

Chettinad Cement Corporation Private Limited - Pudupalayam Limestone Mine I													
Pudupalayam Village , Ariyalur District, Tamilnadu													
Ambiant Air Quality Monitoring- Consolidated Report (Apr '17 - Sep '17)													
S.No	Location	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	Pudupalayam Mine -Southwest	37	26	32.8	20	13	16.0	14	8.0	10.7	11.0	8.0	9.2
2	Loading Area - Northeast	38	30	33.7	16	10	13.0	12	8.0	10.3	12.0	7.0	9.2
3	Haul road -Northwest	34	23	30.0	14	10	12.7	12	7.0	9.7	15.0	10.0	11.5
4	Dump Yard -South	36	30	33.0	13	10	11.8	14	6.0	9.2	12.0	6.0	8.5
Norm		100 µg/m ³			60 µg/m ³			80 µg/m ³			80 µg/m ³		

for Chettinad Cement Corporation Private Limited



M Sundaramoorthy
Joint President (Works)

Chettinad Cement Corporation Private Limited - Pudupalayam Limestone Mine I								
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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}
Within the Premises								
1	Pudupalayam Mine - Near Boundary	dB(A)	42.8	50.2	56.7	39.7	45.1	51.3
2	Loading Area	dB(A)	58.7	64.7	68.6	51.2	59.0	62.8
3	Haul Road	dB(A)	51.8	57.2	67.8	44.2	49.7	62.2
Limit (L _{eq})		dB(A)	75			70		
Outside the Premises								
S.No	Location	UoM	Day			Night		
			L _{min}	L _{eq}	L _{max}	L _{min}	L _{eq}	L _{max}
1	Pudupalayam Village - Near NH 227	dB(A)	42.6	44.3	47.7	38.7	40.5	41.7
2	Kattuprinkiyam Village	dB(A)	39.8	40.9	41.8	35.6	36.7	38.3
3	Reddipalayam Village - Near NH 227	dB(A)	39.8	41.6	43.3	35.2	36.4	38.7
4	Nayakkarpalayam Village	dB(A)	38.7	39.5	40.2	34.6	35.6	36.4
Limit (L _{eq})		dB(A)	55			45		

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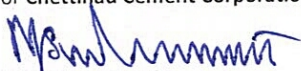


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Ground Water Quality Monitoring Report (Apr '17 to Sep '17)											
S.No	Parameter	UoM	GW 1		GW 2		GW 3		GW 4		Limit
			May '17	Aug '17	May '17	Aug '17	May '17	Aug '17	May '17	Aug '17	
1	pH	-	7.5	7.1	7.7	7.5	7.8	7.3	7.5	7.6	5.5 - 9.0
2	Temperature	Deg C	28	29	27	28	29	27	29	28	40
3	Particle size for TSS	-	100%	100%	100%	100%	100%	100%	100%	100%	Shall pass 850 micron IS Sieve
4	TSS	mg/l	1.3	1.4	1.9	1.4	1.2	1.6	1.7	1.4	100
5	TDS	mg/l	510	490	420	380	420	462	398	410	2100
6	Chloride as Cl	mg/l	118	98	105	95	96	57	61	75	1000
7	Sulphide as S	mg/l	0.2	0.1	0.4	0.2	0.1	0.4	0.1	0.2	2
8	Sulphate as SO ₄	mg/l	76	62	58	75	86	78	72	62	1000
9	Fluoride as F	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2
10	Sodium	%	53	41	46	38	27	21	32	37	-
11	Copper	mg/l	0.06	0.04	0.03	0.02	0.04	0.02	0.01	0.04	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	0.2	0.3	0.1	0.1	0.2	0.3	0.5	0.1	30
17	COD	mg/l	4	2	6	4	2	3	2	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 Chromium as Cr	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2
22	Hexavalent Chromium	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	0.1	0.4	0.1	0.4	0.2	0.3	0.1	0.4	5
28	Dissolved Phosphate as P	mg/l	0.04	0.02	0.01	0.02	0.03	0.02	0.02	0.03	5
29	Total Kjeldahl Nitrogen as N	mg/l	11.9	13.8	12.6	11.8	12.5	13.6	12.5	11.3	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 : Bore well Pudupalayam Mine					GW 4 : Borewell Orattur Village						
GW 2 : Dug well Pudupalayam Village											
GW 3 : Bore well Hastinapuram Village											

BDL : Below Detectable Level

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