



CC/ENV/TNPCB/2425/15 / 286
22.02.2025

To
Joint Chief Environmental Engineer,
Tamil Nadu Pollution Control Board,
22, SIDCO Industrial Estate,
Thuvakudy,
Trichy – 620015

Dear Sir,

Sub: Submission of Status for the meeting points - JCEE meeting on
22.01.2025 – Reg.

Ref : 1. JCEE Lr No .F.No 0134/17 category/JCEE(M)TNPCB/TRY/2024
dt:08.01.2025
2. DEE Lr No .0329/DEE/TNPCB/ARY/2025 dt:12.02.2025

With reference to the above subject, we here with submit the point wise
action taken report and details are given below.

This is for your kind information and acknowledge.

Thanking you,
For Chettinad Cement Corporation Private Limited


R.P. Muthiah
Vice President [Works]

Copy to: DEE, TNPCB, ARIYALUR

Encl: 1. Status points & Annexures
2. Cement Plant CFO Compliance & Annexures
3. CPP CFO Compliance & Annexures

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Ariyalur Dist - 621707, Tamilnadu, India.
T +91 4329 250009
E : ariyalur@chettinadcement.com
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Chettinad Towers,
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CHETTINAD CEMENT CORPORATION PRIVATE LIMITED, ARIYALUR WORKS
Captive Power Plant – [3 X 15] 45 MW

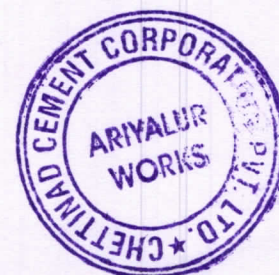
Compliance report for the conditions specified in the consent Order No. 2405257546406 dt. 04/07/2024 under Air Act

Special Additional Conditions:

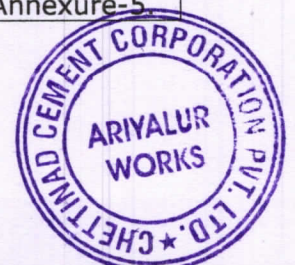
No.	Consent Conditions	Compliance Status
1	The unit shall obtain No Objection Certificate (NOC) from the Tamil Nadu Bio Diversity Board / National Bio Diversity Authority if the unit is using any Biological resources or knowledge associated thereto as per the provisions of Biological Diversity Act 2002.	We are not using any Biological resources or Knowledge associated thereto as per the provisions of Biological Diversity Act 2002. Hence this condition is not Applicable.
2	The industries shall take all efforts to use and popularize "Mission LiFE" logo and mascot which is available in TNPCB & MoEFCC website. They shall also request their employees to adopt "Mission LiFE" action points and document the same and furnish half yearly report to Board.	We have taken efforts to adopt the "Mission LiFE" in our activities life meeting and in our Awareness programs. Every Month "Mission LiFE" pledge has been taken by our entire plant & Mines time in a Common meeting forum. Reports on this activities are enclosed as Annexure-1

Additional Conditions:

No.	Consent Condition	Compliance Status
1	The unit shall operate maintain the Air Pollution Control measures provided to the boilers and the fugitive emission control measures provided in the coal handling system effectively and continuously so as to satisfy the AAQ/Emission standards prescribed by the Board.	We are operating the air pollution control measures efficiently and continuously equipments as listed in the consent order so as to achieve the Ambient Air Quality/Stack Emission standards prescribed by board. Periodical AMC being carried out with the Original equipment manufacturer & Calibration Reports being submitted for every Feb & Aug Month.
2	The unit shall adhere to the standards prescribed for thermal power plant as per MoEF & CC Notification vides S.O 3305 (E) Dt: 07.12.2015 under Environmental (Protection) Amendment Rules, 2015.	We are complying the MoEF & CC Notification vides S.O 3305 (E) Dt: 07.12.2015 under Environmental (Protection) Amendment Rules, 2015. for both Water consumption and Stack emission norms and all are within limit. Water consumption from Apr-24 to Jan-25 is given below as TABLE-A. Stack emission, Jan-2025 monthly environmental monitoring report is enclosed for your kind reference as Annexure-2



3	The unit shall adhere to the Ambient Noise level standards prescribed by the Board.	We have been maintaining the ambient noise levels as prescribed by the board. Noise abatement equipments like acoustic enclosures provided for the Turbines, Silencers provided for the pressure relief valves. Thus keeping the source and ambient noise well within the limit. Jan-2025 monthly environmental monitoring report for Noise survey are enclosed as Annexure-3
4	The unit shall ensure the connectivity of OCEMS for the parameters PM, SO ₂ and NO _x in the boilers stack with Care Air Centre of TNPCB to provide proper data at all times and calibrate the system periodically.	Both CPP1 & 2 common stack and CPP #3 stack analyser parameters like PM, SO ₂ and NO _x are connected with Care Air Centre of TNPCB. Periodical AMC being carried out with the Original equipment manufacturer & Calibration Reports being submitted for every Feb & Aug Month.
5	The unit shall maintain stack monitoring facility as per Emission Regulation Part-3 (ERP-3) norms for the stacks attached with Boiler.	We complied the Emission Regulation Part-3 norms for both CPP1&2 Common Stack and CPP #3 stack.
6	The unit shall ensure that the port hole and ladder facility is safe to carry out monitoring. In place of monkey ladder, spiral type/scaffold ladder shall be provided to ensure safety of monitoring personnel.	The necessary port hole and Step Ladder facilities are available for both CPP1&2 Common Stack and CPP #3 stack for safety monitoring purpose.
7	The unit shall ensure the storage of coal in a closed yard all times and shall not store in the open yard.	We store coal for CPP in the closed coal shed only.
8	The unit shall ensure that the fly-ash and bottom-ash generated from the unit are utilised in cement plant then and there without any accumulation and dumping.	100 % of Fly Ash generated from the Captive Power Plant is used in our Cement Plant located within the same premises for Cement manufacturing. Bottom ash generated in the Captive Power Plant being used for masonry work in place of sand within our plant.
9	The unit shall comply with all the provisions of Fly Ash Notification, 1999 as amended.	We comply the Fly ash notification, 1999 and Annual report for the 2023-24 period was already submitted to board vide our Ir. No. Chettinad Cement/Ariyalur/TN/Fly Ash Annual Returns/2023-24/48 dt. 27.05.2024. Also, monthly reports being periodically uploaded in the https://coalash.cpcb.gov.in/ portal before 5 th of every month. Jan-25 report uploaded screen shot is enclosed as Annexure-4
10	The unit shall continue to develop green belt to attain an area of 33% of the total area with indigenous native tree species and the green belt shall inter-alia cover an entire periphery of the unit.	We are developing green belt in our plant premises and so far planted 61428 trees. Which covering 33.54% of Green belt against the 33% as per Boards Condition. Trees Planted during Apr-2024 to Jan-2025 photos are enclosed as Annexure-5



11	The unit shall liable to pay the consent fee and shall remit the difference in amount in case of any revision of consent fee by the Government.	Condition noted.
12	The unit shall submit Environmental Statement for every financial year ending the 31st March in Form -V as per the Rule 14 of the Environment (Protection) Rules, 1986.	Environmental statement being submitted every financial year ending the 31st March in Form -V as per the Rule 14 of the Environment (Protection) Rules, 1986. Latest submitted report for the period of 2023-24 vide our letter no. is enclosed as Annexure-6
13	This consent order does not absolve from obtaining necessary permission / clearance from other Authority or under other Statute as applicable.	Condition noted.

Table-A: Water Consumption

No	Description	Unit	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25
1	Total raw water	m ³	3806	3729	4288	2954	3222	3313	3303	2518	2918	2817
2	Power Generation gross	MW	1156 7	1228 2	1211 6	1369 0	1326 4	1055 7	1400 5	1230 4	1263 9	1199 4
3	Thermal Power Plant (Water consumption)	m ³ /MW h	0.33	0.3	0.35	0.22	0.24	0.31	0.24	0.2	0.23	0.23



R.P. Muthiah
 Vice President - Works



CHETTINAD CEMENT CORPORATION PRIVATE LIMITED, ARIYALUR WORKS
Captive Power Plant – [3 X 15] 45 MW

Compliance report for the conditions specified in the consent Order No. 2405157546406 dt. 04/07/2024 under Water Act

Special Additional Conditions:

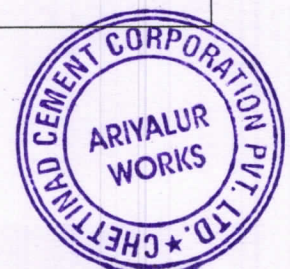
No.	Consent Condition	Compliance Status
1	The unit shall obtain No Objection Certificate (NOC) from the Tamil Nadu Bio Diversity Board / National Bio Diversity Authority if the unit is using any Biological resources or knowledge associated thereto as per the provisions of Biological Diversity Act 2002.	We are not using any Biological resources or Knowledge associated thereto as per the provisions of Biological Diversity Act 2002. Hence this condition is not Applicable.
2	The industries shall take all efforts to use and popularize "Mission LiFE" logo and mascot which is available in TNPCB & MoEFCC website. They shall also request their employees to adopt "Mission LiFE" action points and document the same and furnish half yearly report to Board.	We have taken efforts to adopt the "Mission LiFE" in our activities life meeting and in our Awareness programs. Every Month "Mission LiFE" pledge has been taken by our entire plant & Mines time in a Common meeting forum. Reports on this activities are enclosed as Annexure-1

Additional Conditions:

No.	Consent Condition	Compliance Status
1	The unit shall ensure that the Sewage Treatment Plant provided in cement plant is operated & maintained efficiently and continuously so as to achieve the treated sewage standards prescribed by the Board at all times.	Daily operation and maintenance activities being carried out in the Sewage treatment plant provided in the Cement plant and achieving the standard prescribed by board at all times. Latest Jan-2025 monthly environmental monitoring report for Factory sewage treatment plant is enclosed as Annexure-7
2	The unit shall ensure that the treated sewage is completely utilised for gardening and cooling purposes in cement plant.	Treated sewage being used only for the gardening for green belt development and Cooling purposes in the cement plant.
3	The unit shall operate and maintain the Neutralization Tank provided for the treatment of trade effluent arising from the Boiler Blow down, Cooling tower bleed off and effluent from water treatment plant (RO reject, filter back wash and DM plant regeneration water) efficiently and continuously and utilized for clinker cooling and process gas cooling in preheater.	Neutralisation pit being operated daily and maintained to keep the parameters well within the norms prescribed by the board. Latest Jan-2025 monthly environmental monitoring report for CPP-ETP Neutralisation pit is enclosed as Annexure-8. Neutralised water being used only for the clinker cooling and process gas cooling in the pre heater.



4	The unit shall connect the EMFM provided at the outlet of the Neutralisation Tank to the WQW, TNPCB, Chennai immediately for continuous monitoring.	EMFM provided in the outlet of the Neutralisation tank connectivity to the WQW, TNPCB is under progress with M/s. Ideatec through their IRem software, which will be shortly connected.
5	The unit shall ensure that the OCEMS for the parameters such as pH, TSS & Temperature provided at the outlet of the Neutralisation Tank are calibrated periodically and the same shall be connected to WQW, TNPCB, Chennai at all times for continuous effluent quality monitoring.	We are regularly monitoring and maintaining the Online Monitoring system. All the Online analysers (pH, TSS& Temperature) are calibrated in periodical intervals to get the quality data transmitted to WQW, TNPCB. Previous calibration reports for Feb-24 and Aug-24 were submitted to the board.
6	The unit shall ensure that the generation of sewage and trade effluent shall not exceed the consented quantity.	Sewage generation and trade effluent quantity with in the consented quantity only.
7	The unit shall always comply with the guidelines of MoEF&CC Notification for handling of fly-ash.	We comply the Fly ash notification, 1999 and Annual report for the 2023-24 period was already submitted to board vide our Ir. No. Chettinad Cement/Ariyalur/TN/Fly Ash Annual Returns/2023-24/48 dt. 27.05.2024. Also, monthly reports being periodically uploaded in the https://coalash.cpcb.gov.in/ portal before 5 th of every month. Jan-25 report uploaded screen shot is enclosed as Annexure-4
8	The unit shall not use "use and throw plastics" such as plastic sheets used for food wrapping, spreading on dining table etc., plastic plates, plastic coated tea cups, plastic tumblers, water pouch and packets, plastic straw, plastic carry bags and plastic flags of irrespective thickness within the industry premises. Instead it shall encourage use of eco-friendly such as banana leaf, arecanut palm plate, stainless steel, glass, porcelain plates / cups , cloth bags jute bags etc.,	We will not use and throwaway plastics such as plastic sheets used for food wrapping, spreading on dining table etc. Plastic plates, plastic coated tea cups, plastic tumbler, water pouches and packets, plastic straw, plastic carry bag and plastic flags irrespective of thickness with industry premises. Awareness programme were conducted in our factory & colony area for ban on one time use and throwaway plastics and to encourage eco-friendly alternative such as banana leaf, areca nut palm plate, stainless steel, glass, porcelain plates/cups, cloth bag, jute bag etc. Photos are enclosed as Annexure-9
9	The unit shall liable to pay the consent fee and shall remit the difference in amount in case of any revision of consent fee by the Government.	Condition Noted.



10	The unit shall submit Environmental Statement for every financial year ending the 31st March in Form -V as per the Rule 14 of the Environment (Protection) Rules, 1986.	Environmental statement being submitted every financial year ending the 31st March in Form -V as per the Rule 14 of the Environment (Protection) Rules, 1986. Latest submitted report for the period of 2023-24 vide our letter no. is enclosed as Annexure-6
11	This consent order does not absolve from obtaining necessary permission/clearance from other Authority or under other State as applicable.	Condition Noted.


R.P. Muthiah
Vice President - Works

Annexure-1

LiFE for Environment Pledge during Monthly Open House Meeting



Environment pledge by Eco club team members...



LiFE for Environment for our Colony Residents



LiFE for Environment for our Colony Residents – Bio Gas Generation Awareness



Dated: 12.09.2024 / 142



To
The Head Mistress,
Govt. High School, Varanavasi [Post]
Ariyalur District
PIN - 621704

Kind Attention to Mrs. P. Premavathi

Madam,

Sub: Permission to conduct an awareness program for world Ozone day on
16.09.2024 for 9th & 10th students - requested - reg.

Ref: Our discussion on 10.09.2024

We are pleased to inform you that, we are planning to conduct an Environment Awareness Program at your esteemed school for 9th and 10th-grade students on the occasion of "World Ozone Day 2024". The event is scheduled for Monday, September 16, 2024, from 03:00 to 04:00 PM.

The primary focus of this Environment Awareness program will be on "Environment-Friendly Activities," aimed at empowering students to become future advocates for a sustainable Environment. In addition to the awareness session, we will also be engaging in a sapling plantation activity, where we plan to plant 10 saplings in the school grounds to contribute to green field development.

We hope this initiative will foster a greater sense of environmental responsibility among the students. We look forward to your support and participation in making this event successful.

Please feel free to contact us if you require any further details.

Thank you for your attention and awaiting your cooperation.

Best regards,

for Chettinad Cement Corporation Private Limited,


R. P. Muthiah
Vice President [Works]
 12.9.24

Chettinad Cement Corporation Private Limited
(formerly Chettinad Cement Corporation Limited)
Ariyalur Trichy Road, Keelapalur Post,
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E : ariyalur@chettinadcement.com
www.chettinad.com

Ozone day Pledge



OPPO Reno10 5G
CHEZHIAN | 2024.09.16 16:04



OPPO Reno10 5G
CHEZHIAN | 2024.09.16 15:40



Awareness
Speech
about Banned
Single Use
Plastics
Avoidance



World Environment Day Competitions Appreciation for the Participants

Environment Awareness Speech by Unit Head



Ariyalur Works



Awareness speech delivered by Unit Head



LIFE for Environment - Diwali Awareness among Employees





SMS LABS SERVICES PRIVATE LIMITED



TEST REPORT

TC-6118

Page 1 of 1

Report No : QEN-250122033-11

Report Date : 27 Jan 2025

Customer Name : M/s. CHETTINAD CEMENT CORPORATION PRIVATE LIMITED (Ariyalur - Plant)
 Customer Address : Ariyalur Works, Trichy- Ariyalur Road, Keelapalur, Ariyalur District - 621707.
 Name : Air Sample Received on : 22 Jan 2025
 Sample Description : Stack Emission Test Started on : 22 Jan 2025
 Sample Drawn by : Laboratory Test Completed on : 27 Jan 2025
 Ambient Temperature : 27°C

TEST RESULTS

S.No	Parameters	Test Method	Unit	CPP1 & CPP2 Common Stack	CPP1&CPP2 Common Stack (*Values are corrected in 6% O2 level)	CPCB Norms
1	Stack Attached to	--	--	ESP	--	--
2	Sampling Date	--	--	18.01.2025	--	--
3	Sampling Period	--	Hour	04:30 pm-05:30 pm	--	--
4	Stack Height from GL	--	Meter	97	--	--
5	Sampling Height from GL	--	Meter	27	--	--
6	Stack Diameter	--	Meter	5.1	--	--
7	Stack Temperature	IS 11255 (Part-3)	K	357	--	--
8	Velocity of Gas	EPA Method 1-3	m/sec	10.5	--	--
9	Volume of gas discharged	IS 11255 (Part-3)	Nm ³ /hr	633223	--	--
10	Particulate Matter (PM)	IS 11255 (Part-1)	mg/Nm ³	31.6	32.5*	50 Max
11	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	mg/Nm ³	311	328*	600 Max
12	Nitrogen Oxides (Nox) as NO ₂	SMSLA/EN/SOP/046	mg/Nm ³	272	279*	450 Max
13	Oxygen (O ₂)		%	6.4	--	--
14	Carbon Monoxide (CO)		mg/Nm ³	55	--	--
15	Carbon Dioxide (CO ₂)		%	9.1	--	--
16	Moisture Content	EPA Method 1-3	%	1.9		
17	Mercury (Hg)	EPA Method -29	mg/Nm ³	BLQ(LOQ:0.00002)	--	0.03 Max

Note : BLQ: Below Limit of Quantification LOQ: Limit of Quantification.

Conclusion: The above tested Sample Conforms to the CPCB Standards for the above tested Parameters.

/***** End of the Report *****/

S.Kanimozhi

Authorized Signatory-Chemical

Laboratory Address: 39/6, Thiruvallur High Road, Puduchatram Post, Thirumazhisai Via, Poonamallee Taluk, Chennai - 600124.

Note: Test results relate only to the items tested. Test Report shall not be reproduced in full or part without the approval of SMS Labs. Non-Perishable remnant samples will be disposed 15 days from the date of receipt unless otherwise agreed with the customer except in case of regulatory samples, which will be retained for a specific period as per regulatory requirements; while perishable and environmental remnant samples will be disposed consequently upon completion of testing. Samples are not drawn by laboratory unless or otherwise stated. A satisfactory test report in no way implies that a product so tested is approved by NABL. The Laboratory accepts no liability with regard to the origin or source from which the sample(s) is/ are said to be extracted.



SMS LABS SERVICES PRIVATE LIMITED

TEST REPORT



TC-6118

Page 1 of 1

Report No : QEN-250122033-14

Report Date : 27 Jan 2025

Customer Name : M/s. CHETTINAD CEMENT CORPORATION PRIVATE LIMITED (Ariyalur - Plant)
 Customer Address : Ariyalur Works, Trichy- Ariyalur Road, Keelapalur, Ariyalur District - 621707.
 Name : Air Sample Received on : 22 Jan 2025
 Sample Description : Stack Emission Test Started on : 22 Jan 2025
 Sample Drawn by : Laboratory Test Completed on : 27 Jan 2025
 Ambient Temperature : 29°C

TEST RESULTS

S.No	Parameters	Test Method	Unit	CPP Boiler-3 Stack	CPP Boiler-3 Stack (*Values are corrected in 6% O2 level)	CPCB Norms
1	Stack Attached to	--	--	ESP	--	--
2	Sampling Date	--	--	20.01.2025	--	--
3	Sampling Period	--	Hour	10:20 am-11:20 pm	--	--
4	Stack Height from GL	--	Meter	81	--	--
5	Sampling Height from GL	--	Meter	40	--	--
6	Stack Diameter	--	Meter	3.5	--	--
7	Stack Temperature	IS 11255 (Part-3)	K	357	--	--
8	Velocity of Gas	EPA Method 1-3	m/sec	10.8	--	--
9	Volume of gas discharged	IS 11255 (Part-3)	Nm ³ /hr	305043	--	--
10	Particulate Matter (PM)	IS 11255 (Part-1)	mg/Nm ³	20.2	20.6*	50 Max
11	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	mg/Nm ³	219	224*	600 Max
12	Nitrogen Oxides (Nox) as NO ₂	SMSLA/EN/SOP/046	mg/Nm ³	114	116*	450 Max
13	Oxygen (O ₂)		%	6.3	--	--
14	Carbon Monoxide (CO)		mg/Nm ³	2300	--	--
15	Carbon Dioxide (CO ₂)		%	8.8	--	--
16	Moisture Content	EPA Method 1-3	%	2.3	--	--
17	Mercury (Hg)	EPA Method -29	mg/Nm ³	BLQ(LOQ:0.00002)	--	0.03 Max

Note : BLQ: Below Limit of Quantification LOQ: Limit of Quantification.

Conclusion: The above tested Sample Conforms to the CPCB Standards for the above tested Parameters.

/***** End of the Report *****/

S.Kanimozhi

Authorized Signatory-Chemical

Laboratory Address: 39/6, Thiruvallur High Road, Puduchatram Post, Thirumazhisai Via, Poonamallee Taluk, Chennai - 600124.

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SMS LABS SERVICES PRIVATE LIMITED



TEST REPORT

TC-6118

Report No : QEN-241219004-15

Page 1 of 1
Report Date : 27 Jan 2025

Customer Name : M/s. CHETTINAD CEMENT CORPORATION PRIVATE LIMITED (Ariyalur - Plant)
Customer Address : Ariyalur Works, Trichy- Ariyalur Road, Keelapalur, Ariyalur District - 621707.
Sample Description : Ambient Noise (Day & Night) **Measurement Date** : 18 Jan 2025
Sample Procedure : IS 9989

TEST RESULTS

Sl.No	Location	Noise Level dB(A)						CPCB Standards (Residential Area) For Noise in Leq dB(A)	
		Day Time			Night Time			Day Time	Night Time
		Lmin	Lmax	Avg	Lmin	Lmax	Avg		
1	Keelapalur Village South	51.3	54.2	52.8	40.8	42.9	41.9	55dB(A)	45dB(A)
2	Maravanur Village West	50.6	53.6	52.1	41.3	44.6	43.0		
3	Keelapalur Village East	49.8	52.9	51.4	40.5	43.7	42.1		
4	Thideer Kuppam Village North	50.9	54.0	52.5	40.9	43.6	42.3		

Conclusion : The above tested Sample Conforms to the CPCB Standards for the above tested Locations.

/***** End of the Report *****/

S. Kanimozhi
Authorized Signatory-Chemical

Laboratory Address: 39/6, Thiruvallur High Road, Puduchatram Post, Thirumazhisai Via, Poonamallee Taluk, Chennai – 600124.

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SMS LABS SERVICES PRIVATE LIMITED

TEST REPORT



TC-6118

Page 1 of 1

Report No : QEN-250122033-16

Report Date : 27 Jan 2025

Customer Name : M/s. CHETTINAD CEMENT CORPORATION PRIVATE LIMITED (Ariyalur - Plant)

Customer Address : Ariyalur Works, Trichy- Ariyalur Road, Keelapalur, Ariyalur District - 621707.

Sample Description : Source Noise (Day & Night)

Sample Procedure : IS 9989

Measurement Date : 18 Jan 2025

TEST RESULTS

Sl.No	Location	Noise Level dB(A)						The Tamil Nadu Factories Rules 1950
		Day Time			Night Time			
		Lmin	Lmax	Avg	Lmin	Lmax	Avg	
1	CPP Boundary	68.1	72.3	70.2	62.9	66.4	64.5	85dB(A)
2	Packing Plant Area	66.9	70.6	68.8	60.6	65.3	63.0	
3	Coal Storage Shed	65.8	68.4	67.1	60.4	64.6	62.5	
4	Limestone Circular Stack	67.3	71.4	69.4	63.2	66.1	64.7	

Conclusion : The above tested Sample Conforms to the Tamil Nadu Factories Rules 1950 Standards for the above tested Locations.

/***** End of the Report *****/

S.Kanimozhi

Authorized Signatory-Chemical

Laboratory Address: 39/6, Thiruvallur High Road, Puduchatram Post, Thirumazhisai Via, Poonamallee Taluk, Chennai – 600124.

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Annexure-4

FLY ASH PORTAL MONTHLY UPDATE STATUS: 2024-25

JAN-2025 FILED DT.: 03.02.2025

Success
Successfully updated the records.

Consumer Company Name *	Area of Usage*	Purpose*	Quantity of Utilized Ash (Lakh Metric Tonnes)*	Amount Received by power plant against sale of ash (Rs)	Expenditure borne by power plant (Rs)
Chettinad Cement Corporation	Cement Manufacturing	Production of Cement	0.00408	0	0
Chettinad Cement Corporation	Construction of roads, road and fly over embankment	With in Power Plant	8.2E-05	0	0

Fly Ash Utilization(LMT): 0.00408
 Bottom Ash Utilization(LMT): 0.000002
 Ash Pond Utilization(LMT): 0

Current Fly Ash Stock(LMT): 0
 Current Bottom Ash Stock(LMT): 0
 Current Ash disposed in Pond(LMT): 0

DEC-2024

Success
Successfully updated the records.

Consumer Company Name *	Area of Usage*	Purpose*	Quantity of Utilized Ash (Lakh Metric Tonnes)*	Amount Received by power plant against sale of ash (Rs)	Expenditure borne by power plant (Rs)
Chettinad Cement Corporation	Cement Manufacturing	Production of Cement	0.00431	0	0
Chettinad Cement Corporation	Construction of roads, road and fly over embankment	With in Power Plant	8.6E-05	0	0

Fly Ash Utilization(LMT): 0.00431
 Bottom Ash Utilization(LMT): 0.000006
 Ash Pond Utilization(LMT): 0

Current Fly Ash Stock(LMT): 0
 Current Bottom Ash Stock(LMT): 0
 Current Ash disposed in Pond(LMT): 0

Annexure-5

Green Belt Development report

Details of Greenbelt Development:

Total Plant & Colony Area : 87.21 ha Proposed Greenbelt Area : 29.07 ha
Actual Greenbelt Area : 29.25 ha Saplings planted Apr 24 – Feb 25: 220 nos.
Totally 61428 nos. Saplings planted. 33.54 % As per EC Green belt development completed.

World Environment Day Celebration – 05.06.2024

Sapling Plantation by Unit Head



Plantation Location

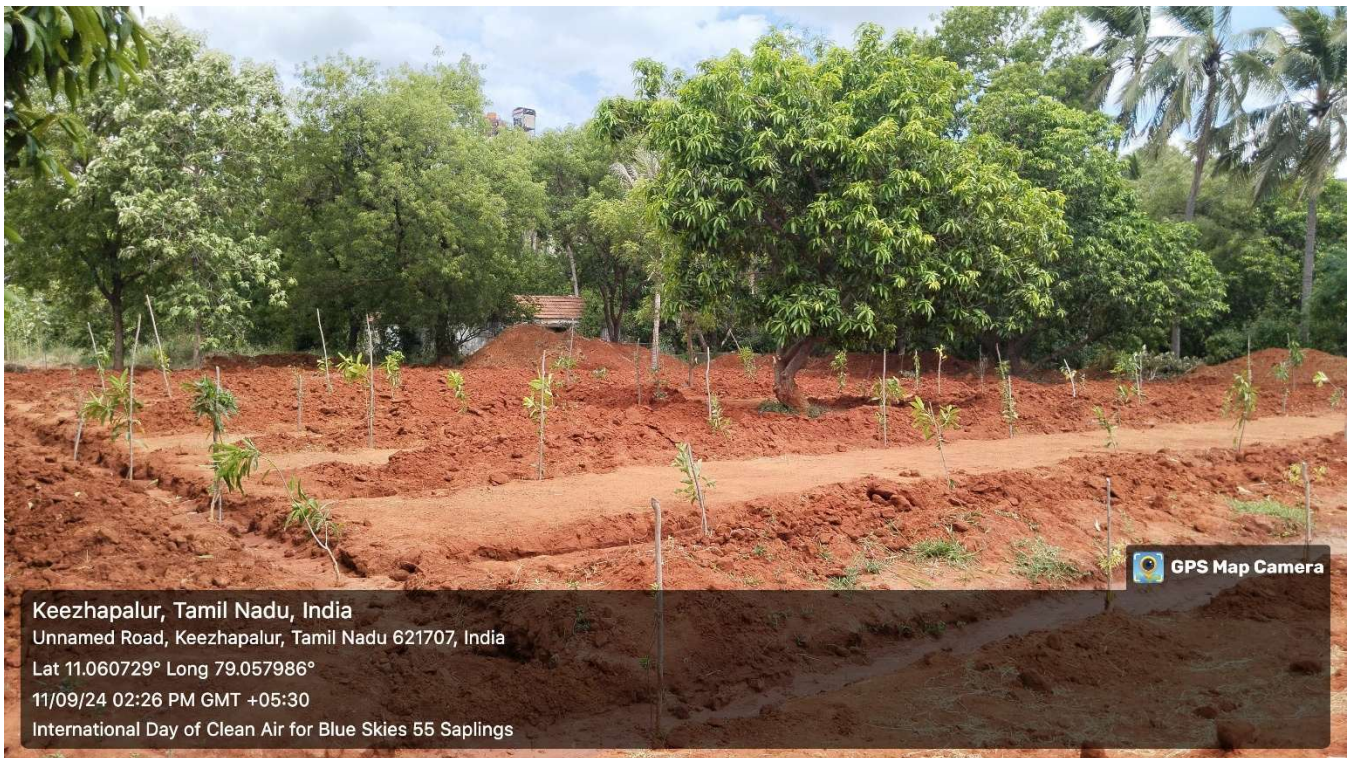


55 nos. of Kodukkapuli saplings planted [Madras Thorn plant or Manila Tamarind]

International day of Clean Air for Blue Skies – 07.09.2024

Theme: Invest in #CleanAirNow

Sapling plantation by Unit Head



Saplings - Mango, Jack Fruit, Pomegranate, Guava totally 55 nos.

World Ozone Day – 16.09.2024
Theme: Montreal Protocol: Advancing Climate Action
Sapling Plantations by Unit Head



Keezhapalur, Tamil Nadu, India
Unnamed Road, Keezhapalur, Tamil Nadu 621707, India
Lat 11.060764° Long 79.058307°
16/09/24 12:12 PM GMT +05:30
World Ozone Day @ 55 Saplings

Saplings - Mango, Lemon, Pomegranate, Guava, Sapodilla, Custard Apple, Jack Fruit totally 55 nos.

Saplings planted by Varanavasi School Children



National Energy Conservation Day – 16.09.2024

Sapling Plantations



🕒 Thursday, February 20 2025, 01:43:06 PM
📍 336C+VMG, Keezhapalur, Tamil Nadu 621707, India
📍 11° 3' 44" N, 79° 4' 25" E -2m
📌 National Energy Conservation Day Tree saplings 55



Saplings – Teak Wood, Vilvamaram & Pungan – 55 nos.

Annexure-5

Green Belt Development report

Details of Greenbelt Development:

Total Plant & Colony Area : 87.21 ha Proposed Greenbelt Area : 29.07 ha
Actual Greenbelt Area : 29.25 ha Saplings planted Apr 24 – Feb 25: 220 nos.
Totally 61428 nos. Saplings planted. 33.54 % As per EC Green belt development completed.

World Environment Day Celebration – 05.06.2024

Sapling Plantation by Unit Head



Plantation Location

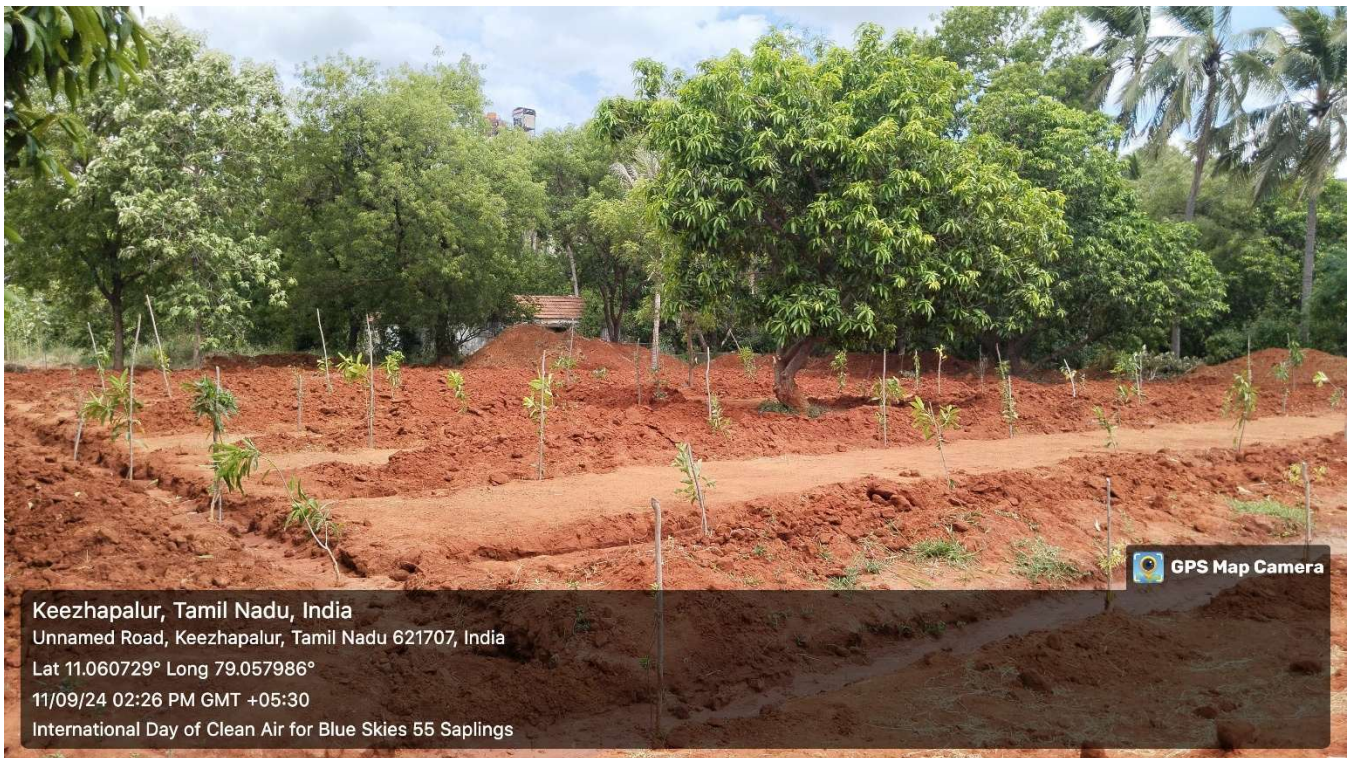


55 nos. of Kodukkapuli saplings planted [Madras Thorn plant or Manila Tamarind]

International day of Clean Air for Blue Skies – 07.09.2024

Theme: Invest in #CleanAirNow

Sapling plantation by Unit Head



Saplings - Mango, Jack Fruit, Pomegranate, Guava totally 55 nos.

World Ozone Day – 16.09.2024
Theme: Montreal Protocol: Advancing Climate Action
Sapling Plantations by Unit Head



Keezhapalur, Tamil Nadu, India
Unnamed Road, Keezhapalur, Tamil Nadu 621707, India
Lat 11.060764° Long 79.058307°
16/09/24 12:12 PM GMT +05:30
World Ozone Day @ 55 Saplings

Saplings - Mango, Lemon, Pomegranate, Guava, Sapodilla, Custard Apple, Jack Fruit totally 55 nos.

Saplings planted by Varanavasi School Children



National Energy Conservation Day – 16.09.2024

Sapling Plantations



🕒 Thursday, February 20 2025, 01:43:06 PM
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📍 11° 3' 44" N, 79° 4' 25" E -2m
📌 National Energy Conservation Day Tree saplings 55



Saplings – Teak Wood, Vilvamaram & Pungan – 55 nos.

Chettinad Cement/Ariyalur/Environmental Statement/CPP /2023-24/ 124

25th Sep, 2024

To
The Member Secretary,
Tamil Nadu Pollution Control Board
76, Anna Salai, Guindy
Chennai – 600 032.

Respected Sir,

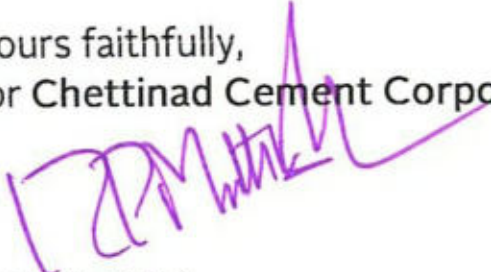
Sub : Submission of Environmental Statement in "Form V" under Environment (Protection) Rules, 1986 for the year 2023-24 - Chettinad Cement Corporation Private Limited, Captive Power Plant, Keelapalur, Ariyalur District, Tamilnadu

We herewith submit the "Environmental Statement" pertaining to our Chettinad Cement Corporation Private Limited - Captive Power Plant, in the prescribed format (Form V) under Environment (Protection) Rules, 1986 for the year 2023-2024.

Kindly acknowledge the receipt of the same.

Thanking you,

Yours faithfully,
for Chettinad Cement Corporation Private Limited


R.P. Muthiah
Vice President [Works]

Copy to :

1. Regional Director CPCB, Chennai
2. Dy. Director General of Forest, IRO, MoEF & CC, Chennai
3. JCEE, TNPCB, Trichy
4. DEE, TNPCB, Ariyalur

FORM - V

(See rule 14 of Environment (Protection) Rules, 1986)

Environmental Statement for the Financial Year ending the 31st March 2024

PART - A

- (i) Name and address of the owner / occupier of the industry operation or process. : R. P. Muthiah,
Vice President [Works]
Chettinad Cement Corporation Private Limited,
Captive Power Plant
Keelapaluvur Village,
Ariyalur District
Tamilnadu
Pincode : 621 707
- (ii) Industry category
Primary (STC Code) : Red Large
Secondary (SIC Code) : 1048-Thermal Power Plant
- (iii) Production Capacity : 45 MW
- (iv) Year of Establishment : 2009
- (v) Date of Last Environment Statement submitted : 27.09.2023

PART - B

Water and Raw Material Consumption

(i) Water Consumption (m³/day)

Process : 67
Cooling : 37
Domestic : 3

Name of the Product	Process water consumption (m ³) per MW of Product Output	
	During the Previous Financial Year (2022-2023)	During the Current Financial Year (2023-2024)
Power	0.194	0.162

(ii) Raw Material Consumption

Name of the Raw Material	Name of the Product	Consumption of Raw Material (metric ton) per mw of Output	
		During the Previous Financial Year (2022-2023)	During the Current Financial Year (2023-2024)
(1) Fuel -Total	Power	0.597	0.586
Split up:			
Imported coal		0.501	0.580
Indian Coal		0.0	0.0
Others [Lignite]		0.072	0.0
AFR Fuel	0.024	0.006	

Alternate Fuels & Raw Materials :

Alternate Fuel	Total Quantity in MT	
	During the Previous Financial Year (2022-2023)	During the Current Financial Year (2023-2024)
(a) Rice Husk	3357	898

PART - C

Pollution Discharged to Environment / Unit of output (Parameter as specified in the Consent issued)

Pollutant	Quantity of Pollutant Discharged (mass/day) (kg/day)	Concentrations of Pollutants in Discharges (Mass/volume) Mg/litre except pH	Percentage of variation from prescribed standards with reasons
(a) Water			
pH	Not Applicable	7.8	Less than Norm
TDS	28.50	1369	Compared to Norm Less by 34.8 %
TSS	0.37	18	Compared to Norm Less by 84.5 %
BOD	0.13	8	Compared to Norm Less by 89.4 %
COD	0.85	41	Compared to Norm Less by 83.7 %
Chloride	8.62	414	Compared to Norm Less by 58.6%
Sulphate	5.31	255	Compared to Norm Less by 74.5 %

Pollutant	Quantity of Pollutant Discharged (mass/day) (kg/day)	Concentrations of Pollutants in Discharges (Mass/volume) mg/Nm ³	Percentage of variation from prescribed standards with reasons
(b) Air			
PM	211	21.2	Compared to Norm Less by 57.6 %
SO ₂	2565	257.2	Compared to Norm Less by 57.1 %
NOx	1418	142.2	Compared to Norm Less by 68.4 %

PART – D

Hazardous Wastes

(As specified under [Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2016])

Hazardous Waste		Total Quantity Generated in MT	
		During the Previous Financial Year (2022-2023)	During the Current Financial Year (2023-2024)
(a)	From Process Used Oil (Category No 5.1)	1.34	0.0
(b)	From Pollution Control Facilities	NIL	NIL

PART – E

Solid Wastes

Solid Waste		Total Quantity in metric tons	
		During the Previous Financial Year (2022-2023)	During the Current Financial Year (2023-2024)
(a)	From Process:	NIL	NIL
(b)	From Pollution Control Facilities- Generated		
	a. STP Sludge	Nil	
	b. Fly Ash	9621.32	
	c. Bottom Ash	192.49	
(c)	1. Quantity recycled or re-utilized within the unit		
	a. STP Sludge	Nil	
	b. Fly Ash	9621.32	
	c. Bottom Ash	192.49	
	2. Sold		
	a. STP Sludge	NIL	NIL
	b. Fly Ash	NIL	NIL
	c. Bottom Ash	NIL	NIL
	3. Disposed		
	a. STP Sludge	NIL	NIL
	b. Fly Ash	NIL	NIL
	c. Bottom Ash	NIL	NIL

PART – F

Please specify the characterizations (in terms of composition of quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes

Name of the Waste		Quantity	Characteristics	Disposal Practice Adopted
(1)	Hazardous Waste Used / Spent Oil (Category No.5.1)	Opening Stock (01.04.2023) : 0.0 Tons Generation (Apr'23-Mar'24): 0.0 Tons Disposal/Consumption (Apr'23-Mar'24): 0.0 Tons Closing Stock (31.03.2024) : 0.0 Tons	Waster Oil containing 6000-8000 kcal/Kg of GCV and Less than 5ppm of Cd+Cr+Ni	NIL
(2)	Solid Waste Fly Ash	Opening Stock (01.04.2023) : Nil Generation (Apr'23-Mar'24): 9621.32 tons Consumption In Cement Plant (Apr'23-Mar'24): 9621.32 tons Closing Stock (31.03.2024) : Nil	Solid Containing SiO ₂ : 70-80%, Fe ₂ O ₃ : 2-5 % LOI : 4 -6 % Al ₂ O ₃ : 18-30%	100 % of Fly ash is used in our Cement plant located within the same premises for cement production
(3)	Solid Waste Bottom Ash	Opening Stock (01.04.2023) : NIL Generation (Apr'23-Mar'24): 192.49 tons Consumption In Cement Plant (Apr'23-Mar'24): 192.49 tons Closing Stock (31.03.2024) : NIL	Solid, Its contains SiO ₂ : 25-35%, Fe ₂ O ₃ : 2-3% LOI : 10-15% K ₂ O+Na ₂ O: <1%	100% reused within the premises (replacement of Boiler bed materials, used as sand for masonry works)

PART – G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production

- Specific water consumption reduced from 0.282 tons to 0.194 tons per mw of Power Generation.
- 9621.32 Ton of Captive power plant Fly ash reused in the cement plant.
- 898 MT of Rice Husk used as Alternate fuels in the Boiler.

PART – H

Additional measures / investment proposal for environmental protection including abatement of pollution, prevention of pollution

Investment Proposal for Environmental Protection for the year 2024-25

- Rs. 15.0 Lakhs for Air Pollution Control Measures which will include replacement of Bag Filters & ESP Maintenance etc.,
- Rs 3.0 Lakhs for Water Pollution Control Measures which include replacement of equipments, spares and maintenance etc.

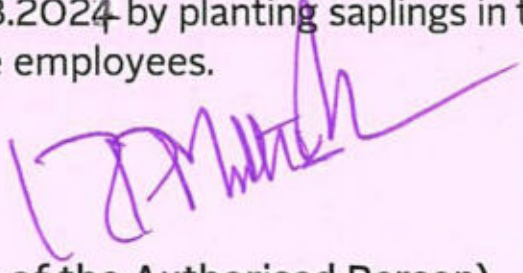
PART – I

Any other particulars for improving the quality of environment

- ❖ Maintenance of Pollution Control Equipment/ETP to ensure effective and efficient operation of the same, costing Rs. 5.8 Lakhs
- ❖ Environmental Monitoring costing Rs 5.52 Lakhs to assess the effectiveness of Pollution Control Measures and initiate required action, if any required.
- ❖ Quality Management System (ISO 9001), Environmental Management System (ISO 14001) and Occupational Health & Safety Management System (ISO 45001) are in place to ensure that all operations are carried out in compliance with international standards.
- ❖ We created awareness among our employees by giving “Life Style for Environment” on the topic of “Ban Plastic” in the plant area on 23.05.2023
- ❖ We celebrated World Environment day-2023 on 05.06.2023 theme “Beat Plastic Pollution” by planting saplings and created awareness among employees.
- ❖ Tree sapling plantation done in our unit by District Forest Officer, Green Tamil Nadu Mission to celebrate Former Chief Minister Century Event on 03.08.2023
- ❖ We celebrated International Day of Clean Air for Blue Skies - 2023 on 07.09.2023 theme “Together for Clean Air” by planting saplings and created awareness among employees.
- ❖ We Celebrated World Ozone Day-2023 on 16.09.2023, theme “Montreal Protocol: fixing the ozone layer and reducing climate change, by planting saplings and created awareness among employees.

- ❖ Deepavali Awareness on Air & Noise Pollution caused by Bursting of Crackers – 2023 given to our Colony residents and Employees on 09.11.2023 as per the “Compliance of Hon’ble Supreme Court Order dt. 23.10.208 in W.P.(C) No. 728 of 2015”
- ❖ National Energy Conservation day 2023 celebrated on 14.12.2023 by planting saplings in the plant premises and created awareness among the employees.
- ❖ National Safety Week - 2024 celebrated on 15.03.2024 by planting saplings in the plant premises and created awareness among the employees.

Place : Keelapalur
Date : 26.09.2024


(Signature of the Authorised Person)
Name : R.P. Muthiah
Designation : Vice President (Works)

gresh



SMS LABS SERVICES PRIVATE LIMITED

TEST REPORT



TC-6118

Page 1 of 1

Report No : QEN-250122033-17 to 18

Report Date : 27 Jan 2025

Customer Name : M/s. CHETTINAD CEMENT CORPORATION PRIVATE LIMITED (Ariyalur - Plant)
Customer Address : Ariyalur Works, Trichy- Ariyalur Road, Keelapalur, Ariyalur District - 621707.
Name : Water **Sample Quantity** : 5 Ltr +100 mL Each
Sample Description : STP Water **Sampling Date** : 21 Jan 2025
Sample Location : Factory STP Area **Sample Received on** : 22 Jan 2025
Sample Drawn by : Laboratory **Test Started on** : 22 Jan 2025
Sample Procedure : SMSLA/EN/SOP/001 **Test Completed on** : 27 Jan 2025


TEST RESULTS

S.No	Parameters	Test Method	Unit	STP Water		TNPCB Norms
				Inlet	Outlet	Outlet
Physical						
1.	pH @ 25°C	APHA 23 rd Edition:4500 H ⁺ B	--	7.05	7.19	6.5 – 9.0
2.	Total Dissolved Solids	APHA 23 rd Edition:2540 C	mg/L	1340	1210	--
3.	Total Suspended solids	APHA 23 rd Edition:2540 D	mg/L	108	17	100 Max
Chemical						
4.	Chloride as Cl	APHA 23 rd Edition:4500 ClB	mg/L	417	305	--
5.	Sulphate as SO ₄	APHA 23 rd Edition:4500 SO ₄ E	mg/L	121	103	--
6.	Oil & Grease	APHA 23 rd Edition:5520	mg/L	BLQ (LOQ:4.0)		--
7.	Biochemical Oxygen Demand @27°C for 3days	IS 3025 (Part-44)	mg/L	60	11	30 Max
8.	Chemical Oxygen Demand	APHA 23 rd Edition:5220 B,C	mg/L	269	49	--
9.	Total Nitrogen as N	SMSLA/EN/SOP/052	mg/L	31	5.1	--

Note : BLQ: Below Limit of Quantification LOQ: Limit of Quantification.

Remarks: The STP Outlet Water Sample Conforms to the TNPCB Discharge limit for the Parameters tested above.

/***** End of the Report *****/


S.Kanimozhi
 Authorized Signatory-Chemical

Laboratory Address: 39/6, Thiruvallur High Road, Puduchatram Post, Thirumazhisai Via, Poonamallee Taluk, Chennai – 600124.

Note: Test results relate only to the items tested. Test Report shall not be reproduced in full or part without the approval of SMS Labs. Non-Perishable remnant samples will be disposed 15 days from the date of receipt unless otherwise agreed with the customer except in case of regulatory samples, which will be retained for a specific period as per regulatory requirements; while perishable and environmental remnant samples will be disposed consequently upon completion of testing. Samples are not drawn by laboratory unless or otherwise stated. A satisfactory test report in no way implies that a product so tested is approved by NABL. The Laboratory accepts no liability with regard to the origin or source from which the sample(s) is/ are said to be extracted.



SMS LABS SERVICES PRIVATE LIMITED

TEST REPORT



TC-6118

Page 1 of 1

Report No : QEN-250122033-22

Report Date : 27 Jan 2025

Customer Name : M/s. CHETTINAD CEMENT CORPORATION PRIVATE LIMITED (Ariyalur - Plant)
Customer Address : Ariyalur Works, Trichy- Ariyalur Road, Keelapalur, Ariyalur District - 621707.
Name : Water **Sample Quantity** : 5 Ltr x 1 No
Sample Description : Neutralization Pit Water **Sampling Date** : 21 Jan 2025
Sample Drawn by : Laboratory **Sample Received on** : 22 Jan 2025
Sample Procedure : SMSLA/EN/SOP/001 **Test Started on** : 22 Jan 2025
Sample Location : CPP-WTP **Test Completed on** : 27 Jan 2025

TEST RESULTS

S.No	Parameters	Test Method	Unit	Neutralization Pit	TNPCB Norms
				Water	Outlet
Physical					
1.	pH @ 25°C	APHA 23 rd Edition:4500 H*B	--	7.21	5.5 – 9.0
2.	Total Dissolved Solids	APHA 23 rd Edition:2540 C	mg/L	1810	2100 Max
3.	Total Suspended solids	APHA 23 rd Edition:2540 D	mg/L	26	100 Max
Chemical					
4.	Chloride as Cl	APHA 23 rd Edition:4500 Cl B	mg/L	351	1000 Max
5.	Oil & Grease	APHA 23 rd Edition:5520	mg/L	BLQ (LOQ:4.0)	10 Max
6.	Biochemical Oxygen Demand @27°C for 3days	IS 3025 (Part-44)	mg/L	14	30 Max
7.	Chemical Oxygen Demand	APHA 23 rd Edition:5220 B,C	mg/L	63	250 Max
8.	Sulphate as SO ₄	APHA 23 rd Edition:4500 SO ₄ E	mg/L	147	1000 Max

Note : BLQ : Below Limit of Quantification LOQ: Limit of Quantification.

Remarks : The Neutralization Pit Water Sample Conforms to the TNPCB Discharge limit for the Parameters tested above.

/***** End of the Report *****/

S.Kanimozhi

Authorized Signatory-Chemical

Laboratory Address: 39/6, Thiruvallur High Road, Puduchatram Post, Thirumazhisai Via, Poonamallee Taluk, Chennai – 600124.

Note: Test results relate only to the items tested. Test Report shall not be reproduced in full or part without the approval of SMS Labs. Non-Perishable remnant samples will be disposed 15 days from the date of receipt unless otherwise agreed with the customer except in case of regulatory samples, which will be retained for a specific period as per regulatory requirements; while perishable and environmental remnant samples will be disposed consequently upon completion of testing. Samples are not drawn by laboratory unless or otherwise stated. A satisfactory test report in no way implies that a product so tested is approved by NABL. The Laboratory accepts no liability with regard to the origin or source from which the sample(s) is/ are said to be extracted.

Compliance of Notification published by MoEF&CC on 12.08.2021
Single Use Plastic Ban Awareness Board installed by our Plant



Plant Main Road

Plant Gate Entrance



Colony Entrance Gate



Limestone Entrance Gate



Single Use Plastic Ban Awareness in our Plant – Life for Environment



Chettinad cement
Ariyalur Works
International Plastic Bag Free Day
3rd July 2024
Encourage individuals, businesses, and organizations to adopt sustainable alternatives.
தனிநபர்கள், வணிகங்கள் மற்றும் நிறுவனங்களை ஓர் தரக்கொள்ள ஊக்குவிக்கவும் நிலையான மாற்றுகள்.
If you are **FANTASTIC**, then do something **DRASTIC** to cut off **PLASTIC**
#BeatPlasticPollution
If you can't reuse it, refuse it
INTERNATIONAL PLASTIC BAG FREE DAY

