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CONSENT ORDER NO. 2004129421491

DATED: 28/01/2020.

PROCEEDINGS NO.T2/TNPCB/F.0658ARY/RS/ARY/W/2020 DATED: 28/01/2020

SUB: Tamil Nadu Pollution Control Board –CONSENT TO OPERATE –After CTE -M/s. CHETTINAD CEMENT CORPORATION PRIVATE LIMITED PERIYATHIRUKONAM LIMESTONE MINES , S . F . N o . S F N O S . O F 153/16,153/17,153/18,153/19,153/20,160/11,160/12,160/13A,160/13B,160/13C,161/4B,161/5,161/6 , 161/7,161/8,161/9,161/10,161/15,162/1,162/2,162/3A,162/3B,162/4A,162/6A,162/6B,162/6C,162/7, 1 6 4 / 1 2 F , 1 6 4 / 1 3 A , 1 6 4 / 1 3 B , 1 6 4 / 1 4 A , 1 6 4 / 1 4 B , 1 6 4 / 1 5 A , 1 6 4 / 1 5 B , 1 6 4 / 1 5 C , 1 6 4 / 1 6 A , 1 6 4 / 1 6 B , 1 6 4 / 1 6 C , 164/16D,164/16E,164/16F,165/1,165/2,165/3A,165/3B,165/3C,165/3D,165/4A,165/4B,165/4C, 165/5,165/6,165/7A,165/7B,165/8A,165/8B,165/8C,165/8D,165/8E,165/8F,165/9A, 165/9B, 1 6 5 / 1 0 B , 1 6 5 / 1 0 C , 1 6 5 / 1 1 A , 1 6 5 / 1 1 B , 1 6 5 / 1 1 C , 1 6 5 / 1 1 D , 1 6 5 / 1 2 , 1 6 5 / 1 3 A , 1 6 5 / 1 3 B , 1 6 5 / 1 4 , 1 6 5 / 1 5 , 165/16,165/17,165/20,165/21A,165/21B,165/22,165/23,166/1,166/2A,166/2B,166/2C,166/2D,166/2 E 166/3,166/4,166/5,166/6A,166/6B,166/6C,166/7,166/8,166/9,166/10A,166/10B,166/11,166/12,166/ 1 6 6 / 1 4 A , 1 6 6 / 1 4 B , 1 6 6 / 1 5 A , 1 6 6 / 1 5 B , 1 6 6 / 1 5 C , 1 6 6 / 1 6 A , 1 6 6 / 1 6 B , 1 6 6 / 1 6 C , 1 6 6 / 1 7 A , 1 6 6 / 1 7 B , 1 6 6 / 1 8 A 166/18B,166/18C,166/18D,166/18E,166/18F,166/18G,166/18H,166/18I,167/1,167/2A,167/2B,167/2 C 167/2D,167/3,167/4,167/5,167/6,168/1A,168/1B,168/2A,168/2B,168/3,168/4A,168/4B,168/5A,168/ 5 168/6,168/7A,168/7B,168/8,168/9,168/11A,168/11B,168/12A,168/12B,168/12C,168/13A,168/13B, 168/13C,168/13D,168/14,168/16A,168/16D,169/1A,169/1B,169/1C,169/1D,169/1E,169/2,169/3,169 / 4 169/5,169/6A,169/6B,169/7A,169/7B,169/9,169/10,169/11,169/12,169/13,170/1A,170/1B,170/2,170 / 3 , 1 7 0 / 4 , 1 7 0 / 5 A , 1 7 0 / 5 B , 1 7 0 / 5 C , 1 7 0 / 5 D , 1 7 0 / 5 E , 1 7 0 / 6 A , 1 7 0 / 6 B , 1 7 0 / 6 C , 1 7 0 / 7 , 1 7 0 / 8 , 1 7 0 / 9 A , 1 7 0 / 9 B , 170/10A,170/10B,170/11,170/12,170/13,170/14, 170/15,170/16,170/17A,170/17B,170/17C, 170/18A,170/18B,170/19,170/20,170/21,170/22,170/23,170/24,170/25,170/26,170/27,170/28,170/31 , 170/32A,170/32B,170/32C,170/32D,170/32E,170/32F,172/2,172/3,172/4,172/6A,172/6B,172/6C,17 2/6D,172/7A,172/7B,172/8,172/9,172/10,172/11, 172/12,172/13,172/14A,172/14B,172/15,172/16A, 172/16B,172/17,172/18,172/19,172/20,172/21,172/22,172/23,172/24,172/25,172/26,172/27,172/28, 174/1,174/2,174/3,174/4,177/2,177/3,177/4,177/5,177/6,177/7,177/9,177/10,177/11,177/12,177/13, 177/14,177/15,177/16A,177/16B,177/17,177/18,177/19, 177/20,177/21,177/22A,177/22B, 177/23,177/24,177/25,177/26,177/27,177/28,177/29,177/30, 178/1A,178/1B,178/1C,178/2A, 178/11,178/12C,178/13A,178/13B,178/13C PERIYATHIRUKONAM VILLAGE., PERIYATHIRUKONAM villageAriyalur Taluk and Ariyalur District - Consent for the operation of the plant and discharge of sewage and/or trade effluent under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974 as amended in 1988 (Central Act 6 of 1974) – Issued- Reg.

- REF:** 1. CTE proceeding No.:T2/TNPCB/F.0658ARY/RS/ARY/W&A/2019 dated 18/10/2019
2. Unit's application for CTO on 31/10/2019 and resubmitted on 23/12/2019
3. DEE's IR.No: F.0658ARY/RS/DEE/ARY/2019 dated 03/12/2019.
4. Board's (CCC) Resolution No. 265-03 dated: 07/01/2020.

CONSENT TO OPERATE is hereby granted under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974 as amended in 1988 (Central Act, 6 of 1974) (hereinafter referred to as "The Act") and the rules and orders made there under to

Mines Agent,
M/s . CHETTINAD CEMENT CORPORATION PRIVATE LIMITED PERIYATHIRUKONAM LIMESTONE

MINES

S.F No.SF NOS. OF

153/16,153/17,153/18,153/19,153/20,160/11,160/12,160/13A,160/13B,160/13C,161/4B,161/5,161/6,
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162/9,162/10,162/11A,162/11B,163/1,163/2A,163/2B,163/2C,163/3,163/4,163/5,163/6,163/9,
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164/16D,164/16E,164/16F,165/1,165/2,165/3A,165/3B,165/3C,165/3D,165/4A,165/4B,165/4C,
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177/14,177/15,177/16A,177/16B,177/17,177/18,177/19, 177/20,177/21,177/22A,177/22B,
177/23,177/24,177/25,177/26,177/27,177/28,177/29,177/30, 178/1A,178/1B,178/1C,178/2A,
178/11,178/12C,178/13A,178/13B,178/13C PERIYATHIRUKONAM VILLAGE.,

PERIYATHIRUKONAM Village,
Ariyalur Taluk,
Ariyalur District.

Authorising the occupier to make discharge of sewage and /or trade effluent.

This is subject to the provisions of the Act, the rules and the orders made there under and the terms and conditions incorporated under the Special and General conditions stipulated in the Consent Order issued earlier and subject to the special conditions annexed.

This CONSENT is valid for the period ending March 31, 2024

K.
Gokuladas

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by K. Gokuladas
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For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

To
Mines Agent,
M/s.CHETTINAD CEMENT CORPORATION PRIVATE LIMITED PERIYATHIRUKONAM LIMESTONE MINES,
CHETTINAD CEMENT CORPORATION PRIVATE LIMITED,
4TH FLOOR, RANI SEETHAI HALL BUILDING,
603, ANNA SALAI, CHENNAI.,
Pin: 600006

- Copy to:**
- 1.The Commissioner, ARIYALUR-Panchayat Union, Ariyalur Taluk, Ariyalur District .
 - 2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, ARIYALUR.
 - 3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Triuchirappalli.
 - 4. File

SPECIAL CONDITIONS

- 1. This consent to operate is valid for operating the facility for the manufacture of products (Col. 2) at the rate (Col. 3) mentioned below. Any change in the products and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Sl. No.	Description	Quantity	Unit
Product Details			
1.	Mining of Limestone(174305 Tonnes) and Marl(26412 Tonnes) over an extent of 32.295 Hectares - 1st Year	0.2007	MTPA
2.	Mining of Limestone(393097 Tonnes) and Marl(107258 Tonnes) over an extent of 32.295 Hectares – 2nd Year	0.5004	MTPA
3.	Mining of Limestone(429933 Tonnes) and Marl(69700 Tonnes) over an extent of 32.295 Hectares – 3rd Year	0.4996	MTPA
4.	Mining of Limestone(398973 Tonnes) and Marl(99831 Tonnes) over an extent of 32.295 Hectares – 4th Year	0.4988	MTPA
5.	Mining of Limestone(478094 Tonnes) and Marl(22170 Tonnes) over an extent of 32.295 Hectares – 5th Year	0.5003	MTPA
6.	Mining of Limestone an extent of 32.295 hectares for the period of 5 years	1874401	Tonnes
7.	Mining of Marl an extent of 32.295 hectares for the period of 5 years	325371	Tonnes
By-Product Details			
1.	NO BY PRODUCT	0	0
Intermediate Product Details			
1.	NO INTERMEDIATE PRODUCT	0	0

2. This consent to operate is valid for operating the facility with the below mentioned permitted outlets for the discharge of sewage/trade effluent. Any change in the outlets and the quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Outlet No.	Description of Outlet	Maximum daily discharge in KLD	Point of disposal
Effluent Type : Sewage			
1.	SEWAGE	1.2	On Industrys own land
Effluent Type : Trade Effluent			

3. The effluent discharge shall not contain constituents in excess of the tolerance Limits as laid down hereunder.

Sl. No.	Parameters	Unit	TOLERANCE LIMITS - OUTLETS -Nos				
			Sewage		Trade Effluent		
			1	-	-	-	-
1.	pH		5.5 to 9				
2.	Temperature	oC	-				
3.	Particle size of Suspended solids	-	-				
4.	Total Suspended Solids	mg/l	30				
5.	Total Dissolved solids (inorganic)	mg/l	-				
6.	Oil & Grease	mg/l	-				
7.	Biochemical Oxygen Demand (3 days at 27oC)	mg/l	20				
8.	Chemical Oxygen Demand	mg/l	-				
9.	Chloride (as Cl)	mg/l	-				
10.	Sulphates (as SO4)	mg/l	-				
11.	Total Residual Chlorine	mg/l	-				
12.	Ammonical Nitrogen (as N)	mg/l	-				
13.	Total Kjeldahl Nitrogen (as N)	mg/l	-				
14.	Free Ammonia (as NH3)	mg/l	-				
15.	Arsenic (as As)	mg/l	-				
16.	Mercury (as Hg)	mg/l	-				
17.	Lead (as Pb)	mg/l	-				
18.	Cadmium(as Cd)	mg/l	-				
19.	Hexavalent Chromium (as Cr+6)	mg/l	-				
20.	Total Chromium (as Cr)	mg/l	-				
21.	Copper (as Cu)	mg/l	-				
22.	Zinc (as Zn)	mg/l	-				
23.	Selenium (as Se)	mg/l	-				
24.	Nickel (as Ni)	mg/l	-				
25.	Boron (as B)	mg/l	-				
26.	Percent Sodium	%	-				
27.	Residual Sodium Carbonate	mg/l	-				
28.	Cyanide (as CN)	mg/l	-				
29.	Fluoride (as F)	mg/l	-				
30.	Dissolved Phosphates(as P)	mg/l	-				
31.	Sulphide (as S)	mg/l	-				
32.	Pesticides	mg/l	-				
33.	Phenolic Compounds (as C6H5OH)	mg/l	-				
34.	Radioactive materials a) Alpha emitters	micro curie/ml	-				
35.	Radioactive materials b). Beta emitters	micro curie/ml	-				
36.	Fecal Coliform	MPN/100ml	-				

4. All units of the sewage and Trade effluent treatment plants shall be operated efficiently and continuously so as to achieve the standards prescribed in Sl No.3 above or to achieve the zero liquid discharge of effluent as applicable.

5. The occupier shall maintain the Electro Magnetic Flow Meters/water Meters installed at the inlet of the water supply connection for each of the purposes mentioned below for assessing the quantity of water used and ensuring that such meters are easily accessible for inspection and maintenance and for other purposes of the Act.
 - a. Industrial Cooling, Spraying in mine pits or boiler feed.
 - b. Domestic purpose.
 - c. Process.
6. The occupier shall maintain the Electro Magnetic Flow Meters with computer recording arrangement for measuring the quantity of effluent generated and treated for the monitoring purposes of the Act.
7. Log book for each of the unit operations of ETP have to be maintained to reflect the working condition of ETP along with the readings of the Electro Magnetic Flow Meters installed to assess effluent quantity and the same shall be furnished for verification of the Board officials during inspection.
8. The occupier shall at his own cost get the samples of effluent/surface water/ground water collected in and around the unit by Board officials and analyzed by the TNPC Board Laboratory periodically.
9. Any upset condition in any of the plants of the factory which is, likely to result in increased effluent discharge and result in violation of the standards mentioned in Sl. No.3 above shall be reported to the Member Secretary / Joint Chief Environmental Engineer-Monitoring and the concerned District/Assistant Environmental Engineer of the Board by e-mail immediately and subsequently by Post with full details of such upset condition.
10. The occupier shall always comply and carryout the order/directions issued by the Board in this Consent Order and from time to time without any negligence. The occupier shall be liable for action as per provisions of the Act in case of non compliance of any order/directions issued.
11. The occupier shall develop adequate width of green belt at the rate of 400 numbers of trees per Hectare.
12. The occupier shall provide and maintain rain water harvesting facilities.
13. The occupier shall ensure that there shall not be any discharge of effluent either treated or untreated into storm water drain at any point of time.
14. In the case of zero liquid discharge of effluent units, the occupier shall adhere the following conditions as laid under.
 - i). The occupier shall ensure zero liquid discharge of effluent, thereby no discharge of untreated / treated effluent on land or into any water bodies either inside or outside the premises at any point of time.
 - ii) The occupier shall operate and maintain the Zero liquid discharge treatment components comprising of Primary, Secondary and tertiary treatment systems at all times and ensure that the RO permeate/Evaporator condensate shall be recycled in the process and the final RO reject shall be disposed off with the reject management system ensuring zero liquid discharge of effluents in the premises.
 - iii) The occupier shall operate and maintain the reject management system effectively and recover the salt from the system which shall be reused in the process if reusable or shall be disposed off as ETP sludge.
 - iv) In case of failure to achieve zero discharge of effluents for any reason, the occupier shall stop its production and operations forthwith and shall be reported to the Member Secretary/Joint Chief Environmental Engineer-Monitoring and the concerned District/Assistant Environmental Engineer of the Board by e-mail immediately and subsequently by Post with full details of such upset condition.
 - v) The occupier shall restart the production only after ascertaining that the Zero discharge treatment system can perform effectively for achieving zero discharge of effluents.

Additional Conditions:

1. The unit shall treat and dispose the sewage generated from the unit through septic tank followed by soak pit.
2. The unit shall comply with all the conditions mentioned in the Environmental Clearance issued by State Environment Impact Assessment Authority Chennai vide Lr.No.SEIAA-TN/F.NO.62883/ALR/1(a)/EC-4020/2019 dated 19/08/2019.
3. Thick green belt with native species shall be developed in the 50 m safety distance in the land area in the periphery.
4. Peripheral plantations shall be raised as wind belts to minimize the dry tailings being air-borne and to prevent the soil erosion.
5. Garland drains provided around the open cast excavation area, stacking, loading area and periphery of waste dumps shall be maintained so as to collect and discharge the rush of water during heavy rain. The water collected in the garland drain shall flow towards the settling tank.
6. The unit shall collect the rain water and seepage in the collection sump provided and the same shall be utilized for irrigation.
7. Wherever practicable, the mine water shall be utilized for irrigation and to the plantation raised to stabilize the mine waste dumps.
8. The unit shall not use '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, within the industry premises. Instead it shall encourage use of eco friendly alternative such as banana leaf, arecanut palm plate, stainless steel, glass, porcelain plates/ cups, cloth bag, jute bag etc.

K.
Gokuladas

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**For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai**

GENERAL CONDITIONS

1. The occupier shall make an application along with the prescribed consent fee for grant of renewal of consent at least 60 days before the date of expiry of this Consent Order along with all the required particulars ensuring that there is no change in Production quantity and change in sewage/Trade effluent.
2. This Consent is issued by the Board in consideration of the particulars given in the application. Any change or alteration or deviation made in actual practice from the particulars furnished in the application will also be ground for review/variation/revocation of the Consent Order under Section 27 of the Act and to make such variation as deemed fit for the purpose of the Act.
3. The consent conditions imposed in this order shall continue in force until revoked under Section 27(2) of the Act.
4. After the issue of this order, all the 'Consent to Operate' orders issued previously under Water (Prevention and Control of Pollution) Act, 1974 as amended stands defunct.
5. The occupier shall maintain an Inspection Register in the factory so that the inspecting officer shall record the details of the observations and instructions issued to the unit at the time of inspection for adherence.
6. The occupier shall provide and maintain an alternate power supply along with separate energy meter for the Effluent Treatment Plant sufficient to ensure continuous operation of all pollution control equipments to maintain compliance.
7. The occupier shall provide all facilities to the Board officials for inspection and collection of samples in and around the factory at any time.
8. The occupier shall display the flow diagram of the sources of effluent generation and pollution control systems provided at the ETP site.
9. The solid waste such as sweepings, wastage, package, empty containers, residues, sludge including that from air pollution control equipments collected within the premises of the industrial plant shall be collected in an earmarked area and shall be disposed off properly.
10. The occupier shall collect, treat the solid wastes like food waste, green waste generated from the canteen and convert into organic compost.
11. The occupier shall segregate the Hazardous waste from other solid wastes and comply in accordance with Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008.
12. The occupier shall maintain good house-keeping within the factory premises.
13. All pipes, valves, sewers and drains shall be leak proof. Floor washings shall be admitted into the trade effluent collection system only and shall not be allowed to find their way in storm drains or open areas.
14. The occupier shall ensure that there shall not be any diversion or by-pass of trade effluent on land or into any water sources.
15. The occupier shall ensure that solar Evaporation pans shall be constructed in such a way that the bottom of the solar pan is at least 1 m above the Ground level (if applicable).
16. The occupier shall furnish the following returns in the prescribed formats to the concerned District office regularly.
 - a) Monthly water consumption returns of each of the purposes with water meter readings in Form-I on or before 5th of every month.
 - b) Yearly return on Hazardous wastes generated and accumulated for the period from 1st April to 31st March in Form-4 before the end of the subsequent 30th June of every year (if applicable).
 - c) Yearly Environmental Statement for the period from 1st April to 31st March in Form -V before the end of the subsequent 30th September of every year(if applicable).
17. If applicable, the occupier has to comply with the provisions of Public Liability Insurance Act, 1991 to provide immediate relief in the event of any hazard to human beings, other living creatures/plants and properties while handling and storage of hazardous substances.
18. The issuance of this consent does not authorize or approve the construction of any physical structures or facilities or the undertaking of any work in any natural watercourse or in Government Poromboke lands.
19. The issuance of this Consent does not convey any property right in either real personal property or any exclusive privileges, nor does it authorize any injury to private property or Government property or any invasion of personal rights nor any infringement of Central, State laws or regulation.

20. The occupier shall forth with keep the Board informed of any accident of unforeseen act or event of any poisonous, noxious or polluting matter or emissions are being discharged into stream or well or air as a result of such discharge, water or air is being polluted.
21. If due to any technological improvements or otherwise the Board is of opinion that all or any of the conditions referred to above requires variation (including the change of any treatment system, either in whole or in part) the Board shall, after giving the applicant an opportunity of being heard, vary all or any of such conditions and thereupon the applicant shall be bound to comply with the conditions as so varied.
22. In case there is any change in the constitution of the management, the occupier of the new management shall file fresh application under Water (Prevention and Control of Pollution) Act, 1974, as amended in Form-II alongwith relevant documents of change of management immediately and get the necessary amendment with renewal of consent order.
23. In case there is any change in the name of the company alone, the occupier shall inform the same with relevant documents immediately and get the necessary amendments for the change of name from the Board.
24. The occupier shall display this consent order granted to him in a prominent place for perusal of the inspecting Officers of this Board.

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by K. Gokuladas
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**For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai**