









Chettinad Cement/Tamilnadu/Puliyur/Cement Plant & CPP/EC Compliance/ Oct '2022-March'2023/ 2023 23rd May, 2023

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'2022 to Mar'2023) - 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'2022 to March'2023

- a. Environmental Clearance Compliance Report (Oct'2022 to March'2023) Appendix 1
- b. Environmental Monitoring Report (Oct'2022 to March'2023) 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

G.Hari Kishore

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

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 shall be restricted to ≤30mg/Nm³	Complied. Being Complying with is condition.
2	The cement grinding capacity shall be restricted to 1.7MTPA inclusive of granulated slag	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

for Chettinad Cement Corporation Private Limited

G.Harikishore

Asst Vice President (Works)

PULIYUR, KARUR Tk., S38 114.

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	C	Compliance Status			
i	The stack emission from all the source	The air pollution	control devices viz., Electrostation			
	shall not exceed 50 mg/Nm³ .	Precipitator (ES	P) for the Cooler, Bag House to			
	Electrostatic precipitator (ESP) to	for Kiln/Raw Mil	l, Coal Mill & Cement Mill and Bag			
	Cooler, Bag house to Kiln/Raw mill, Bag	Filters for Clin	ker Silo, Ash Silo and Transfe			
	Filter to Coal Mill, Bag Filter to Cement	Points are in pla	ce to control emissions within the			
	Mill etc shall be provided to control air	prescribed norm	is.			
	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	a are being submitted to the			
	submitted to the Ministry's Regional	Ministry's Region	nal Office at Chennai , CPCB and			
	Office at Bangalore , CPCB and Tamil	Tamilnadu Pollut	tion 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	Unloading of Raw Materials	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				
		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					

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S.No	Specific Condition	Compliance Status
	requirement in consultation with the TNPCB and data submitted to the ministry's Regional Office at Bangalore, CPCB and TNPCB.	6 Ambient Air Quality Monitoring Stations (AAQM) have been set up in consultation with the TNPCB and the monitored data is being submitted to the Regional Office of MoEF & CC, Chennai, CPCB and TNPCB.
iv	Total ground water requirement shall not 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 (RO) Plant Rejects shall be neutralized and treated and used for dust suppression and green belt development .No liquid effluent shall be generated and 'Zero' discharge shall be followed. Domestic effluent shell be treated in Sewage Treatment Plant (STP) and utilized for green belt development.	Total ground water requirement is not exceeding 1200 m³/day. The liquid effluent from the existing Captive Power Plant (CPP) viz., Boiler Blow Down, Cooling Tower Blow Down and Reverse Osmosis (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 being followed. 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 from the State Ground Water Board /Central Ground Water Authority shall be obtained.	Ground water Permission obtained from PWD.
vi	Solid Waste viz., Fly Ash and Dust etc from the air pollution control equipments (ESP, Bag House, Bag Filters etc) Shall be properly recycled and reutilized in the process itself for Cement manufacturing. As proposed, Effluent Treatment Plant (ETP) sludge from 8 CETPs in Karur area shall be used in Cement Plant. No solid waste shall be disposed off out side the factory premises. The solid waste from Sewage Treatment Plant (STP) shall be	Solid Waste viz., Fly Ash and Dust etc., from the Air Pollution Control Equipment (ESP, Bag House, Bag Filters etc) are being recycled and reutilized in the respective process. 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 been observed in the quality of both.

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S.No	Specific Condition	Compliance Status					
	composted and used as manure for green belt. Waste oil shall be collected, stored and sold to authorized recyclers/ preprocessors for further treatment and disposal.	No solid waste is disposed outside the factor premises. The solid waste from Sewag Treatment Plant (STP) is being used as manur					
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 a time bound manner.	Complied. Total area of Plant Greenbelt Developed Area 11.6 ha (37.4%) No of Saplings planted 25084					
VIII	All the recommendations mentioned the Corporate Responsibility for Environmental Protection CREP shall be followed and complied.	The recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Cement Plants have 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 the concerned departments including 'No Objection Certificate ' from the Tamilnadu Pollution Control Board shall be obtained prior to commencement of construction and/ or operation.	Consent to Establishment and Consent for Operations have been obtained from Tamilnadu Pollution Control Board prior to commencement of construction and operation respectively.					

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B. General Conditions

S.No	General Condition	Compliance Status					
ı	The project authority shall adhere to the stipulations made by Tamilnadu Pollution Control Board (TNPCB) and State Government.	The stipulations made by Tamilnado Pollution Control Board (TNPCB) and State Government are being complied with.					
ii	No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.	No further expansion or modification of the plant will be carried out without prior approval of this Ministry.					
iii	The gaseous and particulate matter emissions from various units shall conform to the standards prescribed by the T.N. Pollution Control Board. Continuous online monitors for particulate emissions shall be installed in stack. Interlock facility shall be provided in the pollution control equipment so that in the event of the pollution control equipment not working, the respective unit(s) is shut down automatically.	Bag House/ Water Sprinkling and Lov NOx Burner etc., are in place to contro the gaseous and particulate matte emissions within norms.					
iv	Cement grinding shall be carried out in closed system and will have a highly efficient bag filters to control air emissions from Cement Grinding Mill below 50 mg/Nm³.	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.					
V	Ambient Air Quality including Ambient Noise Levels shall not exceed the standards stipulated under EPA or by the State Authorities. Monitoring of Ambient Air Quality and shall be carried out regularly in consultation with TNPCB and data submitted to the	Ambient Air Quality and Ambient Noise Levels are not exceeding the standards stipulated under EPA and the State Authorities. Monitoring of Ambient Air Quality is being carried out regularly and monitored data					

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vi T the house of the second o	repcB and TNPCB regularly. The instruments used for Ambient Air Quality Monitoring shall be calibrated time to time. The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic moods, silencers, enclosures etc. on all nources of noise generation. The Ambient Noise Levels shall conform to the standards prescribed under environmental (Protection)Act 1986, Rules 1989 viz. 75dBA (day time) and no dBA (night time) Rainwater harvesting measures shall be adopted. The company must harvest the rainwater from the rooftops and	is being submitted to the CPCB and TNPCB. The instruments used for Ambient Air Quality Monitoring are being calibrated from time to time. The overall noise levels in the plant area is kept well within the standards (85 dBA) by providing appropriate noise control measures like acoustic hoods, silencers, enclosures etc. for the sources of noise generation and ensuring good maintenance of Equipment & Machinery. The Ambient Noise Levels are conforming to the Standards prescribed under environmental (Protection)Act 1986, Rules 1989 viz. 75 dBA (day time) and 70 dBA (night time). Rainwater harvesting measures like rooftop collection facility, storm water collection facility and sump are available
vi T the house of the second o	Quality Monitoring shall be calibrated ime to time. The overall noise levels in and around he plant area shall be kept well within he standards (85 dBA) by providing noise control measures including acoustic noods, silencers, enclosures etc. on all sources of noise generation. The Ambient Noise Levels shall conform to the standards prescribed under environmental (Protection)Act 1986, Rules 1989 viz. 75dBA (day time) and no dBA (night time)	The instruments used for Ambient Air Quality Monitoring are being calibrated from time to time. The overall noise levels in the plant area is kept well within the standards (85 dBA) by providing appropriate noise control measures like acoustic hoods, silencers, enclosures etc. for the sources of noise generation and ensuring good maintenance of Equipment & Machinery. The Ambient Noise Levels are conforming to the Standards prescribed under environmental (Protection)Act 1986, Rules 1989 viz. 75 dBA (day time) and 70 dBA (night time). Rainwater harvesting measures like rooftop collection facility, storm water
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vii R au th st	Standards prescribed under environmental (Protection)Act 1986, Rules 1989 viz. 75dBA (day time) and ro dBA (night time) Rainwater harvesting measures shall be adopted. The company must harvest	The Ambient Noise Levels are conforming to the Standards prescribed under environmental (Protection)Act 1986, Rules 1989 viz. 75 dBA (day time) and 70 dBA (night time). Rainwater harvesting measures like rooftop collection facility, storm water
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at th st g th	dopted. The company must harvest	rooftop collection facility, storm water
th st g th		
g th co	he rainwater from the rooftops and	collection facility and sump are available
g th co		Committee of the commit
th	torm water drains to recharge the	to harvest rainwater which helps to
co	ground water and use the same water for	recharge the ground water, ensure
	he 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 T	The company shall undertake eco-	The eco-development activities like
d	development measures including	rainwater harvesting campaigns, free-supply
C	community welfare measures in the	of saplings to the nearby community etc.
p	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.

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

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S.No	General Condition	Compliance Status
xiii	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.	As internally accrued funds have been invested for the expansion activities, this portion of the condition is not applicable to us. The expansion activity did not involve any land development work, as few facilities in the plants have been upgraded/replaced.
xiv	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 to the Regional office at Bangalore.	Advertisement in Indian Express (in English) & Dhinamani (in Tamil) published on 30.08.2008 informing the public that the proposed expansion programme has been accorded environmental clearance and a copy of the clearance letter is available with its Tamilnadu Pollution Control Board and also can be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in. Copies of the advertisement submitted to MoEF Regional Office, Bangalore vide our letter CCCLP/PROD/2008/1653 dated 30.08.2008.

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.							



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.	Guidelines noted.				
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.	Guidelines noted.				
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.	Guidelines noted.				

for Chettinad Cement Corporation Private Limited

G.Harikishore

Asst Vice President (Works)



Appendix 2

	Chettinad Ceme	uliyur V					The second second						
	Ambiant Air Quality Mor	nitorin	g- Cor	nsolid	ated	Repor	t (Oc	t '202	2 to	Mar'2	023)		
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	House of top K sureskumar New Kalipalayam -North East	58.5	55.6	56.9	28.3	24.7	26.2	10.4	9.0	9.6	22.6	19.5	20.6
2	Transofffice Buliding Puliyur -North	58.5	54.3	56.4	29.3	23.7	26.7	10.8	8.2	9.4	23.6	20.2	21.8
3	House of top Nagarajan.D Ganeshpuram - North west	58.0	54.8	56.8	27.5	24.9	26.4	10.5	8.9	9.9	20.5	18.6	19.6
4	House of top Gopal Amaravathi Nager - South west	58.0	54.2	56.5	29.1	24.4	27.0	11.0	8.8	10.0	23.6	18.6	20.5
5	House of top Mahiyalagan RM colony -South	59.1	52.6	56.5	28.4	21.8	25.0	10.6	8.5	9.4	21.7	19.5	20.3
6	House of top Velusamy Kalipalayam South East	59.0	50.4	55.7	27.5	21.6	25.4	10.8	9.0	9.8	22.6	20.3	21.8
SAIR	Limit	10	o μg/r	n ³	6	o μg/r	n ³	8	o µg/i	m ³	8	o μg/r	n^3

for Chettinad Cement Corporation Private Limited

G.Hari Kishore

Asst Vice President (Works)



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			Karur Di				- 112	
	Noise Level Monito	oring- Co	nsolidate	ed Report	t (Oct'22	to Mar'2	3)	
S.No	Location	UoM		Day			Night	
			L _{min}	Leq	L _{max}	L _{min}	L _{eq}	L _{max}
		Ambi	ent Nois	Level				HINA
1	House of top K sureskumar New Kalipalayam -North East	dB(A)	50.10	51.87	52.90	40.60	41.00	41.50
2	Transofffice Buliding Puliyur - North	dB(A)	51.50	51.80	52.10	41.60	41.93	42.60
3	House of top Nagarajan.D Ganeshpuram - North west	dB(A)	50.80	51.83	53.30	41.70	42.37	43.40
4	House of top Gopal Amaravathi Nager - South west	dB(A)	51.70	51.90	52.10	41.60	42.70	43.60
5	House of top Mahiyalagan RM colony -South	dB(A)	51.60	52.50	53.50	41.90	42.17	42.60
6	House of top Velusamy Kalipalayam South East	dB(A)	52.00	52.40	52.60	41.10	41.67	42.60
7	Limit (L _{eq})	dB(A)		75			70	COLUMN TO STATE OF THE PARTY OF

for Chettinad Cement Corporation Private Limited

Asst Vice President (Works)



Appendix 4

c					1onitorin							
S. No	Parameter	UoM	GV	V 1	GV	V 2	GV	٧3	GV	V 4	GV	N 5
			Dec '22	Mar '23	Dec '22	Mar '23	Dec '22	Mar '23	Dec '22	Mar '23	Dec '22	Mar '2
1	Total Coliforms	-	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Abser
2	Total Alkalinty as CacO3	mg/l	123	140	149	152	130	132	166	145	209	175
3	Ammonia as N	-	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
4	Mg hardnessas Caco3	mg/l	69	69	78	75	70	68	72	76	70	78
5	P-Alkalinity as CaCO3	mg/l	BDL	BDL	BDL	BDL	BDL.	BDL	BDL	BDL	BDL	BDL
6	Silica as SIO2	mg/l	10	13	12	16	18	11	18	14	14	18
7	TSS	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
8 .	Sodium as Na	mg/l	60	64	69	66	66	58	75	60	56	72
9	Colour	Haz	2.0	2.0	5.0	2.0	5.0	2.0	5.0	2.0	5	2
10	pH	mg/l	7.4	7.36	7.6	7.45	7.12	7.19	7.64	7.22	7.21	7.1
11	TDS	mg/l	480	518	542	560	510	492	569	528	602	629
12	Turbidity	mg/l	0.4	0.5	0.3	0.4	0.3	0.5	0.5	0.2	0.4	0.3
13	Ca hardness CaCo3	mg/l	100	103	110	109	100	92	120	104	120	116
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	139	128	143	148	140	133	158	142	180	150
17	Copper as Cu		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
18	Fluoride as F	mg/l	0.2	0.2	0.2	0.2	0.2	0,2	0.2	0.3	5.0	0.2
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	-11	14	14	18	12	10	18	13	11	15
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	33	36	56	42	60	31	69	43	79+	56
28	Total Hardness as CaCo3	mg/l	169	172	188	184	170	160	192	180	190	194
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	liuvr Village	-West		-	20000	- W. W.	

^{*} BDL - Below Detectable Limit

for Chettinad Cement Corporation Private Limited

G.Hari Kishore 3005 Asst Vice President (Works)



Annendiy 5

	Chettinad Cen	ent Corporat	ion Private	Limited (Puliyur V		ppenax		
		Puliyur, Karu	r District,T	amilNadu					
	Stack Emission Monot					March '20	153)		
S.No	Stack Connected to	Parameter	UoM	Norms	Max	Min	Avg		
1	Raw Mill /Kiln	Particulate Matter			21.1	16.3	19.2		
2	Cooler ESP		The state of the s			23.8	19.2	21.0	
3	Coal Mill			Particulate	200	30	26.8	20.3	23.7
4	Cement MIII-1			mg/Nm ³		27.0	21.3	24.5	
5	Captive Power Plant - Boiler			50	34.5	31.3	33.1		

S.No	Stack Connected to	Parameter	UoM	Norms	Max	Min	Avg
1	Raw Mill /Kiln	SO ₂		100	22.0	10.0	14.6
2	Captive Power Plant - Boiler		mg/Nm ³	600	541.0	317.0	472.2

S.No	Stack Connected to	Parameter	UoM	Norms	Max	Min	Avg
1	Raw Mill/Kiln	NOx		800	412.0	204.0	325.0
	Captive Power Plant - Bolier		mg/Nm ³	450	405.0	112.0	294.2

for Chettinad Cement Corporation Private Limited

G. Clan Chiza G.Hari Kishore 23/01/23 Asst Vice President (Works)

Appendix 6

	Chettinad Cement	Corporation	Private Limit	ed (Puliyu	r Works)	Appendix
	Puliyur	Village ,Karuı	District , Tai	milnadu		
	Treated Industri Consolidat	al & Sewage ed Report (Effluent Qua Oct'2022 to	lity Monito	oring -	
A. Tre	eated Industrial Effluent					
SNo	The second second	UoM	Norms	Max	Min	Avg
1	PH	-	5.5 to 9.0	8.1	7.5	7.9
2	Suspended Solids	mg/litre	100	12.0	6.0	8.3
3	Total Dissolved Solids	mg/litre	2100	1011.0	605.0	953.7
4	Chlorides	mg/litre	1000	211.0	109.0	187.3
5	Sulphates	mg/litre	1000	119.0	47.0	110.0
6	BOD	mg/litre	30	12.0	6.0	9.0
7	COD	mg/litre	250	130.0	40.0	47.0
B. Tre	eated Sewage Effluent - F	actory				47.0
S No	Paramenter	UoM	Norms	Max	Min	Avg
1	PH	-	5.5 to 9.0	7.4	6.8	7.1
2	Total Suspended Solids	mg/litre	30	9.8	6.0	8.2
3	BOD	mg/litre	20	11.0	7.0	8.4
C. Tre	eated Sewage Effluent - C	olony				0.4
S No	Paramenter	UoM	Norms	Max	Min	Avg
1	PH		5.5 to 9.0	7.3	7.0	7.1
2	Total Suspended Solids	mg/litre	30	10.0	5.5	7.0
3	BOD	mg/litre	20	10.0	8.0	9.0

for Chettinad Cement Corporation Private Limited

G.Hari Kishore 21/0/13

Asst Vice President (Works)

