

Chettinad Cement Corporation Private Limited (Puliyur Works)													
Puliyur Village ,Karur District, Tamil Nadu													
Ambiant Air Quality Monitoring- Consolidated Report (Apr '17 to 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	South Trans Office(North)	61.0	36.0	47.2	26.0	16.0	20.3	11.0	9.0	10.0	15.0	12.0	13.7
2	Limestone Stock Pile(East)	57.0	46.0	51.5	25.0	20.0	23.0	8.0	7.0	7.5	15.0	7.0	8.8
3	Occ. Health Centre (Southeast)	42.0	30.0	36.8	17.0	14.0	15.7	7.0	6.0	6.5	8.0	6.0	7.0
4	G6 Quarters (South)	38.0	26.0	32.2	17.0	12.0	14.3	7.0	6.0	6.3	8.0	6.0	6.7
5	Truck Parcking Area (Southwest)	49.0	39.0	44.7	21.0	17.0	19.2	9.0	8.0	8.8	12.0	10.0	10.7
6	Coal Yard Area (West)	68.0	52.0	60.7	34.0	25.0	30.0	13.0	12.0	12.2	17.0	15.0	16.2
Limit		100 µg/m ³			60 µg/m ³			80 µg/m ³			80 µg/m ³		

for Chettinad Cement Corporation Private Limited

[Signature]

A Amalraj

Senior Vice President (Works)



Chettinad Cement Corporation Private Limited (Puliyur Works)								
Puliyur Village , Karur District, Tamilnadu								
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	Packing House	dB(A)	45.30	47.86	51.00	41.10	43.18	44.60
2	Lime Stone Stock Pile	dB(A)	40.60	43.65	47.50	37.20	38.81	40.00
3	CPP Boundary	dB(A)	45.90	47.51	49.30	41.60	42.36	43.20
4	Workshop Boundary	dB(A)	42.00	42.80	43.70	37.80	38.76	40.10
5	WTP	dB(A)	38.70	41.01	42.80	36.70	38.03	39.10
6	Coal Yard	dB(A)	40.90	43.75	46.20	37.50	40.03	41.50
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}
Outside the Premises								
1	South Trans Office	dB(A)	42.10	43.80	46.40	38.70	39.75	41.50
2	R.M School	dB(A)	39.70	41.01	42.60	34.20	36.23	38.50
3	Occupational Health Centre	dB(A)	42.60	43.18	44.10	35.20	38.30	42.50
4	G6 Quarters	dB(A)	40.80	42.33	43.50	34.90	36.48	39.50
5	Truck Parking Area	dB(A)	42.50	44.66	46.20	39.40	40.76	42.40
6	Kalipalayam Village	dB(A)	35.70	38.71	41.50	33.90	34.68	35.40
Limit (L _{eq})		dB(A)	55			45		

for Chettinad Cement Corporation Private Limited



A. Amalraj

Senior Vice President (Works)



Chettinad Cement Corporation Private Limited (Puliyur Works)													
Puliyur Village, Karur District, Tamilnadu													
Ground Water Quality Monitoring Report(Apr '17 to Sep '17)													
S.No	Parameter	UoM	GW 1		GW 2		GW 3		GW 4		GW 5		Limit
			May '17	Aug '17	May '17	Aug '17	May '17	Aug '17	May '17	Aug '17	May '17	Aug '17	
1	pH	-	7.55	7.6	7.41	7.44	7.51	7.53	7.56	7.61	7.88	7.79	5.5 - 9.0
2	Temperature	Deg C	30	32	29	33	31	33	31	32	30	33	40
3	Particle size for TSS	-	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	Shall pass 850 micron IS Sieve
4	TSS	mg/l	1.1	1.0	1.3	1.2	1.4	1.2	1.5	1.5	1.5	1.4	100
5	TDS	mg/l	1610	1540	1160	1100	1540	1510	1820	1800	1790	1780	2100
6	Chloride as Cl	mg/l	160	150	180	170	190	180	200	190	220	220	1000
7	Sulphide as S	mg/l	0.15	0.21	0.11	0.15	0.18	0.12	0.14	0.13	0.16	0.12	2
8	Sulphate as SO ₄	mg/l	230	240	140	120	130	100	220	200	230	210	1000
9	Fluoride as F	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2
10	Sodium	%	60	50	55	45	55	40	45	40	60	50	-
11	Copper	mg/l	0.02	0.01	0.01	0.04	0.03	0.04	0.04	0.03	0.03	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	5.5	4.5	5.8	5.0	4.0	5.0	4.5	3.5	4	2.0	30
17	COD	mg/l	15	13	16	12	8	12	18	8	5	2	250
18	Total Residual Chlorine	mg/l	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	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	Hexavalent Chromium	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	0.2	0.15	0.3	0.2	0.1	0.15	0.14	0.3	0.1	0.4	5
28	Dissolved Phosphate as P	mg/l	0.15	0.05	0.2	0.1	0.05	0.01	0.12	0.06	0.03	0.01	5
29	Total Kieldahl Nitrogen as N	mg/l	17	16	17	15	18	16	16	14	11.8	13.8	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 : Puliyur Village					GW 4 : A.P.Nager								
GW 2 : Kovil Palayam Village					GW 5 : Amaravathi Nager								
GW 3 : Kalipalayam Village													

BDL - Below Detectable Limit

for Chettinad Cement Corporation Private Limited

A. Amalraj

A. Amalraj
Senior Vice President (Works)



Chettinad Cement Corporation Private Limited (Puliyur Works)							
Puliyur , Karur District,TamilNadu							
Stack Emission Monotoring- Consolidated Report (Apr '17 to Sep '17)							
S.No	Stack Connected to	Parameter	UoM	Norms	Max	Min	Avg
1	Raw Mill /Kiln	Particulate Matter	mg/Nm ³	30	25.1	22.9	24.0
2	Cooler ESP				21.7	16.4	19.6
3	Coal Mill				26.0	18.6	23.3
4	Cement Mill-1				25.6	23.4	24.5
5	Cement Mill-2				23.5	21.5	22.1
6	Captive Power Plant - Boiler			50	25.5	20.6	16.9

S.No	Stack Connected to	Parameter	UoM	Norms	Max	Min	Avg
1	Raw Mill /Kiln	SO ₂	mg/Nm ³	100	72.0	21.0	52.5
2	Captive Power Plant - Boiler			600	418.0	63.0	388.0

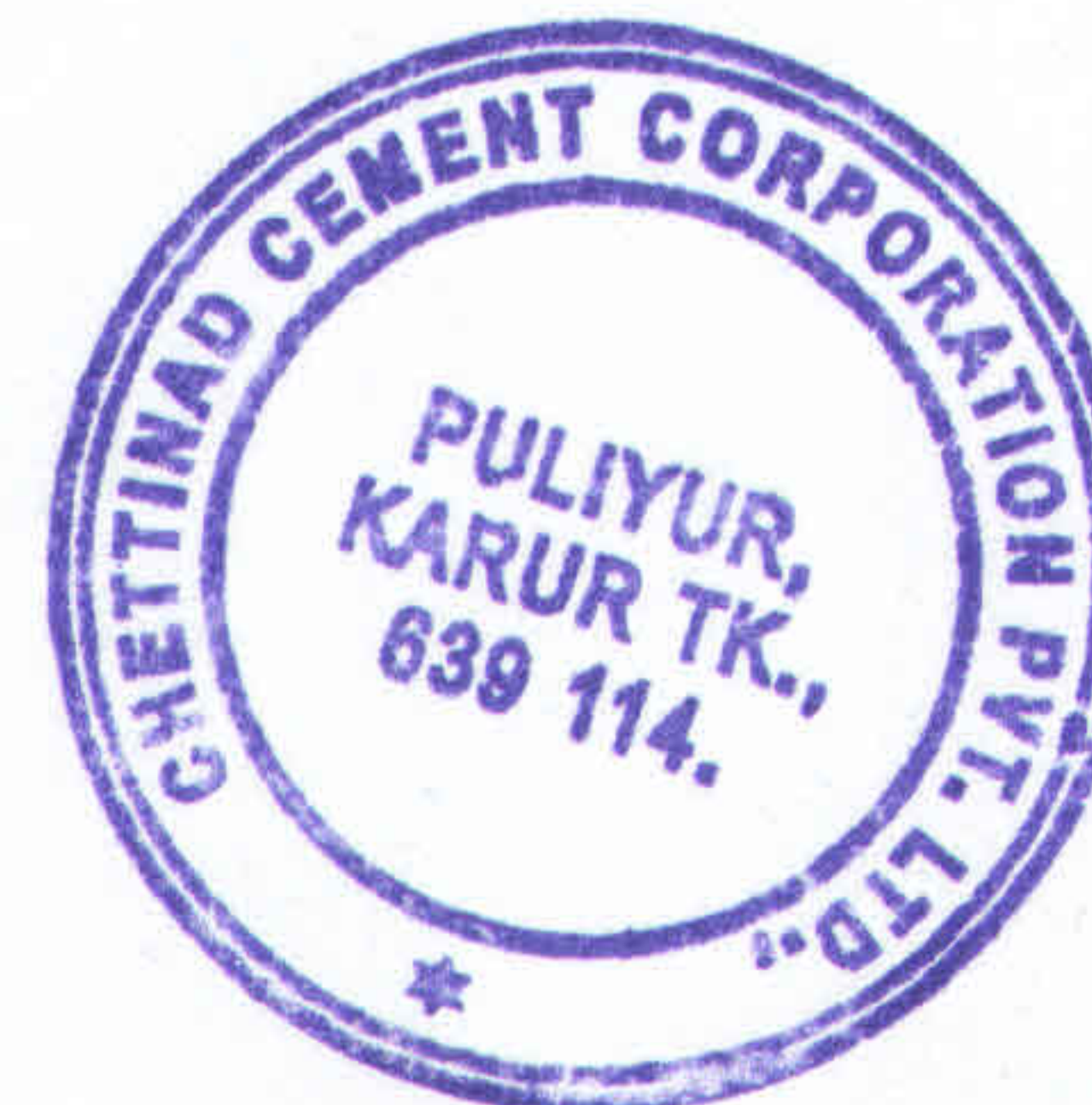
S.No	Stack Connected to	Parameter	UoM	Norms	Max	Min	Avg
1	Raw Mill/Kiln	NOx	mg/Nm ³	800	384.0	80.0	340.0
2	Captive Power Plant - Bolier			300	127.0	22.0	110.0

for Chettinad Cement Corporation Private Limited

A. Amalraj

A.Amalraj

Senior Vice President (Works)



Chettinad Cement Corporation Private Limited (Puliyur Works)						
Puliyur Village ,Karur District , Tamilnadu						
Treated Industrial & Sewage Effluent Quality Monitoring - Consolidated Report (Apr '17 to Sep '17)						
A. Treated Industrial Effluent						
S No	Paramenter	UoM	Norms	Max	Min	Avg
1	PH	-	5.5 to 9.0	7.94	7.59	7.77
2	Suspended Solids	mg/litre	100	27.00	17.00	22.00
3	Total Dissolved Solids	mg/litre	2100	988.00	812.00	900.00
4	Chlorides	mg/litre	1000	152.00	103.00	127.50
5	Sulphates	mg/litre	1000	60.00	29.00	44.50
6	BOD	mg/litre	30	15.00	9.00	12.00
7	COD	mg/litre	250	117.00	95.00	106.00
B. Treated Sewage Effluent - Factory						
S No	Paramenter	UoM	Norms	Max	Min	Avg
1	PH	-	5.5 to 9.0	7.81	7.51	7.66
2	Total Suspended Solids	mg/litre	30	21.00	14.00	17.50
3	BOD	mg/litre	20	11.00	7.00	9.00
C. Treated Sewage Effluent - Colony						
S No	Paramenter	UoM	Norms	Max	Min	Avg
1	PH	-	5.5 to 9.0	7.89	7.75	7.82
2	Total Suspended Solids	mg/litre	30	28.00	21.00	24.50
3	BOD	mg/litre	20	15.00	10.00	12.50

for Chettinad Cement Corporation Private Limited



A. Amalraj

Senior Vice President (Works)

