

OCL(CGU)/ENV/MoEFCC/03/2021-22/ 15

Date: 27.04.2022

**Additional Principal Chief Conservator of Forests**  
Ministry of Environment, Forest & Climate Change  
Regional Office (West Central Zone)  
Ground Floor, East Wing,  
New Secretariat Building, Civil Lines  
NAGPUR - 440001

**Sub: Compliance of Environmental Clearance issued for expansion of our Cement Grinding Unit (2,400 TPD to 6,500 TPD) located at NH-6, PO. Nashirabad, District Jalgaon, Maharashtra for Oct.21 to March. 2022.**

Ref: 1. F.No. J-11011/898/2007-IA II (I) dated 3<sup>rd</sup> March, 2008.  
2. F.No. J-11011/898/2007-IA II (I) dated 30<sup>th</sup> December 2013.

Dear Sir,

With reference to the above subject, we are submitting herewith the point wise half yearly compliance report of above referred Environmental Clearances issued for expansion of our Cement Grinding Unit (2,400 TPD to 6,500 TPD) located at Village Nashirabad, District Jalgaon, Maharashtra for the period from **Oct-2021 to March-2022**. Soft copy of the compliance report is sent on your email ID [ecompliance-mh@gov.in](mailto:ecompliance-mh@gov.in)

Submitted for your kind information please.

Thanking you

Yours Faithfully,  
For ORIENT CEMENT LTD. (CGU)



**M. P. JOSHI**  
Vice President



CC: 1. The In-charge, Central Pollution Control Board (West Zone), Parivesh Bhawan, Opp. VMC Ward Office No. 10, Subhanpura, VADODARA (Gujarat) – 390 023.  
2. The Member Secretary, Maharashtra Pollution Control Board, Kalpataru Point, 3rd and 4th floor, Opp. CineMax Theatre, Sion (E), MUMBAI (Mumbai) - 400 022.

**Orient Cement Limited**

Clinker Grinding Unit, At N. H. 6, Nashirabad, Jalgaon - 425 309 Maharashtra.

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Registered Office : Unit VIII, Plot No. 7, Bhoingar, Bhubneshwar, Odisha 751012, India. [www.orientcement.com](http://www.orientcement.com)

CIN No. : L26940OR2011PLC013933

## ORIENT CEMENT LTD. (CGU), JALGAON

Compliance of the Environmental Clearance letter no.F.No. J-11011/898/2007-IA II (I) dated 3<sup>rd</sup> March, 2008 and J-11011/898/2007-IA II (I) dated 30<sup>th</sup> December, 2013

**Period: Oct-2021 to March-2022.**

Sr. No.	Conditions	Compliance
<b>A. SPECIFIC CONDITIONS</b>		
i.	Cement Grinding shall be carried out in closed existing cement mill and shall have highly efficient bag filters. The stack emission from various sources shall not exceed 50 mg/Nm <sup>3</sup> .	Cement grinding is being carried out in closed cement mill having high efficiency bag filters. Stack emission from various sources is well within the prescribed limit.
ii.	The Gaseous emissions (SPM, SO <sub>2</sub> , NO <sub>x</sub> , CO) and particulate matter from various units shall conform to the standards prescribed by the Maharashtra Pollution Control Board. At no time, particulate emissions from the grinding unit shall exceed 50 mg/Nm <sup>3</sup> . Continuous on-line monitors for particulate emissions shall be installed in stacks. Interlocking facility shall be provided in the pollution control equipment so that in the event of pollution control equipment not working, the respective unit(s) is shut down automatically.	Being a standalone grinding unit, we are continuously monitoring the PM from various stacks to confirm the emission level within 30 mg/Nm <sup>3</sup> . Continuous online monitors have been also installed at Cement Mill-1 and Cement Mill-2 stacks. Interlocking facility has been also provided in the pollution control equipment so that in the event of pollution control equipment not working, the respective unit(s) is shut down automatically. Data of stack emission monitoring is attached herewith as <u><b>Annexure-1.</b></u>
iii.	Ambient Air Quality monitoring stations (AAQMS) shall be set up in the down wind direction as well as where maximum ground level concentration of SPM, SO <sub>2</sub> and NO <sub>x</sub> are anticipated as per statutory requirement in consultation with the MPCB. Ambient Air Quality including ambient Noise level shall not exceed the standards stipulated under EPA or by the State Authorities. Monitoring of ambient air quality and shall be carried out regularly in consultation with MPCB and data submitted to the Ministry's Regional Office at Bhopal half yearly, and CPCB and MPCB quarterly. The instruments used for ambient air quality monitoring shall be calibrated time to time.	Total (03) three nos. of continuous ambient air quality monitoring stations have been set up in consultation with MPCB. Regular monitoring of ambient air quality including ambient noise level is being carried out in consultation with MPCB. Continuous Ambient Air Quality Monitoring results are enclosed herewith as <u><b>Annexure-2.</b></u>



iv.	The company shall install adequate dust collection and extraction system to control fugitive dust emissions at loading/unloading points and at all the transfer points. Fugitive emission shall be controlled by providing silos and closed roof sheds for raw materials and product. Water sprinkling arrangement shall be made in the raw material stock yard and cement bag loading areas.	We have installed adequate dust collectors and extraction system to control the fugitive dust emission at loading/unloading points and all the transfer points. We have provided silos for clinker, fly ash and cement storage whereas closed yard has been provided for storage of gypsum. Gypsum already contains 15 to 20 % moisture, and our final product cement is hydraulic in nature & properties gets changed when it contact with water. Dust emission is well within the control due to moisture content in Gypsum and providing sufficient dust control measures in cement loading section.
v.	Total water requirement shall not exceed 110 m3/day and prior permission for the drawl of 60 m3/day ground water required for the expansion project shall be obtained from State Ground Water Board/ Central Ground Water Authority (SGWB/CGWA). All the recommendations / conditions stipulated by SGWB/CGWA shall be implemented. Efforts shall be made to reduce fresh water consumption by recycling and reusing treated waste water in the process. No effluent shall be discharged outside the factory premises and 'zero' discharge shall be strictly followed.	Complying with. NOC for ground water withdrawal has been obtained from Central Ground Water Authorities. Compliance report of the same is being sent to the CGWA timely. To reduce the freshwater consumption various initiatives are being taken up by the industry and to maintain the 'Zero discharge' status 02 number of Sewage treatment plants are installed at packing plant and admin building area. The treated water is being used for the green belt development.
vi.	Solid waste viz. fly ash and dust etc. Shall be 100% recycled and reused in the process itself. The fines collected in the cyclone and bag filter shall also be recycled in the process. Spent oil generated shall be sold to authorized recyclers/ reproducers only.	Solid waste i.e. dust collected in cyclones and bag filters is being recycled into the process and fly ash generated in nearby Thermal Power Plants is being utilized for Manufacturing of PPC. Spent oil generated from the plant machinery is being sold to the authorized recycler/reprocess only.
vii.	As proposed, green belt shall be developed in 33% area. Central Pollution Control Board guidelines shall be followed in planning and developing green belt and selection of species etc.	Approx. 43 % area of the total land has been already covered under green belt development.
viii.	Other necessary statutory clearances from the concerned departments including 'No Objection Certificate' from the Maharashtra Pollution Control Board (MPCB) shall be obtained prior to commencement of construction and/or operation.	All the necessary statutory clearances from concerned departments have been obtained.
ix.	All the recommendations mentioned in the Corporate Responsibility for Environmental Protection (CREP) shall be followed and complied.	Already followed and complied.



## B. GENERAL CONDITIONS

i.	The project authority shall adhere to the stipulations made by Maharashtra Pollution Control Board and State Government.	We are complying with the stipulation made by Maharashtra Pollution Control Board and State Government.
ii.	No further expansion or modification of the plant shall be carried out without prior approval of the ministry.	We shall not carry out any further expansion / modification in the plant without prior approval from the ministry.
iii.	Industrial wastewater shall be properly collected and treated so as to conform the standards prescribed under GSR 422 (E) dated 19 <sup>th</sup> May, 1993 and 31 <sup>st</sup> December, 1993 or as amended time to time. The treated wastewater shall be utilized for plantation purpose.	No industrial wastewater is generated from the plant as we are having only clinker grinding unit for manufacturing of cement. Wastewater generated from urinals and toilets is being disposed into soak pit via septic tank and 02 no of Sewage treatment plants.
iv.	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 level shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time and 70 dBA (night time).	Complied with. Noise Level Monitoring report is enclosed herewith as <b><u>Annexure-3.</u></b>
v.	Proper housekeeping and adequate occupational health programmes must be taken up. Occupational health surveillance programme shall be done on a regular basis and records maintained properly for at least 30-40 years. The programme must include lung function and sputum analysis tests once in six months. Sufficient preventive measures shall be adopted to avoid direct exposure to dust etc.	We are maintaining good housekeeping in the plant premises. Occupational health check-up including lung function and sputum analysis tests is being conducted on regular basis and record maintained. We have installed Bag Houses/ Bag Filters at process equipment's and all the material transfer points to control the dust emission.
vi.	Rainwater harvesting measures shall be adopted. The company must also harvest the rainwater from roof tops and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve the fresh water.	We have adopted the rainwater harvesting measures from roof top as well as storm water drains to recharge the ground water level. In addition to this we have constructed rainwater harvesting structures at Jalgaon-Khurd village for ground water level enhancement.
vii.	The company shall undertake eco-development measures including community welfare measures in the project area.	We have already taken eco development measures including community welfare measures in nearby area.
viii.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP.	We have already adopted the environmental protection measures and safeguards as proposed in the EMP.

ix.	As proposed, Rs. 160.00 Lakhs and 85.00 Lakhs earmarked towards capital cost and recurring cost/annum respectively for the environmental protection measures shall be used exclusively 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.	Complying with. Details of the Recurring cost for <b>Oct-21 to March-22</b> are as under:																					
		<table> <tr> <th>Sr. No.</th><th>Description</th><th>Recurring Expenses (in Lakh))</th></tr> <tr> <td>1</td><td>Green belt development</td><td>8.28</td></tr> <tr> <td>2</td><td>Monitoring &amp; consent expenses</td><td>16.85</td></tr> <tr> <td>3</td><td>Housekeeping</td><td>16.34</td></tr> <tr> <td>4</td><td>Maintenance of Air Pollution Control Devices (APCD)</td><td>1.25</td></tr> <tr> <td>5</td><td>Power consumption for APCD</td><td>72.26</td></tr> <tr> <td></td><td><b>TOTAL</b></td><td><b>114.98</b></td></tr> </table>	Sr. No.	Description	Recurring Expenses (in Lakh))	1	Green belt development	8.28	2	Monitoring & consent expenses	16.85	3	Housekeeping	16.34	4	Maintenance of Air Pollution Control Devices (APCD)	1.25	5	Power consumption for APCD	72.26		<b>TOTAL</b>	<b>114.98</b>
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x.	A separate environmental management cell with full-fledged laboratory facilities to carryout various management and monitoring functions shall be setup under the control of Senior Executive.	Environment management cell with competent person is established. Laboratory is being provided for the Environment monitoring.																					
xi.	The regional office of this Ministry at Bhopal / Central Pollution Control Board / MPCB shall monitor the stipulated conditions. A six-monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	We are submitting herewith the six-monthly compliance report of all the specific and general conditions.																					
xii.	The project authority 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.	Complied with.																					
xiii.	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 Maharashtra Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forest at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . 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 Bhopal.	Advertised in two local newspapers namely Lokmat and Lokmat times on 12.03.2008 & 14.03.2008 respectively. Copy has been sent to Ministry of Environment and Forests and it's Regional Office Bhopal vide our letter no. ORCEM(CGU)/COMML/1088 dated 20/03/2008.																					

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**ORIENT CEMENT LTD., JALGAON**  
**STACK EMISSION LEVEL MONITORING DATA**

Oct- 2021 to March- 2022

S.No.	Location → Month ↓	Wagon Tippler PM (mg/Nm3)	Polycom Line - 1 PM (mg/Nm3)	Cement Mill - I PM (mg/Nm3)	Packer - I PM (mg/Nm3)	Packer - II PM (mg/Nm3)	Common Process Stack Line - II PM (mg/Nm3)	New Packing Plant PM (mg/Nm3)	Stack attached to D.G. outlet PM (mg/Nm3)
1	Oct-21	22.15	15.19	21.07	22.68	19.21	17.38	20.79	15.39
2	Nov-21	18.93	14.56	17.71	21.72	24.08	19.68	17.39	*
3	Dec-21	20.80	15.10	20.02	21.13	21.37	18.48	19.57	16.98
4	Jan-22	18.91	18.41	13.06	23.48	19.42	18.01	17.61	16.65
5	Feb-22	20.37	16.97	14.92	18.71	23.02	17.40	17.84	*
6	Mar-22	22.80	17.24	18.87	21.09	22.67	19.31	21.90	14.71
	Average	20.7	16.2	17.6	21.5	21.6	18.4	19.2	15.9

\* Not in operation

Annexure -1

ORIENT CEMENT LTD. JALGAON  
NOISE LEVEL MONITORING DATA  
October- 2021 to March- 2022

Sr No	Month	Noise level (in dB(A))							
		Plant Boundary near Sub-Station		Plant Boundary near Badli Gate		Plant Boundary Near Wagon Tippler		Main Gate	
		Day time	Night time	Day time	Night time	Day time	Night time	Day time	Night time
1	Oct-21	64.9	61.4	67.9	64.4	72.6	65.9	71.8	67.8
2	Nov-21	65.1	62.5	66.2	61.3	73.4	63.9	70.9	66.7
3	Dec-21	66.3	61.3	64.8	60.2	70.5	62.7	69.4	65.3
4	Jan-22	63.7	58.9	63.0	59.6	72.7	69.2	72.0	65.3
5	Feb-22	61.9	57.3	66.4	58.4	71.1	66.3	72.0	67.9
6	Mar-22	62.4	54.3	64.1	56.3	72.4	64.8	70.8	66.1
	<b>AVERAGE</b>	<b>64.1</b>	<b>59.3</b>	<b>65.4</b>	<b>60.0</b>	<b>72.1</b>	<b>65.5</b>	<b>71.2</b>	<b>66.5</b>

Annexure -2

ORIENT CEMENT LTD., JALGAON  
AMBIENT AIR MONITORING DATA  
Oct- 2021 to March- 2022

Sr. No.	Month	AAQM-1: Near Sub-Station				AAQM-2: Near Badli Gate				AAQM-3: Near Wagon Tippler			
		PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>
1	Oct-21	52.92	32.80	9.26	16.38	58.95	24.27	19.27	17.02	52.43	24.14	18.25	15.46
2	Nov-21	47.91	25.62	15.04	12.99	74.42	31.41	19.73	21.74	57.75	27.05	20.01	16.78
3	Dec-21	51.57	21.75	12.88	13.34	76.33	35.22	16.69	17.23	53.81	24.76	25.96	16.41
4	Jan-22	44.42	17.95	12.24	11.89	42.20	20.48	16.73	17.62	51.61	21.68	28.69	17.45
5	Feb-22	46.09	22.42	15.93	15.01	41.25	20.51	32.36	17.39	52.98	21.93	26.26	31.47
6	Mar-22	46.58	25.58	33.80	18.61	35.06	19.43	57.47	15.08	49.21	21.82	25.22	26.78
	Average	48.2	24.4	16.5	14.7	54.7	25.2	27.0	17.7	53.0	23.6	24.1	20.7