


भारतीय डाक



EK443240891IN IVR:6975443240891
SP BENGALURU G.P.O. (360001)
Counter No:8,24/05/2018,12:06
To:R O K S P C BOARD..
PIN:565101, Kalaburagi H.O
From:DHANSHYAM RAO P..
Wt:30gms
Amt:41.30(Cash)Tax:6.30
(Track on www.indiapost.gov.in)

India Post


Dalmia
Bharat Cement

tories! power!

To
The Addl. Principal Chief Conservator of Forests (C)
Ministry of Environment, Forest & Climate Change
Regional Office (South Zone), 4th Floor, E&F Wings,
Kendriya Sadan, 17th Main Road, IInd Block, Koramangala
Bangalore-560 034

Date: 23.05.2018

Dear Sir,

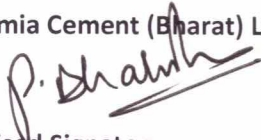
Sub: Cement Plant (4.0 MTPA), Clinker (2.6 MTPA) and Captive Power Plant (40 MW) at Village Konkanhalli-Hosahalli, Taluk Sedam, District Gulbarga, Karnataka, by M/s Dalmia Cement (Bharat) Limited, Certified copy of EC Compliance-reg.

Ref: MOEF, New Delhi Environment Clearance F. No. J-11011/118/2007- IA II (I) dated 25th Aug. 2008

We are herewith enclosing the Half-Yearly Compliance Report of conditions laid in the Environmental Clearance Obtained from MoEF&CC, New Delhi, for the above said project for the period from **Oct. 2017 to March 2018** for your kind perusal and record.

Thanking you
Yours Faithfully

For Dalmia Cement (Bharat) Ltd.

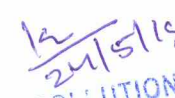


Authorised Signatory

Encl: As Above

CC:

1. **Regional officer,**
Karnataka State Pollution Control Board, Karnataka Housing Board Colony, Green Park, Plot No. F-101, 1st Floor, In front of Adarsh ITI Collage Sy No.19/P & backside of Shore Gumbaj, Kalaburgi- 585 101
2. **Regional Officer,**
Central Pollution Control Board,
1st & 2nd Floors, Nisarga Bhavan
A-Block, Thimmaiah Main Road
7th D Cross, Shivanagar,
Bengaluru -560 079


CENTRAL POLLUTION CONTROL BOARD
MINISTRY OF ENVIRONMENT FORESTS &
CLIMATE CHANGE, GOVT. OF INDIA
REGIONAL DIRECTORATE (SOUTH)
1ST & 2ND FLOOR, 'NISARGA BHAVAN'
7TH 'D' MAIN, THIMMAIAH ROAD,
SHIVANAGAR, BENGALURU - 560 079

प्रेषकना
DESPATCHER
पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय
23/5/18

Ministry of Environment, Forests & Climate Change

क्षेत्रीय कार्यालय, दक्षिण वलय

Regional Office, Southern Zone

केन्द्रीय सदन, चौथा तल, कोरमंगला

Kendriya Sadan, 4th Floor, Koramangala

बंगलूरु/Bengaluru-560 034

Dalmia Cement (Bharat) Limited

RS No.394, Yadwad Village, Gokak Taluk, Belgaum - 591 136, Karnataka, India

t 91 8334292271 w www.dalmiacement.com. CIN : U65191TN1996PLC035963

Registered Office : Dalmiapuram, Dist. Tiruchirappalli, Tamil Nadu-621 651, India

A Dalmia Bharat Group company. www.dalmiabharat.com

Environmental Clearance Compliance Half Yearly Report**HALF YEARLY COMPLIANCE REPORT- Oct. 2017 – March 2018**

Ref: MOEF, New Delhi Environment Clearance F. No. J-11011/118/2007- IA II (I) dated 25th August, 2008, extension of validity of EC vide letter no J-11011/118/2007- IA II (I) dated 15th Oct., 2013 and 10th August, 2016.

Name of the Project: Dalmia Cement (Bharat) Limited

EC to Cement Plant (4.0 MTPA) and Captive Power Plant (40 MW) at Village Kokanhalli-Hoshalli, Taluk Sedam, District Gulbarga, Karnataka

Constriction/site development activities are yet to be started

| Sn | Conditions | Compliance Status |
|-----------|---|--|
| A. | Specific Conditions | |
| i. | Continuous stack monitoring facilities to monitor gaseous emissions from all the stacks shall be provided and limit of SPM shall be controlled within 50 mg/Nm ³ by installing adequate air pollution control system by installing adequate air pollution control system. Electrostatic precipitator (ESP) to clinker cooler and captive power plant, bag house to raw mill / kiln and bag filters to cement mill and coal mill shall be provided to control air emissions within 50 mg/Nm ³ and reports submitted to the Ministry's Regional Office at Bangalore, Central Pollution Control Board (CPCB) and Karnataka Pollution Control Board (KPCB). | <p>Noted for Compliance</p> <p>It is proposed to have Continuous stack monitoring facilities to monitor gaseous emissions from all the major stacks and limit particulate matters from all the stacks, to meet the emission standards as notified by Gazette Notification G.S.R. 612 (E) dtd. 25th Aug. 2014 and G.S.R. 497 (E) dtd. 10th May 2016 for cement Plants.</p> <p>After the commissioning of the plant regular monitoring will be conducted and report of same will be submitted to RO at Bangalore, CPCB and KPCB.</p> |
| ii. | 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 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>Noted for Compliance</p> <p>During and after the commissioning of the plant Secondary fugitive emissions will be controlled within the prescribed limits and will be regularly monitored. Fugitive emission guidelines issued by CPCB will be followed.</p> <p>It is proposed to have bagfilters with ventilation system at coal mill and all the raw material handling areas like clinker, cement & flyash silos, clinker hoppers etc.</p> <p>The plant is proposed to have closed clinker stockpile system.</p> <p>In addition to this, to eliminate fugitive emissions, transportation of the ash to the cement plant shall be in closed containers and the ash will be pneumatically transferred to ash silos.</p> |

| Sn | Conditions | Compliance Status |
|------|---|---|
| iii. | 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>Noted for Compliance</p> <p>After the commissioning of the plant, the impact of the transport of raw materials and end products on the surrounding areas will be minimised to the extent possible. Wagon and truck tippers will be covered with tarpaulin. Internal roads will be asphalted and regular water sprinkling arrangement shall be made.</p> <p>Even during the Construction Phase aim will be to minimize the impact on the surrounding areas, Water sprinkling facility shall be provided to minimize the dust generation and being blown away by the wind.</p> |
| iv. | As proposed, total water requirement from Kagna river and ground water source shall not exceed 2,500 m ³ /day and 100 m ³ /day respectively and prior 'permission' for the drawl of water shall be obtained from concerned Department. The process effluent from captive power plant (CPP) shall be treated in effluent treatment plant (ETP) and treated wastewater 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 wastewater shall be discharged outside the factory premises and 'Zero' discharge shall be adopted. | <p>Noted for Compliance</p> <p>Permission for withdrawal of water from Kagina River has been obtained wide letter no WRD 93 KBN 2014 dated 26th July 2014 from WRD and Karnataka Neeravari Nigam.</p> <p>On the commissioning of the plant the process effluent from captive power plant (CPP) shall be treated in effluent treatment plant (ETP) and treated wastewater shall be recycled and reused in the cement manufacturing process and/or for dust suppression, green belt development and other plant related activities etc.</p> <p>No process wastewater shall be discharged outside the factory premises and <u>'zero' discharge shall be adopted.</u></p> |
| v. | 'Permission' for the drawl of 3,100 m ³ /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>Ghataprabha River is erroneously mentioned in EC, as indicated above in point No. iv, water will be sourced from Kagna River and Ground water only.</p> <p>Permission for withdrawal of water from Kagina River has been obtained wide letter no WRD 93 KBN 2014 dated 26th July 2014 from WRD and Karnataka Neeravari Nigam.</p> <p>In the design stage itself, Captive power pant is proposed with air cooled condensers to reduce the water intake.</p> |
| vi | All the fly ash shall be utilized as per Fly ash Notification, 1999 subsequently amended in 2003. Efforts shall be made to use fly ash maximum in | <p>Noted for Compliance</p> <p>It is proposed to utilise the fly ash in manufacture of PPC. The plant will be</p> |

| Sn | Conditions | Compliance Status |
|------|---|--|
| | making Pozollona Portland Cement (PPC) | commissioned to manufacture 40% OPC, 57% PSC and 3% PPC. |
| vii | Fly ash shall be transported pneumatically to cement plant and 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. | <p>Noted for Compliance</p> <p>It is proposed to utilise fly ash from CPP in making PPC. Bed ash shall be collected in ash cooler and then conveyed to bed ash storage silo for further use as boiler bed material.</p> |
| viii | All the dust collected from pollution control equipments 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 / reprocessors only. | <p>Noted for Compliance</p> <p>It is proposed to recycle the dust collected from pollution control devices in the process and used for cement manufacturing. Refractory bricks will be sold to outside agencies or disposed off in environment friendly manner.</p> <p>Organic part of the domestic solid waste and sludge shall be composted and used as manure within the plant and colony.</p> <p>Used oil and scrapped automobile batteries shall be sold to authorised recyclers/reprocessors/burnt in Kiln after taking due authorization from the competent authority.</p> |
| ix | An effort shall be made to use of high calorific hazardous waste in the cement kiln and necessary provision shall be made accordingly. 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 | <p>Noted for Compliance</p> <p>The unit will use hazardous wastes in their kiln subject to availability and feasibility.</p> <p>The relevant design factors will be incorporated in the system for co-processing of pre-processed hazardous waste as a fuel and raw materials source. Eg. Alternate fuel feeding system will be incorporated; Different feed points for AFR introduction in the process, Feed points can be via the main burner, secondary burners, precalciner burners, etc. Storage facility for pre-processed hazardous wastes.</p> <p>The facility will be equipped with a continuous temperature monitoring system at the feed point (point where waste materials are introduced).</p> <p>Waste materials will only be fed into the kiln when operating conditions are stable. The facility will be equipped with a control system to either shut-off or reduce the feed rate of waste materials when abnormalities or upset</p> |

| Sn | Conditions | Compliance Status |
|----------|--|---|
| | | <p>conditions in the kiln operations occur. Feeding of waste materials will be discontinued under any of the following conditions:</p> <ul style="list-style-type: none"> • Failure of the dust collector; • Power failure; • Failure of feed point temperature monitoring system; and • Failure of the continuous emission monitoring system (CEMS); |
| x. | Efforts shall be made to use low grade lime, more fly ash and solid waste in the cement manufacturing | Noted for Compliance |
| xi. | As proposed, out of 120 ha., green belt shall be developed in 40 ha. (33%) in and around the plant as per the CPCB guidelines to mitigate the effects of air emissions in consultation with local DFO | <p>Noted for Compliance</p> <p>40 ha of the area in and around the plant site will be developed as Green Belt and plantations in phased manner, Green Belt development/Plantations plan will be discussed with the local DFO and will be implemented in phased manner during the construction and operation phase of the plant to mitigate the effects of air emissions.</p> |
| xii. | All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Cement plants shall be implemented | <p>Noted for Compliance</p> <p>All recommendations made in CREP for Cement Plants shall be implemented.</p> |
| B | GENERAL CONDITIONS | |
| i. | The project authority shall adhere to the stipulations made by Karnataka Pollution Control Board (KPCB) and State Government. | Noted for Compliance |
| ii. | No further expansion or modification of the plant shall be carried out without prior approval of this Ministry | Noted for Compliance |
| iii. | 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 | <p>Noted for Compliance</p> <p>Interlocking facility is proposed in the pollution control equipments so that in the event of the pollution control equipment not performing upto the standards, the respective unit(s) will shutdown automatically.</p> |
| iv. | One ambient air quality monitoring station shall be installed in downwind direction. Ambient air quality including ambient noise levels shall not exceed the | <p>Noted for Compliance</p> <p>After the commissioning of the plant One ambient air quality monitoring station will be</p> |

| Sn | Conditions | Compliance Status |
|------|---|--|
| | 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 KPCB and report submitted to the KPCB quarterly and to the Ministry's Regional Office at Bangalore half-yearly | installed in the downwind direction. Monitoring of Ambient air quality and stack emissions will be conducted regularly in consultation with KPCB and report shall be submitted as desired after the commissioning of the plant. |
| v. | 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 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 conveyers for transportation of materials shall be provided besides coal, cement, fly ash and clinker shall be stored in silos | Noted for Compliance It is already proposed in the design of the plant to have adequate dust collection and extraction systems at various transfer points, raw mill handling, bagging and packing areas etc. Water sprinkling will be carried out at desired areas. Covered sheds for storage of raw materials and fully covered conveyers for transportation of materials shall be provided besides coal, cement, fly ash and clinker shall be stored in silos |
| vi | 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 | Noted for Compliance The company will harvest rainwater from the rooftops and storm water drains to recharge the ground water and use the same water for various activities of the project to conserve fresh water. In addition to this as an initiative to conserve fresh water, company will also reutilise treated water from STP and ETP. |
| vii | The company shall undertake eco-development measures including community welfare measures in the project area | Noted for Compliance Detailed eco-development measures and community welfare measures that can be taken up in the area based on need based study of the people in the project area had been prepared and same will be implemented in phased manner when plant will be at its full rated production capacity. |
| viii | 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) | Noted for Compliance On commissioning of the plant, efforts shall be made so that 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) |
| ix. | Proper house keeping and adequate occupational health programmes shall be taken up | Noted for Compliance |

| Sn | Conditions | Compliance Status |
|------|--|---|
| x. | A separate environmental management cell to carry out various management and monitoring functions shall be set up under the control of Senior Executive | Noted for Compliance A separate Environment management Cell common for the Plant and Mines will be set up under the control of Senior Executive and he will execute and implement the entire environmental management plan for the plant and mines. |
| xi. | As proposed in EIA/EMP, Rs. 31.05 Crores and Rs. 4.28 Crores 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 | Noted for Compliance The funds so provided are exclusively for the implementation of the Environment Management Plan and shall not be diverted for any other purpose. |
| xii | The Regional Office of this Ministry at Bangalore / CPCB / KPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data alongwith statistical interpretation shall be submitted to them regularly | Noted for Compliance The monitoring will be undertaken after the commissioning of the plant. A six monthly compliance report and the monitored data alongwith statistical interpretation will be submitted to RO Bangalore, CPCB/KPCB regularly after the commissioning of the plant. |
| xiii | 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 | Noted for Compliance |
| xiv | 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 | Complied |