







Chettinad Cement/Tamilnadu/Puliyur/Cement Plant & CPP/EC Compliancement Oct '2021-March'2022/ 2022/19 25th May, 2022

Director

Ministry of Environment, Forest and Climate Change Integrated Regional office, 1st Floor, Additional office. Block for GPOA, Shastri Bhwan, Haddows Road, Nungambakkam, Chennai - 600 004

Sir,

Sub: Submission of Environmental Clearance Compliance & Environmental Monitoring Reports (Oct'2021 to Mar'2022) - 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 Oct'2021 to March'2022

- a. Environmental Clearance Compliance Report (Oct'2021 to March'2022) Appendix 1
- b. Environmental Monitoring Report (Oct'2021 to March'2022) 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

R.P.Muthiah

Asst Vice 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 **Head Office:**

Chettinad Cement Corporation Private Limited.

Kumararajah Muthiah Nagar Puliyur Cement Factory Karur Dist 639 114,

Tamilnadu, India.

T +91 4324 251354, 251345 E puliyur@chettinadcement.com CIN: U93090TN1962PTC004947

GST: 33AAACC3130A1ZQ

Chettinad Towers,4th Floor, 603, Anna Salai, Chennai 600 006,

T+914428292727, 42951800 F+94 44 28291558, 43090202 E info@chettinadcement.com www.chettinadcement.com

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.
2	shall be restricted to ≤30mg/Nm³ The cement grinding capacity shall be restricted to 1.7MTPA inclusive of granulated slag	Being Complying with is condition. Complied. We assured that the total cement Grinding 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 control the road dust within the plant and its vicinity.	Complied. 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.	Compliance Status Enclosed as Appendix 1



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 State			
i	The stack emission from all the source	The air pollutio	Compliance Status in control devices viz., Electrostation			
	shall not exceed 50 mg/Nm³ .		SP) 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 Clir	nker Silo, Ash Silo and Transfer			
	Filter to Coal Mill, Bag Filter to Cement	Points are in pla	ace to control emissions within the			
	Mill etc shall be provided to control air					
	emissions < 50mg/Nm³. Monitoring of					
	ambient air quality and stack emissions	Monitoring of	Ambient Air Quality and Stack			
	shall be carried out regularly in	n Emissions are carried out regularly and t				
	consultation with TNPCB and data	a monitored data are being submitted to th				
	submitted to the Ministry's Regional	Ministry's Regional Office at Chennai , CPCB and				
	Office at Bangalore , CPCB and Tamil	Control Board (THI CB).				
	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		emission are detailed below.			
	company shall install adequate dust					
	collection and extraction system to	Activity	Control Measure			
	control fugitive dust emissions. Fugitive					
	emissions from raw material handling	Unloading of	Water Sprinkling			
	areas, loading /unloading points, transfer	Raw Materials				
	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 Fly Ash from ESP Hopper to Fly Ash Silo	Pneumatic conveying through closed pipeline				
		Conveying of Materials (Raw Meal, Clinker, Coal etc.,)	Closed Conveyors and transfer points with Bag Filters.				
		Conveying of Fly Ash from Silo to Cement Mill & Cement to Silo	Using Air Slide and Bucket Elevator				
		Transporting, Vehicular Movement	 Paved Roads Allowing only vehicles with Pollution Under Control Certificate inside the premises Tarpaulin Cover for the materials No Overloading Speed Control 				
		Bagging and Packing	Electronic Packers with Bag 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	
	ministry's Regional Office at Bangalore,	
	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	
	from the existing Captive Power Plant	
	(CPP),viz., Boiler Blow Down Cooling	
	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
	suppression and green belt development	treated and then used for various requirements of
	No liquid effluent shall be generated and	the Plant. No liquid effluent is being discharged
	'Zero' discharge shall be followed.	from the premises and 'Zero' discharge concept is
	Domestic effluent shell be treated in	being followed.
	Sewage Treatment Plant (STP) and	semg ronowed.
	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	erealia water remission obtained nom P WD.
	/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
	from the air pollution control equipments	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
	As proposed, Effluent Treatment Plant	
	(ETP) sludge from 8 CETPs in Karur area	processing of this sludge depends on the quality
	shall be used in Cement Plant. No solid	
	waste shall be disposed off out side the	of Limestone received from our Captive Limestone Mines and the quality of CETP Sludge
	factory premises. The solid waste from	
	Sewage Treatment Plant (STP) shall be	received from Textile Industry, as variations have
	Singe Treatment Flant (STF) Shall be	been observed in the quality of both.

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S.No	Specific Condition	Compliance Status
	composted and used as manure for green	No solid waste is disposed outside the factory
	belt. Waste oil shall be collected, stored	
	and sold to authorized recyclers/	
	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	
	mitigate the effects of air emissions as	
	per the CPCB per the CPCB guidelines in	(37.4%)
	a time bound manner.	No of Saplings planted 25084
	a time bound manner.	
viii	All the recommendations mentioned the	The recommendations made in the Charter
	Corporate Responsibility for	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.
Fire		
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	
	Tamilnadu Pollution Control Board shall	Pollution Control Board prior to commencement
		of construction and operation respectively.
	be obtained prior to commencement of	
	construction and/ or operation.	



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	
	Control Board (TNPCB) and State	
	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	, and the control of the LSI,
	emissions from various units shall	o priming 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
. 21	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
-45	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.
	Cement grinding shall be carried out in	Bag House is available for the Cement
- 4	closed system and will have a highly	Grinding Mill where the grinding of Clinker
	efficient bag filters to control air	takes place. The emissions from the
	emissions from Cement Grinding Mill	Cement Grinding Mill are below 30 mg/Nm³.
	below 50 mg/Nm³.	
	Ambient Air Quality including Ambient	Ambient Air Quality and Ambient Noise
	Noise Levels shall not exceed the	Levels are not exceeding the standards
	standards stipulated under EPA or by	stipulated under EPA and the State
	the State Authorities. Monitoring of	Authorities.
	Ambient Air Quality and shall be carried	
	out regularly in consultation with	Monitoring of Ambient Air Quality is being
	TNPCB and data submitted to the	carried out regularly and monitored data



S.No	General Condition	Compliance Status
	CPCB and TNPCB regularly. The	is being submitted to the CPCB and
	instruments used for Ambient Air	
	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	
	noise control measures including acoustic	measures like acoustic hoods, silencers,
	hoods, silencers, enclosures etc. on all	
	sources of noise generation. The Ambient	
	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
	storm water drains to recharge the	to harvest rainwater which helps to
	ground water and use the same water for	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
	development measures including	rainwater harvesting campaigns, free-supply
	community welfare measures in the	of saplings to the nearby community etc.,
4-6	project area.	are being carried out.
		The community welfare measures, which
		include various Education, Health and
		Infrastructure Development initiatives that
		are being carried out.



S.No	General Condition	Compliance Status
ix	Proper housekeeping and adequate	Good House Keeping is maintained in Plant
	occupational health programmes shall be	
	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.
×	A separate environmental management	
	cell to carry out various management	
	and monitoring functions shall be set up	
E	under the control of Senior Executive.	activities is available.
		activities is available.
		The regular environmental monitoring is
		being carried by third party.
		being earried by trill a 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	
	Forests as well as the State	and Forests as well as the State Government.
	Government. The funds so provided	Government.
	shall not be diverted for any other	The funds so provided are not being
	purpose.	diverted for any other purpose.
		diverted for any other purpose.
xii	The Regional Office of this Ministry at	Six monthly EC compliance report and the
	Bangalore/CPCB/TNPCB/shall monitors	monitored data are being submitted to
	the stipulated conditions. A six monthly	
	compliance report and the monitored	Regional Office of MoEF & CC at
	data along with statistical interpretation	Chennai/CPCB/TNPCB regularly.
	shall be submitted to them regularly.	
	se submitted to them regularly.	



General Condition	Compliance Status
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.
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.	
	The Project Authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work. The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the T.N. Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in. This should be advertised within seven days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded

Other Conditions

S No	Other Condition	Compliance Status						
5.0	The ministry or any other competent authority may stipulate any further 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.	Guidelines noted and the additional conditions will also be implemented.						
6.0	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions, is not satisfactory.	Guidelines noted.						



Appendix 2

	Chettinad Ceme	nt Co	rporat	ion Pr	ivate	Limit	ed (Pu	ıliyur	Work	(s)			EVIII
			illage ,k										
	Ambiant Air Quality Mor	nitorin	ig- Coi	nsolid	ated	Repo	rt (Oc	t '202	21 to l	Mar'20	022)	HINE I	
S.No	Location	PM	10 (µg/	m ³)	PM	2.5 (µg	$/m^3$)	SC	2 (µg/	/m ³)	NC	x (µg/	/m ³)
		Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	House of top K sureskumar New Kalipalayam -North East	58.3	49.6	54.4	26.5	22.8	24.5	10.4	8.9	9.6	22.6	19.2	20.6
2	Transofffice Buliding Puliyur -North	56.9	54.6	55.9	34.7	22.6	25.9	10.4	9.4	9.7	23.4	21.5	22.4
3	House of top Nagarajan.D Ganeshpuram - North west	56.1	51.6	54.0	27.6	20.8	23.5	10.4	8.5	9.4	22.9	17.6	19.3
4	House of top Gopal Amaravathi Nager - South west	58.7	54.2	56.3	26.9	23.2	25.0	10.7	9.1	9.9	23.4	20.6	21.7
5	House of top Mahiyalagan RM colony -South	58.1	52.6	54.9	26.2	21.8	24.0	10.6	8.7	9.7	21.3	19.1	19.8
6	House of top Velusamy Kalipalayam South East	56.8	50.4	54.4	26.4	21.6	24.1	10.9	8.6	10.1	23.6	18.9	21.4
	Limit	10	ο μg/r	n ³	6	o µg/r	n ³	8	o µg/	m ³	8	o μg/r	m ³

for Chettinad Cement Corporation Private Limited

R.P.Muthiah

Asst Vice President (Works)



Appendix 2

	Chettinad Cemen	Corpora	ation Priv	ate Limit	ted (Dulis	ur Work		Appendix
			Karur Di			yui vvoik	5)	
	Noise Level Monito					to Mar'2	2)	
S.No		UoM	EW BEER	Day	i Primi		Night	
			L _{min}	L _{eq}	L _{max}	L _{min}	L _{eq}	L _{max}
		Ambi	ent Noise	Level				F7 551
1	House of top K sureskumar New Kalipalayam -North East	dB(A)	52.60	52.93	53.10	42.60	43.17	44.00
2	Transofffice Buliding Puliyur - North	dB(A)	52.10	52.30	52.50	42.10	42.77	43.50
3	House of top Nagarajan.D Ganeshpuram - North west	dB(A)	51.00	51.33	51.60	41.80	42.63	43.10
4	House of top Gopal Amaravathi Nager - South west	dB(A)	51.70	52.67	53.60	41.60	42.13	42.60
5	House of top Mahiyalagan RM colony -South	dB(A)	50.20	51.47	52.40	42.30	42.63	43.10
6	House of top Velusamy Kalipalayam South East	dB(A)	52.30	52.80	53.50	42.20	42.43	42.70
	Limit (L _{eq})	dB(A)		75	No.		70	

for Chettinad Cement Corporation Private Limited

R.P.Muthiah Asst Vice President (Works)



	G	round '	Water (Quality N	1onitorin	g Repo	rt (Oct'2	021 to M	1ar'2022	2)		
S. No	Parameter	UoM	GW 1		GW 2		GW 3		GW 4		GW 5	
			Oct '21	Mar '22	Oct '21	Mar '22	Oct '21	Mar '22	Oct'21	Mar '22	Oct '21	Mar '22
1	Total Coliforms	-	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
2	Total Alkalinty as CacO3	mg/l	101	175	162	194	133	160	214	186	320	227
3	Ammonia as N		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
4	Mg hardnessas Caco3	mg/l	55	54	75	79	72	64	80	72	59	92
5	P-Alkalinity as CaCO3	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
6	Silica as SIO2	mg/l	12	14	20	18	15	19	20	15	15	25
7	TSS	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
8	Sodium as Na	mg/l	34	42	40	46	37	33	50	40	68	61
9	Colour	Haz	2.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5	5
10	рН	mg/l	7.67	7.21	7.34	7.43	7.16	7.09	7.25	7.11	7.56	7.4
11	TDS	mg/l	382	578	662	662	526	553	683	627	845	723
12	Turbidity	mg/l	0.2	0.5	0.4	0.3	0.3	0.5	0.6	0.4	0.3	0.4
13	Ca hardness CaCo3	mg/I	100	109	125	121	120	92	132	110	167	120
14	Anionic detergents MBAS	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
15	Boron as B	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
16	Chloride as Cl	mg/l	76	136	123	161	103	145	135	159	272	194
17	Copper as Cu		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
18	Fluoride as F	mg/l	BDL	0.2	0.3	0.3	0.2	0.3	0.3	0.3	BDL	0.3
19	Free residual chlorine	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
20	Iron as Fe	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	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	10	13	14	16	8	10	23	20	22	17
24	Nitrite as NO2	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
25	Phenolic compound as C6H5OH	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
26	Selenium as Se	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NIL	NIL
27	Sulphate as SO4	mg/l	23	. 47	53	71	40	50	63	65	121	74
28	Total Hardness as CaCo3	mg/l	156	164	198	189	169	152	220	177	225	210
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 Villag	e -West					

* BDL - Below Detectable Limit for Chettinad Cement Corporation Private Limited

R.P.Muthiah

Asst Vice President (Works)



Appendix 5

	Chettinad Cem	ent Corporati	ion Private	Limited (Puliyur W	orks)	
		Puliyur, Karu	r District,T	amilNadu			
	Stack Emission Monot	toring- Consol	idated Rep	ort (Oct	2021 to I	March '20	22)
S.No	Stack Connected to	Parameter	UoM	Norms	Max	Min	Avg
1	Raw Mill /Kiln	Particulate Matter	mg/Nm ³	30	22.3	12.0	18.0
2	Cooler ESP				24.6	20.2	23.4
3	Coal Mill				28.4	20.3	25.0
4	Cement MIII-1				27.9	22.9	25.7
5	Captive Power Plant - Boiler			50	38.9	31.3	35.2

S.No	Stack Connected to	Parameter	UoM	Norms	Max	Min	Avg
1	Raw Mill /Kiln		mg/Nm ³	100	22.0	10.0	14.6
2	Captive Power Plant - Boiler	SO ₂		600	538.0	465.0	497.8

S.No	Stack Connected to	Parameter	UoM	Norms	Max	Min	Avg
1	Raw Mill/Kiln		mg/Nm ³	800	418.0	161.0	299.8
2	Captive Power Plant - Bolier	NOx		450	339.0	106.0	241.0

for Chettinad Cement Corporation Private Limited

R.P.Muthiah

Asst Vice President (Works)

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	Chettinad Cement (Corporation	Private Limit	ed (Puliyu	r Works)	
	Puliyur \	/illage ,Karur	District, Tar	milnadu		
	Treated Industria	al & Sewage	Effluent Qua	lity Monito	ring -	
		Altered to	Oct'2021 to	5-2		
A. Tre	eated Industrial Effluent		1000 以普里)			
S No	Paramenter	UoM	Norms	Max	Min	Avg
1	PH		5.5 to 9.0	8.6	7.3	8.1
2	Suspended Solids	mg/litre	100	14.0	7.4	8.7
3	Total Dissolved Solids	mg/litre	2100	1573.0	732.0	849.7
4	Chlorides	mg/litre	1000	313.0	149.0	175.0
5	Sulphates	mg/litre	1000	95.0	47.0	54.0
6	BOD	mg/litre	30	12.0	6.5	9.7
7	COD	mg/litre	250	130.0	37.0	54.3
B. Tre	eated Sewage Effluent - F	actory				
S No	Paramenter	UoM	Norms	Max	Min	Avg
1	PH		5.5 to 9.0	7.2	6.8	7.0
2	Total Suspended Solids	mg/litre	30	22.0	5.2	14.6
3	BOD	mg/litre	20	16.0	4.1	10.8
C. Tre	eated Sewage Effluent - C	Colony				
S No	Paramenter	UoM	Norms	Max	Min	Avg
1	PH		5.5 to 9.0	7.4	6.9	7.1
2	Total Suspended Solids	mg/litre	30	22.0	4.3	15.1
3	BOD	mg/litre	20	16.0	6.2	12.2

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