

GC/786/ MoEF/ RO/ 2024-25

23.10.2024



**Global Calcium**  
Adding Life to Life

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 24 - 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 the half-yearly report ending Sep 24.  
Please note that we have not obtained any financial assistance from any institution  
and have only met with internal funds. We obtained the EC from MoEF&CC on  
31.01.23 and applied for CT0 and obtained from TNPCB. We started the production  
of the expansion project during December 23.

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.

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CORPORATE OFFICE :  
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Bangalore 560 095, India  
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eGMP, HACCP, ISO9001, ISO14001, FSSC 22000 Approved Facility

CIN : U02429TZ1979PTC009946

**Half Yearly Compliance Report  
2024**

**01 Dec(01 Apr - 30 Sep)**

**Acknowledgement**

<b>Proposal Name</b>	Proposed Expansion of Bulk Drug Intermediate Facility by Increasing the Products/Production Capacity of API (Active Pharmaceutical Ingredients) from 60 TPA to 760 TPA & already producing Mineral Salts is proposed to be reduced from 6871 TPA to 5871 TPA & Addition of 1 TPA R & D Facility in a total land area of 3.469 ha., located in a Notified Industrial Complex at Plot No. 124, 125, 126, CP-173 SIPCOT Industrial Complex & F-4 , N-14 SIDCO Industrial Estate, Hosur, Krishnagiri Dist Tamilnadu		
<b>Name of Entity / Corporate Office</b>	GLOBAL CALCIUM PRIVATE LIMITED		
<b>Village(s)</b>	JUZUVADI		
<b>District</b>	KRISHNAGIRI		
<b>Proposal No.</b>	IA/TN/IND3/405106/2022	<b>Category</b>	Industrial Projects - 3
<b>Plot / Survey / Khasra No.</b>	125 126 124 CP 173 SIPCOT & F 4 N 14 SIDCO	<b>Sub-District</b>	Hosur
<b>State</b>	TAMIL NADU	<b>Entity's PAN</b>	*****2998N
<b>MoEF File No.</b>	IA-J-11011/411/2006-IA II (I)	<b>Entity name as per PAN</b>	GLOBAL CALCIUM PRIVATE LIMITED

**Compliance Reporting Details**

<b>Reporting Year</b>	2024
<b>Remarks (if any)</b>	We obtained new EC on 31.01.2023 from the ministry for our proposed expansion, and obtained Consent to Operate from Tamil Nadu Pollution Control Board. We have started the production from Dec 23
<b>Reporting Period</b>	01 Dec(01 Apr - 30 Sep)

**Details of Production and Project Area**

**Name of Entity / Corporate Office** GLOBAL CALCIUM PRIVATE LIMITED

	<b>Project Area as per EC Granted</b>	<b>Actual Project Area in Possession</b>
Private	3.469	3.469
Revenue Land	0	0
Forest	0	0
Others	0	0

Total	3.469	3.469
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## Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Conventional-MINERAL SALTS Gluconates, Citrates, Lactates, Lactobionates, Fumarates, Orotates, Asco	Tons per Annum (TPA)	31/03/2027	1641	1492.24	1641
2	Outsourced-MINERAL SALTS Gluconates, Citrates, Lactates, Lactobionates, Fumarates, Orotates,Ascorbate	Tons per Annum (TPA)	31/03/2027	2615	2591.45	2615
3	By Spray drier- Calcium Glubionate, Calcium Borogluconate, Calcium lacto Gluconate, Gluconates, Aceta	Tons per Annum (TPA)	31/03/2027	1615	617.74	1615
4	API Products - Bepotastine Besilate, Benfotiamine, Calcium Dobesilate, Clozapine, Citicoline, Cinita	Tons per Annum (TPA)	31/03/2027	760	136.73	760
5	R & D Products	Tons per Annum (TPA)	31/03/2027	1	0	1

## Conditions

### Specific Conditions

Sr.No.	Condition Type	Condition Details
1	GREENBELT	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><b>PPs Submission:</b> Complied We have planted 1600 plants additionally and the fund allocated for green belt development is more than Rs 0.5 Crores is being spent as agreed.</p>		<p>Date: 16/12/2024</p>
2	Human Health Environment	<p>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.</p>
<p><b>PPs Submission:</b> Complied Periodical training being imparted all the employees and norms will be implemented. FIRE, SPILL attached.</p>		<p>Date: 14/12/2024</p>
3	Risk Mitigation and Disaster Management	<p>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</p>
<p><b>PPs Submission:</b> Complied We have provided a fire hydrant system and other firefighting system as per the norms. Fire hydrant</p>		<p>Date: 14/12/2024</p>
4	WASTE MANAGEMENT	<p>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.</p>
<p><b>PPs Submission:</b> Complied The reactors are connected to a chilled brain condenser system, pumps are having mechanical seals and all the solvents are stored separately. Entire plant are made flame proof. All solvent storage tanks are provided with breather valve and all tanks will be connected with vent condenser with chilled brine circulation,</p>		<p>Date: 14/12/2024</p>
5	WATER QUALITY MONITORING AND PRESERVATION	<p>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.</p>
<p><b>PPs Submission:</b> Complied All rain water from roof top channelized to fire hydrant sump and collection tank and will be reused.</p>		<p>Date: 14/12/2024</p>
6	WASTE MANAGEMENT	<p>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.</p>
<p><b>PPs Submission:</b> Complied</p>		<p>Date:</p>

<p>We undertake waste minimization by a) Metering for liquid line b) Reused if by-products comes c) All lines automated wherever possible, d) Feed will be taken through closed feed e) Vapour recovery system f) we use high pressure hose to minimisation of water.</p>		14/12/2024
7	MISCELLANEOUS	<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 &amp; 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 &amp; 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 MoEF&amp;CC before 1st July of every year for the activities carried out during the previous year.</p>
<p><b>PPs Submission:</b> Complied We formed a separate management cell comprising under the Head of Director- operations. The following persons will be the members 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.</p>		<p>Date: 14/12/2024</p>
8	MISCELLANEOUS	<p>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 &amp; after with geo-location date &amp; time) and other document as applicable to the Regional Office of MoEF&amp;CC before 1st July of every year for the activities carried out during the previous year.</p>
<p><b>PPs Submission:</b> Complied We are complying with the environmental safeguards as agreed. We spent about 5.0 Crores on account of the recurring cost of the system. Separate Account head is maintained and being audited, certificate attached.</p>		<p>Date: 16/12/2024</p>
9	MISCELLANEOUS	<p>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&amp;CC before 1st July of every year for the activities carried out during the previous year.</p>

<p><b>PPs Submission:</b> Complied The total water consumption is less than 408 KLD and the fresh water of 193.3 from SIPCOT. SIPCOT agreement attached</p>		<p>Date: 08/11/2024</p>
10	ENERGY PRESERVATION MEASURES	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.
<p><b>PPs Submission:</b> Complied In addition to the roof top solar panel we will add another 33 KW at the earliest. Photo attached</p>		<p>Date: 08/11/2024</p>
11	MISCELLANEOUS	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.
<p><b>PPs Submission:</b> Complied We are not using or manufacture any banned chemicals in the premises.</p>		<p>Date: 08/11/2024</p>
12	MISCELLANEOUS	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.
<p><b>PPs Submission:</b> Complied We will adopt any new technology for capturing carbon emission.</p>		<p>Date: 08/11/2024</p>
13	MISCELLANEOUS	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..
<p><b>PPs Submission:</b> Complied We are complying with the environment norms as notified by the ministry.</p>		<p>Date: 08/11/2024</p>
14	WASTE MANAGEMENT	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.
<p><b>PPs Submission:</b> Complied All necessary precautions are taken to prevent any accidents. The program will be implemented under the Head of Safety manager and will be implemented as per norms.</p>		<p>Date: 08/11/2024</p>
15	AIR QUALITY MONITORING AND PRESERVATION	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
<p><b>PPs Submission:</b> Complied We will control the emission of VOC and regular monitoring will be continued. VOC report attached</p>		<p>Date: 08/11/2024</p>
16	WATER QUALITY MONITORING AND	The PP shall explore possibilities for recycling and reusing of treated water in the unit to reduce the fresh water demand and waste

	PRESERVATION	disposal.
<b>PPs Submission:</b> Complied We are a ZLD unit and future also we will try for further improving recycling of water		Date: 14/12/2024
17	WATER QUALITY MONITORING AND PRESERVATION	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
<b>PPs Submission:</b> Complied Already we have achieved ZLD and will continue the same operation.		Date: 14/12/2024
18	AIR QUALITY MONITORING AND PRESERVATION	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.
<b>PPs Submission:</b> Complied We have connected the On line continuous stack monitoring system to Care Air Center SPCB and CPCB on line and being monitored Stack monitoring, EMFM and Camera attached		Date: 16/12/2024
19	MISCELLANEOUS	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.
<b>PPs Submission:</b> Complied We store the minimum requirement of hazardous chemicals		Date: 14/12/2024
20	Human Health Environment	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 workers & employees shall be provided with required safety kits/mask for personal protection.
<b>PPs Submission:</b> Complied We have created a OHC and will be used effectively and regular check up will be done and record will be maintained.		Date: 14/12/2024
<b>General Conditions</b>		
Sr.No.	Condition Type	Condition Details
1	MISCELLANEOUS	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.

<b>PPs Submission:</b> Complied We will not go for any expansion without proper permission.		Date: 14/12/2024
2	Statutory compliance	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 <a href="https://parivesh.nic.in/">https://parivesh.nic.in/</a> . 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.
<b>PPs Submission:</b> Complied We have given Public Notice in the Newspapers Dinamani and Indian Express on 06.02.23 about the accordance by MoEF to our unit. Advertisement attached.		Date: 14/12/2024
3	Statutory compliance	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.
<b>PPs Submission:</b> Complied Being a expansion project, we have not gone for any financial assistance from any institution, hence not informed to IRO.		Date: 14/12/2024
4	MISCELLANEOUS	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.
<b>PPs Submission:</b> Complied We will obey the Honble Supreme court if any in future.		Date: 14/12/2024
5	WASTE MANAGEMENT	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 Trans- Boundary Movement) Rules, 2016 and other rules notified under various Acts.
<b>PPs Submission:</b> Complied 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. HWA attached		Date: 14/12/2024
6	ENERGY PRESERVATION MEASURES	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
<b>PPs Submission:</b> Complied All the lighting are converted into LED base to conserve energy.		Date: 14/12/2024
7	Noise Monitoring & Prevention	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).
<b>PPs Submission:</b> Complied The overall noise level will be maintain within the norms by providing acoustic enclosures, silencers etc., Noise report attached.		<b>Date:</b> 16/12/2024
8	Corporate Environmental Responsibility	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 project area for the overall improvement of the environment.
<b>PPs Submission:</b> Complied We are contributing to many projects like Education, health, awareness, etc., and we have incurred Rs. 288.42 lakhs during 2023-24 as a group, including our unit III. Auditor report		<b>Date:</b> 16/12/2024
9	MISCELLANEOUS	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.
<b>PPs Submission:</b> Complied We will not divert the fund from earmarked areas.		<b>Date:</b> 14/12/2024
10	PUBLIC HEARING	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.
<b>PPs Submission:</b> Complied 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		<b>Date:</b> 14/12/2024
11	Statutory compliance	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.
<b>PPs Submission:</b> Complied Regularly we are submitting the Hly reports to IRO Chennai and uploading the data in Parvesh portal.		<b>Date:</b> 14/12/2024
12	Statutory compliance	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.
<b>PPs Submission:</b> Complied We are regularly submitting form V to TNPCB.		<b>Date:</b> 14/12/2024

## Visit Remarks

<b>Last Site Visit Report Date:</b>	16/11/2021
<b>Additional Remarks:</b>	We obtained the EC from the Ministry On 31.01.23 and CTE and CTO also obtained from Tamil Nadu Pollution Control Board for the proposed expansion. We have started the production from Dec 23.

**Note:** This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.