27	Mercury as (Hg)	mg/l	BDL
28	Selenium as Se	mg/l	BDL
29	Arsenic as As	mg/l	BDL
30	Cyanide as CN	mg/l	BDL
31	Boron as B	mg/l	BDL
32	B.O.D (3 days 27°C)	mg/l	<3

BDL: Below Detectable Limit

mg/l: - Milligram per liter

MINE ACCUMULATED WATER

Location Name	:	Mine Accumulated Water			
Date	:	05.05.2016	Sample Type	:	Surface Water

Sl. No.	Parameter	Unit	Result
1	Odour		Un-objectionable
2	Taste		Agreeable
3	Colour	Hazen Units	<5
4	pH		6.50
5	Turbidity	NTU	<5
6	Dissolved Oxygen	mg/l	6.90
7	Total Dissolved Solids	mg/l	40
8	Total Suspended Solids	mg/l	15.0
9	Alkalinity as CaCO ₃	mg/l	15
10	Total Hardness as CaCO ₃	mg/l	22.0
11	Nitrates NO ₃	mg/l	0.14
12	Phosphates PO ₄	mg/l	0.01
13	Chlorides as Cl	mg/l	10
14	Sulphates as SO ₄ ²⁻	mg/l	1.9
15	Sodium as Na.	mg/l	2.9
16	Potassium as K	mg/l	2
17	Calcium as Ca	mg/l	6.5
18	Magnesium as Mg	mg/l	1.4
19	Lead (Pb)	mg/l	BDL
20	Manganese as Mn	mg/l	0.01
21	Cadmium (Cd)	mg/l	BDL
22	Chromium (Cr)	mg/l	BDL
23	Copper (Cu)	mg/l	BDL
24	Zinc (Zn)	mg/l	BDL
25	Iron as Fe	mg/l	0.22
26	Fluoride as F	mg/l	0.01
27	Mercury as (Hg)	mg/l	BDL
28	Selenium as Se	mg/l	BDL
29	Arsenic as As	mg/l	BDL
30	Cyanide as CN	mg/l	BDL
31	Boron as B	mg/l	BDL
32	B.O.D (3 days 27°C)	mg/l	<3

DOMESTIC EFFLUENT ANALYSISSample Type: **Canteen waste water**

Date of sampling: 05.05.2016

Sl.No	Test	Result
1	Total Suspended Solids, mg/l	84
2	Total Dissolved Solids, mg/l	129
3	COD, mg/l	65
4	BOD for 3 days at 27°C, mg/l	29
5	Total Solids	116
6	Oil and Grease, mg/l	6.9

Sample Type: **Canteen waste water**

Date of sampling: 06.05.2016

Sl.No	Test	Result
1	Total Suspended Solids, mg/l	93
2	Total Dissolved Solids, mg/l	136
3	COD, mg/l	68
4	BOD for 3 days at 27°C, mg/l	24
5	Total Solids	129
6	Oil and Grease, mg/l	6.1

Soil sampling locations

Sl. No	Code	Name of Sampling Station
1	S-1	Non-mineralised afforested area
2	S-2	Overburden dump
3	S-3	Rice Plot (Near Durgmanwad)
4	S-4	Jawar Plot (Near Padsali)
5	S-5	Forest soil (Near Chavanwadi)

Sl. No.	Parameter	Unit	S1	S2	S3	S4	S5
1	pH (1:2 Soil Water Extract)	-	5.79	6.13	6.04	5.96	6.22
2	Electrical Conductivity	µS/cm	92	127	129	105	86
3	Total Soluble Salts	mg/kg	107	121	139	118	100
4	Nitrate as N	mg/kg	19	11	13	22	8
5	Phosphorous as P ₂ O ₅	mg/kg	27	22	49	45	31
6	Potash as K ₂ O	mg/kg	52	14	63	70	69
7	Sodium as Na ₂ O	mg/kg	84	63	79	113	135
8	Calcium as Ca	mg/kg	581	408	522	722	634
9	Magnesium as Mg	mg/kg	117	122	145	113	98
10	Chloride as Cl	mg/kg	8	23	29	38	12
11	Organic carbon	%	0.28	0.21	0.56	0.43	0.53
12	Texture	-	SANDY LOAM	SANDY LOAM	SANDY CLAY	SANDY LOAM	SANDY SILT
13	Sand	%	62	59	47	52	50
14	Silt	%	18	20	23	26	28
15	Clay	%	20	21	30	22	22

CORE ZONE NOISE LEVEL MONITORING DATA

Location →	N – 1 Core zone	N – 2 Near mines office	N – 3 Mines haulage road
Time (Hrs) ↓	dB(A)		
06.00	45.2	46.1	46.2
07.00	52.1	53.8	53.3
08.00	54.0	55.5	55.5
09.00	57.0	58.7	58.4
10.00	59.6	60.7	61.1
11.00	67.5	68.6	68.7
12.00	69.0	69.6	69.6
13.00	67.3	68.0	67.9
14.00	67.3	68.0	67.9
15.00	65.3	66.8	66.2
16.00	64.2	65.5	65.1
17.00	62.7	64.0	64.0
18.00	61.7	62.3	62.1
19.00	60.7	61.1	61.3
20.00	55.3	55.7	56.8
21.00	54.4	54.1	55.3
22.00	48.5	48.2	49.2
23.00	47.5	47.4	48.3
24.00	47.4	47.1	48.0
01.00	48.2	47.7	48.2
02.00	48.7	48.4	48.9
03.00	48.8	49.3	49.4
04.00	44.1	44.5	44.2
05.00	43.6	44.3	44.0
Minimum Value: - (L_{Min})	43.6	44.3	44.0
Maximum Value: - (L_{Max})	69.0	69.6	69.6
Day Equivalent: - (L_d)	63.7	64.6	64.5
Night Equivalent: - (L_n)	47.5	47.4	47.9

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

BUFFER ZONE NOISE LEVEL MONITORING DATA

Location →	N – 4 PADSALI VILLAGE	N – 5 DURGAMA NWADI VILLAGE	N – 6 KARIWADE VILLAGE	N – 7 MANBET VILLAGE	N-8 CHAVAN WADI VILLAGE
Time (Hrs) ↓	dB(A)				
06.00	46.0	47.7	49.3	50.1	51.3
07.00	47.5	47.8	49.5	50.6	50.8
08.00	49.0	49.4	51.0	51.7	52.4
09.00	52.7	52.6	52.1	53.2	54.1
10.00	55.0	54.6	55.4	56.8	56.7
11.00	57.7	58.1	58.1	58.9	58.5
12.00	58.4	57.7	58.1	59.6	58.5
13.00	57.7	57.5	57.8	59.6	59.5
14.00	57.4	57.5	59.5	60.0	60.1
15.00	56.7	56.7	56.6	57.9	58.5
16.00	62.1	62.3	60.0	61.2	61.3
17.00	62.4	63.6	57.1	61.8	58.6
18.00	58.2	59.3	59.7	61.1	60.1
19.00	54.1	54.1	54.4	56.1	55.0
20.00	50.7	50.9	51.2	51.5	52.0
21.00	50.1	50.2	50.5	50.6	50.9
22.00	50.2	50.8	50.7	50.7	52.0
23.00	49.2	49.8	50.1	51.3	51.4
24.00	49.6	49.7	51.8	52.0	52.6
01.00	49.6	49.3	49.1	50.7	50.3
02.00	49.1	48.8	48.6	50.3	49.7
03.00	49.3	48.7	49.7	51.3	50.4
04.00	48.5	49.8	51.6	52.3	52.7
05.00	49.2	49.5	51.0	52.4	52.8
Minimum Value: - (L_{Min})	46.0	47.7	48.6	50.1	49.7
Maximum Value: - (L_{Max})	62.4	63.6	60.0	61.8	61.3
Day Equivalent: - (L_d)	57.0	57.4	56.4	58.0	57.4
Night Equivalent: - (L_n)	49.4	49.6	50.5	51.4	51.6