

Chettinad Cement Corporation Private Limited, Devarmalai Limestone Mine

Devarmalai & Melapaguthi Village, Karur District, Tamilnadu

Ambient Air Quality Monitoring- Consolidated Report (Oct '17 to Mar '18)														
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	42.0	27.0	35.3	21.0	14.0	17.2	8.0	6.0	7.0	9.0	7.0	8.2	<114.5
2	Northeastern side of Mine	56.0	41.0	48.2	27.0	17.0	22.7	11.0	7.0	9.2	14.0	9.0	11.8	<114.5
3	Southeastern side of Mine	46.0	32.0	37.2	22.0	15.0	17.8	9.0	7.0	7.3	10.0	7.0	8.3	<114.5
4	Southern side of Mine	39.0	24.0	31.5	18.0	11.0	14.2	9.0	6.0	7.3	10.0	5.0	7.8	<114.5
5	Southwestern side of Mine	53.0	32.0	43.5	26.0	15.0	20.8	10.0	6.0	8.3	12.0	6.0	10.0	<114.5
6	Nothwestern sside of Mine	44.0	32.0	39.7	21.0	15.0	18.2	9.0	7.0	7.7	10.0	7.0	8.7	<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 (Oct'17 to Mar'18)

Sr. No	Parameter	UoM	GW 1		GW 2		GW 3		GW 4		Limit
			Nov'17	Feb'18	Nov'17	Feb'18	Nov'17	Feb'18	Nov'17	Feb'18	
1	pH	-	7.2	7.1	7.4	7.3	7.5	7.4	7.8	7.2	5.5 - 9.0
2	Temperature	Deg C	26	31	25	32	24	31	26	34	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	1.26	1.47	1.12	1.47	0.98	1.568	1.54	100
5	TDS	mg/l	789	878	830	930	809	952	798	997	2100
6	Chloride as Cl	mg/l	90	134	102	121	88	129	92	122	1000
7	Sulphide as S	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2
8	Sulphate as SO4	mg/l	101	144	97	137	97	129	95	141	1000
9	Fluride as F	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2
10	Sodium	%	40	41	43	40	38	47	34	39	-
11	Copper	mg/l	0	0	0	0	0	0	0	0	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	2.4	3.1	2.4	2.7	1.8	2.2	1.9	3.1	30
17	COD	mg/l	5.5	9.4	5	6.2	8.5	14.1	8	14.4	250
18	Total Residual Chlorine	mg/l	NIL	NIL	NIL	NIL	NIL	NIL	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	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	2
22	Hexavalant Chrominum	mg/l	NIL	NIL	NIL	NIL	NIL	NIL	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	11.2	13.7	14.7	19.2	12.6	16.5	13.3	19.6	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. Subramaniam
M U Subramanayan
Joint President (Works)



Chettinad Cement Corporation Private Limited, Devarmalai Limestone Mine
Devarmalai & Melapaguthi Village, Karur District, Tamilnadu

Ambient Noise Level Monitoring- Consolidated Report (Oct '17 to Mar '18)

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)	33.0	43.2	52.8	31.9	38.4	43.3
2	Northeastern side of Mine	dB(A)	33.9	45.7	51.9	32.8	41.7	43.1
3	Southeastern side of Mine	dB(A)	33.2	43.3	52.8	32.2	41.0	44.1
4	Southern side of Mine	dB(A)	32.6	41.9	50.8	31.4	37.8	43.2
5	Southwestern side of Mine	dB(A)	33.0	44.4	128.4	31.9	40.8	42.7
6	Nothwestern side of Mine	dB(A)	32.7	42.9	53.3	31.6	38.0	43.2
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)	33.0	42.4	60.6	32.3	37.8	41.7
2	Near West Pit Area	dB(A)	34.4	46.7	62.2	33.0	42.2	41.8
3	Near East Pit Area	dB(A)	33.5	44.3	60.2	32.5	40.3	42.2
Limit (L _{eq})		dB(A)	75			70		

for Chettinad Cement Corporation Private Limited



M U Subramanayan
Joint President (Works)

