

Chettinad Cement Corporation Private Limited, Cement Grinding Unit													
Ahuj (A) & Aleagon Villages, Solapur District, Maharashtra													
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	Project Area (Near CCR Area)	61.0	38.0	48.0	32.0	20.0	24.5	11.0	6.0	9.2	19.0	9.0	12.8
2	Ahuj Village	56.0	43.0	48.7	31.0	21.0	25.2	10.0	7.0	8.8	15.0	7.0	11.2
3	Alegon Village	53.0	36.0	44.5	26.0	20.0	22.7	10.0	7.0	8.2	13.0	9.0	11.2
4	Tilati RS	57.0	30.0	45.5	33.0	19.0	25.5	9.0	7.0	7.7	12.0	9.0	10.7
Limit		100 µg/m ³			60 µg/m ³			80 µg/m ³			80 µg/m ³		

for Chettinad Cement Corporation Private Limited



D M Jagdale
Vice President (Works)

Chettinad Cement Corporation Private Limited, Cement Grinding Unit								
Ahuj (A) & Aleagon Villages, Solapur District , Maharashtra								
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	Project Site - east Near WTP area	dB(A)	43.0	58.2	63.0	38.0	49.6	54.0
2	Project Site - West Near Tippler & Cement mill area	dB(A)	39.0	58.4	66.0	39.0	46.2	51.0
3	Project Site - North Near Packing area	dB(A)	41.0	56.7	62.0	40.0	44.7	50.0
4	Project Site - South Main Entrance Gate	dB(A)	49.0	58.8	64.0	41.0	50.7	54.5
Permissible Limit (L _{eq})		dB(A)	75			70		

S.No	Location	UoM	Day			Night		
			L _{min}	L _{eq}	L _{max}	L _{min}	L _{eq}	L _{max}
Outside the premises								
1	Ahuj Village	dB(A)	38.3	48.9	53.0	34.5	37.9	42.0
2	Alegaon village	dB(A)	36.0	45.7	51.0	34.0	39.7	41.0
3	Tilati RS	dB(A)	39.0	50.7	54.0	35.3	41.4	45.0
Permissible Limit (L _{eq})		dB(A)	55			45		

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Ahuj (A) & Aleagon Villages, Solapur District, Maharashtra

Ground Water Quality Monitoring Report(Apr '17 - Sep '17)

S. No	Parameter	UoM	GW 1	GW 2	GW 3	GW 4	Permissible Limits
i	Colour	Hazen Units	<1	1	<1	1	15
ii	Odour		Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
iii	pH		7.85	7.96	7.73	8.00	6.5 - 8.5
iv	Taste		Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
v	Turbidity,	NTU	0.6	1.1	0.6	0.5	5
vi	Total Dissolved Solids	mg/l	650	825	640	285	2000
vii	Aluminium (as Al)	mg/l	<0.01	<0.01	<0.01	<0.01	0.2
viii	Ammonia (as total Ammonia -N)	mg/l	<0.1	<0.1	<0.1	<0.1	0.5
ix	Anionic Detergents (as MBAS)	mg/l	<0.1	<0.1	<0.1	<0.1	1.0
x	Barium (as Ba)	mg/l	<0.05	<0.05	<0.05	<0.05	0.7
xi	Boron (as B)	mg/l	<0.1	<0.1	<0.1	<0.1	1
xii	Calcium (as Ca)	mg/l	77.2	79.0	64.0	42.0	200
xiii	Chloramines (as Cl ₂)	mg/l	NA	NA	NA	NA	4.0
xiv	Chloride (as Cl)	mg/l	80.0	70	40	35	1000
xv	Copper (as Cu)	mg/l	<0.01	<0.01	<0.01	<0.01	1.5
xvi	Fluoride (as F)	mg/l	0.82	0.61	0.24	0.32	1.5
xvii	Residual, Free Chlorine	mg/l	<0.1	<0.1	<0.1	<0.1	1
xviii	Iron (as Fe)	mg/l	<0.05	<0.05	<0.05	<0.05	1.0
xix	Magnesium (as Mg)	mg/l	48.0	34.0	27.0	85.5	100
xx	Manganese (as Mn)	mg/l	<0.03	<0.03	<0.03	<0.03	0.3
xxi	Mineral Oil	mg/l	<0.01	<0.01	<0.01	<0.01	0.5
xxii	Nitrates (as NO ₃)	mg/l	42.3	36.0	22.0	19.0	45
xxiii	Phenolics (as C ₆ H ₅ OH)	mg/l	<0.001	<0.001	<0.001	<0.001	0.002
xxiv	Selenium (as Se)	mg/l	<0.005	<0.005	<0.005	<0.005	0.01
xxv	Silver (as Ag)	mg/l	<0.002	<0.002	<0.002	<0.002	0.1
xxvi	Sulphates (as SO ₄)	mg/l	12.0	13.0	7.3	23.0	400
xxvii	Sulphide (as H ₂ S)	mg/l	<0.01	<0.01	<0.01	<0.01	0.05
xxviii	Alkalinity (as CaCO ₃)	mg/l	252	263	260	246	600
xxix	Total Hardness (as CaCO ₃)	mg/l	360	350	280	210	600
xxx	Zinc (as Zn)	mg/l	0.1	0.3	0.1	0.3	15
xxxi	Cadmium (as Cd)	mg/l	<0.002	<0.002	<0.002	<0.002	0.003
xxxii	Cyanide (as CN)	mg/l	<0.01	<0.01	<0.01	<0.01	0.05
xxxiii	Lead (as Pb)	mg/l	<0.005	<0.005	<0.005	<0.005	0.01
xxxiv	Molybdenum (as Mo)	mg/l	NA	NA	NA	NA	0.07
xxxv	Mercury (as Hg)	mg/l	<0.0005	<0.0005	<0.0005	<0.0005	0.001
xxxvi	Nickel (as Ni)	mg/l	<0.01	<0.01	<0.01	<0.01	0.02
xxxvii	Arsenic (as As)	mg/l	<0.002	<0.002	<0.002	<0.002	0.01
xxxviii	Chromium (as Cr ⁺⁶)	mg/l	<0.03	<0.03	<0.03	<0.03	0.05
xxix	Total Coliform	(/100ml)	Absent	Absent	Absent	Absent	0.0
xl	E-Coli	(cfu/100ml)	Absent	Absent	Absent	Absent	0.0

GW1 : Borewell Project Site GW3 : Borewell Aleagon Village

GW2 : Borewell Ahuj Village GW4 : Borewell Tiliati RS

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Ahuj (A) & Aleagon Villages, Solapur District , Maharashtra							
Stack Emission Monotoring- Consolidated Report (Apr '17 to Sep '17)							
S.No	Stack Connected to	Parameter	UoM	Norms	Max	Min	Avg
1	Cement Mill-1	Particulate Matter	mg/Nm3	30	25.50	13.60	20.68

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