

ORCEM/DVP/ENV/ 387
22nd November 2023

To,
Inspector General of Forests
Integrated Regional Office (IRO) - Hyderabad,
Ministry of Environment, Forests and Climate Change,
3rd Floor, Room No. 309, Aranya Bhawan, Opp. RBI,
Saifabad – 500004, Hyderabad, Telangana.
Iro.hyderabad-mefcc@gov.in

Sub: Submission of Six-Monthly Compliance Report for Environmental Clearance of Expansion of Cement Plant (Cement 3,600 to 8,900 TPD and Clinker 5,550 to 10,600 TPD) and installation of Captive Power Plant (50 MW) by M/s Orient Cement Limited at Devapur (V), Mancherial (Dist.,) Telangana state for the period of April 2023 to September 2023 - Reg.

Ref: Environment Clearance F. No. J-11011/266/2007-IA.II(I) Dated 06th September, 2007.

Dear Sir,

Reference with the Environmental Clearance cited above, we are herewith attached six monthly compliance report for the period of April 2023 to September 2023 which was uploaded in PARIVESH 2.0 for our Expansion of Cement Plant (Cement 3,600 to 8,900 TPD and Clinker 5,550 to 10,600 TPD) and installation of Captive Power Plant (50 MW) at Devapur (V), Mancherial (Dist.,) Telangana State.

This is for your information & records please.

Thanking you,

Yours faithfully
For Orient Cement Limited



MP Joshi
Sr. Vice President (Works) & Unit Head

Encl: A/a

Copy:

1. The Regional Director, Central Pollution Control Board, Regional Directorate (South), Nisarga Bhawan, 1st Floor, 7th D Cross, Thimmaiah Road, Shivanagar, Bengaluru - 560079, Karnataka.
2. Environmental Engineer, Telangana State Pollution Control Board, Regional Office, H. No. 6-2-166/A, 1st Floor, Subhash Nagar, Nizamabad – 503002, Telangana.

Half Yearly Compliance Report(Preview)

Proposal Details

Proposal No

ORCEM/9,17.03.2007

Category

Industrial Projects - 1

Proposal Name

Expansion of Cement Plant (Cement 3600 to 8900 TPD and Clinker 5550 to 10600 TPD) and Installation of Captive Power Plant (50 MW) at Devapur Village, Kasipet Mandal, Mancherial District.

Plot / Survey/ Khasra No.**Village(s)****Sub-District(s)****State**

TELANGANA

District

MANCHERIAL

MoEF File No

J-11011/266/2007-IA II (I)

Name of the Entity/**Corporate Office**

Orient Cement Limited

Entity's PAN

NA

Entity Name as per PAN

NA

Entity details mentioned above is correct ?

Agree

Covering Letter

Covering Letter[Click to View](#)

Compliance Reporting Details

Reporting Year

2023

Reporting Period

01 Dec(01 Apr - 30 Sep)

Remark(if any)

Existing Project. Status: Operational.

Details of Production and Project Area**Date of Commencement of Project/Activity**

2007-09-06

	Project Area as per EC Granted(ha.)	Actual Project Area in Possession(ha.)
Private	425.89	425.89
Revenue Land	0	0
Forest	0	0
Others	0	0
Total	0	0

PRODUCTION CAPACITY

Sr.No.	Name of the Product	Units	As per EC Granted	As per CTO Granted	CTO ID	Valid Up To	Production during last financial year
1	Cement	Million Tons per Annum (MTPA)	3.07	3.07	220823604135	30-06-2027	2.047
2	Electricity	MW	50	50	220823604135	30-06-2027	195188
3	Clinker	Million Tons per Annum (MTPA)	3.5	3.5	220823604135	30-06-2027	2.338

Conditions**Specific Conditions**

Sr.No.	Condition Heading	Condition Details	Status of Compliance,Remarks/Reason and Supporting Documents	
1	AIR QUALITY MONITORING	On-line continuous stack	PPs Submission	? On-line Continuous Stack Monitoring facilities (CEMS) were

	<p>AND PRESERVATION</p>	<p>monitoring facilities for all the stacks and adequate air pollution control systems shall be provided to keep emission levels below 50 mg/Nm³ and data submitted to the APPCB and CPCB regularly. ESP to kiln / raw mill, clinker and CPP shall be provided to control air emissions.</p>		<p>provided for all stacks attached to Raw Mills & Kilns, Coolers, Coal Mills, Cement Mills and Captive Power Plant. ? All the CEMS are connected to TSPCB and CPCB servers. ? Particulate Matter emissions from all the stacks of Cement Plant & CPP are well within the prescribed standards of 30 & 50 mg/Nm³ respectively. ? Air Pollution Control Devices were provided to all the process stacks to control PM emissions well below the standards. List of APCDs as follows: Process Equipment APCD Kiln & Raw Mill - I ESP Clinker Cooler - I ESP Coal Mill (Ball Mill) - I Bag House Coal Mill (VRM) - I Bag House Kiln & Raw Mill - II ESP Clinker Cooler - II ESP Coal Mill (Ball Mill) - II Bag House Kiln & Raw Mill - III RABH Clinker Cooler - III ESP Coal Mill (Ball Mill) - III Bag House Cement Mill - 1 Bag House Cement Mill ? 2 Bag House CPP Boilers ESP ? Stack Emission Monitoring data for the period April 2023 to September 2023 & Photographs of APCDs and CEMS enclosed as Annexure ? 1. Complied Attachment: Click to View</p>
<p>2</p>	<p>WATER QUALITY MONITORING AND PRESERVATION</p>	<p>Total Water requirement from the reservoir of abandoned mine pit shall not exceed 1,895 m³/day. No water from other surface or ground water sources shall be used. All the treated wastewater shall be recycled and reused in the process and/or for ash</p>	<p>PPs Submission</p>	<p>? Water consumed from Mines rainwater harvesting pit for the CPP & Plant operations is 1775 m³/day for the period of April 2023 to September 2023. ? The plant is a modern dry process unit. Zero liquid discharge is adopted. ? Domestic wastewater from colony is being treated in STP and utilized completely for greenbelt development. Complied Attachment: NA</p>

		<p>quenching, dust suppression, green belt development and other plant related activities etc. No process wastewater shall be discharged outside the factory premises and zero discharge shall be adopted. Treated domestic effluent shall be used for green belt development within the plant premises.</p>		
<p>3</p>	<p>WASTE MANAGEMENT</p>	<p>The fly ash from the power plant shall be stored in silos and pneumatically transferred to the cement plant and used in the process itself for manufacturing Pozollona Portland Cement (PPC). Bottom ash shall be disposed off in abandoned mines or utilized in road making or given to brick kiln manufacturers. All the cement dust collected from pollution control devices shall be recycled and reused in the process and used for cement manufacturing.</p>	<p>PPs Submission</p>	<p>? Fly ash from the Power Plant is being conveyed pneumatically to cement plant and utilized for manufacturing of PPC grade cement. ? Bottom ash is being utilized in filling of low laying areas and internal road making. ? Dust collected from Air Pollution Control Equipment?s viz. RABH, Bag House, ESP?s, Bag Filter etc., are being recycled back into the process. ? Sludge from STP is used as manure for plantation in colony. ? Used oil is being disposed to authorized recyclers. Complied Attachment: NA</p>

		Sludge from domestic sources shall be used as manure for green belt development. Waste oil shall be sold to authorized recyclers/re-processors only.		
4	WASTE MANAGEMENT	High calorific value hazardous waste shall be utilized in the cement kiln from Ranga Reddy, Medak and Patancheru Districts.	PPs Submission	? High calorific value hazardous waste and non-hazardous wastes (Rice husk, Cotton stalk, and Black carbon) sourcing from Telangana and other states are being co-processed in our cement kilns. ? Hazardous waste about 2563.5 MT was co-processed for the period April 2022 to September 2023. Complied Attachment: NA
5	GREENBELT	Out of total 425.89 acre, green belt shall be developed in 216.09 acres (51%) as per the CPCB guidelines to mitigate the effects of air emissions in consultation with local DFO.	PPs Submission	Greenbelt developed about 57.7% of the total area. Local and native species are being planted for better growth. Year wise greenbelt details and photographs are enclosed as Annexure- 2. Complied Attachment: Click to View
6	Human Health Environment	Regular annual medical examination of all the employees shall be carried out from the occupational health point of view and records should be maintained.	PPs Submission	? Periodical Medical Examination is being carried out done for all the employees as well as contract workmen at our OHC. Medical examinations were conducted from 09/03/2023 to 18/03/2023. ? Records of the medical examinations are being maintained at our OHC. Complied Attachment: NA

General Conditions

Sr.No.	Condition Heading	Condition Details	Status of Compliance,Remarks/Reason and Supporting Documents	
1	Statutory compliance	The project authority shall adhere to the stipulations made by A.P. Pollution Control Board (APPCB) and State Government.	PPs Submission	Stipulations made by Telangana State Pollution Control Board (TSPCB) and Govt. of Telangana are being followed. Complied Attachment: NA
2	Statutory compliance	No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.	PPs Submission	Noted & No further expansion or modification of the plant will be carried out without prior approval of this Ministry. Agreed to Comply Attachment: NA
3	AIR QUALITY MONITORING AND PRESERVATION	The gaseous and particulate matter emissions from various units shall conform to the standards prescribed by the A.P. Pollution Control Board. At no time, the particulate emissions from the cement plant shall exceed APPCB limit. Interlocking facility shall be provided in the pollution control equipment, so that in the event of the pollution control equipment not working, the respective unit(s) is shut down automatically.	PPs Submission	? Installed adequate Air Pollution Control equipment like RABH, High Efficiency Bag filters and ESP to control and achieve the particulate matter emission standards prescribed by TSPCB. ? Gaseous emissions (SO ₂ & NO _x) are well below the prescribed standards by TSPCB. ? Interlocking facility was provided to Pollution Control Equipment so that in the event of failure of Pollution Control Equipment, the respective equipment (s) will be shutdown/feed cut automatically. Complied Attachment: NA
4	AIR QUALITY MONITORING AND PRESERVATION	One Ambient Air Quality Monitoring Station shall be installed in downwind	PPs Submission	? Manual ambient air quality monitoring is being carried out at 4 no?s of locations on a monthly basis though

		<p>direction. Ambient air quality including ambient noise levels shall not exceed the standards stipulated under EPA or by the State authorities. Monitoring of Ambient Air Quality and Stack Emissions shall be carried out regularly in consultation with APPCB and report submitted to the TSPCB quarterly and to the Ministry's Regional Office at Bangalore half-yearly.</p>		<p>third party M/s Lawn Enviro Associates, Hyderabad. ? Continuous ambient air quality monitoring stations (CAAQMS) installed and connected to TSPCB server. ? Data of AAQ, ambient noise and stack emissions are being submitted to the MOEFCC IRO at Hyderabad on half yearly & TSPCB on monthly basis. Stack Emission and AAQ data for the period April 2023 to September 2023 enclosed as Annexure - 3. Complied Attachment: Click to View</p>
<p>5</p>	<p>AIR QUALITY MONITORING AND PRESERVATION</p>	<p>The company shall install adequate dust collection and extraction system to control fugitive dust emissions at various transfer points, raw mill handling (unloading, conveying, transporting, stacking), vehicular movement, bagging and packing areas, etc. Asphaltting/concreting of road and water spray all around the stockyard and loading / unloading areas shall be carried out to control fugitive emissions. Covered sheds for storage of raw materials and pneumatic conveying system for fly ash and bed ash for conveying ash from boiler shall be provided. Coal, cement, fly ash and clinker shall be stored in silos.</p>	<p>PPs Submission</p>	<p>? We have installed adequate dust collection and extraction systems to control fugitive emissions. About 115 plus no?s of bag filters were installed at various material transfer points, silo tops, raw material un loading area and packing plant area. ? Cement Concrete roads are laid and regular water sprinkling and Road sweeping machine with in-built vacuum cleaner is being engaged to control fugitive emissions. ? All the raw materials are being stored and handled under covered sheds. Those details are as follows: Laterite - Total Sheds ? 09 no?, Each capacity is 4000 tons. Gypsum- Total Sheds ? 05 no?s ,Each capacity is 4000 tons. Coal ? Cement Plant - Total Sheds? 7 no?s , Each capacity is 5000 tons. Limestone - Capacity 1,00,000 tons Coal ? CPP- Capacity 1,00,000 tons ? Fly ash handling through pneumatic system. ? All</p>

				<p>material transfer conveyors are covered with GI sheets. ? Cement & fly ash is being stored in Silo?s and Clinker is stored in CSP and Silos to avoid the fugitive dust generation. ? A dedicated water tanker has been deployed for spraying water on roads to control fugitive dust. Photographs of the same are attached as Annexure - 4. Complied Attachment: Click to View</p>
6	AIR QUALITY MONITORING AND PRESERVATION	Secondary fugitive emissions shall be controlled and regularly monitored as per guidelines issued by the CPCB.	PPs Submission	<p>Secondary fugitive emissions are being controlled and monitored as per the CPCB guidelines. The following are fugitive control measures adopted. ? All transfer points and storage silos are provided with dust collection and extraction systems for effective control of fugitive emissions. ? Closed Sheds are constructed for all the raw materials storage and handling. ? Fly ash is being handled through a pneumatic system. ? Road sweeping machines are deployed and ensure good housekeeping for controlling secondary fugitive dust emissions. ? Regular water spray is being carried out. ? Fugitive emission monitoring data is being submitted to MOEFCC IRO at Hyderabad on a half yearly basis. Fugitive Dust Monitoring data for the period April 2023 to September 2023 enclosed as Annexure ? 4. Complied Attachment: Click to View</p>

7	WATER QUALITY MONITORING AND PRESERVATION	The company must harvest the rainwater from the rooftops and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.	PPs Submission	? Rainwater is stored in mines abandoned reservoir, and it is utilized for various activities in the plant thus reducing the consumption of fresh water. ? The rooftop rainwater harvesting system developed in the colony to harvest the rainwater and check dams have been constructed at different location to harvest the rainwater to improve ground water. Complied Attachment: NA
8	Corporate Environmental Responsibility	The company shall undertake eco-development measures including community welfare measures in the project area.	PPs Submission	? Various eco development and community welfare schemes are being adopted for the development of the surrounding village people & area under CSR. ? Details of CSR activities carried out for the period April 2022 to September 2023 is attached as Annexure - 5. Complied Attachment: Click to View

9	Noise Monitoring & Prevention	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) 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 Environmental (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) 70 dBA (night time).	PPs Submission	<p>? Overall noise levels in and around the plant area are maintained well below the prescribed standards by providing acoustic enclosures and hoods to various noise generating areas such as compressors, mills, and fans. ? Ambient noise levels are being monitored and the noise levels are below 75 dB (A) daytime and 70 dB(A) nighttime. ? Work zone and ambient noise levels are being monitored through third party on monthly basis. Data of the same for the period April 2023 to September 2023 is enclosed as Annexure - 6.</p> <p>Complied Attachment: Click to View</p>
10	Corporate Environmental Responsibility	All recommendations made in the ? Corporate Responsibility for Environment Protection (CREP) for cement plants shall be implemented.	PPs Submission	<p>Recommendations made in the CREP for cement plant are being implemented. Compliance report of CREP guidelines is enclosed as Annexure - 7.</p> <p>Complied Attachment: Click to View</p>
11	Human Health Environment	Proper housekeeping and adequate occupational health programmes shall be taken up.	PPs Submission	<p>? Good Housekeeping is being maintained at all areas of the plant. Dust bins provided at all the areas for source segregation of waste. Adequate road sweeping machines are being used for cleaning roads. Dedicated water tankers have been deployed for water sprinkling on the road to control fugitive dust. ? The Occupational Health Surveillance Programme is conducted on a regular basis & records maintained.</p>

				The Programme includes a lung function & sputum analysis test once a year. Being Complied Attachment: NA
12	Human Health Environment	A separate environmental management cell to carry out various management and monitoring functions shall be set up under the control of Senior Executive.	PPs Submission	Environmental management cell is exists with qualified personnel to carryout various environmental management and monitoring activities under the control of senior executive. Complied Attachment: Click to View
13	MISCELLANEOUS	As proposed in EIA/EMP, Rs.24.50 Crores and Rs.1.86 Crores earmarked towards the capital cost and recurring cost/annum for environmental pollution control measures shall be suitably used to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.	PPs Submission	We have incurred about Rs 4.5 Crores towards recurring expenditure for the period April to September 2023 for environmental pollution control measures. Apart from recurring expenditure, requisite capital funds are also incurred towards environmental protection. Being Complied Attachment: NA

14	Statutory compliance	The Regional Office of this Ministry at Bangalore / CPCB / APPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	PPs Submission	Six monthly compliance report and the monitored data are being submitted to MOEFCC IRO at Hyderabad, CPCB RD at Bangalore & TSPCB RO at Nizamabad regularly. Latest half yearly compliance report for the period October 2022 to March 2023 was submitted on 31-05-2023. Complied Attachment: NA
15	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 commencing the land development work.	PPs Submission	The project work was completed in the month of August 2010 and plant is under operation since from 2010. Details of the same are being submitted in EC compliance report. Complied Attachment: NA
16	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 A.P. Pollution Control Board / Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in . This should 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	PPs Submission	An advertisement has been published in the following two local newspapers on 11.09.2007. 1. Deccan Chronical - English 2. Eenadu - Telugu Newspaper clippings enclosed as Annexure - 8. Complied Attachment: Click to View

		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 Regional office at Bangalore.	
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Document Upload

Last Site Visit Report (if available)

NA

Last Site Visit Report Date (if available)**Additional Attachment (if any)**

NA

Additional Remarks (if any)

Existing Project. All the conditions are complied & fulfilled.

- I '[Orient Cement Limited](#)' hereby give undertaking that the data and information given in the filed compliance and enclosures are true to be best of my knowledge and belief and I am aware that if any part of the data and information found to be false or misleading at any stage, the clearance given to the project will be revoked at our risk and cost. In addition to above, I hereby give undertaking that no activity such as change in project layout, construction, expansion, etc. has been taken up without due approval.