


**Chettinad Cement Corporation Private Limited, Seethai Nagar Limestone Mine**  
Alampadi, Malalpuram & Karikkali Villages, Dindigul District, Tamilnadu

Ambient Air Quality Monitoring - Consolidated Report (Oct '17 - Mar '18)															
S. No	Location & Direction	PM <sub>10</sub> (µg/m <sup>3</sup> )			PM <sub>2.5</sub> (µg/m <sup>3</sup> )			SO <sub>2</sub> (µg/m <sup>3</sup> )			NOx (µg/m <sup>3</sup> )				
		Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg		
1	RMRC School-North	36	20	27	16	11	13	7.0	6.0	6.5	9.0	7.0	7.5		
2	Colony Sewage Treatment Plant - Northeast	44	26	37	21	14	18	9.0	7.0	8.3	12.0	9.0	10.2		
3	Nataparai Mines Pit-East	50	25	35	24	12	17	9.0	6.0	7.2	11.0	7.0	8.5		
4	Perumal Koil-Southeast	24	14	19	12	7	10	6.0	6.0	6.0	7.0	4.0	5.8		
5	Mallapuram Mine Pit-South	33	16	26	16	9	13	7.0	6.0	6.3	8.0	4.0	6.2		
6	Watch Tower at South of Alampadi Pit -Southwest	35	23	30	18	12	15	7.0	6.0	6.7	9.0	5.0	7.3		
7	Watch Tower at West of Alampadi Pit -West	46	19	35	21	11	17	8.0	6.0	7.0	10.0	5.0	7.8		
8	Ammonium Nitrite Shed-Northwest	21	11	16	11	6	9	6.0	6.0	6.0	6.0	4.0	4.8		
Norm		100 µg/m <sup>3</sup>			60 µg/m <sup>3</sup>			80 µg/m <sup>3</sup>			80 µg/m <sup>3</sup>				

for Chettinad Cement Corporation Private Limited

  
M U Subramanayan  
Joint President (Works)



**Chettinad Cement Corporation Private Limited, Seethai Nagar Limestone Mine**  
**Alampadi, Malapuram & Karikkali Villages, Dindigul District, Tamilnadu**

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

Sr. No	Parameter	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 IS 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 <sub>6</sub> H <sub>5</sub> 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 <sub>3</sub>	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

  
**M U Subramanayan**  
 Joint President (Works)



**Chettinad Cement Corporation Private Limited, Seethai Nagar Limestone Mine**  
**Alampadi, Malalpuram & Karikkali Villages, Dindigul District, Tamilnadu**

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

Sr. No	Location	UoM	Day			Night		
			L <sub>min</sub>	L <sub>eq</sub>	L <sub>max</sub>	L <sub>min</sub>	L <sub>eq</sub>	L <sub>max</sub>
<b>Outside the Premises</b>								
1	Near RMRC School	dB(A)	30.6	38.4	54.1	28.3	33.5	44.2
2	Near Colony STP	dB(A)	32.4	42.7	52.9	31.4	36.8	44.3
3	Near Nataparai Mines Pit	dB(A)	30.9	45.9	53.7	30.2	38.4	43.8
4	Near Perumal Koil	dB(A)	30.2	37.6	54.7	28.0	33.2	43.8
5	Near Mallapuram Mine Pit	dB(A)	31.8	44.3	54.5	31.3	40.1	44.1
6	Near Watch Tower at South of Alamadi Pit	dB(A)	30.7	38.2	53.8	30.3	35.1	44.8
7	Near Watch Tower at West of Alambadi Pit	dB(A)	31.7	40.3	54.2	31.0	36.8	43.7
8	Near Ammonium Nitrite Shed	dB(A)	30.3	36.1	53.9	28.1	33.2	44.2
<b>Permissible Limit (L<sub>eq</sub>)</b>		dB(A)	<b>55</b>			<b>45</b>		
<b>Within the Premises</b>								
S. No	Location	UoM	Day			Night		
			L <sub>min</sub>	L <sub>eq</sub>	L <sub>max</sub>	L <sub>min</sub>	L <sub>eq</sub>	L <sub>max</sub>
1	Mine Office	dB(A)	32.9	43.2	54.2	31.9	39.7	44.1
2	Crusher -1	dB(A)	33.8	52.5	67.9	33.2	46.5	66.9
3	Crusher - 11	dB(A)	34.2	54.2	68.9	33.2	48.4	68.5
4	MCC Room / DG Set	dB(A)	32.4	43.9	54.6	32.0	39.4	44.1
5	Near Compressor Room	dB(A)	33.2	45.6	68.2	32.6	43.2	58.2
6	Near Workshop	dB(A)	32.4	43.5	66.6	32.0	38.9	54.7
7	Near Canteen	dB(A)	31.8	39.1	53.9	30.2	34.4	44.9
8	Near Weigh bridge	dB(A)	33.0	46.5	67.2	32.7	43.9	51.5
<b>Permissible Limit (L<sub>eq</sub>)</b>		dB(A)	<b>75</b>			<b>70</b>		

for Chettinad Cement Corporation Private Limited

*M U Subramanayan*  
**M U Subramanayan**  
**Joint President (Works)**

