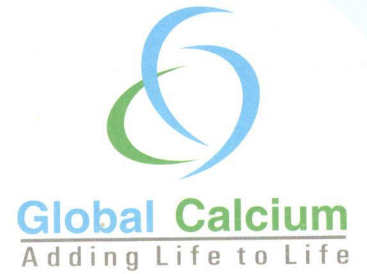


GC/786/ MoEF/ RO/ 2023-24

11. 10.2023



To

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

Dear Sir,

Sub. : Half-yearly Compliance Report upto Sep 23 - Reg
Ref. : 1. MoEF clearance No J-11011/411/2006-I A II (I) dt 01.08.2007
2. MoEF clearance No J-11011/411/2006-I A II (I) dt 16.08.2016
3. EC23A021TN110777 File No. - IA-J-11011/411/2006-IA II (I)

Date of Issue EC - 30/01/2023

With reference to the above we are sending herewith the Half - yearly report ending September 23. We obtained the CTO renewal valid upto 31.3.24 from TNPCB. Please note that we have not obtained any financial assistance from any Institution and met with internal funds only. We obtained the EC from MoEFCC on 31.01.23 and applied for CTE and obtained. Now we have almost completed the project applied for CTO and awaiting for the same.

The present status of the project is in running condition.

Kindly acknowledge the receipt of the same.

Thanking you
Yours faithfully
For GLOBAL CALCIUM PVT. LTD.,

Authorised Signatory

Encl. : As above

email.info@globalcalcium.com

www.globalcalcium.com

GLOBAL CALCIUM PVT. LTD.

REGD. OFFICE / PLANT :
125 & 126, SIPCOT Industrial Complex,
Hosur 635 126, India.
Tel: 91 - 4344 - 406000
276958 / 276959
Fax 91-4344-276126

CORPORATE OFFICE :
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eGMP, HACCP, ISO9001, ISO14001, FSSC 22000 Approved Facility

CIN : U02429TZ1979PTC009946

**HALF YEARLY ENVIRONMENTAL CLEARANCE
COMPLIANCE REPORT ENDING September 23**

EC OBTAINED Vide Letter Nos

1. F. No. J-11011/411/2006-IA-II(I) dated 1st August 2007
2. MoEF clearance No J-11011/411/2006-I A II (I) dt 16.08.2016
3. EC23A021TN110777 File No. - IA-J-11011/411/2006-IA II (I) Date of Issue EC - 30/01/2023

by

M/s Global Calcium Pvt. Ltd.,

**at Plot No.124,125,126 , SIPCOT Complex,
Hosur ,
District Krishnagiri, Tamil Nadu. 635126**

Submitted to

Ministry of Environment, Forests and Climate Change Integrated Regional Office, I
Floor, Additional Office Block for GPOA, Shastri Bhavan, Haddows Road
Nungambakkam, Chennai 600 006

Sep 23

GLOBAL CALCIUM PRIVATE LTD.,
125&126, SIPCOT COMPLEX, HOSUR 635 126

Ref : No. J-11011/411/2006-IA-II(I) dated 1st August 2007

Compliance Report for the Period ending 31.09.2023

Sl. No.	Specific Conditions	Compliance
1.	All electrolytic cells shall be connected to a common Fume Scrubber which in turn shall be connected to the stack. Bag filter shall be provided for drying and milling section. Stack height with these will be 12m. The Boiler will have a stack of 15m and DG Sets will have a stack of 8-10m. Spray driers will also have +bag filters connected to stack of 22m.	<p>We have connected all electrolytic Cells to a common fume scrubber of 2 Nos which in turn is connected to a stack of 12mts height each.</p> <p>We have provided Exclusive bag filter provided for the drying and milling section and is connected to a stack of 12mts height.</p> <p>Further boiler (Briquette fired- Agro waste) with 30 meter height and DG sets each of 12 meter height are also provided. Spray drier with multicone cyclone separator connected to 22 meters height of stacks.</p>
2.	Bromine shall be analysed in ambient air and from the inlet and outlet of scrubber once in a week.	We are monitoring the Bromine on a regular basis in the ambient air and at the inlet and outlet of the scrubber.
3.	The gaseous emissions (SO ₂ , NO _x , and Br) along with particulate matter and RSPM 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 monitoring the gaseous emissions (SO ₂ , NO _x , and Br) along with particulate matter and RSPM from the various process units through approved laboratory once in a month and the levels are within the limit. Bromine also monitored and found BDL. We assure that in the event of failure of the pollution control systems adopted by us, we will not restart the unit till it is rectified.
4.	The ambient air quality monitoring stations will be set up in consultation with the State Pollution Control Board. It will be ensured that at least one monitoring station is set up in up-wind & in down-wind direction along	We are monitoring the ambient air quality in upwind direction and down wind direction in consultation with PCB. Stack emission monitored data is transferred on line to CARE air center of TNPCB and the

	with those in other directions. On-line data for air emissions shall be transferred to the CPCB and SPCB regularly. The instruments used for ambient air quality monitoring shall be calibrated regularly.	PCB informed us the same will be transmitted to CPCB by them. The instruments used for ambient air quality monitoring is calibrated regularly by third party.
5.	Dedicated scrubbers and stacks of appropriate height as per the Central pollution Control Board guidelines shall be provided to control the emissions from various vents. The scrubbed water shall be sent to ETP for further treatment.	We have provided two numbers of dedicated Bromine scrubbers with appropriate stack height and the scrubbed water is being sent to ETP for further treatment.
6.	As submitted, 0.6 ha will be developed as green belt as per the CPCB guidelines.	We have developed more than 1.14 ha including the proposed expansion of green belt within our factory premises by planting different kinds/species and the survival rate is more than 95%.
7.	Fugitive emissions in the work zone environment, product, raw materials storage area shall be regularly monitored. The emission shall conform to the limits imposed by the State Pollution Control Boards/Central Pollution Control Board.	We are monitoring the fugitive emissions in the work zone environment, product, raw materials storage area through approved laboratory and the levels are within the limit.
8.	The raw water requirement shall not exceed 142 KLD after the expansion. Raw water shall be sourced from the SIPCOT water supply.	As on today we are consuming less than 92 KLD which is well below the permitted limit and SIPCOT is supplying the water to us. Including the API Expansion vide MoEF clearance No J-11011/411/2006-I A II (I) dt 16.08.2016
9.	Wastewater generation shall not exceed 60 KLD. Two stage R.O. Plant shall be installed for final treatment of the waste water and the treated water will be used for Green Belt development. There shall be no effluent discharge from the plant. The treated wastewater shall meet the relevant norms for the wastewater as provided by the SPCB. The unit shall utilize treated water.	We have installed ETP. Our waste water generation per day is 65 - 70 KLD including sewage for the Bulk drug and API The same is treated and the treated waste water is sent to RO plant in turn permeate is reused in the cooling tower as well as in boiler. By doing this we are achieving 'Zero Discharge'. We are evaporating the RO reject in MEES and ATFD including the API expansion vide clearance MoEF clearance No J-11011/411/2006-I A II (I) dt 16.08.2016
10.	About 3.0 TPA of process sludge and 1.5 TPA of ETP sludge will be generated which is non toxic as per the data submitted by the unit. The solid waste shall be collected in polythene bags and shall be stored within plant	We are collecting the process sludge and ETP sludge in the polythene bags and storing in a closed room which is having impervious floor. The generation of solid waste is within the limit. We are sending

	premises in a temporary roofed storage yard with impervious flooring till a common facility develops. The storage shall be covered and floor shall be non-leachable.	this sludge to Green Gene Enviro Protection Infrastructure, Ranipet. for further pre treatment.
11.	The company shall develop rainwater-harvesting structures to harvest the run off water for recharge of ground water.	We have made Rain Water Harvesting system at 7 places within our factory.
12.	Occupational health surveillance (OHS) of the workers shall be done on a regular basis and records maintained as per the Factories Act.	As per the Factories' Act we are checking the occupational health for all the workers and maintaining records.
13.	Appropriate and adequate PPEs shall be provided to all the workers and employees and it use of these may be ensured.	We have provided PPE to all the people and all are using the same.
14.	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment. The eco-development plan should be submitted to the SPCB within three months of receipt of this letter for approval.	We have developed good green belt within our factory. Under CSR scheme we extended financial assistance to various schools, hospitals and orphanages in and around Hosur. Under this scheme we have incurred Rs. 321.2 Lakhs during 22-23
15.	All safety precautions shall be implemented as given in the EIA/EMP report as submitted to the Ministry.	We have implemented all the safety precautions which are given in EIA/EMP reports.
16.	Responses to the issues raised during the Public Hearing shall be implemented.	We have implemented all the issues raised during the public hearing.

General Conditions :

1	The project authorities shall strictly adhere to the stipulations made by the State Pollution Control Board.	We are implementing all the conditions stipulated by the TNPCB. We have valid consent renewal upto 2024. We obtained CTE for the proposed expansion.
2.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	We have gone for an expansion of additionally about 14 products (60 TPA). These 14 products will be manufactured based on the market demand at a time one or more products within the existing factory premises. We got the Environment Clearance for our expansion. We got the required CTO from TNPCB. Again we have gone for another expansion and got the EC vide EC23A021TN110777 File No. - IA-J-11011/411/2006-IA II (I) Date of Issue EC - 30/01/2023 applied for CTE and obtained the same
3.	At no time, the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit,	At no time, the emissions levels have gone beyond the prescribed limits. We will shut-down the respective unit in the event of

	the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.	failure of any pollution control system adopted by us until it is rectified.
4.	The project authorities shall strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October, 1994 and January, 2000. authorization from the SPCB shall be obtained for collection, treatment, storage, and disposal of hazardous wastes.	An authorization from TNPCB under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October, 1994 and January, 2000. Authorisation for Hazardous waste has been obtained from TNPCB including the expansion valid upto 16.03.2025
5.	The overall noise levels and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation, the ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Through external agency at 10 locations the noise levels are monitored once in a month during day and night time and the levels are within the limit
6.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report.	We have implemented all the environmental protection measures and safeguards as recommended in the EIA/EMP report
7.	A separate Environmental Management cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and monitoring functions.	We have environmental management cell with laboratory to monitor effluent quality. Further we are using the external laboratory facility for monitoring ambient air quality, stack emission and noise levels.
8.	The project authorities shall earmark separate funds to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	An amount of Rs.9.2 Crores was allocated for environment management purpose and every year we are spending Rs. 90.0 lakhs under recurring expenditure including green belt development.
9.	The implementation of the project vis-à-vis environmental action plans shall be monitored by the concerned Regional Office of the Ministry / SPCB / CPCB. A six-monthly compliance status report shall be submitted to monitoring agencies and displayed at the website of the company.	We are submitting the half yearly compliance report regularly to the Regional Office, Chennai and have uploaded the same in our company's web site

10.	<p>The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at website of the Ministry at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.</p>	<p>We have given advertisement in two local newspapers and submitted a copy of the same to Regional Office, Bangalore.</p>
11.	<p>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 the project.</p>	<p>We have not availed any financial assistance from any institution, hence have not informed the same to the Regional Office, Bangalore</p>

GLOBAL CALCIUM PVT. LTD., HOSUR
Half Yearly Compliance Report ending Sep 23
Environmental Clearance No – J-11011/411/2006- I A II (I) dt
16.08.2016

S.No	Condition	Compliance
A I	SPECIFIC CONDITIONS: National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July 2010 and amended time to time shall be followed by the unit.	We are following the standards prescribed as per GSR 608(E) dt 21.7.2010
ii	Bag filter and the stack of adequate height shall be provided to additional coal fired boiler. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.	Mechanical Dust collectors provided for the boiler stack and provided adequate stack height of 30 meters
Iii	Scrubber shall be provided to control process emissions viz. Br ₂ . The scrubbing media shall be sent to effluent treatment plant (ETP) for treatment. Efficiency of scrubber shall be monitored regularly and maintained properly. At no time, the emission levels shall go beyond the prescribed standards.	We have connected the fume scrubber with soda solution as media, scrubbed liquid is being sent to ETP. The efficiency of scrubber is being monitored regularly
Iv	Ambient air quality data shall be collected as per NAAQES standards notified by the Ministry vide G.S.R. No 826(E) dated 16 th September 2009. The levels of PM _{2.5} , PM ₁₀ , SO ₂ , NO _x , VOC, CO and Br ₂ shall be monitored in the ambient air and emissions from the stacks and displayed at a convenient location near the main gate of the company and at important public places. The company shall upload the results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MOEF, the respective Zonal office of CPCB and the State Pollution Control Board (SPCB).	We have installed 'On line Monitoring of gaseous emission and the same is connected to Tamil Nadu Pollution Control Board. Apart from that we are regularly monitoring and report sent to TNPCB. The data uploaded in our web site. We are sending the same to Zonal office regularly.

V	<p>In plant control measured for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling and conveyance of chemicals/materials, multi cyclone separator and water sprinkling system. Dust suppression system including water sprinkling system shall be provided at loading and unloading areas to control dust emissions. Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emissions shall conform to the limits stipulated by the SPCB. Odour management plan shall be implemented.</p>	<p>We are monitoring the fugitive emissions in the work zone environment, product, raw materials storage area through approved laboratory and the levels are within the limit.</p>
Vi	<p>The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.</p>	<p>We have provided adequate height of stacks with Acoustic enclosure</p>
vii	<p>Solvent management shall be carried out as follows:</p> <ol style="list-style-type: none"> 1. Reactor shall be connected to chilled brine condenser system 2. Reactor and solvent handling pump shall have mechanical seals to prevent leakages. 3. The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery. 4. Solvents shall be stored in a separate space Specified with all safety measures. 5. Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. 	<p>We have connected the chilled brine condenser system to Reactor.</p> <p>We have provided the mechanical seals for the pumps to prevent leakage.</p> <p>We have provided sufficient condensers to achieve maximum recovery</p> <p>We have provided separate space with all safety measures.</p> <p>Proper earthing provided wherever solvent is being handled. All electrical items like motors, light fittings etc., are provided with flame proof and</p>

	<p>6. Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.</p> <p>7. All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.</p>	<p>tanks are provided with breather valve.</p> <p>All solvent storage tanks are connected with vent condenser.</p>
viii	Total fresh water requirement from SIPCOT water supply shall not exceed 92 m ³ /day.	As on today we are consuming less than 92 KLD which is well below the permitted limit and SIPCOT is supplying the water to us.
Ix	Effluent generation shall not exceed 72m ³ /day and treated in the ETP followed by RO. Permeate will be recycled/reused in process. RO rejects will evaporated in MEE. Condensed water from Mechanical Evaporator is also reused Condensate and recover water will be recycled/reused within factory premises.	We have installed ETP. Our total waste water generation per day is 65 to 70 KLD including sewage. The same is treated and the treated waste water is sent to RO plant in turn permeate is reused in the cooling tower as well as in boiler. By doing this we are following 'Zero Discharge'. We are evaporating the RO reject in MEES and ATFD.
X	No effluent shall be discharged outside the premises and zero liquid discharge should be followed.	We have installed ETP with RO stripper, MEE & ATFD and achieved ZLD norms and we are not discharging any effluent outside
Xi	Process effluent /any wastewater shall not be allowed to mix with storm water, Storm water drain shall be passed through guard pond.	We made separate arrangements for waste water and storm water drains separately
xii	Automatic/online monitoring system (24x7 monitoring devices) for flow measurement and relevant pollutants in the treatment system to be installed. The data to be made available to the respective SPCB and in the Company's website.	We have provided on line monitoring for stack, Electromagnetic Flow Meter and Camera for the ETP area are provided and connected to TNPCB and CPCB
xiii	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboy etc. Flame arresters shall be provided on tank farm. Solvent transfer shall be by pumps	Proper care is being taken to handle/ storage of Hazardous chemicals. All solvent transfer are through pump only.

xiv	As proposed, process organic residue and spent carbon shall be sent to cement industries. ETP sludge, process inorganic and evaporation salt shall be disposed off to the TSDF. The ash from boiler shall be sold to brick manufacturers/cement industry.	We are collecting the process sludge and ETP sludge in the HDPE bags and storing in a closed room which is having impervious floor. We are sending this sludge to Green Gene Enviro Protection Ranipet for further treatment. The Boiler ash is being sent to Brick manufacture as proposed.
xv	The company shall obtain Authorization for collection, storage and disposal of hazardous water under the Hazardous Waste (Management, Handling and Trans-Boundary Movement) Rules, 2008 and amended as on date for management of Hazardous wastes and prior permission from TPCB shall be obtained for disposal of solid/hazardous waste in the TSDF. Measures shall be taken for firefighting facilities in case of emergency.	We have obtained Hazardous Waste Management Authorisation for the existing and for expansion operation valid upto 16.03.2025
xvi	The company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All Transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.	We are strictly following the Hazardous waste rules.
xvii	Fly ash should be stored separately as per CPCB guidelines so that it should not adversely affect the air quality, becoming air borne by wind or water regime during rainy season by flowing along with the storm water. Direct exposure of workers to fly ash and dust should be avoided.	We are not generating any fly ash. The ash generated from the boiler (wood fired) are being sent to Brick manufacturer. The ash is being stored in separate shed without any access to air or rain water.
xviii	The company shall undertake following waste minimization measures: a. Metering and control of quantities of active ingredients to minimize waste. b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. c. Use of automated filling to minimize spillage.	We are handling the processed liquid in closed pipes and recovering the spilled product as much as possible. We reuse wherever possible.

	<p>d. Use of Close Feed system into batch reactors.</p> <p>e. Venting equipment through vapour recovery system</p> <p>f. Use of high pressure hoses for equipment clearing to reduce waste water generation.</p>	We use jet pump for floor and equipment cleaning.
xix	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.	We have made arrangements for protection of possible fire. We provided Fire hydrants.
xx	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	As per the Factories' Act we are checking the occupational health for all the workers and maintaining records.
xxi	As proposed, green belt of 0.6 ha shall be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of the project area, in downward direction and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.	We have developed more than 1.14 ha of green belt within our factory premises by planting different kinds/species. We are using SIPCOT water tank storage area (0.7 Acres) additionally for the green belt with proper permission. Plot no CP 173.
xxii	Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.	During the construction period we engaged labours from the neighboring village
i	<p>GENERAL CONDITIONS:</p> <p>The project authorities shall strictly adhere to the stipulations made by the State Government and T.N. Pollution Control Board.</p>	We are implementing all the conditions stipulated by the TNPCB.
ii	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations of alterations in the project proposal from those submitted to this	We obtained the Environment Clearance and we obtained the CTO renewal from TNPCB. We will obtain proper permission for any modification before starting.

	Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environment protection measures required, if any.	Again we have gone for expansion and got the EC vide EC23A021TN110777 File No. - IA-J-11011/411/2006-IA II (I) Date of Issue EC - 30/01/2023 applied for CTE and obtained the same
iii	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	We are monitoring the ambient air quality in the upwind direction and downwind direction in consultation with PCB.
iv	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time and 70 dBA (night time).	Through external agency at 10 locations the noise levels are monitored once in a month during day and night time and the levels are within the limit.
v	The company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.	We have made Rain Water Harvesting system at 7 places within our factory.
vi	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees n handling of chemicals shall be imparted.	We are providing training to all employees and being monitored by a Safety Manager. As per the Factories' Act we are checking the occupational health for all the workers and maintaining records.
vii	Usage of Personnel Protection Equipments (PPEs) by all employees/workers shall be ensured.	We have provided PPE to all the people and all are using the same.
viii	The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry.	We have implemented all the environmental protection measures and safeguards as

	All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.	recommended in the EIA/EMP report.
ix	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.	We are doing many projects on CSR activities for Health, Education etc., Copy enclosed. Under this scheme we have 321.2 Lakhs during 22-23
x	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	We are undertaking many eco-developmental measures.
xi	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental management and Monitoring functions.	We have separate Management Cell involving, maintenance, Environmental Engineer, Safety Manager, etc.,
xii	The company shall earmark sufficient funds toward capital cost and recurring cost/annum to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose.	We earmarked Rs.2 Crores was allocated for environment management purpose and being utilized for the same.
xiii	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad/Municipal Coporation, Urban local body and the local NGO, if any, from who suggestion / representations, if any, were received while processing the proposal.	Copy of clearance letter was sent to Hosur Municipality on 7.9.2016.
xiv	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-	We are submitting the six monthly report to the Zonal Office regularly and the report is being posted in our web site.

	mail) to the respective Regional office of MoEF, the respective Zonal office of CPCB and the T.N. Pollution Control Board. A copy environmental clearance and six monthly compliance status report shall be posted on the website of the company.	
xv	The environmental statement for each financial year ending 31 st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environmental (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	We are regularly submitting the Environmental statement in Form V to Tamil Nadu Pollution Control Board. Copy attached.
xvi	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	We have given advertisement in two local newspapers on 30.8.2016 and submitted a copy of the same to Regional Office, Bangalore.

GLOBAL CALCIUM PRIVATE LIMITED., HOSUR

Half Yearly Compliance Report for 31st Sep 23

Ref . : Proposal No IA/TN/IND3/405106/2022 dt 31.01.2023

S. No	Conditions	Compliance
1	<p>The PP shall develop Greenbelt over an area of at least 1.14 ha. by planting 1034 number of trees additionally, within a period of one year grant of EC. The saplings selected for the plantation should be of sufficient height, preferably 6-ft (about 2m). In addition to this, The budget earmarked for the green belt shall be ₹ 0.5 Crores and shall be kept in separate account and should be audited annually. PP should annually submit the audited statement along with proof of activities viz. photographs (before & after with geolocation date & time), details of the expert agency engaged, details of species planted, number of species planted, survival rate, density of plantation etc. to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during the previous year.</p>	<p>We have planted 1600 plants additionally and the fund allocated for green belt development is Rs 0.5 Crores will be spent as agreed.</p>
2	<p>A separate Environmental Management Cell (having qualified persons with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions. PP shall engage General Manager-EHS, Senior Vice President – EMS, Manager – EHS, DGM –EHS Maintenance, Senior. Engineer – EHS –Instrumentation, Sr. Manager- – Environmental Monitoring, Asst. Manager- Environmental Monitoring, Associate-EHS and Officer EHS. The Production Head manages the Department of Occupational Health & Safety (OHS) and Operations department. The OHS Department is headed by Safety Officer who is assisted by Manager, Executive Officer. In addition to this one safety & health officer as per the qualification given in Factories Act 1948 shall be engaged within a month of grant of EC. PP should annually submit the audited statement of amount spent towards the engagement of qualified persons in EMC along with details of person engaged to the Regional Office of</p>	<p>We formed a separate management cell comprising under the Head of Director-operations. The following persons will be the members</p> <ol style="list-style-type: none"> 1. General Manager-EHS 2. SVP- EMS 3. Manager – EHS 4. DGM – Maintainance 5. Senior Engineer Instruments 6. Sr Manager – Monitoring and. 7. Asst Manager - Monitoring.

	MoEF&CC before 1st July of every year for the activities carried out during the previous year.	
3	The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented. The budget proposed under EMP is ₹9.5 Crores (Capital cost) and ₹4.1 Crores Recurring cost) shall be kept in separate account and should be audited annually. The PP should submit the annual audited statement along with proof of implementation of activities proposed under EMP duly supported by photographs (before & after with geo-location date & time) and other document as applicable to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during the previous year.	We will adhere to comply with the environmental safe guards as agreed.
4	The PP reported that Total Water requirement is 408 KLD, of which fresh water requirement of 193.3 KLD will be met from SIPCOT. The PP should ensure that water supply should not be above the permissible limit as mentioned in the letter and fresh water shall be withdrawal only after obtaining valid agreement from Concerned Authority. The PP should submit the details of utilization to the Integrated Regional Office (IRO), MoEF&CC before 1st July of every year for the activities carried out during the previous year.	We will restrict the water consumption to 408 KLD and the fresh water of 193.3 from SIPCOT
5	The PP shall install roof top solar panel of capacity 33 KW, in addition to the existing 15 KW and the total capacity shall be 48 KW.	In addition to the roof top solar panel we will add another 33 KW at the earliest.
6	No banned chemicals shall be manufactured by the PP. No banned raw materials shall be used in the unit. The PP shall adhere to the notifications/guidelines of the Government in this regard.	We will not use or manufacture any banned chemicals in the premises.
7	The PP shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.	We will adopt any new technology for capturing carbon emission.

8	The PP shall comply with the environment norms for synthetic organic Chemical as notified by the Ministry of Environment, Forest and Climate Change, vide GSR 608(E), dated 21.7.2010 under the provisions of the Environment (Protection) Rules, 1986.	We will comply with the environment norms as notified by the ministry.
9	All necessary precautions shall be taken to avoid accidents and action plan shall be implemented for avoiding accidents. The PP shall implement the onsite/offsite emergency plan/mock drill etc. and mitigation measures as prescribed under the rules and guidelines issued in the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, and the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996.	All necessary precautions will be taken to prevent any accidents. The program will be implemented under the Head of Safety manager and will be implemented as per norms.
10	The volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.97 % with effective chillers/modern technology. Regular monitoring of VOCs shall be carried out.	We will control the emission of VOC and regular monitoring will be continued.
11	The PP shall explore possibilities for recycling and reusing of treated water in the unit to reduce the fresh water demand and waste disposal.	We are a ZLD unit and future also we will try for further recycling of water
12	As Committed by the PP zero liquid Discharge shall be ensured, Effluent of 224.1 KLD quantity will be treated through Effluent Treatment Plants. STP already installed to treat the entire domestic sewage generated upon expansion shall be operated effectively and efficiently.	Already we have achieved ZLD and will continue for expansion also.
13	A continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB servers. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.	Already we have connected the stack emission to CAC centre and for expansion also we will continue.
14	The storage of toxic/hazardous raw material shall be bare minimum with respect to quantity and inventory. Quantity and days of storage shall be submitted to the Regional Office of Ministry and SPCB along with the compliance report.	We will store the minimum requirement of hazardous chemicals
15	The occupational health centre for surveillance of the worker's health already set up shall be maintained effectively. The health data shall be used in deploying the duties of the workers. All	We have created a OHC and will be used effectively and regular

	workers & employees shall be provided with required safety kits/mask for personal protection.	check up will be done and record will be maintained.
16	Training shall be imparted to all employees on safety and health aspects for handling chemicals. Safety and visual reality training shall be provided to employees. Action plan for mitigation measures shall be properly implemented based on the safety and risk assessment studies.	Periodical training will be imparted all the employees and norms will be implemented. FIRE & SPILL
17	The unit shall make the arrangement for the protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.	We have provided with fire hydrant system and other firefighting system as per the norms.
18	The solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.	The reactors are connected to a chilled brine condenser system, pumps will have mechanical seals and all the solvents are stored separately. Entire plant will be made flame proof. All solvent storage tanks will be provided with breather valve and all tanks will be connected with vent condenser with chilled brine circulation,
19	The storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rain water in the premises and harvested water shall be used for various industrial processes in the unit. No recharge shall be permitted within the premises. Process effluent/ any wastewater shall not be allowed to mix with storm water.	All rain water from roof top will be channelized to fire hydrant sump and collection tank and will be reused.
20	The PP shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapor recovery system. (f) Use of high pressure-hoses for equipment cleaning to reduce wastewater generation.	We will undertake waste minimization by a) Metering for liquid line b) Reused if by-products comes c)All lines will be automated wherever possible, d)Feed will be taken through closed feed e)Vapour recovery system f) will use high pressure hose to minimisation of water.

General Conditions

S No	Conditions	Compliance
1	No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	We will not go for any expansion without proper permission.
2	The Project proponent shall strictly comply with the rules and guidelines issued under the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996, and Hazardous and Other Wastes (Management and TransBoundary Movement) Rules, 2016 and other rules notified under various Acts.	We will strictly comply with the rules and guidelines issued under the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time.
3	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.	All the lighting are converted into LED base to conserve energy.
4	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	The overall noise level will be maintain within the norms by providing acoustic enclosures, silencers etc.,
5	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. The activities shall be undertaken by involving local villages and administration. The company shall undertake eco-developmental measures including community welfare measures in the	We are contributing to many projects like Education, health, awareness etc., We had spent Rs 321 Lakhs during 2022-23 towards CSR.

	project area for the overall improvement of the environment.	
6	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.	We will not divert the fund from earmarked areas.
7	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.	We are situated in a notified Industrial Estate, hence Public Hearing is exempted. We have sent a copy of the clearance letter to the Hosur Corporation on 02.02.23
8	The project proponent shall also upload/submit six monthly reports on PARIVESH Portal on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data to the respective Integrated Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six-monthly compliance status report shall be posted on the website of the company.	Regularly we are submitting the Hly reports to IRO Chennai and uploading the data in Parvesh portal.
9	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Integrated Regional Office of MoEF&CC by e-mail.	We are regularly submitting form V to TNPCB.
10	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry and at	We have given Public Notice in the Newspapers Dinamani and Indian Express on 06.02.23 about the accordance by MoEF to our unit.

	<p>https://parivesh.nic.in/. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.</p>	
11	<p>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 the project.</p>	<p>We will inform the financial closure to the IRO and ministry.</p>
12	<p>This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.</p>	<p>We will obey the Hon'ble Supreme court if any in future.</p>