

GC III/786/ MoEF/ RO/ 2022-23

28. 12.2022

To

The Director (S)
Ministry of Environment, Forests & Climate Change
Integrated Regional Office,
1st Floor,
Additional Office Block For GPOA
Shastri Bhavan, Haddows Road,
Nungambakkam, Chennai 600 006

Dear Sir,

Sub. : Submission of Half yearly Report – Sep - 22
Ref. : F- No. J-11012/77/96- IA II (I) dated 29.07.1997.
and F- No J- 11011/417/2006 IA II(I) dt. 18th July, 2007, and 25.06.2018

With reference to the above we are sending herewith the Half yearly report ending September 22 We have obtained the amendment from the ministry for change in name from M/s Calci Tech India P. Ltd to M/s Global Calcium P. Ltd., Unit III from the ministry and TNPCB. Our consent is valid upto March 2027, copy of the same is attached.

Kindly acknowledge the receipt of the same.

Thanking you
Yours faithfully
For Global Calcium Pvt. Ltd., Unit III



Authorised Signatory

Encl. : As above

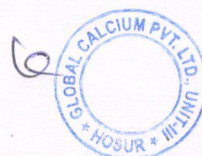
CalciTech India Pvt Ltd (Now Global Calcium Pvt Limited Unit III)

19,19B SIPCOT Industrial Complex, Hosur, Tamil Nadu

Ref : MoEF Letter No. J-11011/417/2006- IA II (I) dated 18.07.2007.

Half Yearly Compliance Report upto September 22

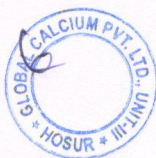
S. No.	Specific Conditions	Compliance
1.	The gaseous emissions (SO ₂ , NO _x , HCl and Bromine) and particulate matter from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.	We are not using Sodium Bromide in the process. Because of this there is no Bromine emission. Apart from this there is no process stacks. The non-process stacks of utility block (boiler stack and Fluid Bed dryer) emission such as SO ₂ , NO _x and particulate matter are monitored through the external agency on monthly basis. At no time, the emission levels were gone beyond the stipulated standards and in the event of failure of pollution control system(s) adopted by the unit, the respective unit will not be restarted until the control measures are rectified to achieve the desired efficiency.
2.	A periodic monitoring of Bromine at salient locations within the plant premises as well as outside the plant shall be carried out. A continuous monitoring system for bromine shall be installed.	There is no Sodium Bromide in the process. Hence there is no Bromine emission. Because of this Bromine is not monitored.
3.	An action plan for change of process route avoiding bromine shall be submitted and be implemented within a maximum period of 2 years.	We were using Sodium Bromide upto 2012 and stopped. Afterwards we have used enzyme process and this process also was stopped 2015 onwards. Though we have changed our process we have not submitted the action plan for change of process route avoiding Bromide within a period of two years.
4.	The ambient air quality monitoring stations shall be set up in down-wind direction as well as where maximum ground level concentration are anticipated in consultation with the TNPCCB.	We are monitoring the ambient air quality through external agency on monthly basis in upwind direction and down wind direction including where the maximum ground level concentrations are anticipated in consultation with PCB.
5.	Efficient scrubber for control of Bromine emissions from electrolyte process shall be installed. All electrolytic cells shall be connected to a common scrubber which	We have changed the electrolysis process to Enzyme route to avoid Bromine evolution in the process and this process also was stopped from 2015



	shall be connected to stack. Bag filters shall be provided to stack and spray drier. The scrubber water after neutralization shall be sent to ETP for further treatment.	onwards. The scrubber used for Bromine emission was utilized for reaction process stack. Mechanical dust collectors with Cyclone separators are provided to stack and Spray Drier. Up to 2015 the scrubbed water was sent to ETP for further treatment. Since the Bromine process and enzyme process are eliminated, there is no scrubbed water.
6.	The company shall undertake following Waste Minimization measures • Metering and control of quantities of active ingredients to minimize waste. • Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. • Use of automated filling to minimize spillage.	We have undertaken the following Waste Minimization measures: • We have provided electronic weighing scale for raw material and finished products. • There are no by-products are being produced in the process. • We are collecting the products directly from the Blender to bags and avoiding the spillage.
	• Use of "Close Feed" system into batch reactors. • Venting equipment through vapour recovery system. Use of high pressure hoses for equipment clearing to reduce wastewater generation.	We are using closed feed system into batch reactors. We are not using any solvent in the process and because of this there is no venting. We are using High-pressure hoses for equipment cleaning.
7.	Fugitive emissions in the work zone environment, product, Raw materials storage area shall be regularly monitored. The emissions shall confirm to the limits imposed by TNPCB.	We are monitoring the fugitive emissions in the work zone environment, product, Raw materials storage area through approved laboratory on monthly basis. The emission levels are within the limits of TNPCB.
8.	Total water requirement from SIPCOT water supply shall not exceed 65 m ³ /day and prior permission shall be obtained. The effluent generation shall not exceed 37m ³ /day. All the wastewater containing high BOD and low COD shall be treated aerobically and anaerobically (Primary and secondary treatment) in existing ETP and	Water is supplied by M/s SIPCOT authorities. The present water consumption is less than 60m³/day. There is no process effluent. The water is used only for washing the equipments in the production block and floor washing. This water is sent to ETP for



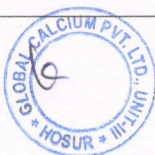
	then passed through Reverse Osmosis (RO) plant. No high COD effluent shall be generated. Treated water from RO shall be reused and rejects shall be treated in mechanical evaporator and water shall be reused in the process. All the treated wastewater shall be recycled and reused and no effluent shall be discharged outside the premises and "Zero discharge" shall be adopted. No organic solvent shall be used in the process. The domestic wastewater shall be treated in the septic tank followed by the soak pit.	further treatment. The washed water generation is maximum 38 m³/day. All the waste water containing high BOD and low COD is treated anaerobically and aerobically (Primary and secondary treatment) in existing ETP and then passed through Reverse Osmosis (RO) plant. Recently we have installed a lamella Clarifier with Lime soda process to reduce the Hardness in the treated water before RO plant RO permeate is reused in the process and reject is sent to Multiple Effect Evaporator (MEE) and ATFD. The salt is being sent to TSDF All the treated water is recycled and reused. No effluent is discharged outside the premises and zero discharge is followed. No organic solvent is used. The domestic waste water is sent to existing ETP for further treatment.
9.	The solid waste generated in the form of process waste and ETP sludge. Process waste (rejects) shall temporarily be stored at site and sent to Tamil Nadu Common TSDF for final disposal whenever comes into operation. ETP sludge shall be used as manure. Sodium Bromide used as catalyst shall be recycled and reused in the process. All the other solid/ hazardous waste shall be disposed off as per the hazardous Waste (Management & Handling) Rules.	The solid waste generated from the process and ETP are stored and sent to Tamil Nadu Waste Management Ltd., Common TSDF or Green Gene Enviro Protection Infrastructure, Ranipet for Pre processing. Sodium Bromide is not used in the process from 2012 onwards. Ash is disposed to brick manufacturers. Waste oil is sent to the authorized recyclers.
10.	The company shall adopt surface as well as roof top rain water harvesting measures to harvest the run-off water for recharge of ground water. Methods shall also be adopted for the conservation of water through and recycling and reusing the treated wastewater.	We have developed surface as well as roof top rain water harvesting measures to harvest the run off for recharge of ground water. The treated waste water after RO that is RO permeate is reused in boiler, cooling tower, etc.



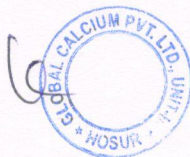
11.	The area under green belt shall be increased 33% and the selection of the Blast species shall be as per CPCB guidelines to mitigate the effects of fugitive emissions as per the Central Pollution Control Board guidelines.	Our unit is in SIPCOT industrial area. The total land is 1.02 Ha. There is no much area for plantation work. We have planted in front of the factory, around the office, along the eastern and southern side of compound wall, around ETP areas including turfing/lawn. On World Environment day we have planted 90 trees with guard along the SIPCOT road front side and backside of our premises. Photo attached..
12.	Occupational Health Surveillance (OHS) of the workers shall be done on a regular basis and records maintained as per the Factories Act.	OHS is being carried out as per the Factories Act and maintaining records.
13.	A full fledged environmental laboratory shall be set up for monitoring for environmental parameter specifically Bromine, SPM, SO ₂ , NOX _x , BOD, COD, TDS and heavy metals.	A full-fledged laboratory is established to monitor COD, TDS, pH, DO. In addition to this, third party monitoring and PCB monitoring is also carried out. Bromine is not monitored because it is not used in the process. SPM, SO ₂ , NOX, BOD, COD & TDS are monitored through external agency.
14.	Annual safety audit shall be conducted.	Annual safety audit is conducted through the internal safety team.

General Conditions

S. No.	General Conditions	Compliance
1	The project Authorities must strictly adhere the stipulations made by TNPCB and the State Government	We complied all the stipulations made by TNPCB and the State Government is being implemented. We have obtained the consent renewal and valid upto 31.3.2027. Copy attached.
2	No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment and forests.	We have not carried any expansion or modification in the plant without approval from the Ministry.
3.	Adequate number of influent and effluent quality monitoring stations shall be set up in consultation with the TNPCB. Regular monitoring shall be carried out for relevant parameters	The ETP inlet and outlet effluent quality is being monitored weekly twice, external agency on monthly basis in consultation with TNPCB. Regular monitoring is carried out for relevant parameters such as pH, BOD, COD, TDS, TSS, DO, etc.



4	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA report	We have implemented all the environmental protection measures and safeguards as recommended in the EIA/EMP report.
5	As proposed in EIA/EMP, Rs 0.146 Crores earmarked towards environmental protection measures shall be exclusively used to implement the conditions stipulated by the MoEF and State Government. A time bound action plan along with the implementation schedule to comply with all the conditions stipulated herein shall be submitted to the Ministry's Regional Office at Bangalore. The funds so provided shall not be diverted for any other purpose.	About Rs. 1.90 crore was incurred for environmental protection measures. The fund allocated was not diverted for any other purposes.
6	The implementation of the project vi-a-vis Environmental action plans will be monitored by Ministry's Regional office at Bangalore/TNPCB/CPCB. A six monthly compliance report status report shall be submitted to the monitoring agencies.	We are submitting six monthly compliance report to Regional office of the Ministry, Chennai regularly.
7.	The project proponent shall advertise in at least two local Newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality	We had given advertisement in two local news papers (Indian Express – English; Dinamalar – Tamil) and submitted a copy of the same to Regional Office, Bangalore.
8	The project authorities shall inform the regional office as well as the Ministry the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work in the EIA report	We have not informed the same to the Regional Office, Bangalore by oversight.



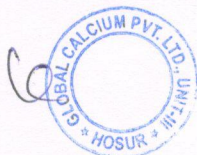
CalciTech India Pvt Ltd (Now Global Calcium Pvt Limited Unit III)

19/19B SIPCOT Industrial Complex, Hosur, Tamil Nadu.

Ref : MoEF Letter No. J-11012/77/96- IA II (I) dated 29.07.1997.

Half yearly Compliance report upto September 22

S. No	Description	Compliance
1.	The project authorities must strictly adhere to the stipulations made by the Tamil Nadu Pollution Control Board and the State Government	We are adhering to the stipulations made by Tamil Nadu Pollution Control Board and State Government.
2.	No expansion or modification of the plant should carried out without the prior approval of the Ministry of Environment and Forests.	We have not carried any expansion or modification in the plant without approval from the Ministry. We have gone for expansion after getting Environment Clearance from the Ministry during July 2007.
3.	The existing ETP should be upgraded to treat the additional pollution load from the proposed expansion. The treated effluent should be used for green belt development.	The existing ETP upgraded and the treated water is passed through RO Plant. RO permeate is reused in the process and reject is sent to Multiple Effect Evaporator (MEE) and ATFD.. Recently we have installed a lamella Clarifier with Lime soda process to reduce the Hardness in the treated water before RO plant. All the treated water is recycled and reused. No effluent is discharged outside the premises and zero discharge is followed.
4.	The Quality of the treated effluent should be regularly monitored.	The ETP inlet and outlet effluent quality is being monitored external agency on monthly basis. Regular monitoring is carried out for relevant parameters such as pH, BOD, COD, TDS, TSS, DO, etc. in house.
5.	Boiler stack emission and ambient air quality be regularly monitored and the monitored data should be submitted to the State Pollution Control Board once	We are monitoring the Boiler stack emission and ambient air quality through external agency on monthly basis in upwind direction and down wind direction and by TNPCB on Half yearly basis. Monitored datas are being



	in three months and once in six months to the Regional Office of the Ministry at Bangalore.	submitted to The Regional Office. We have connected the on line stack monitoring to TNPCB Care Air Centre.
6	The Funds earmarked for environmental production measures should not be directed for any other purpose	We have implemented all the environmental protection measures as recommended

6



TEST REPORT

Report Number and date	CTL/CH/N-26528/ 2022-23 & 26.09.2022		
Sample Number	N-26528/ 22-23		
Customer Name & Address	M/s. Global Calcium Pvt. Ltd Unit - III No.19 & 19B, SIPCOT Complex, Hosur - 635 126.		
SAMPLE DETAILS			
Sample Description	Ambient Air Quality		
Sampling Location	NEAR MAIN SECURITY GATE		
Sampling Method	IS 5182 (Part V) and (Part XIV)	Sampled By	Chennai Testing Laboratory Pvt. Ltd.,
Sampling Date & Time	21.09.2022 & 10.15 to 18.15		
Date of Receipt	22.09.2022	Sample Condition	Good
Analysis Starting Date	22.09.2022	Analysis Completion Date	26.09.2022

ENVIRONMENTAL CONDITION:

RELATIVE HUMIDITY	69%
AMBIENT TEMPERATURE	29°C
WIND DIRECTION	W
WEATHER CONDITION	Partly Cloudy

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM _{2.5})	CTL/SOP/AIR/03 - 2016	µg/m ³	31.0	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006	µg/m ³	67.6	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001	µg/m ³	13.7	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006	µg/m ³	28.6	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	34.0	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004	µg/m ³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	CTL/SOP/AIR/07- 2016 (INDOPHENOL METHOD)	µg/m ³	29.5	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	6
10	NICKEL (Ni)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006	µg/m ³	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004	ng/m ³	BDL(DL:0.5)	1

*National Ambient Air Quality Standards - CPCB

BDL - Below Detection Limit(D.L - Detection Limit)

Instrument Calibration Details : Envirotech - RDS Sampler S.No - 2025-DTD-2016 Due Date:09.10.2022

Conclusion:The Ambient air quality level are within the Prescribed limit as per NAAQS in the above location.

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

G. Manikandan

Authorised Signatory
G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

Page 1 of 1

The Report shall not be used to malign, defame and for any malicious purpose.
The Report is meant only for sole use of the addressee to promote his/her own business.

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Chennai - 600 032 | Tamil Nadu | India | Telefax : +91-44-2250 1757

TEST REPORT

Report Number and date	CTL/CH/N-26529/ 2022- 23 & 26.09.2022		
Sample Number	N-26529/ 22- 23		
Customer Name & Address	M/s. Global Calcium Pvt. Ltd Unit - III No.19 & 19B, SIPCOT Complex, Hosur - 635 126.		
SAMPLE DETAILS			
Sample Description	Ambient Air Quality		
Sampling Location	NEAR DG YARD		
Sampling Method	IS 5182 (Part V) and (Part XIV)	Sampled By	Chennai Testing Laboratory Pvt. Ltd.,
Sampling Date & Time	21.09.2022 & 10.00 to 18.00		
Date of Receipt	22.09.2022	Sample Condition	Good
Analysis Starting Date	22.09.2022	Analysis Completion Date	26.09.2022

ENVIRONMENTAL CONDITION:

RELATIVE HUMIDITY	69%
AMBIENT TEMPERATURE	29°C
WIND DIRECTION	W
WEATHER CONDITION	Partly Cloudy

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM _{2.5})	CTL/SOP/AIR/03 - 2016	µg/m ³	27.1	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006	µg/m ³	58.4	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001	µg/m ³	11.1	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006	µg/m ³	26.0	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	33.0	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004	µg/m ³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	CTL/SOP/AIR/07- 2016 (INDOPHENOL METHOD)	µg/m ³	25.0	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	6
10	NICKEL (Ni)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006	µg/m ³	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004	ng/m ³	BDL(DL:0.5)	1

*National Ambient Air Quality Standards - CPCB

BDL - Below Detection Limit(D.L - Detection Limit)

Instrument Calibration Details : Envirotech - RDS Sampler S.No - 2228-DTK-2017 Due Date:08.10.2022

Conclusion:The Ambient air quality level are within the Prescribed limit as per NAAQS in the above location.

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

G. Manikandan

Authorised Signatory
G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

Page 1 of 1

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Chennai - 600 032 | Tamil Nadu | India | Telefax : +91-44-2250 1757

TEST REPORT

Report Number and date	CTL/CH/N-26531/ 2022- 23 & 26.09.2022		
Sample Number	N-26531/ 22-23		
Customer Name & Address	M/s. Global Calcium Pvt. Ltd Unit - III No.19 & 19B, SIPCOT Complex, Hosur - 635 126.		
SAMPLE DETAILS			
Sample Description	Fugitive emissions		
Sampling Location	PLANT-2 REACTOR ROOM		
Sampling Method	CTL/SOP/AIR/024		
Sampled By	Chennai Testing Laboratory Pvt. Ltd.,		
Sampling Date	21.09.2022		
Date of Receipt	22.09.2022	Sample Condition	Good
Analysis Starting Date	22.09.2022	Analysis Completion Date	26.09.2022

RELATIVE HUMIDITY 67%

AMBIENT TEMPERATURE 29°C

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS
1	SUSPENDED PARTICULATE MATTER(SPM)	NIOSH - 0500	mg/m ³	0.031	15
2	RESPIRABLE PARTICULATE MATTER (RPM)	NIOSH - 0600	mg/m ³	0.016	5
3	ARSENIC	CTL/SOP/AIR/06 - 2016	mg/m ³	BDL(DL:0.001)	0.1
4	OZONE	CTL/SOP/AIR/08 - 2016	mg/m ³	0.042	0.2
5	CHLORINE	IS 5182 Part 19 -1982	mg/m ³	BDL(DL:0.05)	3
6	CARBON MONOXIDE (CO)	NIOSH - 6604	mg/m ³	BDL(DL:1.15)	50
7	CARBON DIOXIDE (CO ₂)	CTL/SOP/AIR/21 - 2016	PPM	401	5,000

*Occupational Safety and Health Standards

BDL - Below Detection Limit(D.L - Detection Limit)

Instrument Calibration Details: Envirotech - Handy Sampler S.No - 882 DTD 2018 Due Date -07.10.2022

Gas Alert Micro SPID Analyser - SK316-001592 Due Date - 22.05.2023

For Chennai Testing Laboratory Pvt Ltd



Authorised Signatory
G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

Page 1 of 2

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Chennai - 600 032 | Tamil Nadu | India | Telefax : +91-44-2250 1757

TEST REPORT

Report Number and date	CTL/CH/N-26531/ 2022-23 & 26.09.2022
Sample Number	N-26531/22-23

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	LIMITS
1	ZINC OXIDE	CTL/SOP/AIR/06 – 2016	mg/m ³	BDL(DL:0.005)	5
2	CALCIUM OXIDE		mg/m ³	BDL(DL:0.005)	5
3	BROMINE	CTL/SOP/AIR/30 - 2017	mg/m ³	BDL(DL:0.05)	0.7
4	ETHYL ALCOHOL	OSHA - 100	mg/m ³	1.42	1900

*Occupational Safety and Health Standards

BDL - Below Detection Limit(D.L - Detection Limit)

Instrument Calibration Details: Envirotech - Handy Sampler S.No - 882 DTD 2018 Due Date -07.10.2022

Gas Alert Micro SPID Analyser - SK316-001592 Due Date - 22.05.2023

*****END OF REPORT*****

For Chennai Testing Laboratory Pvt Ltd



Authorised Signatory

G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

Page 2 of 2



TAMILNADU POLLUTION CONTROL BOARD

Category of the Industry :

RED

CONSENT ORDER NO. 2205142857867

DATED: 06/09/2022.

PROCEEDINGS NO.T6/TNPCBF.0065HSR/RL/HSR/W/2022

DATED: 06/09/2022

SUB: Tamil Nadu Pollution Control Board -CONSENT TO OPERATE - DIRECT -M/s. GLOBAL CALCIUM PRIVATE LTD., UNIT III, S.F.No. Plot No. 19 & 19 B, MUKONDAPALLI village Hosur Taluk and Krishnagiri 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 Proc.No.T4/TNPCB/F.0065HSR/RL/HSR/A&W/2017dated: 29/08/2017.

2. Application No. 42857867 dt: 02/02/2022 .

3. IR.No : F.0065HSR/RL/JCEE-M/HSR/2022 dated 26/07/2022.

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. GLOBAL CALCIUM PRIVATE LTD., UNIT III

S.F.No. Plot No. 19 & 19 B,

MUKONDAPALLI Village,

Hosur Taluk,

Krishnagiri 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, 2027

JOSEPHINESAHAYARANI

Digitally signed by JOSEPHINESAHAYARANI
Date: 2022.09.07 11:59:16 +05'30'

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

To
The Director,

M/s.GLOBAL CALCIUM PRIVATE LTD., UNIT III,

Plot No.125,126,Sipcot Industrial Complex,Phase I,

Hosur taluk,Krishnagiri district,

Pin: 635126



TAMILNADU POLLUTION CONTROL BOARD

Copy to:

1. The Commissioner, HOSUR-Municipality, Hosur Taluk, Krishnagiri District.
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, HOSUR.
3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Vellore.
4. File



TAMILNADU POLLUTION CONTROL BOARD

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.	Pharmaceutical Bulk Drugs and Chemicals such as Mineral Salts of Gluconates, Citrate, Lactate, Lactobionate, Fumerates and Orotates, etc.,	1020	Tons/ Year
2.	Calcium Glubionate, Calcium Boro Gluconate, Calcium Lacto Gluconate and other Mineral Salts.	1034	Tons/ year

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	4.0	On Industrys own land
Effluent Type : Trade Effluent			
1.	Trade Effluent	38.5	R.O. Permeate - Reused. R.O. Reject - Evaporated

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



TAMILNADU POLLUTION CONTROL BOARD

Sl. No.	Parameters	Unit	TOLERANCE LIMITS - OUTLETS -Nos	
			Sewage	Trade Effluent
			1	1
1.	pH		5.5 to 9	5.5 to 9
2.	Temperature	oC	-	shall not exceed 5°C above the receiving water temperature
3.	Particle size of Suspended solids	-	-	shall pass 850 micron IS sieve
4.	Total Suspended Solids	mg/l	30	100
5.	Total Dissolved solids (inorganic)	mg/l	-	2100
6.	Oil & Grease	mg/l	-	10
7.	Biochemical Oxygen Demand (3 days at 27oC)	mg/l	20	30
8.	Chemical Oxygen Demand	mg/l	-	250
9.	Chloride (as Cl)	mg/l	-	1000
10.	Sulphates (as SO4)	mg/l	-	1000
11.	Total Residual Chlorine	mg/l	-	1
12.	Ammonical Nitrogen (as N)	mg/l	-	50
13.	Total Kjeldahl Nitrogen (as N)	mg/l	-	100
14.	Free Ammonia (as NH3)	mg/l	-	5
15.	Arsenic (as As)	mg/l	-	0.2
16.	Mercury (as Hg)	mg/l	-	0.01
17.	Lead (as Pb)	mg/l	-	0.1
18.	Cadmium(as Cd)	mg/l	-	2
19.	Hexavalent Chromium (as Cr+6)	mg/l	-	0.1
20.	Total Chromium (as Cr)	mg/l	-	2
21.	Copper (as Cu)	mg/l	-	3
22.	Zinc (as Zn)	mg/l	-	1
23.	Selenium (as Se)	mg/l	-	0.05
24.	Nickel (as Ni)	mg/l	-	3
25.	Boron (as B)	mg/l	-	2
26.	Percent Sodium	%	-	-
27.	Residual Sodium Carbonate	mg/l	-	-
28.	Cyanide (as C ⁻ N)	mg/l	-	0.2
29.	Fluoride (as F)	mg/l	-	2
30.	Dissolved Phosphates(as P)	mg/l	-	5
31.	Sulphide (as S)	mg/l	-	2
32.	Pesticides	mg/l	-	-
33.	Phenolic Compounds (as C6H5OH)	mg/l	-	1
34.	Radioactive materials a) Alpha emitters	micro curie/ml	-	10-7
35.	Radioactive materials b). Beta emitters	micro curie/ml	-	10-6



TAMILNADU POLLUTION CONTROL BOARD

36.	Fecal Coliform	MPN/100ml	-	-
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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 SI 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 SI. 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.

Special Additional Conditions:

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.

Additional Conditions:



TAMILNADU POLLUTION CONTROL BOARD

1. The unit shall not go for any expansion without obtaining prior consent of the Board.
2. The unit shall treat & dispose the sewage in the existing Septic tank soak pit arrangement.
3. The unit shall improve, operate and maintain the ETP to treat the trade effluent to achieve the standards of TNPCB at all time including the parameter pH. (Since 4/10 samples collected during 2021-22 exceeded the standard)
4. The unit shall maintain the EMFMs with computer recording arrangement.
5. The unit shall operate and maintain the energy meter at RO&RMS efficiently and continuously so as to assess the operation of ZLD system provided.
6. The unit shall always adhere to the condition as stipulated in the authorization issued under the Hazardous and other wastes (M & TM) Rules, 2016.
7. The unit shall comply the provisions under the Hazardous and other wastes (M & TBM) Rules, 2016 as amended.
8. The unit shall operate and maintain the online connectivity of EMFMs with WQW, TNPCB/CPCB efficiently and continuously at all times
9. The unit shall comply with the directions issued by TNPCB/CPCB from time to time.
10. In case of revision of consent fee by the Government, the unit shall remit the difference in amount within one month from the date of notification. Failing to remit the consent fee, this consent order will be withdrawn without any notice and further action will be initiated against the unit as per law.
11. 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 unit 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.,

JOSEPHINESAHAYARANI

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Date: 2022.09.07 12:00:00 +05'30'

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 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.



TAMILNADU POLLUTION CONTROL BOARD

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.

JOSEPHINESAHAYARANI

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Date: 2022.09.07 12:00:25 +05'30'

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai



TAMILNADU POLLUTION CONTROL BOARD

Category of the Industry :

RED

CONSENT ORDER NO. 2205242857867 DATED: 06/09/2022.

PROCEEDINGS NO.T6/TNPCB/F.0065HSR/RL/HSR/A/2022 DATED: 06/09/2022

SUB: Tamil Nadu Pollution Control Board –CONSENT TO OPERATE –DIRECT –M/s. GLOBAL CALCIUM PRIVATE LTD., UNIT III , S.F.No. Plot No. 19 & 19 B, MUKONDAPALLI village Hosur Taluk and Krishnagiri 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 Proc.No.T4/TNPCB/F.0065HSR/RL/HSR/A&W/2017dated: 29/08/2017.
 2. Application No. 42857867 dt: 02/02/2022 .
 3. IR.No : F.0065HSR/RL/JCEE-M/HSR/2022 dated 26/07/2022.

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. GLOBAL CALCIUM PRIVATE LTD., UNIT III
S.F.No. Plot No. 19 & 19 B,
MUKONDAPALLI Village,
Hosur Taluk,
Krishnagiri 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, 2027

JOSEPHINESAHAYARANI

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Date: 2022.09.07 12:01:01 +05'30'

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

The Director,

M/s.GLOBAL CALCIUM PRIVATE LTD., UNIT III,
Plot No.125,126,Sipcot Industrial Complex,Phase I,
Hosur taluk,Krishnagiri district,
Pin: 635126



TAMILNADU POLLUTION CONTROL BOARD

Copy to:

1. The Commissioner, HOSUR-Municipality, Hosur
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, HOSUR
3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Velore.
4. File

Talu, Krishnagiri District



TAMILNADU POLLUTION CONTROL BOARD

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.	Pharmaceutical Bulk Drugs and Chemicals such as Mineral Salts of Gluconates, Citrate, Lactate, Lactobionate, Fumerates and Orotates, etc.,	1020	Tons/ Year
2.	Calcium Glubionate, Calcium Boro Gluconate, Calcium Lacto Gluconate and other Mineral Salts.	1034	Tons/ year

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.



TAMILNADU POLLUTION CONTROL BOARD

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 Nm ³ /hr
01	Reactor	Wet scrubber with stack	12.0	
02	Fluid Bed Drier - 60 Kgs	Bag Filters with stack	2.92	
03	Fluid Bed Drier - 60 Kgs	Bag Filters with stack	2.92	
04	Fluid Bed Drier - 120 Kgs	Bag Filters with stack	7.0	
05	Fluid Bed Drier - 60 Kgs	Bag Filters with stack	2.92	
06	Spray Drier 1	Dust collectors with stack	22.0	
07	Spray Drier 2	Dust collectors with stack	22.0	
08	Boiler - 3 Tons	Dust collectors with stack	30.0	
09	DG Set - 380 KVA	Stack	10.0	
10	DG Set - 180 KVA	Stack	10.0	
11	ATFD Reactor	Wet scrubber with stack	12.0	
12	ATFD Drier	Dust collectors with stack	12.0	
13	ATFD Blender	Dust collectors with stack	10	
14	AHU Exhaust- Plant 2	Stack	10.0	
15	Boiler for MEE/ATFD	Dust collectors with stack	30	
16	DG Set -250KVA (Standby)	Stack	10.0	
II Fugitive/Noise emission :				
Sl. No.	Fugitive or Noise Emission sources	Type of emission	Control measures	
1.	DG set	Noise	Acoustic Enclosures	
2.	DG set	Noise	Acoustic Enclosure	
3.	DG set	Noise	Acoustic Enclosure	

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.



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 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 PM10	Annual 24 hours	microgram/m ³ microgram/m ³	60 100	60 100
4.	Particulate Matter (Size Less than 2.5 micro M) or PM2.5	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	milligram/m ³ milligram/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.



TAMILNADU POLLUTION CONTROL BOARD

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 carry out 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.

Special Additional Conditions:

i. The unit shall install the approved retrofit emission control device/equipment with at least 70% Particulate matter reduction efficiency on all DG sets with capacity of 125 KVA and above or otherwise the unit shall be shift to gas based generators within the time frame prescribed in the notification No. TNPCB/Labs/DD(L)02 /51/2019 dated 10.06.2020 issued by TNPCB.

ii. 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.

Additional Conditions:

1. The unit shall operate and maintain the Air Pollution Control Measures efficiently and continuously so as to bring down the quality of emission to satisfy the ambient Air Quality / emission standards prescribed by the Board.

2. The unit shall provide uninterrupted quality data to CAC, TNPCB, Chennai from the online monitors provided for the effluent and emission parameter.

3. The unit shall ensure that there is no emission of Bromine Gas & VOC emission into the atmosphere and the unit shall adhere to the recommendation of a study conducted through CES, Anna University, Chennai regarding the Water, Air and Noise pollution in and around the unit premises.

4. The unit shall comply with the directions issued to the Pharmaceutical Industry for online monitoring of effluent and emission monitoring by TNPCB/CPCB from time to time.

5. The unit shall operate and maintain the online connectivity of OCEMS with CAC, TNPCB/CPCB efficiently and continuously at all times

6. The unit shall continue to develop more green belt in and around the unit premises.

7. 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 unit 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.,

8. In case of revision of consent fee by the Government, the unit shall remit the difference in amount within one month from the date of notification. Failing to remit the consent fee, this consent order will be withdrawn without any notice and further action will be initiated against the unit as per law.

JOSEPHINESAHAYARANI

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Date: 2022.09.07 12:01:29 +05'30'

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.

JC SEPHINESAHAYARANI

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Date: 2022.09.07 12:01:52 +05'30'

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

AUTHORISATION No. 22HFC35138126 dated 02/12/2022

Proceeding No. T1/TNPCB/F.0065HSR/HWA/RL/HSR/2022 dated 02/12/2022

Sub: Tamil Nadu Pollution Control Board – Hazardous Waste Authorization-Fresh- M/s. GLOBAL CALCIUM PRIVATE LTD., UNIT III, S.F.No. Plot No. 19 & 19 B, MUKONDAPALLI Village, HOSUR Taluk, Krishnagiri District - Authorization under Rule 6 (2) of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 enacted under Environment (Protection) Act, 1986 – Issued- Reg.

Ref: 1. Application No. 35138126 dated: 05/02/2021 under HOWM Rules, 2016
2. HWA-IR.No.0065HSR/HWA/RL/JCEE-M/HSR/2022 dated: 31/10/2022

FORM 2

[See rule 6 (2)]

FORM FOR GRANT OR RENEWAL OF AUTHORISATION TO THE OCCUPIERS, RECYCLERS, REPROCESSORS, REUSERS, USER AND OPERATORS OF DISPOSAL FACILITIES

1. Number of authorization: 22HFC35138126 and dated : 02/12/2022
2. The Director of M/s. GLOBAL CALCIUM PRIVATE LTD., UNIT III is hereby granted an Authorisation based on the enclosed signed Inspection report for Generation & Handling of hazardous or other wastes or both on the premises situated at S.F.No. Plot No. 19 & 19 B, MUKONDAPALLI Village, HOSUR Taluk, Krishnagiri District.

Sl No	Schedule / Name of the Processes	Name of Hazardous Waste (with category No)	Quantity	Activities for which Authorization is issued
1	Schedule I /5. Industrial operations using mineral or synthetic oil as lubricant in hydraulic systems or other applications	5.1-Used or spent oil	0.20 T/Annum	Generation, Collection, Storage & Sent to Authorised Recyclers for reprocessing purpose (Recyclable)
2	Schedule I /28. Production/formulation of drugs/pharmaceutical and health care product	28.1-Process Residue and wastes	3.0 T/Annum	Generation, Collection, Storage & Sent to Authorised HW Pre-processor for preparing for co-processing (Utilisable)
3	Schedule I /28. Production/formulation of drugs/pharmaceutical and health care product	28.3-Spent carbon	2.0 T/Annum	Generation, Collection, Storage & Sent to Authorised HW Pre-processor for preparing for co-processing (Utilisable)
4	Schedule I /28. Production/formulation of drugs/pharmaceutical and health care product	28.4-Off specification products	1.0 T/Annum	Generation, Collection, Storage & Sent to Authorised HW Pre-processor for preparing for co-processing (Utilisable)
5	Schedule I /28. Production/formulation of drugs/pharmaceutical and health care product	28.5-Date-expired products	0.5 T/Annum	Generation, Collection, Storage & Sent to Authorised HW Pre-processor for preparing for co-processing (Utilisable)
6	Schedule I /33. Handling of hazardous chemicals and wastes	33.1-Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	3.0 T/Annum	Generation, Collection, Storage & Sent to Authorised Utilisers for recycling (Utilisable)
7	Schedule I /35. Purification and treatment of exhaust air/gases, water and waste water from the processes in this schedule and common industrial effluent treatment plants (CETP's)	35.3-Chemical sludge from waste water treatment	30.0 T/Annum	Generation, Collection, Storage & Sent to Authorised HW Pre-processor for preparing for co-processing (Utilisable)
8	Schedule I /35. Purification and treatment of exhaust air/gases, water and waste water from the processes in this schedule and common industrial effluent treatment plants (CETP's)	35.3-Chemical sludge from waste water treatment	30.0 T/Annum	Generation, Collection & Storage of MEE/ATFD Salt in closed shed within the premises

3. This authorization shall be valid for a period upto 31/03/2027.
- The Authorization is issued subject to the following general and special conditions annexed.

JOSEPHINESAHAYARANI

For Member Secretary
Tamil Nadu Pollution Control Board
Chennai

Digitally signed by JOSEPHINESAHAYARANI
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c=IN, postalCode=600002
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A. GENERAL CONDITIONS OF AUTHORIZATION

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986 and the rules made there under.
2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by Tamil Nadu Pollution Control Board.

3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this Authorisation.
4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
5. The person authorised shall implement Emergency Response procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire ,etc and their possible impacts and also carry out mock drill in this regard at regular interval of time.
6. The person authorised shall comply with the provisions outlined in the CPCB guidelines on “Implementing Liabilities for Environmental damages due to Handling and Disposal of Hazardous Wastes and Penalty”.
7. It is the duty of the authorized person to take prior permission of Tamil Nadu Pollution Control Board to close down the facility.
8. The imported Hazardous and other wastes shall be fully insured for transit as well as the accidental occurrences and its clean-up operation.
9. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
10. The Hazardous and other wastes which gets generated during recycling or reuse or recovery or pre-processing or utilisation of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of Authorisation.
11. The importer or Exporter shall bear the cost of import or export or mitigation of damages if any.
12. An application for the renewal of an authorization shall be made as laid down under these Rules.
13. Any other conditions for compliance as per the Guidelines issued by the MoEF and CC or CPCB from time to time.
14. Annual returns shall be filed by June 30th for the period ending 31st March of the previous financial year.

B. SPECIFIC CONDITIONS - HW Generator

1. The occupier/generator shall be responsible for safe and environmentally sound management of hazardous and other wastes.
2. The occupier shall follow the following steps for the management of hazardous and other wastes. (a) prevention (b) minimization (c) reuse (d) recycling (e) recovery, utilisation including co-processing and (f) safe disposal
3. The occupier shall take all the steps while managing hazardous and other wastes - (a) To contain contaminants and prevent accidents and limit their consequences on human beings and the environment; and (b) To provide persons working in the site with appropriate training, equipment and the information necessary to ensure their safety.
4. The occupier shall store the hazardous and other wastes for a period not exceeding ninety days and shall maintain a record of sale, transfer, storage, recycling, recovery, pre-processing, co-processing and utilisation of such wastes and make these records available for inspection:
5. The hazardous and other wastes shall be stored temporally in an isolated area earmarked for the purpose within the occupier’s premises (it shall not be accessible to rain water) till scientific disposal. The storage area shall be fenced properly and a sign of danger shall be placed at the storage site.
6. The containers holding the hazardous and other wastes shall be kept in good condition and made of materials which can withstand the physical and environmental conditions during storage and transportation. Only properly cleaned containers shall be used for storage of hazardous and other wastes.
7. The occupier handling hazardous or other wastes shall maintain records of such operations of generation, handling, storage and disposal as per Form 3.
8. The hazardous and other wastes generated in the establishment of the occupier shall be sent or sold to an authorised actual user or shall be disposed of in an authorised disposal facility.
9. The occupier handling hazardous or other wastes shall ensure that the hazardous and other wastes are packaged in a manner suitable for safe handling, storage and transport as per the guidelines issued by the Central Pollution Control Board from time to time
10. The labelling of package of hazardous or other wastes shall be done as per Form 8. The label shall be of non-washable material, weather proof and easily visible.

11. The hazardous and other wastes shall be transported from the occupier's establishment to an authorised actual user or to an authorised disposal facility in accordance with the provisions of these rules.
12. The transport of the hazardous and other wastes shall be in accordance with the provisions of these rules and the rules made by the Central Government under the Motor Vehicles Act, 1988 and the guidelines issued by the Central Pollution Control Board from time to time in this regard..
13. The occupier shall provide the transporter with the relevant information in Form 9, regarding the hazardous nature of the wastes and measures to be taken in case of an emergency and shall label the hazardous and other wastes containers as per Form 8
14. The authorisation for transport shall be obtained either by the sender or the receiver on whose behalf the transport is being arranged.
15. The transporter/sender of the hazardous and other wastes shall prepare and maintain manifest in Form 10.
16. The occupier or the operator or the transporter shall immediately intimate TNPCB through telephone, e-mail about the accident and subsequently send a report in Form 11, where an accident occurs at the facility of the occupier handling hazardous or other wastes and operator of the disposal facility or during transportation
17. The occupier who intends to get its hazardous and other wastes treated and disposed of by the operator of a treatment, storage and disposal facility shall give to the operator of that facility, such specific information as may be needed for safe storage and disposal.
18. The occupier shall be liable for all damages caused to the environment due to improper handling and management of the hazardous and other wastes.
19. The occupier handling hazardous and other wastes shall submit annual returns containing the details specified in Form 4 to TNPCB on or before the 30th day of June of every year for the preceding period April to March.
20. Any increase in quantity of handling of hazardous and other wastes, any change in category of hazardous and other wastes and any change in method of handling operations shall be brought to the notice of the TNPCB and fresh authorization shall be obtained.

ADDITIONAL SPECIFIC CONDITIONS

1. The unit shall comply with the provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 as amended from time to time while handling of hazardous wastes.
2. The unit shall generate, collect, store and send the Schedule-1 HW category 5.1-Used or spent oil to TNPCB Authorized Recycler of M/s Sri Gowri Industries, Coimbatore as per the agreement executed for recycling purpose only.
3. The unit shall generate, collect, store and send the Schedule-1 HW categories 28.1_Process residues, 28.3_Spent carbon, 28.4_Off specification products, 28.5_Date expired products (if generated) & 35.3_ETP bio-sludge to TNPCB Authorised Pre-processor of M/s. Green Gene Enviro Protection and Infrastructure Limited (GGEPIL), Ranipet as per the agreement executed for pre-processing of such hazardous wastes so as to utilise for co-processing in the cement industries.
4. The unit shall generate, collect, store and send the Schedule-1 HW category 33.1_Empty barrels/containers contaminated with hazardous chemicals/wastes to TNPCB Authorized Utilisers of M/s Realco Recycling Company, Gummidipoondi as per the agreement executed for cleaning & recycling for the original intended purpose only.
5. It shall be ensured that the hazardous wastes shall be sent to TNPCB Authorised Recycler/Utiliser/Pre-processor having valid consent under Water & Air Acts and valid Authorisation under HOWM Rules, 2016 at all times.
6. The unit shall generate, collect and store the Schedule-1 HW category 35.3_ATFD Salt generation from tertiary treatment (thro' RO+MEE-ATFD) of trade effluent within the premises properly till find out suitable utilisers of the same for the beneficial purpose, following SOP issued by CPCB .
7. The unit shall find out suitable beneficiaries for utilising ATFD (mixed salt) Salt generated from the ZLD of treatment system so as to avoid accumulation of the same within the premises.
8. The unit shall store the hazardous wastes in containers, barrels with labelling as per FORM-8 on impervious floor under closed shed within the premises temporarily for a period not exceeding ninety days as per the Rule 8 of HOWM Rules, 2016 before scientific disposal.

9. The unit shall maintain records in FORM-3 for the hazardous wastes generation, storage within the premises including disposal and furnish Annual Returns in FORM-4 for every financial year before 30th June to TNPCB.
10. The unit shall ensure that the transport container shall be marked and labelled as prescribed n Form-12 of the HOWM Rules, 2016.
11. The unit shall follow the procedures in respect of hazardous waste manifest system (movement document) for the transport of hazardous waste as per HOWM Rule 21.
12. The unit shall generate manifest document in Form-10 thro’ online facility available in OCMMS portal [OHWMA] for transport of hazardous waste as per provisions (Rule-19) of HOWM Rules, 2016 & maintain the records & submit to TNPCB.
13. In case of environmental damages arising due to improper handling of hazardous wastes including accidental spillage during generation, storage, processing, transportation and disposal, the unit shall be liable to implement immediate response measures, environmental site assessment and remediation of contaminated soil/ groundwater/ sediment etc. as per the “Guidelines on Implementing Liabilities for Environmental Damages due to Handling & Disposal of Hazardous Wastes and Penalty” published by CPCB
14. The unit shall update information on HW details in the DISPLAY BOARD installed at the factory entrance gate regularly.
15. The unit shall operate with valid Consent under Water Act & Air Act & Authorization under HOWM Rules, 2016 at all times.

JOSEPHINESAHAYARANI

Digitally signed by JOSEPHINESAHAYARANI
DN: cn=JOSEPHINESAHAYARANI, o=TAMIL NADU POLLUTION CONTROL BOARD, ou=CHENNAI, postalCode=600032, st=Tamil Nadu,
c=IN, email=josephinesahayarani@tnpcb.gov.in, serialNumber=10244488F3A8C0B7F4D1BEE17D5F7F9E,
serialNumber=10244488F3A8C0B7F4D1BEE17D5F7F9E,
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Date: 2023.12.16 12:51:16 +05'30'

For Member Secretary
Tamil Nadu Pollution Control Board
Chennai

To
The Director
GLOBAL CALCIUM PRIVATE LTD., UNIT III
Plot No.19,19B,Sipcot Industrial Complex,Phase I,Hosur taluk,Krishnagiri district
Pin:635126

Copy to:

1. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Vellore.
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, HOSUR.

GCIII/WED/TNPCB/ 2022-23

08.06.2022



Global Calcium
Adding Life to Life
UNIT III

To

The District Environmental Engineer,
Tamil Nadu Pollution Control Board,
149, SIPCOT Industrial complex,
HOSUR -635126

Dear Sir

- Sub. : World Environment Day -06- 06.2022

As part of the World Environment Day Celebration we have celebrated on 06.06.22 at 12.00 noon and the following events were conducted.

1. Tree Plantation: We have planted 100 Nos of trees with guard in the sides of SIPCOT road from Dharga- backside and front side of our unit and will be maintained continuously.
2. Our senior officers has given speeches about the Environment among our employees.
3. We have distributed 100 Nos Trees to our employees.

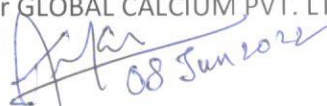
The function ended with vote of thanks.

Photos of the same is enclosed for your reference.

Thanking you

Yours faithfully

For GLOBAL CALCIUM PVT. LTD., Unit III


(K. Palaniyandi)

General Manager (Mfg)

Encl. As above

CC. : JCEE(M) , TNPCB, Vellore

GLOBAL CALCIUM PVT. LTD., Unit III, HOSUR

World Environment day Celebrations -06.06.22



GLOBAL CALCIUM PVT. LTD., Unit III, HOSUR

World Environment day Celebrations -06.06.22



GLOBAL CALCIUM PVT. LTD., Unit III, HOSUR

World Environment day Celebrations -06.06.22



GLOBAL CALCIUM PVT. LTD., Unit III, HOSUR

World Environment day Celebrations -06.06.22



