

Chettinad Cement Corporation Private Limited, Devarmalai Limestone Mine

Devarmalai & Melapaguthi Village, Karur District, Tamilnadu

Ambiant Air Quality Monitoring- Consolidated Report (Apr '17 to Sep '17)														
Sr. No	Location	PM ₁₀ (µg/m ³)			PM _{2.5} (µg/m ³)			SO ₂ (µg/m ³)			NOx (µg/m ³)			CO (µg/m ³)
		Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	
1	North side of the Mine	46.0	32.0	39.0	20.0	14.0	17.7	7.0	6.0	6.2	8.0	4.0	6.0	<114.5
2	Northeastern side of Mine	53.0	41.0	48.0	26.0	19.0	22.3	9.0	6.0	7.2	11.0	7.0	8.3	<114.5
3	Southeastern side of Mine	49.0	33.0	39.0	23.0	15.0	17.7	7.0	6.0	6.3	9.0	5.0	6.3	<114.5
4	Southern side of Mine	49.0	37.0	42.7	23.0	16.0	19.7	7.0	6.0	6.7	8.0	7.0	7.3	<114.5
5	Southwestern side of Mine	51.0	17.0	39.5	25.0	16.0	19.3	8.0	6.0	7.0	9.0	7.0	7.7	<114.5
6	Nothwestern sside of Mine	50.0	17.0	38.8	24.0	16.0	19.0	9.0	6.0	6.7	11.0	6.0	7.5	<114.5
Norm		100 µg/m ³			60 µg/m ³			80 µg/m ³			80 µg/m ³			2000 µg/m ³

for Chettinad Cement Corporation Private Limited



M U Subramanayan
Joint President (Works)



Chettinad Cement Corporation Private Limited, Devarmalai Limestone Mine

Devarmalai & Melapaguthi Village, Karur District, Tamilnadu

Ground Water Quality Monitoring Report (Apr'17 to Sep'17)

Sr. No	Parameter	UoM	GW 1		GW 2		GW 3		GW 4		Limit
			May '17	Aug '17	May '17	Aug '17	May '17	Aug '17	May '17	Aug '17	
1	pH	-	7.33	7.26	7.52	7.41	7.68	7.51	7.92	7.31	5.5 - 9.0
2	Temperature	Deg C	30	22	29	23	28	22	30	24	40
3	Particle size for TSS	-	100%	100%	100%	100%	100%	100%	100%	100%	Shall pass 850 micron IS Sieve
4	TSS	mg/l	1.1	0.9	1.5	0.8	1.5	0.7	1.6	1.1	100
5	TDS	mg/l	1127	627	1185	664	1156	680	1140	712	2100
6	Chloride as Cl	mg/l	129	96	145	86.2	125	92.1	132	87	1000
7	Sulphide as S	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2
8	Sulphate as SO ₄	mg/l	169	96	162	91.1	161	86.2	158	94	1000
9	Fluride as F	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2
10	Sodium	%	57	29.4	61	28.4	54	33.3	48	28	-
11	Copper	mg/l	0	0	0	0	0	0	0.02	0.01	3
12	Zinc as Zn	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1
13	Phenolic compounds as C ₆ H ₅ OH	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1
14	Oil & Grease	mg/l	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	10
15	Boron as B	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2
16	BOD 3 days 27°C	mg/l	4	1.8	4	1.6	3	1.3	3.1	1.8	30
17	COD	mg/l	11	5.9	10	3.9	17	8.8	16	9	250
18	Total Residual Chlorine	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	NIL	NIL	1
19	Arsenic as As	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.2
20	Cadmium as Cd	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2
21	Total Chrominum as Cr	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2
22	Hexavalant Chrominum	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	NIL	NIL	0.1
23	Lead as pb	mg/l	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	0.1
24	Selenium as se	mg/l	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	0.05
25	Mercury as Hg	mg/l	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	0.01
26	Pesticides	mg/l	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	---
27	Free Ammonia as NH ₃	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
28	Dissolved Phosphate as P	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
29	Total Kjeldahl Nitrogen as N	mg/l	16	9.8	21	13.7	18	11.8	19	14	100
30	Cyanide as CN	mg/l	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	0.2
31	Nickel as Ni	mg/l	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	3
GW 1 - Kaliyapatti Village					GW 4 - Muthanpatti Village						
GW 2 - Devarmalai Village											
GW 3 - Malapaguthi Village											
BDL - Below Detectable Limit											

for Chettinad Cement Corporation Private Limited


M U Subramanayan
Joint President (Works)



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Ambient Noise Level Monitoring- Consolidated Report (Apr '17 to Sep '17)

S.No	Location	Uom	Day			Night		
			L _{min}	L _{eq}	L _{max}	L _{min}	L _{eq}	L _{max}
Outside the Premises								
1	North side of the Mine	dB(A)	33.2	41.2	50.6	32.3	37.2	43.1
2	Northeastern side of Mine	dB(A)	32.9	40.5	51.4	32.1	36.5	43.7
3	Southeastern side of Mine	dB(A)	33.7	44.4	51.0	32.6	39.9	44.4
4	Southern side of Mine	dB(A)	32.5	40.1	48.5	31.4	36.2	43.3
5	Southwestern side of Mine	dB(A)	33.1	43.8	50.2	32.2	39.0	42.6
6	Nothwestern side of Mine	dB(A)	32.2	42.5	48.8	31.6	37.9	42.4
Limit (L _{eq})		dB(A)	55			45		
Within the Premises								
S. No	Location	Uom	Day			Night		
			L _{min}	L _{eq}	L _{max}	L _{min}	L _{eq}	L _{max}
1	Mine Office	dB(A)	32.7	42.3	66.4	31.5	37.4	50.0
2	Near West Pit Area	dB(A)	33.8	46.8	70.3	33.0	41.4	49.6
3	Near East Pit Area	dB(A)	33.1	43.5	67.9	31.9	39.0	51.1
Limit (L _{eq})		dB(A)	75			70		

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