

**Chettinad Cement Corporation Private Limited, Dholipatti Limestone Mine
Dholipatti, Karikkali & Palayam Villages, Vedasandur Taulk, Dindigul District, Taminadu**

Sr. No	Locationm & Dircetion	PM ₁₀ (µg/m ³)			PM _{2.5} (µg/m ³)			SO ₂ (µg/m ³)			NOx (µg/m ³)		
		Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	Mettukallathur Village North	34	19	27	15	9	13	7.0	6.0	6.3	8.0	5.0	6.5
2	Dholipatti Village Northeast	46	34	40	21	15	18	11.0	8.0	9.0	13.0	9.0	10.8
3	Mochanakanur Village East	27	15	22	12	7	10	7.0	6.0	6.2	7.0	4.0	5.7
4	Security Railway gate Southeast	50	40	46	24	18	22	10.0	9.0	9.5	14.0	12.0	12.3
5	Komittipati vilalge South	33	21	27	16	9	13	7.0	6.0	6.5	9.0	5.0	6.8
6	Perapanoundapanti Village Southwest	38	26	33	18	13	16	9.0	6.0	7.2	10.0	6.0	8.0
7	Kanakupillaiyar Village West	38	20	28	18	9	13	8.0	6.0	7.0	10.0	7.0	7.8
8	Kolichivadi Village Northwest	23	12	19	12	7	10	8.0	6.0	6.3	7.0	4.0	5.5
Norm		100 µg/m ³			60 µg/m ³			80 µg/m ³			80 µg/m ³		

for Chettinad Cement Corporation Private Limited



M. Subramanayan
M U Subramanayan
Joint President (Works)

Chettinad Cement Corporation Private Limited, Dholipatti Limestone Mine

Dholipatti, Karikkali & Palayam Villages, Vedasandur Taulk, Dindigul District, Tamilnadu

Ground Water Quality Monitoring Report (Oct '17 to Mar '18)

S. No	Characteristics	UoM	GW 1		GW 2		GW 3		GW 4		GW 5		Limit
			Nov '17	Feb'18	Nov '17	Feb'18	Nov '17	Feb'18	Nov '17	Feb'18	Nov '17	Feb'18	
1	pH	-	7.11	7.42	7.20	8.20	7.44	7.48	7.20	7.48	7.78	8.02	5.5 - 9.0
2	Temperature	Deg C	26	31	26	30	25	30	25	30	26	31	40
3	Particle size for TSS	-	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	Shall pass 850µ 15 sieve
4	TSS	mg/l	1.7	1.2	2.0	2.3	1.7	1.6	2.0	2.3	1.7	1.8	100
5	TDS	mg/l	710	818	699	857	644	800	600	863	632	889	2100
6	Chloride as Cl	mg/l	51	56	44	53	50	53	46	48	52	68	1000
7	Sulphide as S	mg/l	0.20	0.25	0.20	0.25	0.18	0.25	0.20	0.32	0.18	0.25	2
8	Sulphate as SO4	mg/l	90	101	74	83	83	79	80	77	85	94	1000
9	Fluride as F	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.0
10	Sodium	%	25	29	22	24	22	22	26	24	22	22	-
11	Copper	mg/l	0.01	0.02	0.01	0.02	0.01	0.02	0.01	0.02	0.01	0.02	3
12	Zinc as Zn	mg/l	BDL	BDL	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	BDL	BDL	1
14	Oil & Grease	mg/l	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	10
15	Boron as B	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2
16	BOD 3 days 27°C	mg/l	1.7	2.0	1.6	1.5	1.3	1.5	1.4	2.4	1.4	1.7	30
17	COD	mg/l	5.9	7.3	5.8	5.4	4.1	5.3	5.1	5.4	5.0	5.4	250
18	Total Residual Chlorine	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1
19	Arsenic as As	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.2
20	Cadmium as Cd	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2
21	Total Chromium as Cr	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2
22	Hexavalant Chromium Cr+6	mg/l	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	0.1
23	Lead as pb	mg/l	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	0.1
24	Selenium as se	mg/l	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	0.05
25	Mercury as Hg	mg/l	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	0.01
26	Pesticides	mg/l	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	---
27	Free Ammonia as NH ₃	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
28	Dissolved Phosphate as P	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
29	Total Kieldahl Nitrogen as N	mg/l	9	13	6	11	8	15	8	15	7	14	100
30	Cyanide as CN	mg/l	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	0.2
31	Nickel as Ni	mg/l	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	3
GW 1 : Karikkali Village					GW 4 : Palayam Village								
GW 2 : Tirumakkarpati Village					GW 5 : Kattareddiyur Village								
GW 3 : Vasavanayakkanpatti Village													

BDL : Below Detectable Level

for Chettinad Cement Corporation Private Limited



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Joint President (Works)



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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	Mettukallathur Village	dB(A)	32.0	38.2	49.5	30.9	35.2	42.4
2	Dholipatti Villages	dB(A)	32.6	44.1	51.8	32.1	41.2	43.4
3	Mochanakanur Village	dB(A)	32.0	36.3	52.1	30.8	34.5	43.0
4	Security Railway Gate	dB(A)	33.7	46.3	52.0	32.8	42.6	43.3
5	Komittipati Vilalge	dB(A)	31.8	36.9	51.0	30.5	34.4	43.2
6	Perapankoundapanti Village	dB(A)	32.6	41.1	51.8	32.1	36.8	43.0
7	Kanakupillaiyar Village	dB(A)	33.4	44.5	52.6	32.4	40.2	43.3
8	Kolichivadi Village	dB(A)	31.8	36.2	53.1	30.4	33.6	42.8
Permissible 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	Security Gate	dB(A)	33.1	45.7	63.3	32.6	42.3	49.0
2	Mines Office	dB(A)	32.3	42.0	51.9	31.0	37.7	44.3
3	Canteen Area	dB(A)	32.3	40.4	64.9	30.0	35.5	43.2
4	Weigh Bridge Area	dB(A)	33.8	47.3	65.6	32.9	44.0	53.3
5	Water Tank area	dB(A)	31.7	38.1	65.5	30.1	34.3	51.2
6	Garage Work Shop	dB(A)	33.2	43.5	67.6	32.3	39.2	54.1
7	Crusher Area	dB(A)	34.4	50.0	72.0	33.1	45.5	66.3
8	Palayam Pit View Point	dB(A)	32.3	38.7	54.4	30.6	35.8	43.4
Permissible Limit (L_{eq})		dB(A)	75			70		

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