







Chettinad Chettinad Chettinad Chettinad Chettinad Cement/Tamilnadu/Puliyur/Cement Plant & CPP/EC Compliance Cement

April '20-Sep'20/ 2020 / 122

20th Nov, 2020

Director

Ministry of Environment, Forest and Climate Change Government of India, Regional Office (SEZ) Ist and IInd Floor, Handloom Export Promotion Council 34, Cathedral Garden Road, Nungambakkam, Chennai – 600 034

Sir,

Sub: Submission of Environmental Clearance Compliance & Environmental Monitoring Reports (April'20 to Sep'20) - Chettinad Cement Corporation Private Limited, Puliyur Works, Puliyur Village, Karur Taluk & District, Tamilnadu

Ref: Environmental Clearance issued by Ministry of Environment and Forests vide Letter No. F.N. J -11011/186/2008 -IA.II (I) dated 25th Feb 2019

We enclose herewith the following reports pertaining to Integrated Cement Plant Production capacity of 1.7MTPA (Including Slag Grinding 1.0 MTPA) and Captive Power Plant generation capacity of 15MW, located at Puliyur Village, Karur Taluk & District, Tamilnadu for the period from April'20 to Sep'20

- a. Environmental Clearance Compliance Report (April'20 to Sep'20) Appendix 1
- b. Environmental Monitoring Report (April'20 to Sep'20) comprising of
 - i. Ambient Air Quality Monitoring Consolidated Report Appendix 2
 - ii. Noise Level Monitoring Consolidated Report Appendix 3
 - iii. Ground Water Quality Monitoring Report- Appendix 4
 - iv. Stack Emission Monitoring Consolidated Report Appendix 5
 - v. Effluent Quality Monitoring Consolidated Report Appendix 6

Yours faithfully for Chettinad Cement Corporation Private Limited



Joint President (Works)

Copy to: Director (Industries), MoEF & CC, Delhi Member Secretary, CPCB, Delhi, Scientist 'E' & In-charge, CPCB, Bengaluru Member Secretary, TNPCB, Chennai, JCEE, TNPCB, Salem, DEE, TNPCB, Karur

Chettinad Cement Corporation Private Limited.

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Chettinad Cement Corporation Private Limited (Puliyur Works) Puliyur Village, Karur District, Tamilnadu

Environmental Clearance (EC) Compliance Report

(EC granted by MoEF vide letter F.NO. J - 11011/186/2008 - IA II (I) dated 25.02.2019)

S.No	Additional Condition	Compliance Status					
1	The emissions from cement grinding units	Complied.					
	shall be restricted to ≤30mg/Nm³	Being Complying with is condition.					
2	The cement grinding capacity shall be	Complied.					
	restricted to 1.7MTPA inclusive of	We assured that the total cement Grinding					
	granulated slag	Capacity will not exceed to 1.7 MTPA inclusive					
		of Granulated Slag grinding capacity of 1.0					
		MTPA.					
3	Industrial vacuum Cleaner shall be used to	Complied.					
	its vicinity.	Two numbers of road sweeping machines uses plant's internal roads cleaning and vacuum cleaners as well as manual cleaning is done regular interval and ensured clean and good working atmosphere within plant.					
4	All other terms and conditions mentioned in the earlier EC letter no J-11011/186/2008-IA.II(I) dated 25.08.2008 shall remaining unchanged.						

for Chettinad Cement Corporation Private Limited

A . Amalraj

Joint President (Works)



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Chettinad Cement Corporation Private Limited (Puliyur Works)

Puliyur Village, Karur District, Tamilnadu

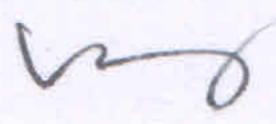
Environmental Clearance (EC) Compliance Report

(EC granted by MoEF vide letter F.NO. J - 11011/186/2008 - IA II (I) dated 25.08.2008)

A. Specific Conditions

S.No	Specific Condition	Compliance Status							
i	The stack emission from all the source	The air pollution control devices viz., Electrostatic							
	shall not exceed 50 mg/Nm³ .	Precipitator (ESP) for the Cooler, Bag House to							
	Electrostatic precipitator (ESP) to	for Kiln/Raw Mill, Coal Mill & Cement Mill and Bag							
	Cooler, Bag house to Kiln/Raw mill, Bag	Filters for Clinker Silo, Ash Silo and Transfer							
	Filter to Coal Mill, Bag Filter to Cement	Points are in place to control emissions within the							
	Mill etc shall be provided to control air	prescribed norms.							
	emissions < 50mg/Nm³. Monitoring of								
	ambient air quality and stack emissions	Monitoring of Ambient Air Quality and Stack							
	shall be carried out regularly in	Emissions are carried out regularly and the							
	consultation with TNPCB and data	monitored data are being submitted to the							
	submitted to the Ministry's Regional	Ministry's Regional Office at Chennai, CPCB and							
	Office at Bangalore, CPCB and Tamil	Tamilnadu Pollution Control Board (TNPCB).							
	Nadu Pollution Control Board (TNPCB)								
	regularly.								
ii	The fugitive emission during loading and	Dust collection/extraction systems available to							
	unloading shall be suitably controlled. The	control fugitive emission are detailed below.							
	company shall install adequate dust								
	collection and extraction system to	Activity Control Measure							
	control fugitive dust emissions. Fugitive	Unloading of Water Sprinkling							
	emissions from raw material handling	Raw Materials							
	areas, loading /unloading points, transfer	Travv i laccitais							
	points, hoppers, storage silos, weigh	Stacking Closed Storage with water							
	feeders, grinding mill and packing	Sprinkling System for Coal,							
	machines shall be controlled by providing	Gypsum ,Limestone							
	silos and covered sheds for storage of								
	raw materials, fully covered conveyors for								
	transportation of materials etc. Water								
	sprinklers shall also be provided to								
	control fugitive emissions.								

S.No	Specific Condition	Compliance Status					
		Activity Control Measure					
		Storing	Silos with Bag Filters for Raw				
			Meal, Clinker, Fly Ash &				
			Cement				
		Conveying	Pneumatic conveying through				
		Fly Ash from	closed pipeline				
		ESP Hopper					
		to Fly Ash Silo					
		Conveying of	Closed Conveyors and transfer				
		Materials	points with Bag Filters.				
		(Raw Meal,					
		Clinker, Coal					
		etc.,)					
		Conveying of	Using Air Slide and Bucket				
		Fly Ash from	Elevator				
		Silo to					
		Cement Mill &					
		Cement to					
		Silo					
		Transporting,	Paved Roads				
		Vehicular	Allowing only vehicles with				
		Movement	Pollution Under Control				
			Certificate inside the				
			premises				
			Tarpaulin Cover for the				
			materials				
			No Overloading				
			Speed Control				
		Bagging and	Electronic Packers with Bag				
		Packing	Filters				
iii	Ambient Air Quality Monitoring Stations						
	(AAQM) shall be set up as per statutory						



S.No	Specific Condition	Compliance Status
	requirement in consultation with the	6 Ambient Air Quality Monitoring Stations
	TNPCB and data submitted to the	(AAQM) have been set up in consultation with the
	ministry's Regional Office at Bangalore,	TNPCB and the monitored data is being
	CPCB and TNPCB.	submitted to the Regional Office of MoEF & CC,
		Chennai, CPCB and TNPCB.
iv	Total ground water requirement shall not	Total ground water requirement is not exceeding
	exceed 1200 m³/day. The liquid effluent	1200 m³/day.
	from the existing Captive Power Plant	
	(CPP),viz., Boiler Blow Down Cooling	The liquid effluent from the existing Captive
	Tower Blow Down and Reverse Osmosis	Power Plant (CPP) viz., Boiler Blow Down,
	(RO) Plant Rejects shall be neutralized	Cooling Tower Blow Down and Reverse Osmosis
	and treated and used for dust	(RO) Plant Rejects are being neutralized and
		treated and then used for various requirements of
		the Plant. No liquid effluent is being discharged
		from the premises and 'Zero' discharge concept is
	Domestic effluent shell be treated in	
	Sewage Treatment Plant (STP) and	
	utilized for green belt development.	Domestic effluent is treated in Sewage
		Treatment Plant (STP) and utilized for greenbelt
		development and dust suppression.
V	Permission for the drawl of 1200 KLD	Ground water Permission obtained from PWD.
	from the State Ground Water Board	
	/Central Ground Water Authority shall be	
	obtained.	
vi	Solid Waste viz., Fly Ash and Dust etc	Solid Waste viz., Fly Ash and Dust etc., from the
		Air Pollution Control Equipment (ESP, Bag House,
	(ESP, Bag House, Bag Filters etc) Shall be	Bag Filters etc) are being recycled and reutilized
	properly recycled and reutilized in the	in the respective process.
	process itself for Cement manufacturing.	The co-processing of CETP Sludge (Textile) in
		our Kiln commenced. Continuing the co-
		processing of this sludge depends on the quality
		of Limestone received from our Captive
		Limestone Mines and the quality of CETP Sludge
		received from Textile Industry, as variations have
	Sewage Treatment Plant (STP) shall be	
		Door vou in the quality of both.

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S.No	Specific Condition	Compliance Status					
		No solid waste is disposed outside the factory					
	belt. Waste oil shall be collected, stored	premises. The solid waste from Sewage					
	and sold to authorized recyclers/	Treatment Plant (STP) is being used as manure					
	preprocessors for further treatment and						
	disposal.	Used/Spent Oil is being collected, stored and sold					
		to authorized recyclers/ preprocessors for					
		further treatment and disposal.					
vii	As proposed, out of total 31 ha green belt						
	shall be developed in 11.6 ha (37.4%) to	Total area of Plant 31.0 ha					
	mitigate the effects of air emissions as	Greenbelt Developed Area 11.6 ha					
	per the CPCB per the CPCB guidelines in						
	a time bound manner.	No of Saplings planted 25084					
viii	All the recommendations mentioned the	The recommendations made in the Charter					
		on Corporate Responsibility for Environment					
	Environmental Protection CREP shall be	Protection (CREP) for the Cement Plants have					
	followed and complied.	been complied with except for the generation of					
		power using hot gases from the Kiln. As the hot					
		gases from the kiln are used for removing the					
		moisture from the raw materials in the Raw Mill,					
		the insufficient heat energy available in the spent					
		gases cannot be used for power generation					
		using Waste Heat Recovery Boiler.					
ix	Other necessary statutory clearance from	Consent to Establishment and Consent for					
	the concerned departments including 'No	Operations have been obtained from Tamilnadu					
	Objection Certificate ' from the	Pollution Control Board prior to commencement					
	Tamilnadu Pollution Control Board shall	of construction and operation respectively.					
	be obtained prior to commencement of						
	construction and/ or operation.						



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B. General Conditions

S.No	General Condition	Compliance Status
i	The project authority shall adhere to the	The stipulations made by Tamilnadu
	stipulations made by Tamilnadu Pollution	Pollution Control Board (TNPCB) and State
	Control Board (TNPCB) and State	Government are being complied with.
	Government.	
ii	No further expansion or modification of	No further expansion or modification of the
	the plant shall be carried out without	plant will be carried out without prior
	prior approval of this Ministry.	approval of this Ministry.
iii	The gaseous and particulate matter	The air pollution control devices like ESP,
	emissions from various units shall	Bag House/ Water Sprinkling and Low
	conform to the standards prescribed by	NOx Burner etc., are in place to control
	the T.N. Pollution Control Board.	the gaseous and particulate matter
	Continuous online monitors for	emissions within norms.
	particulate emissions shall be installed in	Continuous online monitors for Particulate
	stack. Interlock facility shall be provided	Matter installed in the Stacks attached to
	in the pollution control equipment so	Raw Mill & Kiln, Coal Mill, and Cooler ESP &
	that in the event of the pollution	Cement Mill.
	control equipment not working, the	
	respective unit(s) is shut down	Interlock facility available in the pollution
	automatically.	control equipment so that when the
		pollution control equipment is not
		working, the respective production unit
		gets shut down automatically.
IV		Bag House is available for the Cement
		Grinding Mill where the grinding of Clinker
		takes place. The emissions from the
		Cement Grinding Mill are below 30 mg/Nm³.
	below 50 mg/Nm³.	
V		Ambient Air Quality and Ambient Noise
		Levels are not exceeding the standards
		stipulated under EPA and the State
	the State Authorities. Monitoring of	Authorities.
	Ambient Air Quality and shall be carried	
		Monitoring of Ambient Air Quality is being
	TNPCB and data submitted to the	carried out regularly and monitored data

120

S.No	General Condition	Compliance Status
	CPCB and TNPCB regularly. The	is being submitted to the CPCB and
	instruments used for Ambient Air	TNPCB.
	Quality Monitoring shall be calibrated	The instruments used for Ambient Air
	time to time.	Quality Monitoring are being calibrated
		from time to time.
vi	The overall noise levels in and around	The overall noise levels in the plant area is
	the plant area shall be kept well within	kept well within the standards (85 dBA) by
	the standards (85 dBA) by providing	providing appropriate noise control
	noise control measures including acoustic	measures like acoustic hoods, silencers,
	hoods, silencers, enclosures etc. on all	enclosures etc. for the sources of noise
	sources of noise generation. The Ambient	generation and ensuring good maintenance
	Noise Levels shall conform to the	of Equipment & Machinery.
	Standards prescribed under	
	environmental (Protection)Act 1986,	The Ambient Noise Levels are conforming
	Rules 1989 viz. 75dBA (day time) and	to the Standards prescribed under
	70 dBA (night time)	environmental (Protection)Act 1986,
		Rules 1989 viz. 75 dBA (day time) and 70
		dBA (night time).
vii	Rainwater harvesting measures shall be	Rainwater harvesting measures like
	adopted. The company must harvest	rooftop collection facility, storm water
	the rainwater from the rooftops and	collection facility and sump are available
		to harvest rainwater which helps to
		recharge the ground water, ensure
	the various activities of the project to	availability of harvested water for meeting
	conserve fresh water.	various requirements of the Plant and also
		conserve fresh water.
viii	The company shall undertake eco-	The eco-development activities like
		rainwater harvesting campaigns, free-supply
		of saplings to the nearby community etc.,
	project area.	are being carried out.
		The community welfare measures, which
		include various Education, Health and
		Infrastructure Development initiatives that
		are being carried out.
		are being carried out.



S.No	General Condition	Compliance Status
ix		Good House Keeping is maintained in Plant
	occupational health programmes shall be	Area. Occupational Health Programme like
	taken up.	Pre-employment and periodical health check
		up for the employees, health awareness
		programme, ensuring use of personal
		protective equipment by the employees,
		maintaining clean and safe work
		environment etc., are being ensured.
X	A separate environmental management	A separate environmental management
	cell to carry out various management	cell under the control of Senior Executive to
	and monitoring functions shall be set up	carry out various environment related
	under the control of Senior Executive.	activities is available.
		The regular environmental monitoring is
		being carried by third party.
xi	Adequate funds shall be earmarked	Funds earmarked for capital cost and
	towards total capital cost and recurring	recurring cost/annum for environmental
	cost/annum for environmental	pollution control measures have been
	pollution control measures and used to	used to implement the conditions
	implement the conditions stipulated by	stipulated by the Ministry of Environment
	the Ministry of Environment and	and Forests as well as the State
	Forests as well as the State	Government.
	Government. The funds so provided	
	shall not be diverted for any other	The funds so provided are not being
	purpose.	diverted for any other purpose.
xii		Six monthly EC compliance report and the
	Bangalore/CPCB/TNPCB/shall monitors	monitored data are being submitted to
	the stipulated conditions. A six monthly	Regional Office of MoEF & CC at
	compliance report and the monitored	Chennai/CPCB/TNPCB regularly.
	data along with statistical interpretation	
	shall be submitted to them regularly.	



S.No	General Condition	Compliance Status
xiii	The Project Authorities shall inform the	As internally accrued funds have been
	Regional Office as well as the Ministry,	invested for the expansion activities, this
	the date of financial closure and final	portion of the condition is not applicable to
	approval of the project by the concerned	us. The expansion activity did not involve any
	authorities and the date of commencing	land development work, as few facilities in
	the land development work.	the plants have been upgraded/replaced.
xiv	The Project Proponent shall inform the	Advertisement in Indian Express (in English)
	public that the project has been	& Dhinamani (in Tamil) published on
	accorded environmental clearance by	30.08.2008 informing the public that the
	the Ministry and copies of the	proposed expansion programme has been
	clearance letter are available with the	accorded environmental clearance and a
	T.N. Pollution Control	copy of the clearance letter is available with
	Board/Committee and may also be	its Tamilnadu Pollution Control Board and
	seen at Website of the Ministry of	also can be seen at Website of the
	Environment and Forests at	Ministry of Environment and Forests at
	http:/envfor.nic.in. This should be	http:/envfor.nic.in.
	advertised within seven days from the	
	date of issue of the clearance letter at	Copies of the advertisement submitted to
	least in two local newspapers that are	MoEF Regional Office, Bangalore vide our
	widely circulated in the region of	letter CCCLP/PROD/2008/1653 dated
	which one shall be in the vernacular	30.08.2008.
	language of the locality concerned and	
	a copy of the same shall be forwarded	
	to the Regional office at Bangalore.	

Other Conditions

S No	Other Condition	Compliance Status
5.0	The ministry or any other competent	Guidelines noted and the additional
	authority may stipulate any further	conditions will also be implemented.
	condition(s) on receiving reports from the	
	project authorities. The above conditions	
	shall be monitored by the Regional Office	
	of this Ministry located at Bangalore.	
6.0	The Ministry may revoke or suspend the	Guidelines noted.
	clearance, if implementation of any of the	
	above conditions, is not satisfactory.	

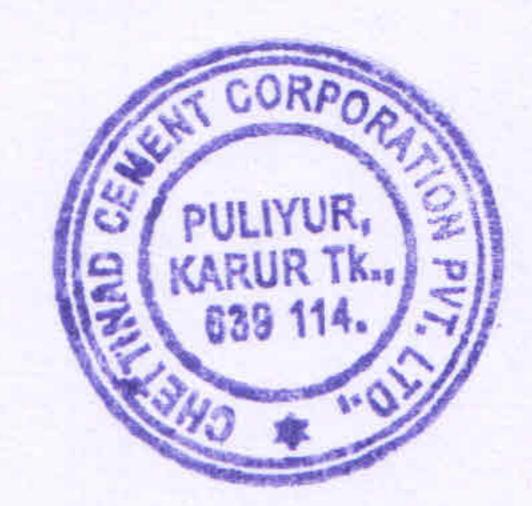


S No	Other Condition	Compliance Status
7.0	Any other conditions or alteration in the above said conditions shall have to be implemented by the project authorities in a time bound manner.	
8.0	Any appeal against this Environmental Clearance shall lie with the National Environment Appellate Authority, if preferred, within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.	
9.0	The above conditions shall be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, and the Public Liability Insurance Act, 1991 along with their amendments and rules.	

for Chettinad Cement Corporation Private Limited

A . Amalraj

Joint President (Works)



	Chettinad Ceme							ıliyur	Work	(5)			
		uliyur V	NI DOMENIA DE NATIONAL DE CONTROL				****	*1 .					
S.No	Ambiant Air Quality M Location		ing- C 10 (µg/		Chicago de Caración de Caració		ort (A /m³)	CONTRACTOR CONTRACTOR	20 to		T Company)x (µg/	/m³)
		Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	House of top K sureskumar New Kalipalayam -North East	52.0	49.5	50.6			19.7			9.4	24.2	17.7	20.5
2	Transofffice Buliding Puliyur -North	54.0	52.1	53.1	25.5	21.3	23.2	12.3	8.9	10.7	24.4	19.9	22.1
3	House of top Nagarajan.D Ganeshpuram - North west	51.9	49.4	50.9	22.8	19.2	20.6	10.1	9.1	9.5	21.0	20.3	20.7
4	House of top Gopal Amaravathi Nager - South west	53.3	50.9	52.0	21.4	20.6	21.1	10.6	9.3	10.1	22.3	21.5	22.0
5	House of top Mahiyalagan RM colony -South	53.3	52.0	52.8	22.3	21.5	22.0	11.5	9.5	10.8	23.3	22.3	22.7
6	House of top Velusamy Kalipalayam South East	51.3	31.6	44.2	22.9	21.3	22.0	10.1	9.0	9.4	22.6	20.7	21.7
	Limit	10	o μg/r	n ³	6	o µg/r	n ³	8	o μg/	m ³	8	o µg/ı	m^3

for Chettinad Cement Corporation Private Limited



	Chettinad Cement	Corpora	tion Priv	ate Limit	tod (Dulis	ur Works		Appendix
		Village,				ui vvoik:	>)	
	Noise Level Monitorin	THE PROPERTY AND DESCRIPTION OF PERSONS ASSESSED FOR THE PERSONS ASSESSED.				to Sen's	2020)	
S.No		UoM		Day			Night	
			Lmin	L _{eq}	L _{max}	L _{min}	Lea	L _{max}
		Ambi	ent Noise	Level				
1	House of top K sureskumar New Kalipalayam -North East	dB(A)	51.90	52.10	52.20	41.70	42.17	42.40
2	Transofffice Buliding Puliyur - North	dB(A)	52.20	52.37	52.50	42.20	42.33	42.40
3	House of top Nagarajan.D Ganeshpuram - North west	dB(A)	52.20	52.47	52.60	42.50	42.67	42.90
4	House of top Gopal Amaravathi Nager - South west	dB(A)	52.05	52.42	52.80	41.70	42.27	42.60
5	House of top Mahiyalagan RM colony -South	dB(A)	52.20	52.43	52.80	42.50	42.63	42.80
6	House of top Velusamy Kalipalayam South East	dB(A)	52.10	52.20	52.30	41.90	42.07	42.30
	Limit (L _{eq})	dB(A)		75			70	

for Chettinad Cement Corporation Private Limited





		ound v		The second second second	lage,Kari				Carl			
C N-					t (April'2020 to							
S. No	Parameter	UoM	GV	GW 1		V 2	GW 3		GW 4		GW 5	
			May '20	Aug '20	May '20	Aug '20	May '20	Aug '20	May '20	Aug '20	May '20	Aug 'z
1	Total Coliforms	-	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Abser
2	Total Alkalinty as CacO3	mg/l	227	240	278	280	242	270	258	260	293	288
3	Ammonia as N	-	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
4	Mg hardnessas Caco3	mg/l	60	68	65	72	65	65	85	80	68	65
5	P-Alkalinity as CaCO3	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
6	Silica as SIO2	mg/l	18	47	16	23	21	41	24	26	18	29
7	TSS	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
8	Sodium as Na	mg/l	62	249	76	87	58	170	68	168	68	142
9	Colour	Haz	20	2.0	2.0	2.0	2.0	2.0	2.0	5.0	2.0	BDL
10	рН	mg/l	7.72	7.21	7.42	7.62	7.69	7.1	7.4	6.79	7.84	7.09
11	TDS	mg/l	694	1750	668	728	876	1460	856	1370	788	1055
12	Turbidity	mg/l	0.5	0.4	0.4	0.5	0.4	BDL	0.3	0.6	0.4	1.2
13	Ca hardness CaCo3	mg/l	220	228	195	254	225	240	230	240	196	NIL
14	Anionic detergents MBAS	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	230
15	Boron as B	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
16	Chloride as Cl	mg/l	142	140	118	153	157	156	181	180	227	208
17	Copper as Cu		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
18	Fluoride as F	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
19	Free residual chlorine	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
20	Iron as Fe	mg/l	0.06	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.08	BDL
21	Manganese as Mn	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
22	Mnieral Oil	mg/l	BDL	BDL	BDL	BDL .	BDL	BDL	BDL	BDL	BDL	BDL
23	Nitrite as NO3	mg/l	23	39	13	24	21	33	24	36	27	38
24	Nitrite as NO2	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	Phenolic compound as C6H5OH	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	NIL	BDL	BDL	BDL
26	Selenium as Se	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NIL
27	Sulphate as SO ₄	mg/l	58	60	54	68	64	91	72	76	146	148
28	Total Hardness as CaCo ₃	mg/l	280	288	260	280	290	260	315	264	264	295
29	Cadmiun as CD	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
30	Cyanide as CN	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
31	Lead as Pb	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
32	Mercury as Hg	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
33	T.Chromium as Cr	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
34	T.Arsenic as As	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
35	Appearance		Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
W 1 - K	alipalayam Village- East				GW 4 - Pu	liuyr Village	e -West					
W 2 - A	.B.Nager-South West				GW 5 – Kov	vil Palayam	Village-Noi	rth				
W 3 - A	maravathi Nager North W	/est										

* BDL - Below Detectable Limit

for Chettinad Cement Corporation Private Limited

A.Amalraj

Joint President (Works)





	Chettinad Cem	ent Corporati	on Private	Limited (Puliyur W	orks)	
		Puliyur, Karu	r District,T	amilNadu			
	Stack Emission Mo	notoring- Con	solidated F	Report (A	pril '20 to	5 Sep '20)	
S.No	Stack Connected to	Parameter	UoM	Norms	Max	Min	Avg
1	Raw Mill /Kiln	Particulate Matter			20.0	16.0	18.0
2	Cooler ESP				22.8	19.4	21.0
3	Coal Mill			30	26.4	19.4	22.2
4	Cement MIII-1		ter mg/Nm ³		25.6	21.0	23.2
5	Captive Power Plant - Boiler			50	27.0	13.0	16.0

S.No	Stack Connected to	Parameter	UoM	Norms	Max	Min	Avg
1	Raw Mill /Kiln	SO ₂		100	28.0	13.0	21.7
2	Captive Power Plant - Boiler		mg/Nm ³	600	393.0	106.0	244.0

S.No	Stack Connected to	Parameter	UoM	Norms	Max	Min	Avg
1	Raw Mill/Kiln	NOx		800	377.0	172.0	252.2
2	Captive Power Plant - Bolier		mg/Nm ³	450	197.0	119.0	166.7

for Chettinad Cement Corporation Private Limited



	Chettinad Cement C				Works)	
	Puliyur V	ıllage "Karur	District, Tar	nilnadu		
	Treated Industria Consolida		Effluent Qual (April '20 to		ring -	
A. Tre	eated Industrial Effluent					
S No	Paramenter	UoM	Norms	Max	Min	Avg
1	PH		5.5 to 9.0	8.2	8.1	8.1
2	Suspended Solids	mg/litre	100	4.0	3.2	3.7
3	Total Dissolved Solids	mg/litre	2100	1078.0	1010.0	1044.3
4	Chlorides	mg/litre	1000	170.0	109.0	133.0
5	Sulphates	mg/litre	1000	50.0	39.0	44.7
6	BOD	mg/litre	30	3.3	1.0	2.1
7	COD	mg/litre	250	130.0	20.0	21.3
B. Tre	eated Sewage Effluent - F	actory				
S No	Paramenter	UoM	Norms	Max	Min	Avg
1	PH		5.5 to 9.0	7.7	7.0	7.4
2	Total Suspended Solids	mg/litre	30	8.0	2.0	4.1
3	BOD	mg/litre	20	10.0	4.0	6.4
C. Tre	eated Sewage Effluent - C	olony				
S No	Paramenter	UoM	Norms	Max	Min	Avg
1	PH.		5.5 to 9.0	7.9	7.6	7.8
2	Total Suspended Solids	mg/litre	30	5.2	1.0	3.4
3	BOD	mg/litre	20	6.0	2.8	4.0

for Chettinad Cement Corporation Private Limited



