



# TAMILNADU POLLUTION CONTROL BOARD



Category of the Industry :

**RED**

*CTO for SJ-6-9-17  
Proposed by  
[Signature]*

CONSENT ORDER NO. 1907221038266 DATED: 30/08/2019.

PROCEEDINGS NO. T2/TNPCB/F.0288ARY/RL//ARY/A/2019 DATED: 30/08/2019

**SUB:** Tamil Nadu Pollution Control Board -CONSENT TO OPERATE FOR EXPANSION-I -M/s. TAMILNADU CEMENTS CORPORATION LTD , S.F.No. 32,33,42,45 to 50,53,79,80,81,84,87,88,89,, KAIRLABATH village Ariyalur Taluk and Ariyalur District - Consent for operation of the plant and discharge of emissions under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 as amended in 1987 (Central Act 14 of 1981) -Issued- Reg.

- REF:**
1. CTE proceeding No. T2/TNPCB/F.0288ARY/RL/ARY/W&A/2017 DATED: 22/08/2017
  2. Unit's application for CTO Expansion on 11.03.2019 and resubmitted on 29.07.2019.
  3. JCEE's IR.No: F.0288ARY/RL/JCEE-M/ARY/2019 dated 02/05/2019.
  4. Board's (TSC) Resolution No.CA/TSC/01/2019.

CONSENT TO OPERATE FOR EXPANSION is hereby granted under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 as amended in 1987 (Central Act 14 of 1981) (hereinafter referred to as "The Act") and the rules and orders made there under to

The Deputy General Manager,  
M/s TAMILNADU CEMENTS CORPORATION LTD  
S.F.No.32,33,42,45 to 50,53,79,80,81,84,87,88,89.,  
KAIRLABATH Village,  
Ariyalur Taluk,  
Ariyalur District.

Authorizing the occupier to operate the industrial plant in the Air Pollution Control Area as notified by the Government and to make discharge of emission from the stacks/chimneys.

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, 2020

**K.**  
**Gokuladas**  
Digitally signed  
by K. Gokuladas  
Date: 2019.08.30  
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For Member Secretary,  
Tamil Nadu Pollution Control Board,  
Chennai

To  
The Deputy General Manager,  
M/s TAMILNADU CEMENTS CORPORATION LTD,  
Ariyalur cement works, Ariyalur Taluk, Ariyalur District,  
Pin: 621729

**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, Tiruchirappalli.



## TAMILNADU POLLUTION CONTROL BOARD

### SPECIAL CONDITIONS

1. This consent to operate for Expansion 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
<b>Product Details</b>			
1.	CLINKER	1475000	MT/ANNUM
2.	ORDINARY PORTLAND GEMENT AND PORTLAND POZZOLANA CEMENT	1630000	MT/ANNUM
<b>By-Product Details</b>			
1.	No by product	0	0
<b>Intermediate Product Details</b>			
1.	No intermediate product	0	0

2. This consent to operate for Expansion is valid for operating the facility with the below mentioned emission/noise sources along with the control measures and/or stack. Any change in the emission source/control measures/change in stack height has to be brought to the notice of the Board and fresh consent/Amendment has to be obtained.



## TAMILNADU POLLUTION CONTROL BOARD

Point source emission with stack :				
Stack No.	Point Emission Source	Air pollution Control measures	Stack height from Ground Level in m	Gaseous Discharge in Nm <sup>3</sup> /hr
1	LIMESTONE CRUSHER - I (EXISTING)	Cyclone Separator with stack	14.9	30000
2	LIMESTONE CRUSHER - I (EXPANSION)	Bag Filters with stack	22.5	50000
3	LIMESTONE STORAGE-I TRANSFER POINT (EXPANSION)	Bag Filters	15.8	6500
4	LIMESTONE STORAGE-II TRANSFER POINT (EXPANSION)	Bag Filters	24.8	5600
5	RAW MILL (EXISTING)	Bag Filters with stack	12.5	30000
6	RAW MILL FEED HOPPER (EXPANSION)	Bag Filters	10.5	14000
7	RAW MILL TRANSFER POINT (EXPANSION)	Bag Filters	23.06	7500
8	RAW MILL (EXPANSION)	Bag Filters	28.88	13000
9	RAW MILL TRANSFER POINT (EXPANSION)	Bag Filters	26.3	4500
10	RAW MEAL SILO TRANSFER POINT (EXPANSION)	Bag Filters	53.3	8000
11	RAW MEAL SILO TRANSFER POINT (EXPANSION)	Bag Filters	11.2	10000
12	KILN-I (EXISTING)	Reverse Air Bag House with Stack	58.3	200000
13	KILN-II (EXISTING)	Reverse Air Bag House with Stack	58.3	200000
14	KILN (EXPANSION)	Bag Filters with stack	115.2	597600
15	KILN FEED TRANSFER POINT (EXISTING)	Bag Filters with stack	11.5	30000
16	KILN FEED TRANSFER POINT (EXPANSION)	Bag Filters	39.1	8000
17	KILN FEED TRANSFER POINT (EXPANSION)	Bag Filters	107.4	3720
18	BLENDING SILO-I (EXISTING)	Bag Filters with stack	11.5	30000
19	BLENDING SILO-II (EXISTING)	Bag Filters with stack	11.5	30000
20	CLINKER COOLER-I (EXISTING)	ESP with stack	37.22	200000
21	CLINKER COOLER-II (EXISTING)	ESP with stack	37.22	200000
22	CLINKER COOLER (EXPANSION)	ESP with stack	41	338400



## TAMILNADU POLLUTION CONTROL BOARD

23	CLINKER COOLER TRANSFER POINT (EXISTING)	Bag Filters with stack	18.9	30000
24	CLINKER COOLER TRANSFER POINT (EXPANSION)	Bag Filters	1.2	6000
25	DEEP BUCKET CONVEYOR TRANSFER POINT (EXISTING)	Bag Filters with stack	7	30000
26	CLINKER STOCK PILE TRANSFER POINT (EXISTING)	Cyclone Separator with stack	10.5	30000
27	CLINKER SILO (EXPANSION)	Bag Filters	38.8	35000
28	CLINKER SILO TRANSFER POINT (EXPANSION)	Bag Filters	4.98	17500
29	CLINKER SILO TRANSFER POINT (EXPANSION)	Bag Filters	19.5	1500
30	COAL MILL (EXISTING)	ESP with stack	25.8	60000
31	COAL MILL (EXPANSION)	Bag Filters with stack	55.9	72360
32	COAL MILL TRANSFER POINT (EXPANSION)	Bag Filters	38.15	3500
33	COAL MILL TRANSFER POINT (EXPANSION)	Bag Filters	38.15	3500
34	COAL CRUSHER (EXISTING)	Bag Filters with stack	14.15	20000
35	CEMENT MILL (EXISTING)	Bag Filters with stack	38.5	60000
36	CEMENT MILL TRANSFER POINT (EXISTING)	Bag Filters with stack	13.5	30000
37	CEMENT MILL (EXPANSION)	Bag Filters with stack	44	38880
38	CEMENT MILL SEPARATOR (EXPANSION)	Bag Filters with stack	44	51840
39	CEMENT MILL TRANSFER POINT (EXPANSION)	Bag Filters	14.3	5000
40	CEMENT MILL TRANSFER POINT (EXPANSION)	Bag Filters	28.55	11000
41	CEMENT MILL FEED TRANSFER POINT (EXPANSION)	Bag Filters	28.55	8000
42	CEMENT MILL TRANSFER POINT (EXPANSION)	Bag Filters	16.45	7000
43	CEMENT MILL SEPARATOR TRANSFER POINT (EXPANSION)	Bag Filters	15.9	3000
44	CEMENT SILO TRANSFER POINT (EXPANSION)	Bag Filters	45.17	6600

POLLUTION PREVENTION PAYS



## TAMILNADU POLLUTION CONTROL BOARD

45	CEMENT SILO TRANSFER POINT (EXPANSION)	Bag Filters	12.07	10000
46	CEMENT SILO TRANSFER POINT (EXPANSION)	Bag Filters	10.12	5200
47	CEMENT SILO TRANSFER POINT (EXPANSION)	Bag Filters	45.17	6600
48	CEMENT SILO (EXPANSION)	Bag Filters	17.1	25000
49	FLY ASH HOPPER (EXISTING)	Bag Filters with stack	11.5	30000
50	FLY ASH SILO (EXPANSION)	Bag Filters	33.8	13000
51	PACKING HOUSE-I (EXISTING)	Bag Filters with stack	13	30000
52	PACKING HOUSE-II (EXISTING)	Bag Filters with stack	13	30000
53	PACKING PLANT (EXPANSION)	Bag Filters	17.1	25000
54	DG SET 2500 KVA (EXISTING)	Stack	8	15000
55	DG SET 1000 KVA (EXPANSION)	Stack	30	7000
<b>II Fugitive/Noise emission :</b>				
Sl. No.	Fugitive or Noise Emission sources	Type of emission	Control measures	
1.	TRANSPORT VEHICLE MOVEMENT LOADING & UNLOADING	Fugitive	WATER SPRAYING BY TIPPER AND WATER SPRINKLER SYS.	
2.	DG SET 2500 KVA 1 NO	Noise	ACOUSTIC ENCLOSE	
3.	DG SET 1000 KVA 1 NO	Noise	ACOUSTIC ENCLOSE	

3(a). The emission shall not contain constituents in excess of the tolerance limits as laid down hereunder :

Sl. No.	Parameter	Unit	Tolerance limits	(1)	(2)	(3)	(4)	(5)
				(6)				

3 (b) The Ambient Air in the industrial plant area shall not contain constituents in excess of the tolerance limits prescribed below.





## TAMILNADU POLLUTION CONTROL BOARD

Sl. No.	Pollutant	Time Weighted Average	Unit	Tolerance Limits	
				Industrial, Residential, Rural and other area	Ecologically Sensitive Area (notified by Central Govt.)
1.	Sulphur Dioxide (SO <sub>2</sub> )	Annual 24 hours	microgram/m <sup>3</sup> microgram/m <sup>3</sup>	50 80	20 80
2.	Nitrogen Dioxide (NO <sub>2</sub> )	Annual 24 hours	microgram/m <sup>3</sup> microgram/m <sup>3</sup>	40 80	30 80
3.	Particulate Matter (Size Less than 10 micro M) or PM <sub>10</sub>	Annual 24 hours	microgram/m <sup>3</sup> microgram/m <sup>3</sup>	60 100	60 100
4.	Particulate Matter (Size Less than 2.5 micro M) or PM <sub>2.5</sub>	Annual 24 hours	microgram/m <sup>3</sup> microgram/m <sup>3</sup>	40 60	40 60
5.	Ozone (O <sub>3</sub> )	Annual 24 hours	8 Hours 1 Hour	100 180	100 180
Sl. No.	Pollutant	Time Weighted Average	Unit	Tolerance Limits	Industrial, Residential, Rural and other area Ecologically Sensitive Area (notified by Central Govt.)
6.	Lead (Pb)	Annual 24 hours	microgram/m <sup>3</sup> microgram/m <sup>3</sup>	0.5 1.0	0.5 1.0
7.	Carbon Monoxide (CO)	8 Hours 1 Hour	miligram/m <sup>3</sup> miligram/m <sup>3</sup>	02 04	02 04
8.	Ammonia (NH <sub>3</sub> )	Annual 24 hours	microgram/m <sup>3</sup> microgram/m <sup>3</sup>	100 400	100 400
9.	Benzene (C <sub>6</sub> H <sub>6</sub> )	Annual	microgram/m <sup>3</sup>	5	5
10.	Benzo(O) Pyrene (BaP) -particulate phase only	Annual	nanogram/m <sup>3</sup>	01	01
11.	Arsenic (As)	Annual	nanogram/m <sup>3</sup>	06	06
12.	Nickel (Ni)	Annual	nanogram/m <sup>3</sup>	20	20

3(c) The Ambient Noise Level in the industrial plant area shall not exceed the limits prescribed below:

Limits in L.eq.-dB(A)	Day Time	Night Time
Residential Area	55	45

4. All units of the Air pollution control measures shall be operated efficiently and continuously so as to achieve the standards prescribed in Sl. No.3 above.
5. The occupier shall not change or alter quality or quantity or the rate of emission or replace or alter the air pollution control equipment or change the raw material or manufacturing process resulting in change in quality and/or quantity of emissions without the previous written permission of the Board.
6. The occupier shall maintain log book regarding the stack monitoring system or operation of the plant or any other particulars for each of the unit operations of air pollution control systems to reflect the working condition which shall be furnished for verification of the Board officials during inspection.

### POLLUTION PREVENTION PAYS



## TAMILNADU POLLUTION CONTROL BOARD

7. The occupier shall at his own cost get the samples of emission/air/noise levels collected and analyzed by the TNPC Board Laboratory once in every 6 months/once in a year/periodically for the parameters as prescribed.
8. Any upset condition in any of the plants of the factory which is likely to result in increased emissions and result in violation of the standards mentioned in Sl.No.3 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.
9. 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.

### Additional Conditions:

1. The unit shall provide online monitors for the proposed Kilns, Clinker coolers, cement mill & coal mills for this expansion activity and connect the same to CAC, TNPCB, Chennai
2. The unit shall operate and maintain APC measures efficiently and continuously so as to adhere to the AAQ/SE/ANL standards prescribed by the Board.
3. The unit shall operate all the dust containment measures in the coal stock yard efficiently and continuously to control the fugitive emission.
4. The unit has to maintain minimum drop height while unloading the coal from the Tippers.
5. The unit shall carry out cleaning of spilled materials such as Gypsum, Flyash, and Coal dust inside the working area periodically to avoid carryover of dust to the surrounding.
6. The unit shall adhere to the CPCB Guidelines on fugitive emission control vide PROBES/118/2007, dated 06.07.2007.
7. The unit shall utilise /enhance the usage of Alternate Fuels and Raw materials (AFR such as Plastic wastes, Hazardous wastes) for Co- processing/Co-incineration in Cement Kiln so as to improve the Thermal Substitution Ratio (TSR). Also the unit shall provide necessary infrastructure facilities such as feeding system, conveyor systems, etc., for co processing
8. The unit shall install continuous ambient air quality monitoring stations with respect to ground-level concentration around 25 km radius from the unit premises and furnish the AAQ monitoring reports to TNPCB regularly.
9. The unit shall submit the Environmental Statement.
10. The unit shall increase the green belt around the boundary adjoining with the Highway.
11. The unit shall maintain a good housekeeping.
12. The unit has to ensure that its operation shall not evoke any complaints from the surroundings
13. The unit shall remove the Deposition of fine dust on the floor area in the cement mill and clinker area periodically.
14. The unit shall improve the house keeping in the entire factory premises.
15. The unit shall operate and maintain the water sprinklers and street sweepers provided by the unit and shall replace the existing ESP in the coal mill with bag house as reported to achieve the AAQ emission standards of TNPCB.
16. The unit shall install water gun arrangements within a month as reported to control the fugitive emission.

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 tumbler, water pouches and packets, plastic straw, plastic carry bags and plastic flags irrespective of thickness, within the industry premises. Instead unit shall encourage use of eco friendly alternative such as banana leaf, arcanut palm plate, stainless steel, glass, porcelain plates/cups, cloth bag, jute bag etc.,

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



## TAMILNADU POLLUTION CONTROL BOARD

### 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 emission.
2. This Consent is given 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 21 of the Act.
3. The conditions imposed shall continue in force until revoked under Section 21 of the Act.
4. After the issue of this order, all the 'Consent to Operate' orders issued previously under Air (Prevention and Control of Pollution) Act, 1981 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 Air Pollution Control measures sufficient to ensure continuous operation of all pollution control equipments to ensure compliance.
7. The occupier shall provide all facilities to the Board officials for collection of samples in and around the factory at any time.
8. The applicant shall display the flow diagram of the sources of emission and pollution control systems provided at the site.
9. The liquid effluent arising out of the operation of the air pollution control equipment shall also be treated in a manner and to the satisfaction of standards prescribed by the Board in accordance with the provisions of Water (Prevention and Control of Pollution) Act, 1974 as amended.
10. The air pollution control equipments, location of inspection chambers and sampling port holes shall be made easily accessible at all time.
11. In case of any episodal discharge of emission, the industry shall take immediate action to bring down the emission within the limits prescribed by the Board.
12. 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.
13. 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 Poramboke lands.
14. 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.
15. 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.
16. 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.
17. In case there is any change in the constitution of the management, the occupier of the new management shall file fresh application under Air (Prevention and Control of Pollution) Act, 1981, as amended in Form-I alongwith relevant documents of change of management immediately and get the necessary amendment with renewal of consent order.
18. 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.





## TAMILNADU POLLUTION CONTROL BOARD

19. The occupier shall display this consent order granted to him in a prominent place for perusal of the inspecting Officers of this Board.

K.  
Gokuladas

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by K. Gokuladas  
Date: 2019.04.30  
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For Member Secretary,  
Tamil Nadu Pollution Control Board,  
Chennai

