

DCBL/MoEF/EC-HYC/2024-25/ 4-28

Date: 20.11.2024

To,

The Regional Director
Ministry of Environment, Forest & Climate Change
Regional Office (South Zone),
Kendriya Sadan, 4th Floor,
E & F wing, 17th Main Road,
II Block, Koramangala,
Bengaluru – 560034.

Sub: Submission of Six Monthly EC Compliance Report of integrated cement plant M/s. Dalmia Cement (Bharat) Limited for the duration of Apr 2024 to Sep 2024.

Ref: F.No.J-11011/119/2007 - IA II (M) Dated. 24th June 2008 & EC extension dated 11th August 2014.


Dear Sir,

With Reference to the above, we are here with attached Six Monthly Environment Clearance compliance reports of integrated cement plant M/s. Dalmia Cement (Bharat) Limited, Yadwad village, Mudalagi Taluk, Belgaum district, Karnataka, for the period of **Apr 2024** to **Sep 2024**.

Kindly request to acknowledge the same.

Yours faithfully

For M/s. Dalmia Cement (Bharat) Limited


Authorised Signatory

- Cc:** 1. The Environmental Officer, Karnataka State Pollution Control Board, Plot No.6816/1/P-5, 5th cross, Harinagar, Chikkodi-591201.
2. The Member Secretary, Karnataka State Pollution Control Board, Parisara Bhavana, 1st to 5th Floor, #49, Chruch street, Bengaluru-560001.
3. Regional Officer, Central Pollution Control Board, Nisarga Bhavan, Thimmaiah Road, 7th D Main Rd, Shivanagar, Bengaluru, Karnataka - 560079.

Dalmia Cement (Bharat) Limited

Yadwad Village, Mudalagi Taluk, Belagavi District, Karnataka - 591136, India.
T 9606014495 / 96 / 97 / 98 W www.dalmiacement.com CIN : U65191TN1996PLC035963
Registered Office : Dalmiapuram, Dist. Tiruchirapalli - 621 651, Tamil Nadu, India.
A Dalmia Bharat Group company, www.dalmiabharat.com

Your (**Half Yearly Compliance Report**) has been **Submitted** with following details

Proposal No	J-11011/119/2007-IA II (I)
Compliance ID	85992528
Compliance Number(For Tracking)	EC/M/COMPLIANCE/85992528/2024
Reporting Year	2024
Reporting Period	01 Dec(01 Apr - 30 Sep)
Submission Date	29-11-2024
RO/SRO Name	V Geroge Jenner
RO/SRO Email	tr025@ifs.nic.in
State	KARNATAKA
RO/SRO Office Address	Integrated Regional Offices, Bengaluru

Note:- SMS and E-Mail has been sent to V Geroge Jenner, KARNATAKA with Notification to Project Proponent.

**Half Yearly Compliance Report
2024**

01 Dec(01 Apr - 30 Sep)

Acknowledgement

Proposal Name	Cement Plant (4.0 MTPA), Clinker (2.6 MTPA) and Captive Power Plant (40 MW) at Yadwad, Gokak, Belgaum, Karnataka by M/s Dalmia Cement (Bharat) Ltd. Environment Clearance reg.		
Name of Entity / Corporate Office	J-11011/119/2007-IA II (I)		
Village(s)	BUDHI KHURD		
District	BELAGAVI		
Proposal No.	J-11011/119/2007-IA II (I)	Category	Industrial Projects - 1
Plot / Survey / Khasra No.		Sub-District	Ramdurg
State	KARNATAKA	Entity's PAN	*****9414C
MoEF File No.	J-11011/119/2007-IA II (I)	Entity name as per PAN	DALMIA CEMENT (BHARAT) LIMITED

Compliance Reporting Details

Reporting Year 2024
Remarks (if any)
Reporting Period 01 Dec(01 Apr - 30 Sep)

Details of Production and Project Area

Name of Entity / Corporate Office J-11011/119/2007-IA II (I)

	Project Area as per EC Granted	Actual Project Area in Possession
Private	120	120
Revenue Land	0	0
Forest	0	0
Others	0	0
Total	120	120

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Clinker	Tons per Annum (TPA)	N/A	2600000	1659062	2600000
2	Cement	Tons per Annum (TPA)	N/A	4000000	2231948	4000000

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	AIR QUALITY MONITORING AND PRESERVATION	Secondary fugitive emissions shall be controlled within the prescribed limits and regularly monitored. Guidelines / Code of Practice issued by the CPCB in this regard shall be followed. Bag filters with ventilation system shall be provided to coal mill, all the raw material handling areas, clinker, cement, fly ash silos, clinker hoppers etc. to control fugitive emissions from the material handling areas. Closed clinker stockpile system shall be adopted and bag filters shall be provided to clinker hoppers. Water sprinkling arrangements shall be made in the material stockyards and cement bags loading areas. To eliminate fugitive emissions, transportation of the ash to the cement plant shall be in closed containers and pneumatic transfer of the ash into ash silos in cement plant.

<p>PPs Submission: Complied</p> <p>Bag Filters have been installed in all emission sources. Bag house for Coal Mill, Raw mill and ESP for clinker cooler have been installed Closed clinker stockpile system implemented with Bag filter. Water sprinkling arrangements made as per the conditions. Fugitive emissions controlled by dust suppression system through water tankers. In addition to this, to eliminate fugitive emissions, transportation of the ash to the cement plant is being carried out through encapsulated fly ash Bulker only and the ash transfer to ash silos are being carried out pneumatically. All conveyors are covered. The Fugitive emissions are within the CPCB standards Third party monitoring report of Fugitive emissions is enclosed as Annexure 3</p>	Date: 29/11/2024
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2	WASTE MANAGEMENT	Efforts shall be made to use fly ash generated from the power plant maximum in making Pozzolana Portland Cement (PPC). Bed ash shall be collected in ash cooler hoppers and then conveyed to a bed ash storage silo for further use as boiler bed material.
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<p>PPs Submission: Complied</p> <p>During Apr 2024 to Sep 2024 our CPP was not in operation. Fly ash generated from our CPP in past has been utilized in cement manufacturing Process and Bed ash collected in bed ash storage silo for further use as boiler bed material.</p>	Date: 29/11/2024
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3	WASTE MANAGEMENT	Efforts shall be made to use low grade lime, more fly ash and solid waste in the cement manufacturing.
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<p>PPs Submission: Complied</p> <p>Fly ash is being used in the manufacturing process of cement. Efforts are being made as a continuous process to utilize low grade limestone to the optimum level.</p>	Date: 29/11/2024
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4	GREENBELT	As proposed in EIA/EMP, out of total 120 ha., green belt shall be developed in 40 ha (33 percentage) in and around the plant as per the CPCB guidelines to mitigate the effects of air emissions in consultation with local DFO.
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<p>PPs Submission: Complied</p> <p>Since Commencement of project work, massive plantation program is undertaken. Nurturing and watering of the plantation made is being carried out on continuous basis to sustain the survival rate of the green belt Photographs are attached as Annexure -4</p>		<p>Date: 29/11/2024</p>
5	MISCELLANEOUS	Prior environmental clearance from the Ministry of Environment and Forests for the Captive (Yadwad) limestone mine shall be obtained.
<p>PPs Submission: Complied</p> <p>Obtained EC from Ministry of Environment and Forest F.No.J-11015/36/2009- IA.II (M), Dated 13th March 2015.</p>		<p>Date: 29/11/2024</p>
6	MISCELLANEOUS	All recommendations made in the Corporate Responsibility for Environment Protection (CREP) for cement plants shall be implemented.
<p>PPs Submission: Complied</p> <p>All recommendations made by CREP for Cement Plants are implemented.</p>		<p>Date: 29/11/2024</p>
7	WATER QUALITY MONITORING AND PRESERVATION	As proposed total water requirement from Ghataprabha River shall not exceed 3100 m3/day. No water shall be drawn from Dodahalla nallah. Captive Power Plant shall be provided with air-cooled condensers to reduce the water intake. The process effluent from captive power plant (CPP) shall be treated in effluent treatment plant (ETP) and treated waste water shall be recycled and reused in the cement manufacturing process and/or for dust suppression, green belt development and other plant related activities etc. No process waste water shall be discharged outside the factory premises and zero discharge shall be adopted.
<p>PPs Submission: Complied</p> <p>As mentioned in EC that total water requirement is 3100 m3/day. Due to design constraint of equipment and low production of plant, existing water usage is 1490 m3/day and remaining water requirement will be Considered after expansion of Plant. Pipeline implementation could not be completed due to geological and topological difficulties. Meanwhile, to meet plants water requirement, DCBL developed 3 rainwater harvesting pits (Manas Sarovar, Pushkar and Rain water Harvesting Pit). Collected Rain water alone is not sufficient to meet the plant water demand and hence NOC obtained from Karnataka Ground Water Authority for withdrawal of ground water vide letter no. DE0011198953705 dated 11.01.2022. The information of withdrawal of GW has been informed to MoEFCC regarding the same vide letter dated 04.01.2013. Captive Power Plant has been provided with air cooled condensers to reduce the water consumption. The effluent from captive power plant (CPP) is being treated in ETP and treated wastewater is recycled back to the plant for secondary usage. No process waste water is discharged outside the factory premises and hence ZLD is adopted.</p>		<p>Date: 29/11/2024</p>
8	WATER QUALITY MONITORING AND PRESERVATION	Permission for the drawl of 3,100 m3/day from River Ghataprabha shall be obtained from concerned Department. Captive Power Plant shall be provided with air-cooled condensers to reduce the water intake.
<p>PPs Submission: Complied</p> <p>As mentioned in EC that total water requirement is 3100 m3/day. Due to design constraint of equipment and low production of plant, existing water usage is 1490 m3/day and remaining water requirement will be Considered after expansion of Plant. Pipeline implementation could not be completed due to geological and topological difficulties. Meanwhile, to meet plants water requirement, DCBL developed 3 rainwater harvesting pits (Manas Sarovar, Pushkar and Rain water Harvesting Pit). Collected Rain water alone is not sufficient to meet the plant water demand and hence NOC obtained from Karnataka Ground Water Authority for withdrawal of ground water vide</p>		<p>Date: 29/11/2024</p>

<p>letter no. DE0011198953705 dated 11.01.2022. The information of withdrawal of GW has been informed to MoEFCC regarding the same vide letter dated 04.01.2013. But, now, company is proposing expansion in Existing Cement Plant for which additional water will be required. It is proposed to use water from Ghattprabha River in addition to ground water and rain water harvesting. Accordingly, renewal of permission for withdrawal of 3148 KLD water from Ghataprabha river has been Obtained vide order no. WRD/18/NIN/2022, Valid till 05.02.2024 and applied for its renewal. The Captive power plant is provided with air-cooled condensers to minimize the water intake.</p>		
9	AIR QUALITY MONITORING AND PRESERVATION	<p>Continuous stack monitoring facilities to monitor gaseous emissions from all the stacks shall be provided and limit of particulate matters shall be controlled within 50 mg/Nm³ by installing adequate air pollution control system. Electrostatic precipitator (ESP) to clinker cooler and captive power plant, bag house to raw mill / kiln and cement mill shall be provided to control air emissions within 50 mg/Nm³ and reports submitted to the Ministry's Regional Office at Bangalore, Central Pollution Control Board (CPCB) and Karnataka Pollution Control Board (KPCB).</p>
<p>PPs Submission: Complied Online Continuous Emission monitoring systems (OCEMS) for gaseous emissions from all the stacks at Cement plant and CPP are provided and connected to CPCB Server. The Copy of CEMS report is attached as Annexure 1 High Efficiency of Electrostatic Precipitators has been installed for clinker cooler and Captive Power Plant, Bag house has been provided mill to maintain the emission well within stipulated limit. Copy of statistical analysis of third-party monitoring reports is attached as Annexure 2.</p>		Date: 29/11/2024
10	AIR QUALITY MONITORING AND PRESERVATION	<p>Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land. Wagon and truck tippers for unloading and transportation shall be covered with tarpaulin. Internal roads shall be asphalted and sprinkled with water regularly.</p>
<p>PPs Submission: Complied Complied Following efforts have been made to reduce the impact of transportation on surrounding environment including agricultural land: The transportation of the raw materials and products through covered vehicles and overloading of materials not allowed. All the trucks are parked at concreted parking area. Fully covered conveyor system implemented for transportation of crushed limestone, coal and gypsum within the cement plant. Covered Raw material, Additive and coal storage yard provided to prevent airborne fugitive dust emission in the surrounding environment. Covered tarpaulin system implemented at truck tippers for unloading. Internal roads are made of RCC. Water tankers are deployed for sprinkling of water at regular intervals on the internal concrete roads, parking area and unloading areas. Sweeping machines are deployed for regular sweeping of road, parking area and loading area. Plantations done all along the roads.</p>		Date: 29/11/2024
11	WASTE MANAGEMENT	<p>All the fly ash shall be utilized as per Fly ash Notification, 1999 subsequently as amended in 2003.</p>
<p>PPs Submission: Complied During Apr 2024 to Sep 2024 our CPP was not in operation. Fly ash generated from our CPP in past has been utilized in cement manufacturing Process.</p>		Date: 29/11/2024
12	WASTE MANAGEMENT	<p>All the dust collected from pollution control devices shall be recycled and reused in the process and used for cement manufacturing. Refractory bricks having high recycling values shall be sold to outside agencies or disposed off in environment-friendly manner. Domestic solid waste i.e. sludge shall be composted and used as organic manure for the green belt development within the plant and colony area. Used oil and scrapped auto mobile batteries shall be sold to authorized recyclers/ re-processors only.</p>

<p>PPs Submission: Complied</p> <p>Complied All the Dust collected from pollution control equipments are being reused in the process and for cement manufacturing. Refractory bricks are being sold out to outside agencies and while disposing all environment protection measures have been taken to avoid any pollution. Domestic solid waste is converted into organic manure for green belt development. Waste oil are being stored separately in covered leak proof containers on concrete floor and are co-processed in kiln. Used Oil along with grease has been stored scientifically and disposed off to PCB approved vendors. Used batteries are being disposed to authorized recyclers / re-processors or buyback through registered vendor only.</p>	<p>Date: 29/11/2024</p>
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13	WASTE MANAGEMENT	An effort shall be made to use of high calorific hazardous waste viz. municipal solid waste, solvents, spent oil, agro waste, sludge from DG sets and used tyres etc. in the cement kiln and necessary provision shall be made accordingly.
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<p>PPs Submission: Complied</p> <p>The high calorific hazardous wastes are being used in kiln as fuel based on availability and feasibility. We have authorization from KSPCB for co-processing of hazardous and other waste in kiln. Efforts are being made to explore the possibility of increasing the usage of Hazardous and other Waste.</p>	<p>Date: 29/11/2024</p>
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General Conditions

Sr.No.	Condition Type	Condition Details
1	WATER QUALITY MONITORING AND PRESERVATION	The company shall 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

<p>PPs Submission: Complied</p> <p>Nearly 1,89,000 KL Capacity rain water harvesting pond developed with drains to collect all the surface runoff during monsoon to conserve water. The location map of Rain Water Harvesting pond is enclosed as Annexure 7</p>	<p>Date: 29/11/2024</p>
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2	MISCELLANEOUS	The project authority shall adhere to the stipulations made by Karnataka Pollution Control Board (KPCB) and State Government.
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<p>PPs Submission: Complied</p> <p>Conditions stipulated by KSPCB in CFO and subsequent directions as well as conditions laid by State Government is being adhered.</p>	<p>Date: 29/11/2024</p>
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3	AIR QUALITY MONITORING AND PRESERVATION	The gaseous and particulate matter emissions from various units shall conform to the standards prescribed by the Karnataka Pollution Control Board. At no time, the particulate emissions from the cement plant shall exceed KPCB 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
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<p>PPs Submission: Complied</p> <p>Interlocking facility had been provided to pollution Control Equipments so that in the event of the pollution control equipment not working properly the respective unit(s) will shut down automatically. Report on stack emissions confirming to KSPCB standards is attached as Annexure 1 and 2</p>	<p>Date: 29/11/2024</p>
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4	AIR QUALITY MONITORING AND PRESERVATION	One ambient air quality monitoring station shall be installed in downwind 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
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		emissions shall be carried out regularly in consultation with KSPCB and report submitted to the KPCB quarterly and to the Ministrys Regional Office at Bangalore half-yearly	
		<p>PPs Submission: Complied Complied One online Ambient Air Quality monitoring station installed in the downwind direction. Copy of Online AAQM data (day Average) is attached as Annexure 5. Online Continuous Stack Emission Monitoring System (OCEMS) is also installed in all the stacks. The data is being uploaded in CPCB server continuously. All the emission levels were maintained within standards stipulated by the PCB. A NABL accredited third-party agency is deployed for monitoring of Air, Water, soil, Noise and monitoring on fixed intervals. Copy of statistical analysis of third-party monitoring reports of Ambient Air Quality, Stack emission and Online Ambient Air quality data are enclosed as Annexure 6 Half-yearly reports are being submitted to Ministrys Regional Office at Bangalore.</p>	Date: 29/11/2024
5	AIR QUALITY MONITORING AND PRESERVATION	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. Asphalting/concreting of roads 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 fully covered conveyors for transportation of materials shall be provided besides coal, cement, fly ash and clinker shall be stored in silos	
		<p>PPs Submission: Complied Adequate dust collection and extraction systems are installed at various transfer points, raw mill handling (unloading, conveying, transporting, stacking) etc. Bag filters had been installed at all emission Sources. 9 km Internal RCC roads developed to control fugitive emissions. Covered sheds for storage of raw materials and coal All conveyors are covered for transportation of crushed limestone, coal and gypsum within the cement plant. RCC Silos for clinker storage, Cement and fly ash.</p>	Date: 29/11/2024
6	MISCELLANEOUS	Proper housekeeping and adequate occupational health programmes shall be taken up.	
		<p>PPs Submission: Being Complied Sweeping Machines have been deployed to maintain proper housekeeping with in plant premises. Pre-employment medical check-up has been undertaken for all employees. First aid facility is provided at OHC Centre inside the factory premises with 24 hrs ambulance availability. Health awareness program and first aid training are being provided on continuous basis. Enclosed as Annexure 10</p>	Date: 29/11/2024
7	MISCELLANEOUS	A separate environmental management cell to carry out various management and monitoring functions shall be set up under the control of Senior Executive	
		<p>PPs Submission: Being Complied A dedicated Environment Management Cell has been established with Environment officer under the control of Senior Executive to carry out various environment management and monitoring functions.</p>	Date: 29/11/2024
8	Statutory compliance	The Regional Office of this Ministry at Bangalore / CPCB / KPCB shall monitor the stipulated conditions. A six-monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly	
		<p>PPs Submission: Being Complied The monitoring activities are being carried out regularly. Six months compliance report and the monitored data along with statistical interpretation submitted to RO Bangalore, CPCB/KPCB</p>	Date: 29/11/2024

		regularly.	
9	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: Being Complied Date of Financial Closure: 31st March 2016. Date of commencement of land development work: 1st October 2012.			Date: 29/11/2024
10	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 Karnataka Pollution Control Board 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 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.	
PPs Submission: Complied It was advertised in Deccan Herald in English and Prajavani in Kannada and copies of same sent with previous compliance Report. A copy of the same forwarded to the Ministrys Regional Office at Bangalore.			Date: 29/11/2024
11	MISCELLANEOUS	No further expansion or modification of the plant shall be carried out without prior approval of this Ministry	
PPs Submission: Complied No modification carried out since commissioning. Any modification or expansion shall be carried out with prior approval from the Ministry.			Date: 29/11/2024
12	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) and 70 dBA (night time)	
PPs Submission: Being Complied Overall noise levels in and around the plant area are being controlled within the standards prescribed by Board. Noise monitoring is being carried out by third party agency on regular basis and the reports were confirming to the standards. The report on Noise monitoring as attached as Annexure 9			Date: 29/11/2024
13	Corporate Environmental Responsibility	As proposed in EIA/EMP, Rs. 31.05 Corers and Rs. 4.28 Corers earmarked towards capital cost and recurring cost/annum respectively for the environmental pollution control measures shall be suitable 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: Being Complied The funds hence provided are exclusively for the implementation of the Environment Management Plan. Detail of the Recurring cost incurred to Environment protection and control measures the pollution by equipments for the FY 2023-24 is Enclosed as Annexure-11 We have incurred an expenditure of about 56.10 Cr. for Bag house in cement mill, Raw Mill, Coal Mill and ESP of clinker cooler and implementation of EMP as well as for green belt development.			Date: 29/11/2024

14	Corporate Environmental Responsibility	The company shall undertake Eco-development measures including community welfare measures in the project area
<p>PPs Submission: Being Complied Efforts are being undertaken Eco development measures. Some of the following measures are being implemented as a continuous development at surrounding villages Livelihood and Skill building Programs Health care camps Water Infrastructure facilities Education ODF village Community hall development etc. Report on Eco development and community development measures is attached as Annexure 8</p>		<p>Date: 29/11/2024</p>
<p>Visit Remarks</p>		
<p>Last Site Visit Report Date:</p>		<p>N/A</p>
<p>Additional Remarks:</p>		
<p>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.</p>		