

Category of the Industry :

RED

CONSENT ORDER NO. 200528470228 DATED: 24/02/2020.

PROCEEDINGS NO.T2/TNPCB/F.1717CBS/RL/CBS/A/2020 DATED: 24/02/2020

SUB: Tamil Nadu Pollution Control Board –CONSENT TO OPERATE –DIRECT -M/s. ACC LIMITED MADUKKARAI CEMENT WORKS , S.F.No. 1056/3,1058/1,1059/2 PART,1060/3,1090/1,1090/11,1206/2, MADUKARAI villageMadukkarai Taluk and Coimbatore 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) Board Proceedings No. T9/TNPCB/F.1063CBS/RL/CBS/W&A/2016 DATED: 06/07/2016
2) Unit's application submitted through OCMMS on 20/03/2017 and resubmitted in full shape on 11/01/2020
3) JCEE's IR.No : F.1717CBS/RL/JCEE-M/CBS/2020 dated 14/01/2020

CONSENT TO OPERATE 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 Director,
M/s . ACC LIMITED MADUKKARAI CEMENT WORKS
S.F No.1056/3,1058/1,1059/2 PART,1060/3,1090/1,1090/11,1206/2,
MADUKARAI Village,
Madukkarai Taluk,
Coimbatore 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, 2021

K.
Gokuladas



Digitally signed
by K. Gokuladas
Date: 2020.02.24
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For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

To
The Director,
M/s.ACC LIMITED MADUKKARAI CEMENT WORKS,
ACC LIMITED
Cement House
121, Maharshi Karve Road Mumbai - 400 020, India,
Pin: 641105

Copy to:

1. The Executive Officer, MADUKARAI-Town Panchayat, Madukkarai Taluk, Coimbatore District .
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, COIMBATORE SOUTH.
3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Coimbatore.
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.	Cement production from Limestone	1	Million tonnes per annum

2. This consent to operate 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.

I Point source emission with stack :				
Stack No.	Point Emission Source	Air pollution Control measures	Stack height from Ground Level in m	Gaseous Discharge in Nm3/hr
1	Secondary crusher	Bag Filters with stack	18	35000
2	KILN	Bag house with stack	82	521000
3	Pre-Heater Auxiliary	Bag Filters with stack	72	6900
4	Pre-heater Surge bin	Bag Filters with stack	72	7800
5	Coal Mill	Bag house with stack	52.5	72000
6	Kiln Firing	Bag Filters with stack	30	3300
7	MFC	Bag Filters with stack	45	4350
8	DBC-Bucket conveyer	Bag Filters with stack	15	10500
9	Clinker Silo Top	Bag Filters with stack	30	7700
10	Clinker Silo Bottom	Bag Filters with stack	12	10500
11	Clinker Hopper	Bag Filters with stack	32	25000
12	Cement Mill 8 Feed Belt	Bag Filters with stack	25	4000
13	Fly ash Silo top	Bag Filters with stack	35	6000
14	Cement mill main vent	Common stack	43.5	56500
15	cement mill separator	Common stack	43.5	42500
16	D. Pump	Bag Filters with stack	32	14000
17	Cement Mill 7	Bag Filters with stack	25	36000
18	Cement Mill 5	Bag house with stack not in operation	25	36000
19	Cement Silo 5	Bag Filters with stack	16	12500
20	Old Packing House	Bag Filters with stack	12	35500
21	Cement Silo 6	Bag Filters with stack	46	12500
22	Cement silo 7	Bag Filters with stack	46	12500
23	New packing house A	Bag Filters with stack	22	40000
24	New packing house B	Bag Filters with stack	22	18000

25	OPH Bulker loading	Bag Filters with stack	15	3300
26	Clinker cooler	ESP with stack	55	240000
27	DG set - 4000 kva derated to 2000kva	Stack	10	2500
28	Secondary shredder AFR paltfrom	Bag Filters with stack	16	30000
29	Kiln AFR feeding system multiflex	Bag Filters with stack	35	1500
30	Afr feeding system-transfer point	Bag Filters with stack	30	1650
31	New Clinker Silo Top	Bag Filters with stack	50	22000
32	New Deep Bucket conveyor	Bag Filters with stack	40	23450
33	Pre-grinder	Bag Filters with stack	43.5	200000
34	Pre-grinder Auxiliary	Wet scrubber with stack	43.5	23450
35	Cement Mill 7-Weigh Feeder	Bag Filters with stack	45	15750
36	Cement Mill 7 – Elevators	Bag Filters with stack	45	11800
37	Packing house Enexco - reject screen	Bag Filters with stack	30	34000
38	Packing house Enexco –auxillary	Bag Filters with stack	30	16000
39	Packing house Enexco –elevator	Bag Filters with stack	30	17500
40	Fly ash Silo bottom	Bag Filters with stack	30	4500
II	Fugitive/Noise emission :			
Sl. No.	Fugitive or Noise Emission sources	Type of emission	Control measures	
1.	Limestone dump to hopper	Fugitive	Dust suppression system/Fogging system	
2.	Limestone transfer point	Fugitive	Dust suppression system/Fogging system	
3.	Crusher limestone to gantry and feed	Fugitive	Dust suppression system/Fogging system	
4.	Raw material handling-Gantry	Fugitive	Water sprinkler system	
5.	Clinker transfer point	Fugitive	Bag Filter	
6.	Clinker storage 10000 tonnes	Fugitive	Silo with Bag filter	

7.	Clinker storage -40500 tonnes	Fugitive	Silo with Bag filter	
8.	Flyash unloading	Fugitive	Pneumatic conveying to silo with bag filter	
9.	Cement transport- Silo 1 to 5	Fugitive	Pneumatic conveying to silo with bag filter	
10.	Cement transport- Silo 7 to 5	Fugitive	Pneumatic conveying to silo with bag filter	
11.	Cement transport- Silo 7 to 5	Fugitive	Pneumatic conveying to silo with bag filter	
12.	Packing section	Fugitive	Bag Filter	
13.	Coal crushing	Fugitive	Bag Filter	
14.	Coal conveying	Fugitive	Pneumatic conveying to bunker with bag filter	
15.	Roads	Fugitive	Road sweeping machine & Water sprinkler system	
16.	Bulk material cleaning	Fugitive	Vacuum cleaning machine	
17.	Secondary crusher	Noise	Personal protective equipment	
18.	Cement mill	Noise	Personal protective equipment	
19.	AFR Shredder	Fugitive	Odour control spray	

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

Sl.	Parameter	Unit	Tolerance limits	Stacks
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Annexure enclosed if applicable. :-

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

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 ₂)	Annual 24 hours	microgram/m ³ microgram/m ³	50 80	20 80
2.	Nitrogen Dioxide (NO ₂)	Annual 24 hours	microgram/m ³ microgram/m ³	40 80	30 80
3.	Particulate Matter (Size Less than 10 micro M) or PM ₁₀	Annual 24 hours	microgram/m ³ microgram/m ³	60 100	60 100
4.	Particulate Matter (Size Less than 2.5 micro M) or PM _{2.5}	Annual 24 hours	microgram/m ³ microgram/m ³	40 60	40 60
5.	Ozone (O ₃)	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 ³ microgram/m ³	0.5 1.0	0.5 1.0
7.	Carbon Monoxide (CO)	8 Hours 1 Hour	miligram/m ³ miligram/m ³	02 04	02 04
8.	Ammonia (NH ₃)	Annual 24 hours	microgram/m ³ microgram/m ³	100 400	100 400
9.	Benzene (C ₆ H ₆)	Annual	microgram/m ³	5	5
10.	Benzo(O) Pyrene (BaP) –particulate phase only	Annual	nanogram/m ³	01	01
11.	Arsenic (As)	Annual	nanogram/m ³	06	06
12.	Nickel (Ni)	Annual	nanogram/m ³	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
Industrial Area	75	70

- 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.
- 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.
- 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.
- 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 not go for expansion without obtaining valid consent of the Board.
2. The unit shall extend the area of Coal storage area within 3 months.
3. The unit shall comply the conditions in Minutes of the Technical Presentation held on 28/11/2019 at the Corporate office, TNPCB, Guindy.
4. The unit shall install additional 2 nos. of Continuous Ambient Air Quality Monitoring System (CAAQMS) stations in the receptors like public school, temple, Health Care Facility etc... to monitor common/criteria pollutants from the flue gases such as PM10, PM2.5, SO2, NOX in the radius 10 to 15 km and shall connect to Care Air Centre, TNPCB within eight months as reported.
5. The unit shall take necessary action to provide reverse vending Machines in Railway station, bus stand and maintain the same to collect the used plastic bottles as one of the CSR activities.
6. The unit shall operate the limestone mines at Madukkarai and Walayar with valid consent of TNPCB.
7. The unit shall complete the SCNR works to control NOX emission within a month time.
8. The unit is permitted to use the following quantity of pet coke in the manufacturing process as feed stock only: Pet coke quantity /Month – 9000 Tons/Month. Pet coke quantity/Annum - 1.08 Lakhs Tonne/Annum. Sources of Pet coke- Imported (or) from refineries in India. The unit shall also comply with the following conditions for import of Pet coke:
 - i. The Industry is permitted to directly import pet coke and consignment shall be in the name of user industrial units for their own use only.
 - ii. Import of pet coke for the purpose of trading shall not be permitted.
 - iii. The Industry shall furnish opening and closing stock on imported Pet coke and consumption of the same to the TNPCB on a monthly basis.
 - iv. The Pet coke shall be used in the cement Kiln only and it shall not be used for any other purpose.
9. The unit shall operate and maintain the Air Pollution Control measures continuously and effectively so as to bring the quality of emission to satisfy the AAQ/Emission standards prescribed by the Board at all times.
10. The unit shall maintain and operate the online continuous stack monitors attached to the APC measures continuously so as to get quality data and continuous connectivity to CAC, Chennai and unit shall maintain the online display Board installed in the entrance of the unit efficiently.
11. The unit shall calibrate the analysers provided for online air quality monitoring system (AAQMSs) so as to receive quality & continuous data to CAC, TNPCB Chennai and unit shall maintain the online display Board installed in the entrance of the unit efficiently within month time.
12. The unit shall comply with the fugitive emission guidelines prescribed by CPCB vide PROBES/118/2007, dated 06.07.2007.
13. The unit shall comply with the co-processing standards of particulate matter -30mg/Nm³; SO₂-100mg/Nm³,700mg/Nm³ and 1000mg/Nm³ when pyritic sulphur in the limestone is less than 0.25%, 0.25 to 0.5%, and more than 0.5% respectively; NO_x (whichever is applicable to the unit) – 800mg/Nm³ for rotary kiln with In Line Calciner (ILC) technology (or) 1000mg/Nm³ for rotary kiln using mixed stream of ILC, Separate Line Calciner (SLC) and suspension pre-heater technology or SLC technology alone or without calciner; HCl – 10mg/Nm³; HF – 1Mg/Nm³; TOC – 10mg/Nm³; Hg and its compounds – 0.05mg/Nm³; Cd+Tl and their compounds – 0.05mg/Nm³; Sb+As+Pb+Co+Cr+Cu+Mn+Ni+V and their compounds – 0.5mg/Nm³; Dioxins and Furans – 0.1ngTEQ/Nm³, as prescribed in the MoEF&CC Notification dated 10th May 2016.
14. The unit shall ensure that solid waste and the dust collected from the various air pollution controlling equipment shall be recycled in the process.
15. It has to be ensured that the consumption of fly ash for the cement production shall be increased to 35% within 6 months time.
16. The unit shall ensure that raw material and product like coal, gypsum, fly ash, and clinker are stored in a closed shed/ silo so as to avoid dust emission.
17. The unit shall continue to develop greenbelt in and around the premises of the unit.
18. 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.
19. The unit shall not use 'use and throwaway plastics' such as plastic sheets used for food wrapping, spreading in 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, areca nut palm plate, stainless steel, glass, porcelain plates/cups, cloth bag, Jute bag etc.
20. The unit shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.II dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
21. The unit shall not use any non woven bags for packing of cements.

K. Gokuladas
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by 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 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 Poromboke 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.

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
For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

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K. Gokuladas
Date: 2020.02.24
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Category of the Industry :

RED

CONSENT ORDER NO. 200518470228 DATED: 24/02/2020.

PROCEEDINGS NO.T2/TNPCB/F.1717CBS/RL/CBS/W/2020 DATED: 24/02/2020

SUB: Tamil Nadu Pollution Control Board –CONSENT TO OPERATE – DIRECT -M/s. ACC LIMITED MADUKKARAI CEMENT WORKS , S.F.No. 1056/3,1058/1,1059/2 PART,1060/3,1090/1,1090/11,1206/2, MADUKARAI villageMadukkarai Taluk and Coimbatore 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) Board Proceedings No. T9/TNPCB/F.1063CBS/RL/CBS/W&A/2016 DATED: 06/07/2016
2) Unit's application submitted through OCMMS on 20/03/2017 and resubmitted in full shape on 11/01/2020
3) JCEE's IR.No : F.1717CBS/RL/JCEE-M/CBS/2020 dated 14/01/2020

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

The Director,
M/s . ACC LIMITED MADUKKARAI CEMENT WORKS
S.F No.1056/3,1058/1,1059/2 PART,1060/3,1090/1,1090/11,1206/2,
MADUKARAI Village,
Madukkarai Taluk,
Coimbatore 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, 2021

K.
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by K. Gokuladas
Date: 2020.02.24
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For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

To
The Director,
M/s.ACC LIMITED MADUKKARAI CEMENT WORKS,
ACC LIMITED
Cement House
121, Maharshi Karve Road Mumbai - 400 020, India,
Pin: 641105

Copy to:

1. The Executive Officer, MADUKARAI-Town Panchayat, Madukkarai Taluk, Coimbatore District .
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, COIMBATORE SOUTH.
3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Coimbatore.
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.	Cement production from Limestone	1	Million tonnes per annum

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	50.0	On land for gardening
Effluent Type : Trade Effluent			
1.	Thickener, Vibrobin, Filtration, settling tank	552.0	Recycling to process

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		6.5 to 9				
2.	Temperature	oC	-				
3.	Particle size of Suspended solids	-	-				
4.	Total Suspended Solids	mg/l	<100				
5.	Total Dissolved solids (inorganic)	mg/l	-				
6.	Oil & Grease	mg/l	-				
7.	Biochemical Oxygen Demand (3 days at 27oC)	mg/l	30				
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 not go for expansion without obtaining valid consent of the Board.
2. The unit shall comply the conditions in Minutes of the Technical Presentation held on 28/11/2019 at the Corporate office, TNPCB, Guindy.
3. The unit shall take necessary action to provide reverse vending Machines in Railway station, bus stand and maintain the same to collect the used plastic bottles as one of the CSR activities.
4. The unit shall operate the limestone mines at Madukkarai and Walayar with valid consent of TNPCB.
5. The unit shall obtain the necessary permission from the central Ground water Authority regarding the drawl of ground water/surface water from the competent authority.
6. The unit shall operate and maintain the Sewage Treatment Plant continuously and efficiently and ensure that the treated sewage is utilised for gardening and greenbelt development.
7. There shall not be any overflow or seepage of treated sewage into nearby land /water sources.
8. The unit shall install mechanical sludge removal and dewatering system for the removal and dewatering of sludge settled in the settling tank.
9. The unit shall improve mechanism meant for the collection of reject silica silt from Vibro bin.
10. The unit shall comply with the co-processing standards as prescribed in the MoEF&CC Notification dated 10th May 2016.
11. The unit shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.II dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
12. The unit shall not use any non woven bags for packing of cements.

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