

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 October 2024 to March 2025.

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

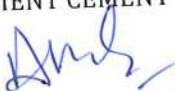
Dear Sir,

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 **October 2024 to March 2025**. Soft copy of the compliance report is sent on your email ID eccompliance-mh@gov.in

Submitted for your kind information please.

Thanking you

Yours Faithfully,
For ORIENT CEMENT LTD.


Atul Kumar Agrawal
Unit Head

Encl: As Above

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, Maharashtra - 400 022.

3. The Regional Officer, Maharashtra Pollution Control Board, 1st Floor, Udyog Bhavan, Trimbak Road, Satya Colony, Satpur, Near ITI, Nashik, Maharashtra - 422007

**COMPLIANCE REPORT
OF
ENVIRONMENTAL CLEARANCES**

CEMENT GRINDING UNIT (6500 TPD)

**At
NASHIRABAD, DISTRICT JALGAON
MAHARASHTRA**

**Submitted to:
MINISTRY OF ENVIRONMENT, FOREST
and CLIMATE CHANGE**



**Submitted By:
ENVIRONMENT MANAGEMENT DEPARTMENT
Orient Cement Limited (Cement Grinding Unit)
S.No. 166, 162, 173 to 175, 736 to 744, 2495, 898/1 At
NH - 6 PO. Nashirabad,
Tal & Dist: Jalgaon – 425309 (M.H.)**

PERIOD: October-2024 to March-2025

Sl. No.	Title	Annexures
1.	Introduction	
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1. Introduction

M/s. Orient Cement Limited (OCL) established 6500 TPD Cement Grinding Unit at Nashirabad in Jalgaon, Maharashtra in the Year of 1997.

The plant site is located at S.No. 166, 162, 173 to 175, 736 to 744, 2495, 898/1 At NH - 6 PO. Nashirabad, Tal & Dist: Jalgaon, Maharashtra. The Villages, Nashirabad and Jalgaon Khurd are around the plant. M/s. Orient Cement Limited (OCL) is certified for QMS ISO 9001:2015, EMS ISO 14001:2015, OHSMS 45001:2018, ISO 19011:2018 and ISO 50001:2018 and ISO 19011:2018. Orient Cement is one of the only two Indian cement companies to be awarded the prestigious TPM (Total Plant Maintenance) excellence award by the Japan Institute of Plant Maintenance. The company has also received numerous awards for green and safety practices including 'GreenPro Certification' by CII – Green Products and Services Council for its product Birla.A1 Premium Cement (PPC).

OCL has been granted Environmental Clearances from Ministry of Environment & Forest, Consent to Establish & Consent to Operate from Maharashtra Pollution Control Board for **expansion of our Cement Grinding Unit (2,400 TPD to 6,500 TPD)**. As a part of the compliance of statutory requirements, environmental quality monitoring is being done regularly at locations suggested by Sub- Regional Officer, MPCB, Jalgaon on the basis of micrometeorological parameters. Also, three nos. of Continuous Ambient Air Quality Monitoring System have been established in three different locations inside the plant boundary as per wind rose and suggested by SRO, MPCB, Jalgaon. Also engaged third party (M/s Mahabal Enviro Engineers Pvt. Ltd, Mumbai) to carry out, environmental monitoring & analysis of the Cement Grinding Unit.

Point wise compliance status of Environmental Clearance for **expansion of our Cement Grinding Unit (2,400 TPD to 6,500 TPD)** is furnished herewith.

ORIENT CEMENT LTD. (CGU), JALGAON

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

Sr. No.	Conditions	Compliance
A. SPECIFIC CONDITIONS		
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/Nm³ .	Being Complied. Cement grinding is being carried out in closed cement mill having high efficiency bag filters. Stack emission varies from 18 - 27 mg/Nm ³ at various process stacks and it is well within the prescribed limit of 30 mg/Nm³ .
ii.	The Gaseous emissions (SPM, SO ₂ , NO _x , 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/Nm³ . 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/Nm³ . 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>Annexure-1 & 1a.</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 ₂ and NO _x 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.	Being Complied. 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>Annexure-2 & 2a.</u>

iv.	<p>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.</p>	<p>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 contacts 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. Deploy mechanised road sweeping machine and water tanker time to time for controlling fugitive dust emission. (Refer Annexure – 3)</p>
v.	<p>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 freshwater 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.</p>	<p>Being Complied. 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. Various initiatives are being taken up by the industry to reduce the freshwater consumption. Efforts are also made to maintain the 'Zero discharge' where we installed 02 numbers of Sewage Treatment Plant at packing plant area and admin building area. The treated water is being used for the green belt development. (Please refer Annexure – 4)</p>
vi.	<p>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/ reprocessors only.</p>	<p>Being Complied. Solid waste i.e. dust collected in cyclones and bag filters is being recycled into the process. Solid Waste i.e. Biodegradable and Non – Biodegradable waste are also generated inside the plant premises. The following measures are taken for effective management of solid waste.</p> <ol style="list-style-type: none"> I. Separate dust bins have been placed for collection of Biodegradable and Non - Biodegradable Waste. II. Separate Plastic Waste Bin also placed for collection of Plastic Waste. III. Renewable Depot has been

		<p>established for segregation & scientific disposal of Non – Biodegradable waste.</p> <p>IV. Vermicompost Unit has been established for recycling of Green Waste which is being convert into manure.</p> <p>V. Installed Organic Shredder for process the green waste and same is being used as raw material in vermicompost unit.</p> <p>(Please refer Annexure – 5)</p>
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.	<p>Approx. 43 % area (106550 sq.m) of the total land has been already covered under green belt development.</p> <p>Sapling like Neem, Ashoka, Saptaparni, Gulmohar, Baniyan, Teak wood and other fruit bearing trees (Mango, Gauva, Chiku, Amla) etc. has been planted inside the plant premises under green belt development. (Please refer Annexure – 6)</p>
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 such as CTE & CTO from concerned departments have been obtained by Industry.
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.	<p>Noted.</p> <p>OCL(CGU) is complying with the stipulation made by Maharashtra Pollution Control Board such as obtaining CTE & CTO and Factory License by DISH, Govt. of Maharashtra.</p>
ii.	No further expansion or modification of the plant shall be carried out without prior approval of the ministry.	<p>Noted.</p> <p>We shall not carry out any further expansion / modification in the plant without prior approval from the ministry.</p>
iii.	Industrial wastewater shall be properly collected and treated so as to conform the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st 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 recycled through 02 nos. of Sewage

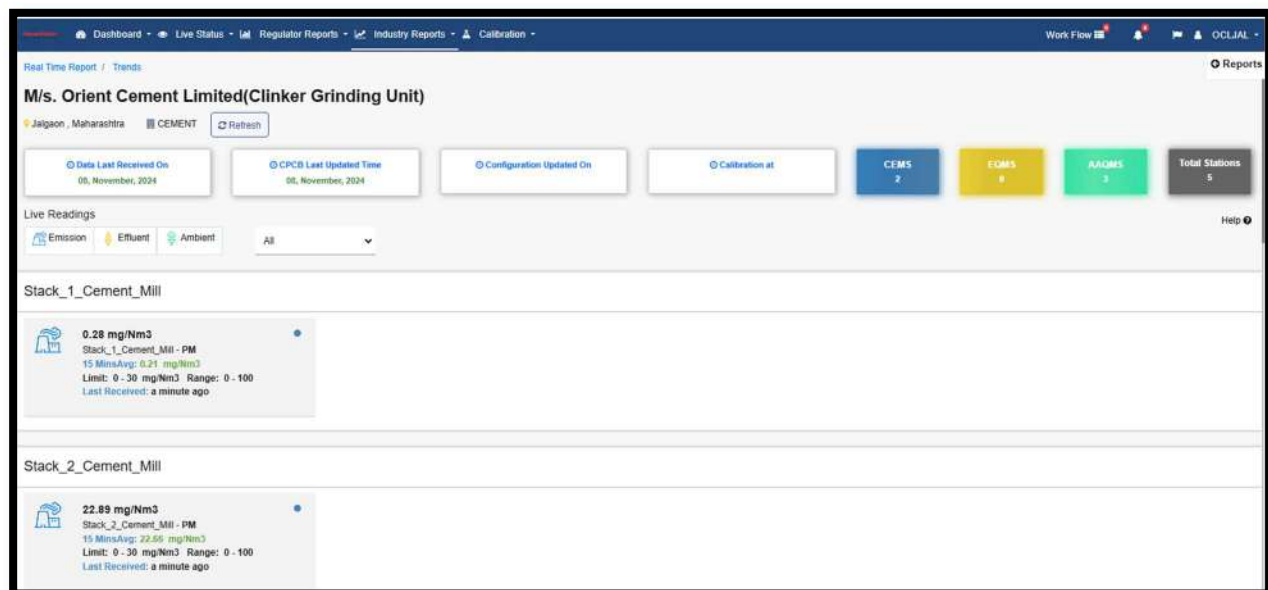
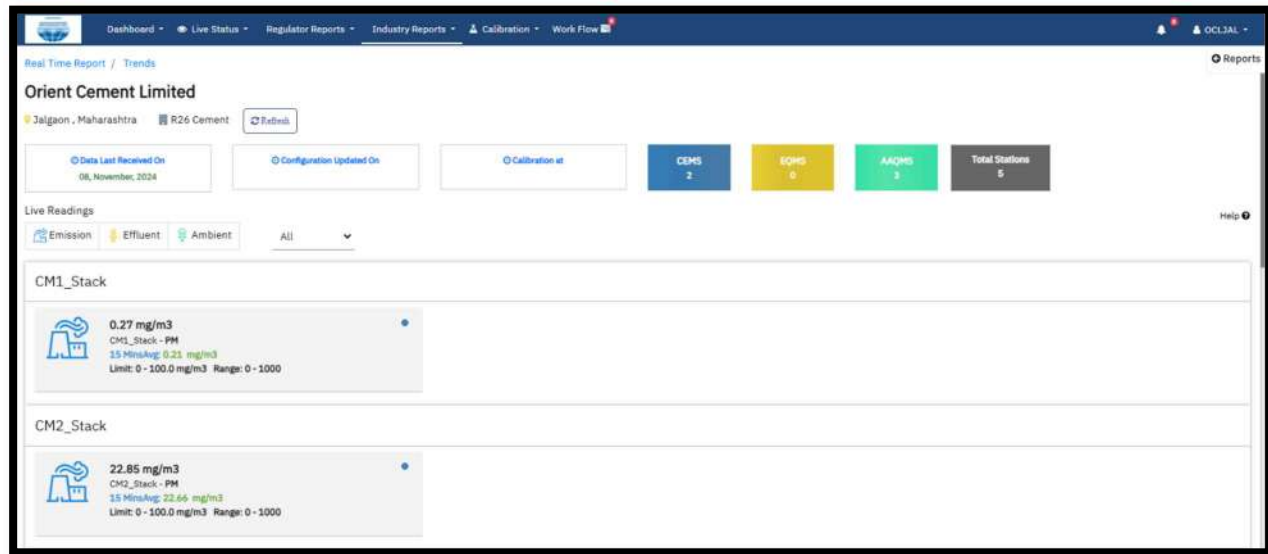
		treatment plants.						
iv.	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. On all sources of noise generation. The ambient noise level shall confirm to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time and 70 dBA (night time).	Being Complied. Noise Level Monitoring report is enclosed herewith as <u>Annexure-7.</u>						
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 have maintained a good housekeeping in the plant premises. Occupational health check-up including lung function and sputum analysis tests is being conducted twice in a year and record maintained by HR Dept. Bag Houses/ Bag Filters installed at process equipment's and all the material transfer points to control the fugitive 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 established the rainwater harvesting structures having capacity 2,44,544 m ³ inside the plant premises for collection of rainwater 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. Please Refer Annexure – 8						
vii.	The company shall undertake eco-development measures including community welfare measures in the project area.	We have constructed Toilets & Mathematical Shape's in schools of Nashirabad & Jalgaon Khurd Village. In addition to this industry has also constructed rainwater harvesting structures at Jalgaon-Khurd village for ground water level enhancement. Please Refer Annexure – 9.						
viii.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP.	OCL (CGU), Jalgaon installed Latest Art of Technology Emission Control Equipment's, to reduce the Air, Water, Noise & Land Pollution for environmental protection. Please refer (Annexure – 10)						
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.	Being Complied. Details of the Recurring cost for FY 2024 - 25 are as under: <table border="1" data-bbox="892 1973 1401 2087"> <tr> <th>Sr. No.</th><th>Description</th><th>Recurring Expenses (in Lakh))</th></tr> <tr> <td> </td><td> </td><td> </td></tr> </table>	Sr. No.	Description	Recurring Expenses (in Lakh))			
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	The funds so provided shall not be diverted for any other purpose.	<table> <tr> <td>1</td><td>Green belt development</td><td>16.29</td></tr> <tr> <td>2</td><td>Consent to Operate (CTO) fees, Environment Audit fees, Pat Audit fees etc.</td><td>7.24</td></tr> <tr> <td>3</td><td>Monitoring Expenses (CMC for online Monitoring equipment)</td><td>35.84</td></tr> <tr> <td>4</td><td>Third Party Environment Monitoring Expenses</td><td>7.47</td></tr> <tr> <td>5</td><td>Calibration of ENV Monitoring Equipment</td><td>0.47</td></tr> <tr> <td>6</td><td>Housekeeping (Plant and Office cleaning, Road, Office and Sweeper tractor breaker TPS etc. for Cleaning)</td><td>44.43</td></tr> <tr> <td>7</td><td>Maintenance of Pollution Control Equipment</td><td>13.34</td></tr> <tr> <td>8</td><td>Power consumption of Air Pollution Control Equipment</td><td>155.82</td></tr> <tr> <td>9</td><td>Any other-MPCB Factory License fees</td><td>1.15</td></tr> <tr> <td>10</td><td>New Lab establishment</td><td>14.09</td></tr> <tr> <td>11</td><td>Other Environment related</td><td>2.41</td></tr> <tr> <td></td><td>TOTAL</td><td>298.55</td></tr> </table>	1	Green belt development	16.29	2	Consent to Operate (CTO) fees, Environment Audit fees, Pat Audit fees etc.	7.24	3	Monitoring Expenses (CMC for online Monitoring equipment)	35.84	4	Third Party Environment Monitoring Expenses	7.47	5	Calibration of ENV Monitoring Equipment	0.47	6	Housekeeping (Plant and Office cleaning, Road, Office and Sweeper tractor breaker TPS etc. for Cleaning)	44.43	7	Maintenance of Pollution Control Equipment	13.34	8	Power consumption of Air Pollution Control Equipment	155.82	9	Any other-MPCB Factory License fees	1.15	10	New Lab establishment	14.09	11	Other Environment related	2.41		TOTAL	298.55
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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 Department is established & headed by the Asst. Manager – Environment. Full-fledged Environmental laboratory has also been established by the industry for compliance of EC & CTO condition. Please refer Annexure – 11 .																																				
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	Six monthly compliance reports are being submitted regularly to MoEFCC, CPCB & MPCB. Last compliance report was submitted vide our letter																																				

	data along with statistical interpretation shall be submitted to them regularly.	No. OCL(CGU)/ENV/MoEFCC/12/2024-25/95 dated 09.11.2024
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.	No additional land was taken during expansion of Cement Grinding Unit (2400 TPD to 6500 TPD). Consent to Establish (CTE) and Consent to Operate (CTO) obtained from MPCB after getting EC from MoEF&CC.
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 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 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.

Annexure – 1

CEMS Real Time Data Transmission through G – Lense Software & Thermofisher Cloud Server to MPCB & CPCB:



For:
Orient Cement Limited
(Cement Grinding Unit)

ORIENT
CEMENT



Prepared By:
GO GREEN MECHANISMS PVT. LTD.



Six Monthly EC Compliance Report
of
Orient Cement Limited (Cement Grinding Unit)
S.No. 166, 162, 173 to 175, 736 to 744, 2495, 898/1 At
NH - 6 PO. Nashirabad, Tal & Dist: Jalgaon – 425309 (M.H.)
For Period: October 2024-March 2025

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ABBREVIATIONS

APHA	American Public Health Association
CPCB	Central Pollution Control Board
CGWB	Central Ground Water Authority Board
MoEFCC	Ministry of Environment & Forests, Climate, Change
MIDC	Maharashtra Industrial Development Corporation
MPCB	Maharashtra Pollution Control Board
EPA	Environmental Protection Agency
GGMPL	Go Green Mechanisms Pvt. Ltd.
NAAQS	National Ambient Air Quality Standards
NABL	National Accreditation Board for Testing and Calibration
OCL	Orient Cement Limited
RH	Relative Humidity
STP	Sewage Treatment Plant
Temp	Temperature
WS	Wind Speed

SECTION 1: INTRODUCTION

1.1 BACKGROUND

M/s. Orient Cement Limited (OCL) established 6500 TPD Cement Grinding Unit at Nashirabad in Jalgaon, Maharashtra in the Year of 1997.

The plant site is located at S.No. 166, 162, 173 to 175, 736 to 744, 2495, 898/1 At NH - 6 PO. Nashirabad, Tal & Dist: Jalgaon, Maharashtra. The Villages, Nashirabad and Jalgaon Khurd are around the plant. M/s. Orient Cement Limited (OCL) is certified for QMS ISO 9001:2015, EMS ISO 14001:2015, OHSMS 45001:2018, ISO 19011:2018 and ISO 50001:2018 and ISO 19011:2018. Orient Cement is one of the only two Indian cement companies to be awarded the prestigious TPM (Total Plant Maintenance) excellence award by the Japan Institute of Plant Maintenance. The company has also received numerous awards for green and safety practices including 'Green Pro Certification' by CII – Green Products and Services Council for its product Birla. A1 Premium Cement (PPC).

OCL has been granted Environmental Clearances from Ministry of Environment & Forest, Consent to Establish & Consent to Operate from Maharashtra Pollution Control Board for expansion of our Cement Grinding Unit (2,400 TPD to 6,500 TPD). As a part of the compliance of statutory requirements, environmental quality monitoring is being done regularly at locations suggested by Sub- Regional Officer, MPCB, Jalgaon on the basis of micrometeorological parameters. Also, three nos. of Continuous Ambient Air Quality Monitoring System have been established in three different locations inside the plant boundary as per wind rose and suggested by SRO, MPCB, Jalgaon. Also engaged third party (Go Green Mechanisms Private Limited, Nagpur) to carry out, environmental monitoring & analysis of the Cement Grinding Unit.

1.2 OBJECTIVE

This document present the Environmental Monitoring programme of Orient Cement Limited (OCL) established 6500 TPD Cement Grinding Unit at Nashirabad in Jalgaon, Maharashtra for October 2024 – March 2025. The monitoring is carried out monthly to understand the Ambient Air Quality, Stack, Water Analysis and Sound Level and it aimed to prevent possible negative impacts to the Environment

1.3 INFORMATION SOURCES

This report has been backed by the following listed documents.

Table 1: References

Document	Document Description	Reference For
Environmental Clearance letter	F.No. J-11011/898/2007-IA II (I) dated 3 rd March, 2008 and J-11011/898/2007-IA II (I) dated 30th December, 2013	Section 1

1.4 PROJECT TEAM

Contract Position	Contact	Designation
Client	Nagendra Dube	Head Environment
GGMPL Representative	Amit Badlani	Managing Director
Chemical Analysis	Bhagyashri Dhote & Team	Technical Manager

This report has been reviewed and verified by

For Go Green Mechanisms Pvt Ltd.

Rahul Rathod
BRANCH MANAGER

Disclaimer: This report has been produced by Go Green Mechanisms Pvt. Ltd with skill and care ordinarily exercised by us as Environmental Consultant, Environmental Monitoring and Testing Laboratory at the time the services were performed. The laboratory holds the necessary recognitions and testing accreditation certificates for majority of the work carried out. Further, and in particular, the Environmental Data Generation Services were performed by GGMPL taking into account the scope of works M/s. Orient Cement Limited (OCL), the time scale involved and the resources, including financial and manpower resources, agreed between GGMPL and M/s. Orient Cement Limited (OCL)

Other than that expressly contained in the paragraph above, GGMPL provides no other representation or warranty whether express or implied, in relation to the services.

This report is produced exclusively for the purpose of the EC Compliance of M/s. Orient Cement Limited (OCL)

Unless expressly provided in writing, GGMPL does not authorize, consent or condone any party other than M/s. Orient Cement Limited (OCL) & regulatory bodies to rely upon the services provided. Any reliance on the services or any part of the services by any party other than M/s. Orient Cement Limited (OCL) and the regulatory bodies is made wholly at that party's own and sole risk and GGMPL disclaims any liability to such parties.

1.4 LEGISLATIVE FRAMEWORK

Orient Cement Limited (OCL) shall strictly ensure the Environmental Compliance as per the requirements under the provisions of EIA Notification, 2006 subject to following conditions:-

(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/Nm³.

(ii) The Gaseous emissions (SPM, SO₂, NO_x, 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/Nm³. 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.

(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, SO₂ and NO_x 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.

(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.

(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 freshwater 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.

(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/ reprocessors 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.

(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.

(ix) All the recommendations mentioned in the Corporate Responsibility for Environmental Protection (CREP) shall be followed and complied.

Legislative framework is based on the clauses stated in Environmental Clearance letter no. F.No. J-11011/898/2007-IA II (I) issued by Ministry of Environment and Forests, Govt. of India. Apart from these regulatory frameworks- the various legislative implications have been presented in Table 2 as below:

Table 2: Overview of Major Environmental Acts Applicable**Overview of Major Environmental Acts Applicable**

Water Act 1974: The Water (Prevention and Control of Pollution) Act was enacted in 1974 to provide for the prevention and control of water pollution, and for the maintaining or restoring of wholesomeness of water in the country.

Air Act 1981: An Act to provide for the prevention, control and abatement of air pollution, for the establishment, with a view to carrying out the aforesaid purposes, of Boards, for conferring on and assigning to such Boards powers and functions relating thereto and for matters connected therewith.

Environment Protection Act, 1986: An Act to provide for the protection and improvement of environment and for matters connected there with.

The Public Liability Insurance Act, 1991: An Act to provide for public liability insurance for the purpose of providing immediate relief to the persons affected by accident

1.5 SITE DESCRIPTION

The plant site is located at S.No. 166, 162, 173 to 175, 736 to 744, 2495, 898/1 At NH – 6 PO. Nashirabad, Tal & Dist: Jalgaon, Maharashtra. The Villages, Nashirabad and Jalgaon Khurd are around the plant.

1.6 ENVIRONMENTAL MONITORING PLAN

We shall carry out the Monitoring as per following plan:

Table 3: Environmental Monitoring Plan

Sr. No.	Description	Quantity
1.	Stack Emission Monitoring	36
2.	Ambient air Quality monitoring	36
2.	Domestic effluent Water Analysis	36
3.	Drinking Water Analysis	12
4.	Ground Water Analysis	12
5.	Noise Level Monitoring	96
6.	DG Stack Monitoring	03

1.7 SCOPE OF ENVIRONMENTAL MONITORING

The scope of Annual Environmental Monitoring Parameters to be monitored is as follows:

Stack Emission Monitoring	
Sr. No.	Particulars
1.	Particulate Matter (PM)

Ambient Air Sampling & Analysis	
Sr. No.	Particulars
1.	Particulate Matter (PM ₁₀)
2.	Particulate Matter (PM _{2.5})
3.	Nitrogen Dioxide (NO ₂)
4.	Sulphur dioxide (SO ₂)
5.	Wind Speed
6.	Temperature
7.	Relative Humidity

Domestic Effluent Water Sampling & Analysis	
Sr. No.	Particulars
1	pH @ 25°C
2	Total Suspended Solids (TSS)
3	Chemicals Oxygen Demand (COD)
4	BOD at 27°C for 3 day
5	Oil and Grease

Drinking Water Sampling & Analysis	
Sr. No.	Particulars
1	Odour
2	Colour
3	pH @ 25°C
4	Total Dissolved Solids @ 180°C
5	Total Hardness as CaCo ₃
6	Calcium as Ca
7	Magnesium as Mg
8	Fluoride
9	Chloride
10	Sulphate
11	Nitrate
12	Alkalinity
13	Iron
14	Boron
15	Lead
16	E-Coli

SIX MONTHLY EC COMPLIANCE REPORT

Ground Water Sampling & Analysis

Sr. No.	Particulars
1	Odour
2	Colour
3	pH @ 25°C
4	Total Dissolved Solids @ 180°C
5	Total Hardness as CaCo3
6	Calcium as Ca
7	Magnesium as Mg
8	Fluoride
9	Chloride
10	Sulphate
11	Nitrate
12	Alkalinity
13	Iron
14	Boron
15	Lead
16	E-Coli

DG Set Stack Emission Monitoring

Sr. No.	Particulars
1	Temperature
2	Velocity
3	PM
4	SO2
5	NOx

SECTION 2: STACK EMISSION MONITORING**2.1 GENERAL SAMPLING STRATEGY**

Stack emission were analysed with the help of Stack Kit (ECOTECH Stack Kit & Prob set), on monthly basis at 03 Stack situated in plant. The values of PM obtained were then compared with the standards prescribed by MPCB.

Iso-kinetic stack monitoring was conducted as per standard method IS 11255 specified in Emission Regulation Act Part to determine PM.

2.2 Analysis Results

Report 1: Monthly Stack Analysis Report for the period of Oct 2024 – Mar 2025

Location		Cement Mill – 01	Cement Mill - 02	Wagon Tippler
Sr. No.	Month	PM (mg/Nm ³)	PM (mg/Nm ³)	PM (mg/Nm ³)
1.	Oct-24	-	22.46	-
2.	Nov-24	-	24.61	-
3.	Dec-24	-	26.62	-
4.	Jan-25	-	27.89	-
5.	Feb-25	20.04	23.03	-
6.	Mar-25	-	22.24	-
Statutory Limits		30 mg/Nm ³	30 mg/Nm ³	30 mg/Nm ³

SECTION 3: AMBIENT AIR SAMPLING & ANALYSIS

3.1 GENERAL SAMPLING STRATEGY

IS 5182 Part (2, 6 & 23), CPCB guidelines, GGMPL SOP and EPA Method for the sampling and analysis of the target analytes.

Ambient Air samples were analyzed for SO₂ concentration levels by using Improved West- Gaeke method using spectrophotometer (HACH DR 5000) at a wavelength of 560 nm. NO₂ conc. levels were estimated using Jacob and Hocheiser modified (Na-As) method using spectrophotometer (HACH DR 5000) at a wavelength of 540 nm.

Meteorological data was collected by WMS on hourly basis for wind speed, temperature and relative humidity for 8 hrs and Average data was reported in the Environmental report.

3.2 Analysis Results

Report 2: Monthly Ambient Air Analysis (PM₁₀ & PM_{2.5}) Report for the period of Oct 2024–Mar 2025

Location		(Near Wagon Tippler)		(Near Substation)		(Near Bhadali Gate)	
Sr. No.	Month	PM 10	PM 2.5	PM 10	PM 2.5	PM 10	PM 2.5
1.	Oct-24	56.15	26.24	60.70	31.24	57.98	37.49
2.	Nov-24	58.72	31.24	60.75	37.49	60.96	36.24
3.	Dec-24	59.72	38.74	58.29	34.99	63.85	33.74
4.	Jan-25	53.05	32.49	62.60	36.24	60.08	31.24
5.	Feb-25	61.06	34.99	61.15	38.74	55.43	31.24
6.	Mar-25	61.89	33.74	67.91	34.99	63.88	38.74
Statutory Limits		100	60	100	60	100	60

* All Value in $\mu\text{g}/\text{m}^3$

Report 3: Monthly Ambient Air Analysis (NO₂ & SO₂) Report for the period of Oct 2024 – Mar 2025

Location		(Near Wagon Tippler)		(Near Substation)		(Near Bhadali Gate)	
Sr. No.	Month	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂	SO ₂
1.	Oct-24	24.14	12.81	24.47	11.38	22.28	11.74
2.	Nov-24	27.23	13.87	31.83	15.65	23.11	12.20
3.	Dec-24	29.71	13.28	26.00	14.64	19.81	12.81
4.	Jan-25	26.86	10.43	21.41	12.33	26.96	13.06
5.	Feb-25	23.78	11.74	22.20	12.33	28.54	13.87
6.	Mar-25	30.22	14.94	25.37	15.06	26.76	13.87
Statutory Limits		80	80	80	80	80	80

* All Value in $\mu\text{g}/\text{m}^3$

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Report 4: Monthly Meteorological Data Monitored for the period of Oct 2024 – Mar 2025

Location		(Near Wagon Tippler)			(Near Substation)			(Near Bhadali Gate)		
Sr. No.	Month	WS (Km/Hrs)	Temp °C	RH %	WS (Km/Hrs)	Temp °C	RH %	WS (Km/Hrs)	Temp °C	RH %
1.	Oct-24	2.90	29	59	2.90	30	61	2.90	28	58
2.	Nov-24	9	29	69	9	28	69	7	27	68
3.	Dec-24	8.24	32	62	6.18	30	65	5.64	29	64
4.	Jan-25	1.11	30	56	1.39	29	53	0.83	30	59
5.	Feb-25	3	29	44	3	29	44	3	29	44
6.	Mar-25	3.61	32	41	3.61	32	41	3.61	32	41

SECTION 4: WATER SAMPLING & ANALYSIS

4.1 GENERAL SAMPLING STRATEGY

Water samples were collected at various locations of the plant to assess the Physico-Chemical quality of Domestic effluent water, Ground water and Drinking water. Samples were collected as per the standard procedures. Samples were collected by taking suitable precautions for preparation and transportation.

4.2 DOMESTIC EFFLUENT WATER SAMPLING & ANALYSIS

Wastewater samples were collected monthly from STP Outlet (Admin Building) and STP Outlet (Packing Plant). Analytical methods mentioned in IS 3025 and Standard Methods published by APHA were followed. The summary of waste water quality collected on monthly basis for the period of Oct 2024 – Mar 2025 are given in Report 5 (a & b).

Report 5(a): Monthly Domestic Effluent Water Analysis Report for the period of Oct 2024 – Mar 2025

SAMPLE LOCATION	STP Outlet-1 (Admin Building)	SAMPLING METHOD	APHA 24 th Edn 1060
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Sr. No.	Parameters	Unit	Test Method	Results					
				Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
1	pH @ 25°C	-	IS 3025-Part 11	7.34	7.49	7.42	7.32	7.58	7.56
2	Total Suspended Solids (TSS)	mg/L	APHA 23 rd Edn 2540 D	24	18	30	26.0	18	22
3	Chemicals Oxygen Demand (COD)	mg/L	APHA 23 rd Edn 5220B	76	64	56	45.8	72.9	49.58
4	BOD at 27°C for 3 day	mg/L	IS 3025-Part 44	22	21	18	16.00	19	14
5	Oil and Grease	mg/L	IS 3025-Part 39	BQL (QL=2)	BQL (QL=2)	BQL (QL=2)	BQL (QL=2)	BQL (QL=2)	BQL (QL=2)

SIX MONTHLY EC COMPLIANCE REPORT

Report 5(b): Monthly Domestic Effluent Water Analysis Report for the period of Oct 2024 – Mar 2025

SAMPLE LOCATION		STP Outlet-2 (Packing Plant)		SAMPLING METHOD		APHA 24 th Edn 1060			
SR. NO.	Parameters	Unit	Test Method	Results					
				Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
1	pH @ 25°C	-	IS 3025- Part 11	7.26	7.57	7.22	7.28	7.42	7.78
2	Total Suspended Solids (TSS)	mg/L	APHA 23 rd Edn 2540 D	32	38	28	32.0	16.00	40
3	Chemicals Oxygen Demand (COD)	mg/L	APHA 23 rd Edn 5220B	40	48	44	50.0	52.6	57.8
4	BOD at 27°C for 3 day	mg/L	IS 3025- Part 44	12.50	13	14.50	19.00	16.00	20.50
5	Oil and Grease	mg/L	IS 3025- Part 39	BQL (QL=2)	BQL (QL=2)	BQL (QL=2)	BQL (QL=2)	BQL (QL=2)	BQL (QL=2)

4.3 DRINKING WATER SAMPLING & ANALYSIS

Drinking water samples were collected monthly from Admin Building or Near Canteen. Analytical methods mentioned in IS: 3025 and Standard Methods published by APHA were followed. The summary of Drinking Water quality collected on monthly basis for the period of Oct 2024 – Mar 2025 are given in Report 6.

Report 6: Monthly Drinking Water Analysis Report for the period of Oct 2024– Mar 2025

SAMPLE LOCATION			Drinking Water (Admin Building or Near Canteen)		SAMPLING METHOD		APHA 24 th Edn 1060		
Sr. No.	Parameter	Unit	Test Method	Results					
				Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
1	pH @ 25°C	-	IS 3025-Part 11	7.15	7.02	7.20	6.73	6.94	7.47
2	Alkalinity as CaCO3	mg /L	IS 3025-Part 23	50	35.35	65	80.00	65.00	110
3	Boron as B	mg /L	APHA 23rd Edn 4500B B	BQL (QL=0.05)	BQL (QL=0.05)	BQL (QL=0.05)	BQL(QL= 0.05)	BQL(QL=0 .05)	BQL (QL=0.05)

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4	Calcium as Ca	mg /L	APHA 23rd Edn 3500 Ca B	21.76	17.64	24.05	25.65	15.48	36.07
5	Chloride	mg /L	IS 3025 -Part 32	19.99	18.99	18.49	20.49	40.49	28.49
6	Colour	Hz	IS 3025 Part-4	1	1.00	1	1.00	1.00	1
7	Fluoride (F)	mg /L	APHA 23rd Edn 4500 F D	0.21	0.17	0.33	0.465	BQL(QL=0.1)	0.445
8	Magnesium as Mg	mg /L	APHA 23rd Edn 3500 Mg B	12.1	12.20	13.6	16.04	8.40	23.33
9	Iron as Fe	mg /L	APHA 23rd Edn 3500 Fe B	0.24	0.23	0.19	0.27	0.27	0.288
10	Odour	-	IS 3025 Part-5	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	
11	Sulphate	mg /L	APHA 23rd Edn 4500 SO4 E	26.32	23.12	31.12	34.8	8.15	34.8
12	Total Dissolved Solids	mg /L	APHA 23rd Edn 2540 C	122	116	130	190	138	228
13	Total Hardness as CaCO3	mg /L	APHA 23rd Edn 2340 C	104.26	94	116	130	73.17	186
14	Lead as Pb	mg /L	APHA 23rd Edn 3120 B	BQL (QL=0.005)	BQL (QL=0.005)	BQL (QL=0.005)	BQL (QL=0.005)	BQL (QL=0.005)	BQL (QL=0.005)
15	Nitrate	mg /L	APHA 23rd Edn 4500 NO3 B	0.96	0.71	1.08	1.21	0.62	1.13
16	E.Coli	(MP N/100 ml)	IS 1622	Absent	Absent	Absent	Absent	Absent	Absent

4.4 GROUND WATER SAMPLING & ANALYSIS

Ground water samples were collected monthly from Borewell No. 1 & Borewell No. 2. Analytical methods mentioned in IS: 3025 and Standard Methods published by APHA were followed. The summary of Ground Water quality collected on monthly basis for the period of Oct 2024 – Mar 2025 are given in Report 7 (a).

Report 7a: Summary of Ground Water Analysis Report for the period of Oct 2024 – Mar 2025

	SAMPLE LOCATION		Ground Water of Borewell No. 1		SAMPLING METHOD		APHA 24 th Edn 1060		
SR. NO.	PARAMETERS	UNIT	TEST METHOD	RESULTS					
				Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
1	pH @ 25°C	-	IS 3025-Part 11	7.56	7.24	7.42	7.28	7.44	7.95
2	Alkalinity as CaCO3	mg/L	IS 3025-Part 23	480	449.45	465	450.00	515	495
3	Boron as B	mg/L	APHA 23rd Edn 4500B B	1.59	1.45	1.93	2.47	2.14	2.79
4	Calcium as Ca	mg/L	APHA 23rd Edn 3500 Ca B	168.01	134.67	147.49	131.46	142.55	172.34
5	Chloride	mg/L	IS 3025 - Part 32	253.47	233.19	238.26	249.92	349.89	293.91
6	Colour	Hz	IS 3025 Part-4	1	1	1	1.00	1.00	1.00
7	Fluoride (F)	mg/L	APHA 23rd Edn 4500 F D	1.22	1.17	1.11	1.04	0.40	1.20
8	Magnesium as Mg	mg/L	APHA 23rd Edn 3500 Mg B	100.3	88	85.5	88.63	70.27	89.12
9	Iron as Fe	mg/l	APHA 23rd Edn 3500 Fe B	2.53	2.39	2.54	2.05	1.41	2.16
10	Odour	-	IS 3025 Part-5	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
11	Sulphate	mg/L	APHA 23rd Edn 4500 SO4 E	101.44	99.04	115.04	112.0	143.5	125.86
12	Total Dissolved Solids	mg/L	APHA 23rd Edn 2540 C	1084	998	1020	1008	1206	1120
13	Total Hardness as CaCO3	mg/L	APHA 23rd Edn 2340 C	831.88	698	720	692.00	644.27	796

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14	Lead as Pb	mg/L	APHA 23rd Edn 3120 B	BQL (QL=0.005)	BQL (QL=0.005)	BQL (QL=0.005)	BQL (QL=0.005)	BQL (QL=0.005)	BQL (QL=0.005)
15	Nitrate	mg/L	APHA 23rd Edn 4500 NO3 B	7.01	6.71	6.64	6.04	4.19	7.58
16	E.Coli	(MPN/100ml)	IS 1622	Absent	Absent	Absent	Absent	Absent	Absent

SECTION 5: NOISE LEVEL MONITORING

5.1 GENERAL SAMPLING STRATEGY

Noise is defined as unwanted sound that creates interferences in speech, communication, causes annoyance, disturbance in work concentration and sleep, thus deteriorating the quality of Noise environment. In order to have an idea about the existing ambient noise level of the study area, noise monitoring has been carried out at three locations. Noise Level measurements were made with a sound level meter as specified in IS: 9779-1981. At each noise monitoring stations, noise level has been recorded at 4 minute intervals and then the hourly equivalents have been calculated.

5.2 MONITORING RESULT

Report 8: Monthly Noise Level Monitored for the period of Oct 2024 – Mar 2025

Location		(Near Wagon Tippler)		(Near Substation)		(Near Bhadali Gate)	
Sr. No.	Month	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
1.	Oct-24	69.4	60.4	65.5	60.4	65.3	58.1
2.	Nov-24	67.0	57.2	66.2	53.2	62.7	55.4
3.	Dec-24	67.3	51.2	65.7	56.4	68.6	54.8
4.	Jan-25	67.8	59.6	65.1	58.6	68.0	55.9
5.	Feb-25	66.2	57.2	67.8	60.1	65.1	54.3
6.	Mar-25	64.0	56.7	65.8	56.3	67.4	55.1
Statutory Limit		75.0	70.0	75.0	70.0	75.0	70.0

* Noise Level in dB (A) Leq

SECTION 6 CONCLUSION

6.1 Stack Emission

With respect to Report 1 Stack Emission Monitoring was performed at 3 locations viz. At Cement Mill 01, Cement Mill 02 & Wagon Tippler the results of the parameters analyzed were within the permissible limits as per the MPCB.

6.2 Air Environment

With respect to Report 2, Report 3 and Report 4 Ambient Air Quality was performed at 3 locations viz. Nr. Wagon Tippler, Nr. Sub-station and Nr. Bhadali Gate Area the results of the parameters analyzed were within the permissible limits as per the National Ambient Air Quality Monitoring Standards.

6.3 Water Environment

With respect to Report 5, Report 6 and Report 7 water samples were taken from 5 locations viz. Domestic Effluent of STP Outlet (Admin Building) and STP Outlet (Packing Plant), Drinking water of Admin Building/Canteen and Ground water of Borewell No. 1 respectively. The Drinking water parameters analyzed were within the permissible limits as per IS: 10500.

6.4 Noise Environment

With respect to Report 8 Ambient Noise Monitoring was performed at 3 locations viz. Nr. Wagon Tippler, Nr. Sub-station and Nr. Bhadali Gate Area. The noise levels were found within the permissible limits as per the CPCB guidelines.

Summarized Conclusion: Based on the environmental sampling and monitoring conducted at the site with respect to stack, air, water and noise, parameters tested and analyzed were found considerably within the permissible limits with the respective standards governed for each matrix.

COMPANY PROFILE

Go Green Mechanisms Pvt. Ltd. (GGMPL) provides a comprehensive range of monitoring, consultancy and training services for clients whose activities impact upon natural systems or has the potential to pollute the environment. The company comprises of a group of dynamic and well experienced chemical engineers, environmental engineers and a wide variety of staff from other fields to form a qualitative work force.

We are Environmental Consultants and Engineers with a fully functional state of the art laboratory based in Ahmedabad.

Go Green Mechanisms Pvt. Ltd. Is registered with the **Gujarat Pollution Control Board (GPCB)** under the Environmental Audit Scheme – Schedule II and **Maharashtra Pollution Control Board (MPCB)**.

Our laboratory is recognized by **MoEF** (Ministry of Environment and Forests) as an Environmental Laboratory. It is certified under **ISO 9001:2015** and **ISO 45001:2018**. The laboratory is also accredited by **NABL under ISO/IEC 17025:2017**.

We provide a comprehensive range of environmental services for a broad range of clients in both private and the public sectors. The services include:

- Ambient Air Quality Monitoring
- Stack Monitoring
- Indoor Air Quality Monitoring
- Meteorological Monitoring
- Workplace Monitoring (Form No. 37)
- Water & Waste Water Sampling and Analysis
- Solid Waste Management
- Noise Monitoring
- Environmental Consultancy
- Environmental Audits
- Environmental Maintenance Contracts
- Environmental Clearances/EIA
- NOCS/CCAS/Consents
- Enviro-Legal Services
- Post EC Monitoring
- Feasibility study
- Water Audits
- Energy Audits
- Training, Events and Internship Programs
- Environmental Monitoring Plan (EMP)

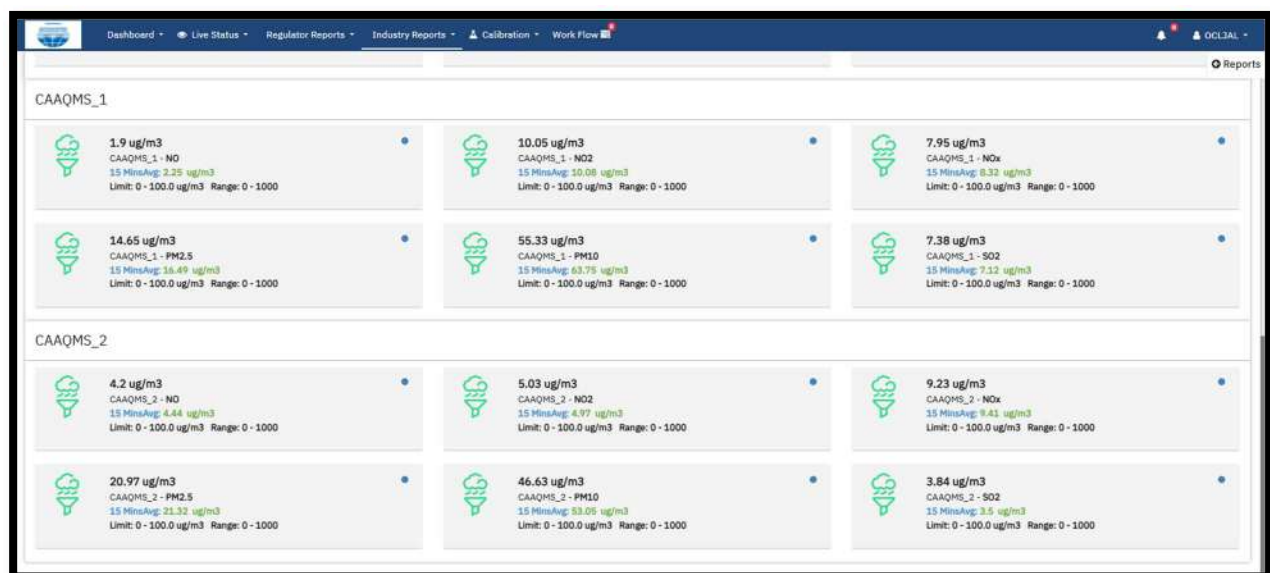
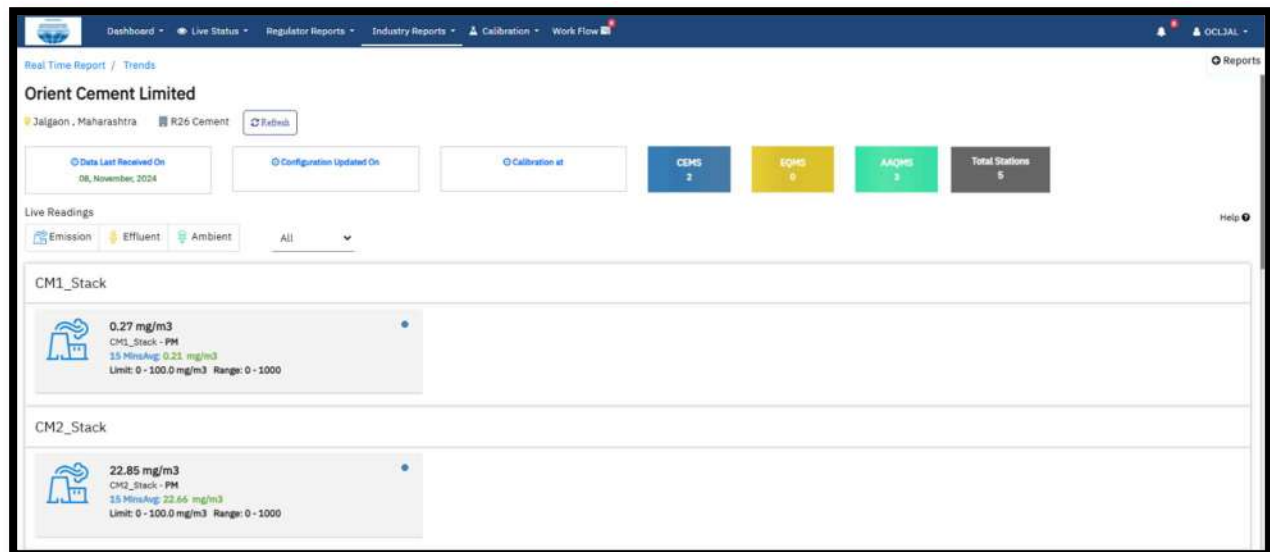
The main philosophy of the company is to provide excellent technical services taking into account the real needs of the customer at a cost-effective price. In short, we are a turnkey environmental consulting company specializing in all Environmental sectors. With a strong work force and experience, ongoing training programs, up-to-date information, state of the art equipment, we intend to provide safe, innovative and cost-effective solutions to any Environmental problem – big or small.

Contact us:

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Annexure -02

CAAQMS Real Time Data Transmission through G - Lense Software to MPCB:



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TEST REPORT

Report Number : GGMPL/NGP153D/06

Reporting Date: 04.11.2024

M/s ORIENT CEMENT LIMITED

CLINKER GRINDING UNIT S.No.166, 162, 173 to 175, 736 to 744, 2495, 898/1.,
At NH 6, PO. Nashirabad. Tal & Dist-Jalgaon



TC-11665

SAMPLE DETAILS

Lab ID	: Lab/NGP153D/06	Sampling Start Date	: 24.10.2024
Sample Drawn By	: Laboratory Representative	Sampling End Date	: 24.10.2024
Sample Type	: Ambient Air	Sample Receipt Date	: 25.10.2024
Sample Description	: Near Substation	Analysis Start-End Date	: 26.10.2024 to 28.10.2024
Env. Cond.-Sampling	: Ambient Temperature	Total Sampling hours	: 8
Env. Cond. -Sample Receipt	: Satisfactory	Env. Cond. -Testing	: 25±5°C

Sr. No.	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM 10)	60.70	µg/m ³	IS 5182 (Part 23)	100
2	Particulate Matter (PM 2.5)	31.24	µg/m ³	CPCB Guideline Vol-1	60
3	Sulphur Dioxide (SO ₂)	11.38	µg/m ³	IS 5182 (Part 2)	80
4	Oxides of Nitrogen	24.47	µg/m ³	IS 5182 (Part 6)	80
5	Wind Speed	2.90	m/s	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS
6	Temperature	30.00	°C	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS
7	Relative Humidity	61.0	%	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS

NS= Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

Analyzed By

Vasundhara Markar



Authorized Signatory

Deepa Chavhan

-----End of Report-----

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TEST REPORT

Report Number : GGMPL/NGP153D/07

Reporting Date: 04.11.2024

M/s ORIENT CEMENT LIMITED

CLINKER GRINDING UNIT S.No.166, 162, 173 to 175, 736 to 744, 2495, 898/1.,
At NH 6, PO. Nashirabad. Tal & Dist-Jalgaon



TC-11665

SAMPLE DETAILS

Lab ID	: Lab/NGP153D/07	Sampling Start Date	: 24.10.2024
Sample Drawn By	: Laboratory Representative	Sampling End Date	: 24.10.2024
Sample Type	: Ambient Air	Sample Receipt Date	: 25.10.2024
Sample Description	: Near Wagon Tippler	Analysis Start-End Date	: 26.10.2024 to 28.10.2024
Env. Cond.-Sampling	: Ambient Temperature	Total Sampling hours	: 8
Env. Cond. -Sample Receipt	: Satisfactory	Env. Cond. -Testing	: 25±5°C

Sr. No.	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM 10)	56.15	µg/m ³	IS 5182 (Part 23)	100
2	Particulate Matter (PM 2.5)	26.24	µg/m ³	CPCB Guideline Vol-1	60
3	Sulphur Dioxide (SO ₂)	12.81	µg/m ³	IS 5182 (Part 2)	80
4	Oxides of Nitrogen	24.14	µg/m ³	IS 5182 (Part 6)	80
5	Wind Speed	2.90	m/s	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS
6	Temperature	29.00	°C	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS
7	Relative Humidity	59.0	%	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS

NS= Not Specified, BQL=Below Quantification Limit, QI.= Quantification Limit

Analyzed By

Vasundhara Mankar



Authorized Signatory

Deepa Chavhan

-----End of Report-----

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TEST REPORT

Report Number : GGMPL/NGP178D/05

Reporting Date: 30.11.2024

M/s ORIENT CEMENT LIMITED

CLINKER GRINDING UNIT S.No.166, 162, 173 to 175, 736 to 744, 2495, 898/1.,
At NH 6, PO. Nashirabad. Tal & Dist-Jalgaon




SAMPLE DETAILS

Lab ID	: Lab/NGP178D/05	Sampling Start Date	: 22.11.2024
Sample Drawn By	: Laboratory Representative	Sampling End Date	: 22.11.2024
Sample Type	: Ambient Air	Sample Receipt Date	: 23.11.2024
Sample Description	: Near Bhadali Gate	Analysis Start-End Date	: 25.11.2024 to 27.11.2024
Env. Cond.-Sampling	: Ambient Temperature	Total Sampling hours	: 8
Env. Cond. -Sample Receipt	: Satisfactory	Env. Cond. -Testing	: 25±5°C

Sr. No.	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM 10)	60.96	µg/m ³	IS 5182 (Part 23)	100
2	Particulate Matter (PM 2.5)	36.24	µg/m ³	CPCB Guideline Vol-1	60
3	Sulphur Dioxide (SO ₂)	12.20	µg/m ³	IS 5182 (Part 2)	80
4	Oxides of Nitrogen	23.11	µg/m ³	IS 5182 (Part 6)	80
5	Wind Speed	7.00	m/s	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS
6	Temperature	27.00	°C	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS
7	Relative Humidity	68.0	%	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS

NS= Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Divya Kale




Authorized Signatory
Deepa Chavhan

-----End of Report-----

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TEST REPORT

Report Number : GGMPL/NGP178D/07

Reporting Date: 30.11.2024

M/s ORIENT CEMENT LIMITED

CLINKER GRINDING UNIT S.No.166, 162, 173 to 175, 736 to 744, 2495, 898/1.,
At NH 6, PO. Nashirabad. Tal & Dist-Jalgaon



TC-11665

SAMPLE DETAILS

Lab ID	: Lab/NGP178D/07	Sampling Start Date	: 22.11.2024
Sample Drawn By	: Laboratory Representative	Sampling End Date	: 22.11.2024
Sample Type	: Ambient Air	Sample Receipt Date	: 23.11.2024
Sample Description	: Near Wagon Tippler	Analysis Start-End Date	: 25.11.2024 to 27.11.2024
Env. Cond.-Sampling	: Ambient Temperature	Total Sampling hours	: 8
Env. Cond. -Sample Receipt	: Satisfactory	Env. Cond. -Testing	: 25±5°C

Sr. No.	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM 10)	58.72	µg/m ³	IS 5182 (Part 23)	100
2	Particulate Matter (PM 2.5)	31.24	µg/m ³	CPCB Guideline Vol-1	60
3	Sulphur Dioxide (SO ₂)	13.87	µg/m ³	IS 5182 (Part 2)	80
4	Oxides of Nitrogen	27.23	µg/m ³	IS 5182 (Part 6)	80
5	Wind Speed	9.00	m/s	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS
6	Temperature	29.00	°C	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS
7	Relative Humidity	69.0	%	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS

NS= Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



Analyzed By
Divya Kale



-----End of Report-----



Authorized Signatory
Deepa Chavhan

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TEST REPORT

Report Number : GGMPL/NGP222D/07

M/s ORIENT CEMENT LIMITED

CLINKER GRINDING UNIT S.No.166, 162, 173 to 175, 736 to 744, 2495, 898/1.,
At NH 6, PO. Nashirabad. Tal & Dist-Jalgaon

Reporting Date: 02.01.2025



TC-11665

SAMPLE DETAILS

Lab ID	: Lab/NGP222D/07	Sampling Start Date	: 24.12.2024
Sample Drawn By	: Laboratory Representative	Sampling End Date	: 24.12.2024
Sample Type	: Ambient Air	Sample Receipt Date	: 26.12.2024
Sample Description	: Near Wagon Tippler	Analysis Start-End Date	: 26.12.2024 to 28.12.2024
Env. Cond.-Sampling	: Ambient Temperature	Total Sampling hours	: 8
Env. Cond. -Sample Receipt	: Satisfactory	Env. Cond. -Testing	: 25±5°C

Sr. No.	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM 10)	59.72	µg/m ³	IS 5182 (Part 23)	100
2	Particulate Matter (PM 2.5)	38.74	µg/m ³	CPCB Guideline Vol-1	60
3	Sulphur Dioxide (SO ₂)	13.28	µg/m ³	IS 5182 (Part 2)	80
4	Oxides of Nitrogen	29.71	µg/m ³	IS 5182 (Part 6)	80
5	Wind Speed	8.24	m/s	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS
6	Temperature	32.00	°C	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS
7	Relative Humidity	62.0	%	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS

NS= Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

Analyzed By

Divya Kale



-----End of Report-----

Authorized Signatory

Deepa Chavhan

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TEST REPORT

Report Number : GGMPL/NGP239D/05

Reporting Date: 29.01.2025

M/s ORIENT CEMENT LIMITED

CLINKER GRINDING UNIT S.No.166, 162, 173 to 175, 736 to 744, 2495, 898/1.,
At NH 6, PO. Nashirabad. Tal & Dist-Jalgaon



SAMPLE DETAILS

Lab ID	: Lab/NGP239D/05	Sampling Start Date	: 21.01.2025
Sample Drawn By	: Laboratory Representative	Sampling End Date	: 21.01.2025
Sample Type	: Ambient Air	Sample Receipt Date	: 22.01.2025
Sample Description	: Near Bhadali Gate	Analysis Start-End Date	: 22.01.2025 TO 25.01.2025
Env. Cond.-Sampling	: Ambient Temperature	Total Sampling hours	: 8
Env. Cond. -Sample Receipt	: Satisfactory	Env. Cond. -Testing	: 25±5°C

Sr. No.	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM 10)	60.08	µg/m ³	IS 5182 (Part 23)	100
2	Particulate Matter (PM 2.5)	31.24	µg/m ³	CPCB Guideline Vol-1	60
3	Sulphur Dioxide (SO ₂)	13.06	µg/m ³	IS 5182 (Part 2)	80
4	Oxides of Nitrogen	26.96	µg/m ³	IS 5182 (Part 6)	80
5	Wind Speed	0.83	m/s	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS
6	Temperature	30.00	°C	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS
7	Relative Humidity	59.0	%	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS

NS= Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

Analyzed By
Vasundhara Mankar



Authorized Signatory
Bhagyashri Dhote

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TEST REPORT

Report Number :GGMPL/NGP239D/06

Reporting Date: 29.01.2025

M/s ORIENT CEMENT LIMITED

CLINKER GRINDING UNIT S.No.166, 162, 173 to 175, 736 to 744, 2495, 898/1.,
At NH 6, PO. Nashirabad. Tal & Dist-Jalgaon



SAMPLE DETAILS

Lab ID	: Lab/NGP239D/06	Sampling Start Date	: 21.01.2025
Sample Drawn By	: Laboratory Representative	Sampling End Date	: 21.01.2025
Sample Type	: Ambient Air	Sample Receipt Date	: 22.01.2025
Sample Description	: Near Substation	Analysis Start-End Date	: 22.01.2025 TO 25.01.2025
Env. Cond.-Sampling	: Ambient Temperature	Total Sampling hours	: 8
Env. Cond. -Sample Receipt	: Satisfactory	Env. Cond. -Testing	: 25±5°C

Sr. No.	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM 10)	62.60	µg/m ³	IS 5182 (Part 23)	100
2	Particulate Matter (PM 2.5)	36.24	µg/m ³	CPCB Guideline Vol-1	60
3	Sulphur Dioxide (SO ₂)	12.33	µg/m ³	IS 5182 (Part 2)	80
4	Oxides of Nitrogen	21.41	µg/m ³	IS 5182 (Part 6)	80
5	Wind Speed	1.39	m/s	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS
6	Temperature	29.00	°C	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS
7	Relative Humidity	53.0	%	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS

NS= Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

Analyzed By

Vasundhara Mankar



Authorized Signatory

Bhagyashri Dhote

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TEST REPORT

Report Number : GGMPL/NGP239D/07

Reporting Date: 29.01.2025

M/s ORIENT CEMENT LIMITED

CLINKER GRINDING UNIT S.No.166, 162, 173 to 175, 736 to 744, 2495, 898/1.,
At NH 6, PO. Nashirabad. Tal & Dist-Jalgaon



TC-11865

SAMPLE DETAILS

Lab ID	: Lab/NGP239D/07	Sampling Start Date	: 21.01.2025
Sample Drawn By	: Laboratory Representative	Sampling End Date	: 21.01.2025
Sample Type	: Ambient Air	Sample Receipt Date	: 22.01.2025
Sample Description	: Near Wagon Tippler	Analysis Start-End Date	: 22.01.2025 TO 25.01.2025
Env. Cond.-Sampling	: Ambient Temperature	Total Sampling hours	: 8
Env. Cond. -Sample Receipt	: Satisfactory	Env. Cond. -Testing	: 25±5°C

Sr. No.	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM 10)	53.05	µg/m ³	IS 5182 (Part 23)	100
2	Particulate Matter (PM 2.5)	32.49	µg/m ³	CPCB Guideline Vol-1	60
3	Sulphur Dioxide (SO ₂)	10.43	µg/m ³	IS 5182 (Part 2)	80
4	Oxides of Nitrogen	26.86	µg/m ³	IS 5182 (Part 6)	80
5	Wind Speed	1.11	m/s	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS
6	Temperature	30.00	°C	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS
7	Relative Humidity	56.0	%	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS

NS= Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



Analyzed By

Vasundhara Mankar




Authorized Signatory

Bhagyashri Dhote

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TEST REPORT

Report Number : GGMPL/NGP270D/05

Reporting Date: 04.03.2025

M/s ORIENT CEMENT LIMITED

CLINKER GRINDING UNIT S.No.166, 162, 173 to 175, 736 to 744, 2495, 898/1.,
At NH 6, PO. Nashirabad. Tal & Dist-Jalgaon



SAMPLE DETAILS

Lab ID	: Lab/NGP270D/05	Sampling Start Date	: 21.02.2025
Sample Drawn By	: Laboratory Representative	Sampling End Date	: 22.02.2025
Sample Type	: Ambient Air	Sample Receipt Date	: 22.02.2025
Sample Description	: Near Bhadali Gate	Analysis Start-End Date	: 24.02.2025 TO 26.02.2025
Env. Cond.-Sampling	: Ambient Temperature	Total Sampling hours	: 8
Env. Cond. -Sample Receipt	: Satisfactory	Env. Cond. -Testing	: 25±5°C

Sr. No.	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM 10)	55.43	µg/m ³	IS 5182 (Part 23)	100
2	Particulate Matter (PM 2.5)	31.24	µg/m ³	CPCB Guideline Vol-1	60
3	Sulphur Dioxide (SO ₂)	13.87	µg/m ³	IS 5182 (Part 2)	80
4	Oxides of Nitrogen	28.54	µg/m ³	IS 5182 (Part 6)	80
5	Wind Speed	3.00	m/s	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS
6	Temperature	29.00	°C	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS
7	Relative Humidity	44.0	%	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS

NS= Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



Analyzed By
Divya Kale




Authorized Signatory
Deepa Chavhan

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TEST REPORT

Report Number : GGMPL/NGP270D/06

Reporting Date: 04.03.2025

M/s ORIENT CEMENT LIMITED

CLINKER GRINDING UNIT S.No.166, 162, 173 to 175, 736 to 744, 2495, 898/1.,
At NH 6, PO. Nashirabad. Tal & Dist-Jalgaon




TC-11665

SAMPLE DETAILS

Lab ID	: Lab/NGP270D/06	Sampling Start Date	: 21.02.2025
Sample Drawn By	: Laboratory Representative	Sampling End Date	: 22.02.2025
Sample Type	: Ambient Air	Sample Receipt Date	: 22.02.2025
Sample Description	: Near Substation	Analysis Start-End Date	: 24.02.2025 TO 26.02.2025
Env. Cond.-Sampling	: Ambient Temperature	Total Sampling hours	: 8
Env. Cond. -Sample Receipt	: Satisfactory	Env. Cond. -Testing	: 25±5°C

Sr. No.	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM 10)	61.15	µg/m ³	IS 5182 (Part 23)	100
2	Particulate Matter (PM 2.5)	38.74	µg/m ³	CPCB Guideline Vol-1	60
3	Sulphur Dioxide (SO ₂)	12.33	µg/m ³	IS 5182 (Part 2)	80
4	Oxides of Nitrogen	22.20	µg/m ³	IS 5182 (Part 6)	80
5	Wind Speed	3.00	m/s	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS
6	Temperature	29.00	°C	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS
7	Relative Humidity	44.0	%	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS

NS= Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Divya Kale




Authorized Signatory
Deepa Chavhan

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TEST REPORT

Report Number : GGMPL/NGP270D/07

Reporting Date: 04.03.2025

M/s ORIENT CEMENT LIMITED

CLINKER GRINDING UNIT S.No.166, 162, 173 to 175, 736 to 744, 2495, 898/1.,
At NH 6, PO. Nashirabad. Tal & Dist-Jalgaon




TC-11665

SAMPLE DETAILS

Lab ID	: Lab/NGP270D/07	Sampling Start Date	: 21.02.2025
Sample Drawn By	: Laboratory Representative	Sampling End Date	: 22.02.2025
Sample Type	: Ambient Air	Sample Receipt Date	: 22.02.2025
Sample Description	: Near Wagon Tippler	Analysis Start-End Date	: 24.02.2025 TO 26.02.2025
Env. Cond.-Sampling	: Ambient Temperature	Total Sampling hours	: 8
Env. Cond. -Sample Receipt	: Satisfactory	Env. Cond. -Testing	: 25±5°C

Sr. No.	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM 10)	61.06	µg/m ³	IS 5182 (Part 23)	100
2	Particulate Matter (PM 2.5)	34.99	µg/m ³	CPCB Guideline Vol-1	60
3	Sulphur Dioxide (SO ₂)	11.74	µg/m ³	IS 5182 (Part 2)	80
4	Oxides of Nitrogen	23.78	µg/m ³	IS 5182 (Part 6)	80
5	Wind Speed	3.00	m/s	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS
6	Temperature	29.00	°C	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS
7	Relative Humidity	44.0	%	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS

NS= Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Divya Kale




Authorized Signatory
Deepa Chavhan

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TEST REPORT

Report Number : GGMPL/NGP292D/06

Reporting Date: 29.03.2025

M/s ORIENT CEMENT LIMITED

CLINKER GRINDING UNIT S.No.166, 162, 173 to 175, 736 to 744, 2495, 898/1.,
At NH 6, PO. Nashirabad. Tal & Dist-Jalgaon



TC-11665

SAMPLE DETAILS

Lab ID	: Lab/NGP292D/06	Sampling Start Date	: 19.03.2025
Sample Drawn By	: Mangesh Patil	Sampling End Date	: 19.03.2025
Sample Type	: Ambient Air	Sample Receipt Date	: 20.03.2025
Sample Description	: Near Bhadali Gate	Analysis Start-End Date	: 21.03.2025 TO 22.03.2025
Env. Cond.-Sampling	: Temp-32°C / Humidity-41%	Total Sampling hours	: 8
Sample Condition	: Satisfactory	Env. Cond. -Testing	: 25±5°C

Sr. No.	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM 10)	63.88	µg/m ³	IS 5182 (Part 23)	100
2	Particulate Matter (PM 2.5)	38.74	µg/m ³	CPCB Guideline Vol-1	60
3	Sulphur Dioxide (SO ₂)	13.87	µg/m ³	IS 5182 (Part 2)	80
4	Oxides of Nitrogen	26.76	µg/m ³	IS 5182 (Part 6)	80
5	Wind Speed	3.61	m/s	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS
6	Temperature	32.00	°C	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS
7	Relative Humidity	41.0	%	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS

NS= Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



Reviewed By
Bhagyashri Dhote




Authorized Signatory
Deepa Chavhan

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TEST REPORT

Report Number :GGMPL/NGP292D/07

Reporting Date: 29.03.2025

M/s ORIENT CEMENT LIMITED

CLINKER GRINDING UNIT S.No.166, 162, 173 to 175, 736 to 744, 2495, 898/1.,
At NH 6, PO. Nashirabad. Tal & Dist-Jalgaon



TC-11665

SAMPLE DETAILS

Lab ID	: Lab/NGP292D/07	Sampling Start Date	: 19.03.2025
Sample Drawn By	: Mangesh Patil	Sampling End Date	: 19.03.2025
Sample Type	: Ambient Air	Sample Receipt Date	: 20.03.2025
Sample Description	: Near Substation	Analysis Start-End Date	: 21.03.2025 TO 22.03.2025
Env. Cond.-Sampling	: Temp-32°C / Humidity-41%	Total Sampling hours	: 8
Sample Condition	: Satisfactory	Env. Cond. -Testing	: 25±5°C

Sr. No.	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM 10)	67.91	µg/m ³	IS 5182 (Part 23)	100
2	Particulate Matter (PM 2.5)	34.99	µg/m ³	CPCB Guideline Vol-1	60
3	Sulphur Dioxide (SO ₂)	15.06	µg/m ³	IS 5182 (Part 2)	80
4	Oxides of Nitrogen	25.37	µg/m ³	IS 5182 (Part 6)	80
5	Wind Speed	3.61	m/s	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS
6	Temperature	32.00	°C	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS
7	Relative Humidity	41.0	%	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS

NS= Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



Reviewed By
Bhagyashri Dhote




Authorized Signatory
Deepa Chavhan

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TEST REPORT

Report Number :GGMPL/NGP292D/08

Reporting Date: 29.03.2025

M/s ORIENT CEMENT LIMITED

CLINKER GRINDING UNIT S.No.166, 162, 173 to 175, 736 to 744, 2495, 898/1.,
At NH 6, PO. Nashirabad. Tal & Dist-Jalgaon



TC-11665

SAMPLE DETAILS

Lab ID	: Lab/NGP292D/08	Sampling Start Date	: 19.03.2025
Sample Drawn By	: Mangesh Patil	Sampling End Date	: 19.03.2025
Sample Type	: Ambient Air	Sample Receipt Date	: 20.03.2025
Sample Description	: Near Wagon Tippler	Analysis Start-End Date	: 21.03.2025 TO 22.03.2025
Env. Cond.-Sampling	: Temp-32°C / Humidity-41%	Total Sampling hours	: 8
Sample Condition	: Satisfactory	Env. Cond. -Testing	: 25±5°C

Sr. No.	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM 10)	61.89	µg/m ³	IS 5182 (Part 23)	100
2	Particulate Matter (PM 2.5)	33.74	µg/m ³	CPCB Guideline Vol-1	60
3	Sulphur Dioxide (SO ₂)	14.94	µg/m ³	IS 5182 (Part 2)	80
4	Oxides of Nitrogen	30.22	µg/m ³	IS 5182 (Part 6)	80
5	Wind Speed	3.61	m/s	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS
6	Temperature	32.00	°C	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS
7	Relative Humidity	41.0	%	GMPL/SOP/MP/01 Issue no. 01/ Issue date-01.04.2022	NS

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Reviewed By
Bhagyashri Dhote




Authorized Signatory
Deepa Chavhan

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Fugitive Dust Emission Control Measures at M/s. Orient Cement Limited (CGU), Jalgaon



Figure 1: Closed Conveyors System



Figure 2: Road Sweeping Machine



Figure 3: Concrete Road Network



Figure 4: Deployment of Water Tanker

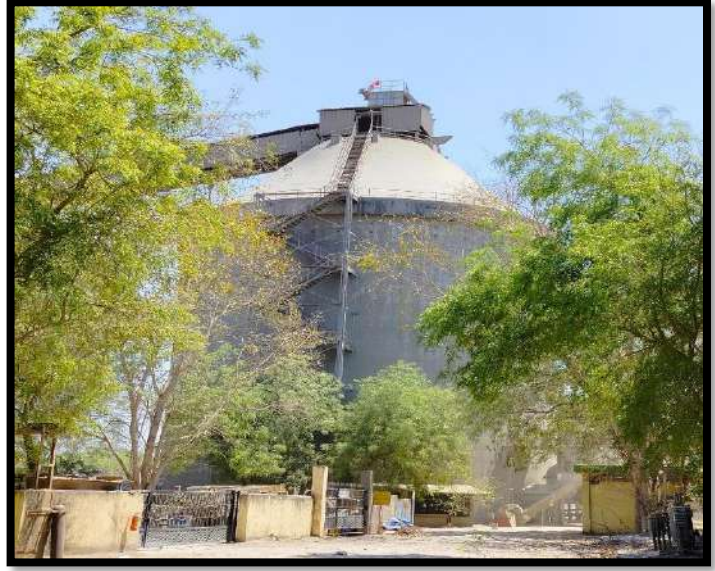


Figure 5: Storage of Clinker in Closed RCC Silo's



Figure 6: Covered Shed along with concrete floor for Gypsum Storage

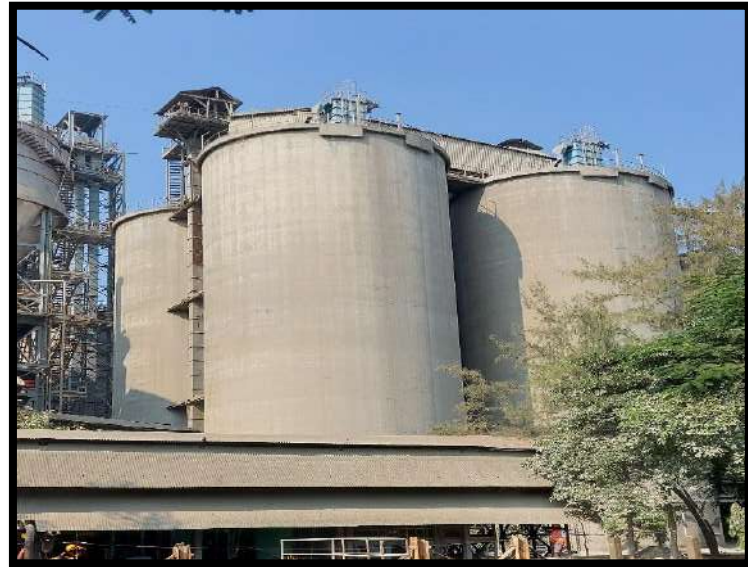
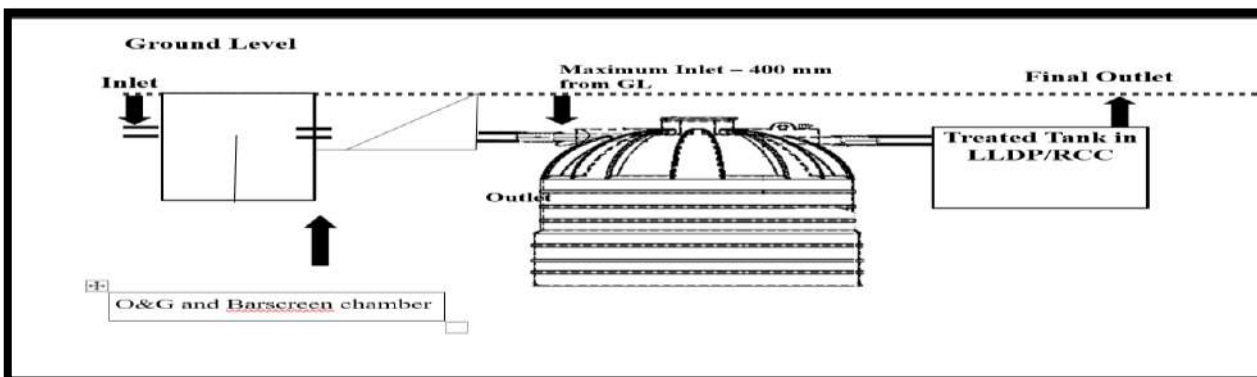


Figure 7: Storage of Cement in Closed RCC Silo's.



Figure 8: Closed Container Vehicles for Fly Ash Transportation & Tarpaulin Covered Wagon for Clinker Transportation

Sewage Treatment Plant (05 KLD) at M/s. Orient Cement Limited (OCL), Jalgaon



Establishment of Vermicompost Unit



Figure 1: Green Waste Generation from Horticulture



Figure 2: Food Waste Generation from Canteen

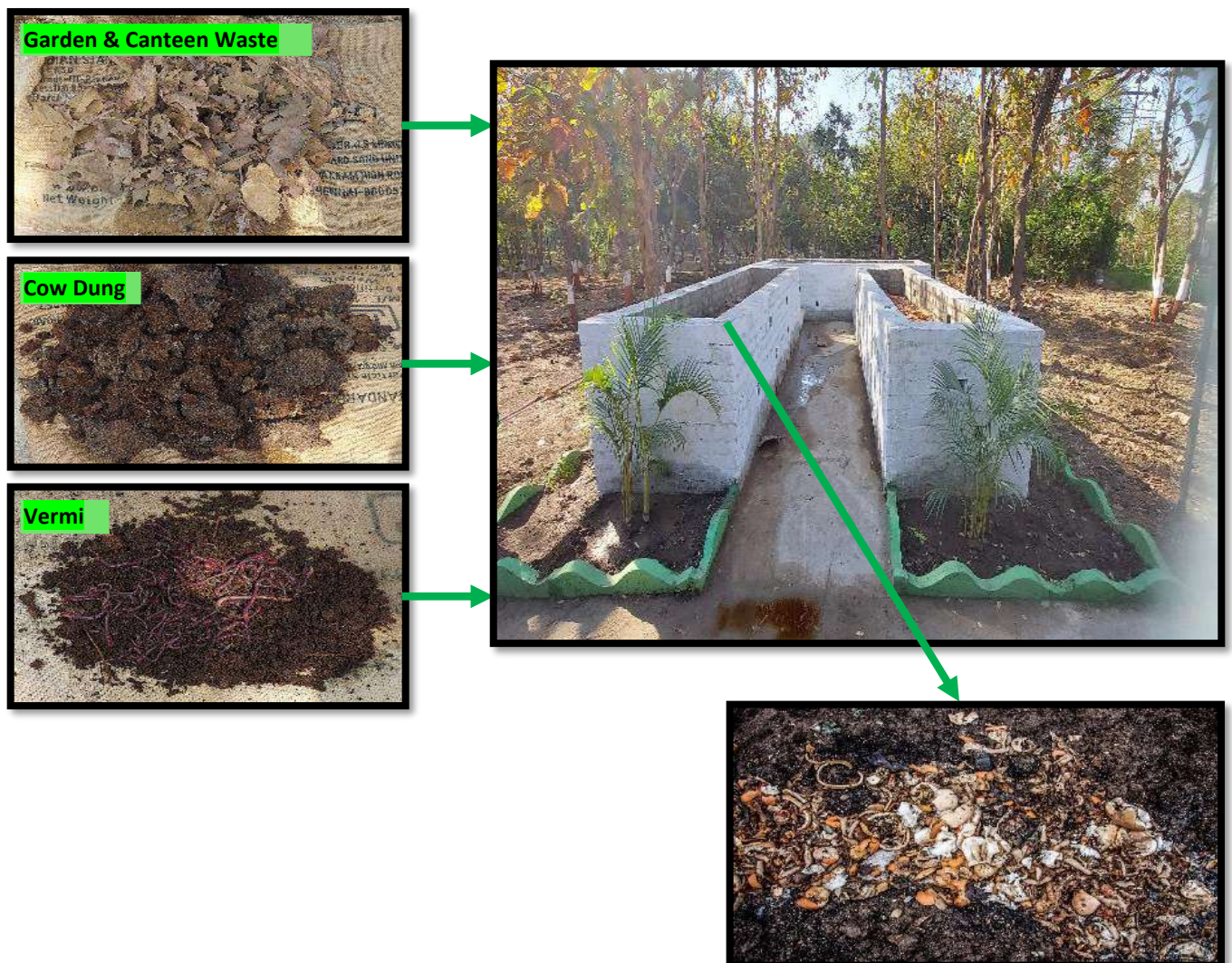


Figure 3: Preparation of Vermicompost Bed having size (5m x 1m x 1m x 3 Nos.). The Beds contain with Garden & Canteen Waste, Cow Dung and Vermi

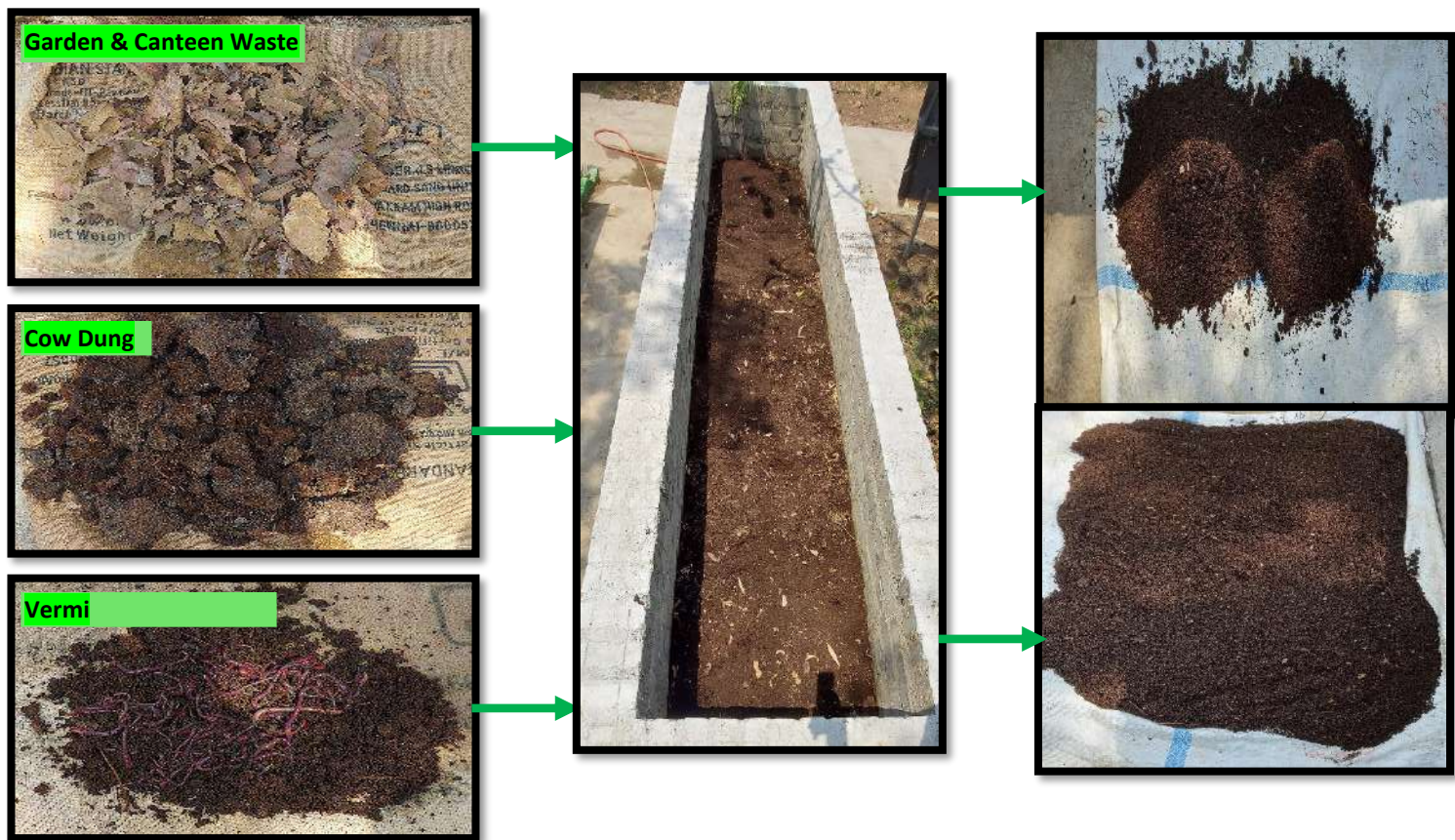


Figure 4: Vermicompost after decomposition of Green & Canteen Waste

Table 1: Silent Feature of the Vermicompost Unit

Sr. No.	Activity	Description
1	Preparation of Vermicompost Bed	12.02.2023
2	Inauguration of Vermicompost Bed	13.02.2023
3	Raw Material Used	Green Waste, Cow Dung & Vermi
4	Harvesting of Vermicompost	07.04.2023
5	Duration for decomposition of green waste & convert into manure	50 Days
6	Vermicompost Harvested Quantity	Approx. 1250 Kg
7	Market Price of Vermicompost	INR 100/Kg

Establishment of Solid Waste Yard (Renewable Depot)



Figure 5: Collection of Biodegradable Waste (Wet Waste) & Non – Biodegradable Waste (Dry Waste)



Figure 6: Renewable Depot for Storage of Non – Biodegradable Waste in segregated compartment



Figure 7: Lifting of Non – Biodegradable Waste from renewable depot by Local Recycler

Plastic Waste Bin for Collection & Storage Plastic Waste



Figure 8: Inauguration of Plastic Waste Bin & onsite awareness given to Employee & workmen.



Figure 9: Weighing of plastic waste by every individual before disposed into Plastic Waste Bin.

Recyclable PET Bottles Filled with Non – Recyclable Waste



Figure 10: Non-recyclable plastic wrappers disposed through filling in PET Bottle.

Awareness through Display Messages and Training & Workshop



Figure 11: Plastic Ban Display at Main Gate.



Figure12: Display of Waste Segregation messages at various location inside the plant premises.



Figure 13: Awareness Session Conducted on “Sustainable Waste Management Practices for Employees



Figure 14: Workshop Conducted on “Waste Management Practices for Villagers & Students



Figure 15: Employee and Workmen gather and clean the unnoticed areas of plant every week.

Green Belt Development Inside the Plant Premises





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TEST REPORT

Report Number : GGMP/NGP222D/11

Reporting Date: 02.01.2025

M/s ORIENT CEMENT LIMITED

CLINKER GRINDING UNIT S.No.166, 162, 173 to 175, 736 to 744, 2495, 898/1.,
At NH 6, PO. Nashirabad. Tal & Dist-Jalgaon



TC-11665

SAMPLE DETAILS

Sampling Instrument

: Sound Level Meter

Sample By

: Laboratory Representative

Sampling Date

: 24.12.2024

Sample Description

: Ambient Noise

Lab ID	Location	Time	Unit	Test Method	Reading	Norms
Lab/NGP222D/11	Near Substation	Day Time	dB (A) Leq	IS 9989	65.7	75
Lab/NGP222D/11	Near Substation	Night Time	dB (A) Leq	IS 9989	56.4	70

NS=Not Specified, BQL=Below Quantification Limit, QL=Quantification Limit

Analyzed By

Divya Kale



End of Report

Authorized Signatory

Deepa Chavhan

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TEST REPORT

Report Number : GGMPL/NGP270D/19

Reporting Date: 04.03.2025

M/s ORIENT CEMENT LIMITED

CLINKER GRINDING UNIT S.No.166, 162, 173 to 175, 736 to 744, 2495, 898/1.,
At NH 6, PO. Nashirabad. Tal & Dist-Jalgaon



TC-11665

SAMPLE DETAILS

Sampling Instrument

: Sound Level Meter

Sample By

: Laboratory Representative

Sampling Date

: 21.02.2025

Sample Description

: Source Noise

Lab ID	Location	Time	Unit	Test Method	Reading	Norms
Lab/NGP270D/19	Near Cement Mill 01	Day Time	dB (A) Leq	IS 4758	71.2	-

NS=Not Specified, BQL=Below Quantification Limit, QL=Quantification Limit

Analyzed By

Divya Kale



Authorized Signatory

Deepa Chavhan

-----End of Report-----

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Rainwater Harvesting Structures in And Around Plant Premises





Construction of Rooftop Rainwater Harvesting, Gabion Structure, and subsurface water dyke

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CSR ACTIVITIES 2024-2025

Orient Cement Limited (CGU), Jalgaon

Sl.	Activities	Benefits	Expenses Incurred	No. of persons benefitted from CSR Projects	% of beneficiaries from vulnerable and marginalized groups
1	Donated LCD Projector for digital Classroom development at Zilla Parishad Primary School, Jalgaon Khurd.	Contribution aims to enhance the learning experience and provide better educational resources for students. We believe that investing in education is investing for our future.	Rs.25,500/-	102 students (Both 55 Girls & 47 Boys)	100%



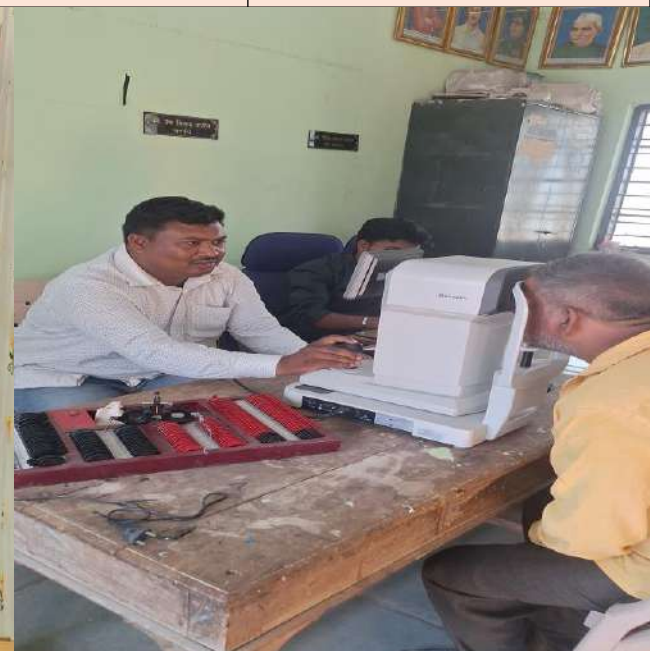
Sl.	Activities	Benefits	Expenses Incurred	No. of persons benefitted from CSR Projects	% of beneficiaries from vulnerable and marginalized groups
2	Donated LCD Projector for digital Classroom development Zilla Parishad Primary Marathi Girls School, Nashirabad Jalgaon, which was founded on October 1, 1964.	Contribution aims to enhance the learning experience and provide better educational resources for students. We believe that investing in education is investing for our future. Witnessing the energy and enthusiasm of these students was truly inspiring. They showcased their talent and passion by performing various songs prepared for Ashadi Ekadashi, making the experience even more memorable.	Rs.25,500/-	120 students (only girls)	100%



Sl.	Activities	Benefits	Expenses Incurred	% of beneficiaries from vulnerable and marginalized groups	% of beneficiaries from vulnerable and marginalized groups
3	Donation to Nashirabad Public Library, the 108-year-old public library in Nashirabad, Jalgaon. included essential items such as reading tables, MS cupboards, and fans	Fostering a passion for learning and providing better resources for the people of Nashirabad.	Rs.85000/-	Total population of surrounding locals are 5000 and there are approx. 70 numbers of student who are taking benefit of public library. Monthly 2100 students take the benefits.	47%



Sl.	Activities	Benefits	Expenses Incurred	% of beneficiaries from vulnerable and marginalized groups	% of beneficiaries from vulnerable and marginalized groups
4	Medical Health Check-up Camp at Jalgaon Khurd	496 citizens benefited	Rs.94,000/-	Total population of surrounding locals are 2500. We had targeted for 800 locals from the surrounding out of which 496 citizen benefited.	62%



Sl.	Activities	Benefits	Expenses Incurred	% of beneficiaries from vulnerable and marginalized groups	% of beneficiaries from vulnerable and marginalized groups
5	We inaugurated a washroom facility for girls and boys and a drinking water facility Z.P. Primary School, Nashirabad Peth, Jalgaon.	School Infrastructure Development. enhancing hygiene and access to clean water for students.	Rs. 3,40,000/- Rs. 40,000/-	30 boys & 42 girl's student(Total 72 students)	100%



Sl.	Activities	Benefits	Expenses Incurred	% of beneficiaries from vulnerable and marginalized groups	% of beneficiaries from vulnerable and marginalized groups
6	Z.P. Girls Marathi School As part of our digital classroom initiative, we provided two desktop computers to Z.P. Girls Marathi School No. 02, Nashirabad	Empowering students with better learning opportunities	Rs. 1,22,265/-	116 girl students	100%



Sl.	Activities	Benefits	Expenses Incurred	% of beneficiaries from vulnerable and marginalized groups	% of beneficiaries from vulnerable and marginalized groups
7	Z.P. School, Jalgaon Khurd, As part of our digital classroom initiative, we provided two desktop computers (Boys & girls)	Promoting digital literacy among both girls and boys.	Rs. 1,22,265/-	47 boys & 55 girls students(Total 102 students)	100%



Sr No	Details of Work	Place of Work	Expenses Incurred	Date of inauguration
01.	Donated LCD Projector for Digital Classroom	ZP Primary School, Jalgaon Khurd.	Rs.25,500/-	16 th July 2024
02.	Donated Projector for Digital Classroom	ZP Primary Marathi Girls School, Nashirabad.	Rs.25,500/-	18 th July 2024
03.	Donated Almirah, celling fan & meeting room table .	Public Library, Nashirabad.	Rs.85,000/-	1st Jan 2025
04.	Medical Health Checkup Camp	Jalgaon Khurd Village	Rs. 94,000/-	17 th March 2025
05.	Construction of Toilet Blocks, Urinals & drinking water facility for students.	ZP Primary School, Nashirabad.	Rs. 3,40,000/- Rs. 40,000/-	27 th March 2025
06.	Digital classroom (2 desktops provided)	ZP Girls Marathi School No. 02, Nashirabad.	Rs. 1,22,265/-	27 th March 2025
07.	Digital classroom (2 desktops provided)	ZP School, Jalgaon Khurd	Rs. 1,22,265/-	27 th March 2025
		Total-	Rs. 8,54,530/-	

Quarterly expenses of CSR Activities-CGU Jalgaon 2024-25

Sr.No.	CSR projects and programmes	Expected	Actual Q1	Actual Q2	Actual Q3	Actual Q4	Total	Remarks
	(Details of projects and programmes)	Expenditure (Rs. Lacs)	Expenditure (Rs. Lacs)	Expenditure (Rs. Lacs)	Expenditure (Rs. Lacs)	Expenditure (Rs. Lacs)	Expenditure (Rs. Lacs)	
1	Construction of Toilet Blocks & Urinals for schools at Jalgaon Khurd & Nashirabad. It will help maintain a good hygiene.	5.50	0	-	0.33	3.47	3.80	Construction of toilet block and Water Tank at ZP primary school at Nashirabad.
2	Construction of Toilet Blocks (Sulabh Complex) for villagers at Jalgaon Khurd & Nashirabad. It will help maintain a good hygiene.	6.00	0	-	-	-	-	
3	Eye test Camp & Medical camp with Medicines, cleaning material for hygiene, sanitary pads for villagers at Jalgaon Khurd & Nashirabad.	3.00	-	-	-	0.94	0.94	Medical Health Checkup Camp
4	Contribution towards educational & development activities of school at nearby villages	4.00	-	0.51	-	2.45	2.95	LCD projector and computer desktop with CPU given to schools.
5	Contribute to the Public library (Furniture's) sustainability and its role as a center for intellectual growth and community , interaction creating a conducive learning and reading environment for the library's patrons, which include children, women, and the elderly citizens of Nashirabad.	1.00	-	-	0.85	-	0.85	Almirah, ceiling fan and meeting room table donate to public library at Nashirabad.
6	Other Activities (As a budget to provide any support and help to nearby villages during exigencies.)	1.00	-	-	-	-	-	
Total		20.50	-	0.51	1.18	6.85	8.54	

Thank You...



सिटी न्यूज

दिव्य मराठी जळगाव . गुरुवार, २० मार्च, २०२५

रेडक्रॉसतर्फे ५०० नागरिकांची तपासणी

प्रतिनिधी | जळगाव

रेडक्रॉस व ओरिएंट सिमेंट लिमिटेडच्या सी.एस.आर.अंतर्गत जळगाव खुर्द येथे मोफत आरोग्य शिबिर झाले. यात ७७ ज्येष्ठ नागरिकांचे शुगर व ब्लड प्रेशर, १२९ विद्यार्थ्यांचे रक्तगट तर ६९ महिलांची हिमोग्लोबिन तपासणी करण्यात आली. या व्यतिरिक्त सर्व स्पेशालिस्ट डॉक्टरांनी विविध आजारांच्या २११ तपासणी करून रुग्णांना औषधे दिली. यात १६ नागरिकांच्या मोफत मोतीबिंदूच्या शस्त्रक्रिया केल्या जाणार आहे.

शिबिरात सर्व शालेय विद्यार्थ्यांनी व महिलांना मासिक पाळी दरम्यान



शिबिरात तपासणी करताना डॉक्टर.

आरोग्याची काळजी घेण्याबाबत मार्गदर्शन करून त्यांना सॅनिटरी नॅपकीन वितरित करण्यात आले. या वेळी ओरिएंट लिमिटेड वकर्सचे व्हाइस प्रेसिडेंट अतुल अग्रवाल, रेडक्रॉसचे चेअरमन विनोद बियाणी,

नागरिकांना आरोग्य टिप्स

शिबिरात स्त्रीरोग तज्ज्ञ डॉ. कृष्णा राठोड, ऑर्थोपेडिक सर्जन डॉ. स्नेहल बम्बोडे, दंतरोग तज्ज्ञ डॉ. देवेंद्रप्रताप सिंग, कान-नाक-घसा तज्ज्ञ डॉ. अरविंद चौधरी, डोळे तपासणी तज्ज्ञ डॉ. गौरव वाबळे, डॉ. रोहित काळे यांनी तपासणी केली. तसेच नागरिकांना आरोग्याविषयी टिप्स दिल्या.

सेक्रेटरी सुभाष सांखला, सह प्रशासकीय अधिकारी डॉ. राजेश सुरळकर, दिनेश पाटील आदी उपस्थित होते. अग्रवाल यांनी भविष्यातही सामाजिक उपक्रम राबवले जातील असे सांगितले.

शुक्रवार दि. २८.०३.२०२५ छःसंभाजीनगर || मुख्य संपादक:-प्रकाश आनंदाराव सातपुते

ओरिएंट सिमेंट कंपनीतर्फे त्यांच्या सी.एस.आर. फंडातून परिसरातील जि. प. शाळांसाठी राबविलेल्या विविध सुविधांचे उद्घाटन



दै.सुर्यवार्ता:-प्रतिनिधी मदन लाठी जळगाव

भारत देश विज्ञान युगात प्रगतीकडे वाटचाल करीत असताना ग्रामीण भागातील विद्यार्थी हा वैज्ञानिक दृष्ट्या मागास राहू नये हा उद्देश डोळ्यासमोर ठेवून ओरिएंट सिमेंट कंपनीने सी.एस.आर. फंडातून ग्रामीण भागातील प्राथमिक शाळेच्या विद्यार्थ्यांसाठी संगणक संच व इतर मूलभूत सोयी सुविधा उपलब्ध करून दिल्यात. संगणक शिक्षणाने विद्यार्थ्यांना अध्ययन अध्यापनात गोडी वाटणार असून शैक्षणिक प्रगती सुधारण्यास निश्चित मदत होईल. आज शहरी भागातील शाळा पालकांकडून भरमसाठ फी घेऊन त्याच पैशातून विद्यार्थ्यांना संगणकाचे ज्ञान देतात पण ग्रामीण भागातील विद्यार्थी व पालक सामान्य कुटुंबातील असल्याने त्यांना संगणक शिक्षण मिळणे अशक्य असते यादृष्टीने ओरिएंट सिमेंट कंपनीने प्राथमिक शाळेतील विद्यार्थ्यांच्या आरोग्यासाठी व शिक्षणासाठी मूलभूत सोयी सुविधा उपलब्ध करून दिल्याने

ग्रामस्थ व पालक वर्गात आनंदचे वातावरण दिसून आले आज दि.२७ मार्च २०२५ गुरुवार रोजी ओरिएंट सिमेंट कंपनी प्रशासनातर्फे सी.एस.आर. फंडातून जि. प. प्राथमिक शाळा जळगाव खुर्द ता. जि. जळगाव. व जि. प. प्राथमिक शाळा नशिराबाद कन्या नंबर २. ता. जि. जळगाव. येथे विद्यार्थ्यांना अध्ययन, अध्यापनासाठी दोन्ही शाळांना प्रत्येकी दोन संगणक संच दिले. तसेच जि. प. प्राथमिक शाळा नशिराबाद पेठ. ता. जि. जळगाव. येथे विद्यार्थ्यांच्या आरोग्यासाठी व स्वच्छतेसाठी स्वच्छतागृह बांधून दिले आणि पिण्याच्या पाण्यासाठी स्वतंत्र टाकी उपलब्ध करून दिली. इत्यादी कामांचे अनावरण आज ओरिएंट सिमेंट कंपनी लि. जळगाव खुर्द शाखेचे एच.आर. हेड -श्री. रोहितजी जोशी. साहेब व कंपनीचे असिस्टंट मॅनेजर एच.आर. श्री. सुदर्शनजी मोरे. साहेब यांच्या हस्ते उत्साहात करण्यात आले याप्रसंगी तीनही शाळांचे मुख्याध्यापक, शिक्षक वृंद व विद्यार्थी उपस्थित होते...

दिव्य मराठी

जळगाव, शुक्रवार, २८ मार्च २०२५

सीएसआर अंतर्गत संगणक कक्ष, स्वच्छतागृह उभारले

प्रतिनिधी | जळगाव

नशिराबाद जवळच्या औरिण्ट सिमेंट कंपनीतर्फे सीएसआर फंडातून जळगाव खुर्द व नशिराबाद पेठ कन्या शाळा नंबर २ जिल्हा परिषद शाळेस दोन संगणक कक्ष, स्वच्छतागृह, पिण्याच्या पाण्याची टाकी उभारून दिली आहे.

दोन्ही शाळांना दोन संगणक देण्यात आले आहे. या सुविधांचे उद्घाटन कंपनीचे एच.आर. सहायक व्यवस्थापक सुदर्शन मोरे, जळगाव खुर्द शाखेचे एच.आर. प्रमुख रोहित जोशी यांच्या हस्ते करण्यात आले. तीनही शाळांचे मुख्याध्यापक, शिक्षक, विद्यार्थी आदी उपस्थित होते.

TARUN BHARAT NEWS PAPER.

#, 28.03.2025.

सी. एस. आर. फंडातून नशिराबाद परिसरातील जि. प. शाळांसाठी सुविधा

तभा वृत्तसेवा

नशिराबाद (ता. जळगाव), २७ मार्च

भारत देश विज्ञान युगात प्रगतीकडे वाटचाल करीत असताना ग्रामीण भागातील विद्यार्थी हा वैज्ञानिक दृष्ट्या मागास राहू नये हा उद्देश डोळ्यासमोर ठेवून ओरिएंट सिमेंट कंपनीने सी. एस. आर. फंडातून ग्रामीण भागातील प्राथमिक शाळेच्या विद्यार्थ्यांसाठी संगणक संच व इतर मूलभूत सोयीसुविधा उपलब्ध करून दिल्या.

संगणक शिक्षणाने विद्यार्थ्यांना अध्ययन, अध्यापनात गोडी वाटणार असून शैक्षणिक प्रगती सुधारण्यास निश्चित मदत होईल. आज शहरी भागातील शाळा पालकांकडून भरमसाट फी घेऊन त्याच पैशातून विद्यार्थ्यांना संगणकाचे ज्ञान देतात पण ग्रामीण भागातील विद्यार्थी व पालक सामान्य कुटुंबातील असल्याने त्यांना संगणक शिक्षण मिळणे अशक्य असते. या दृष्टीने ओरिएंट सिमेंट कंपनीने प्राथमिक शाळेतील विद्यार्थ्यांच्या आरोग्यासाठी व शिक्षणासाठी मूलभूत सोयीसुविधा उपलब्ध करून दिल्याने ग्रामस्थ व पालक वर्गात आनंदाचे वातावरण दिसून आले. २७ मार्च रोजी ओरिएंट सिमेंट कंपनी प्रशासनातर्फे सी.एस.आर. फंडातून जि. प. प्राथमिक शाळा जळगाव खुर्द व जि. प. प्राथमिक शाळा नशिराबाद कन्या नंबर २ येथे विद्यार्थ्यांना अध्ययन, अध्यापनासाठी दोन्ही शाळांना प्रत्येकी दोन संगणक संच दिले. तसेच जि. प. प्राथमिक शाळा नशिराबाद पेठ येथे विद्यार्थ्यांच्या आरोग्यासाठी व स्वच्छतेसाठी स्वच्छतागृह बांधून दिले आणि पिण्याच्या पाण्यासाठी स्वतंत्र टाकी उपलब्ध करून दिली. इत्यादी कामांचे अनावरण गुरुवारी ओरिएंट सिमेंट कंपनी लि. जळगाव खुर्द शाखेचे एच.आर. हेड रोहित जोशी व कंपनीचे असिस्टंट मॅनेजर एच.आर. सुदर्शन मोरे यांच्या हस्ते उत्साहात करण्यात आले. याप्रसंगी तीनही शाळांचे मुख्याध्यापक, शिक्षक वृंद व विद्यार्थी उपस्थित होते.



Environmental Safeguards at OCL (CGU), Jalgaon



Cement Mill - 1 Bag House



Cement Mill - 2 Bag House



Wagon Tippler Bag Filter



Fly Ash Silo Bag Filter



Closed Conveying System



Concrete Roads



Mechanized Road Sweeping Machine



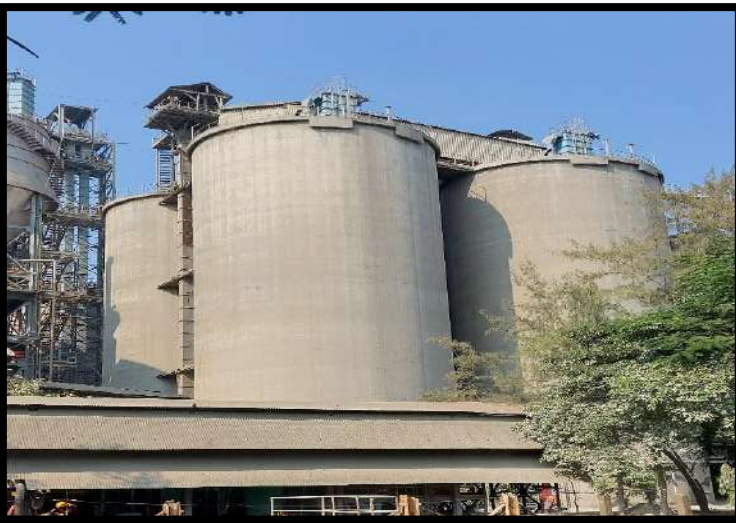
Deployment of Water Tanker



Clinker Storage in Closed Silo



Closed Container Vehicles & Tarpaulin covered wagon for Fly Ash & Clinker Transportation



Cement Stored in Closed Silos



Covered Shed for Gypsum Yard



Rainwater Harvesting Structure Near Weigh Bridge



Rainwater Harvesting Structure Near Bhadli Gate



Piezometer Near Gypsum Yard with Telemetry System



Digital Water Flow Meter at Water Withdrawal Points



Sewage Treatment Plant Behind Store (2 KLD)



Sewage Treatment Plant Near Packing Plant (3 KLD)



Plastic Waste Bin for Collection of Plastic Waste



Colour Code Dust for Collection of Biodegradable, Non-Biodegradable and Hazardous Waste



Display of Waste Management Poster & Slogans for Awareness



Solid Waste Yard for Segregation of Non-Biodegradable Waste



Organic Shredder



CAAQMS – 1: Near EHS Office



CAAQMS – 2: Near Bhadli Gate



CAAQMS – 3: Near Bhusaval Gate





CEMs System installed at Cement Mill – 1 & 2 Stacks



RDS Sampler & Stack Monitoring Kit Available for In-house Ambient Air Monitoring as well as Stack Monitoring

Establishment of Environmental laboratory



Various Instruments at Environmental Laboratory for Sampling & Analysis