



**Date: 27<sup>th</sup> May 2024**

To,

SHRI V.N. AMBADE, IFS  
Deputy Director General of Forests (C)  
Ministry of Environment, Forest and Climate Change,  
Integrated Regional Office, Ground Floor, East Wing,  
New Secretariat Building, Civil Lines,  
Nagpur- 440001

**Subject: Submission of Half Yearly Environment Clearance Compliance report of M/s JSW Cement Limited, located Geetapuram Dolvi Pen Dist Raigad Maharashtra-Reg.**

**Ref: No SEAC – 2010/CR.708/TC.2, Dated 14<sup>th</sup> June 2011**

**Dear Sir,**

With reference to the cited above, we are herewith furnishing the compliance report to stipulated conditions of E. C. in soft copy for the period of 1<sup>st</sup> Oct 2023 to 31<sup>st</sup> Mar 2024 of M/s JSW Cement Limited located Geetapuram Dolvi Pen Dist Raigad Maharashtra.

This is for your kind information and office record please.

Thanking You

Yours Faithfully  
For JSW Cement Limited  
Authorized Signatory

**Manish Pujari**  
(Unit Head)

**CC to RD CPCB Pune and RO Belapur**



**Half yearly Compliance Report (1<sup>st</sup> October 2023 to 31<sup>st</sup> March 2024)**



**JSW Cement Limited, Dolvi works**

(village Khar Karavi, Gadab, Taluka Pen, Dist. Raigad Maharashtra 402107)

<b>Name of Project</b>	:	<b>Environmental Clearance for the Proposed Expansion project of cement grinding unit at village Khar Karavi, Gadab, Taluka Pen, Dist. Raigad by M/s. Heidelberg Cement India Ltd. - Environmental Clearance regarding (now JSW Cement Limited)</b>
<b>Clearance letter No.</b>	:	<b>No. SEAC-2010/CR.708/TC.2, Dated 14<sup>th</sup> June 2011</b>
<b>Period of Compliance</b>	:	<b>1<sup>st</sup> October 2023 to 31<sup>st</sup> March 2024</b>
<b>A</b>	<b>Specific Conditions</b>	
<b>Sl. No.</b>	<b>CONDITIONS</b>	<b>COMPLIANCE STATUS</b>
(i)	"Consent for Establishment" shall be obtained from Maharashtra State Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environment Department before start of any construction work at the site. MPCB should verify SO <sub>2</sub> emission modelling submitted by project proponent as recommended by SEAC.	<b>Complied.</b> Consent for Establishment was granted by MPCB vide letter No BO/ APAE/TB-3/ EIC No. RD-1716-10/E/CC-259 Date 25.05.2011. Consent to Operate was granted by MPCB vide letter No BO/CAC- CELL/ EIC No./RD-3252-16-CAC-9885 Date 26.08.2016. No source of SO <sub>2</sub> emission from any of the processes.
(ii)	No land development / construction work preliminary or otherwise relating to the project shall be taken up without obtaining due clearance from the respective authorities.	<b>Agreed.</b>
(iii)	No additional land shall be used / acquired for any activity of the project without obtaining proper permission.	<b>Agreed.</b>
(iv)	For controlling fugitive natural dust, regular sprinkling of water and wind shields at appropriate distances in vulnerable areas of the plant shall be ensured.	<b>Complied.</b> Regular water sprinkling is done on the unpaved areas. Wind shields are provided during monsoon (when the wind velocity is high) at the raw material storage area.
(v)	Regular monitoring of the air quality, including SPM and SO <sub>2</sub> both in work zone and ambient air shall be carried out in and around the power plant and records shall be maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with MPCB and submit reports accordingly to MPCB.	<b>Complied.</b> Air quality in work zone as well as in ambient air is monitored by an accredited 3rd party once in a month. In addition, two nos. of CAAQMS are also installed at plant periphery in consultation with MPCB for online continuous monitoring of SPM, Sox & NO <sub>x</sub> in ambient air. Real-time data are transmitted to MPCB and CPCB. Monthly monitoring reports are submitted to MPCB on regular basis.

		 <p>Latitude: 18.683599 Longitude: 73.037297 Elevation: 31.52619 m Accuracy: 42.5 m Time: 05/29/2024 11:04 Note: AAQM21</p> <p>Latitude: 18.683457 Longitude: 73.037044 Elevation: 31.5112 m Accuracy: 23.3 m Time: 05/29/2024 11:10 Note: AAQM22</p>
(vi)	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge groundwater.	<p><b>Complied.</b></p> <p>The project of rain water harvesting scheme is already completed.</p>  <p>GPS Map Camera Raigad, Maharashtra, India Unnamed Road, Maharashtra 402107, India Lat 18.683048° Long 73.037303°</p>
(vii)	Arrangement shall be made that waste water and storm water do not get mixed.	<p><b>Complied.</b></p>
(viii)	Periodic monitoring of groundwater shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to Maharashtra Pollution Control Board (MPCB).	<p><b>Agreed.</b></p>

(ix)	Leq of noise level shall be maintained as per standards. For people working in high noise areas, requisite personal protective equipment's like ear plugs etc. shall be provided.	<b>Complied.</b> Noise levels in work zone as well as in ambient are maintained within the norms. Ear plugs are provided to persons working in high noise areas.
(x)	The overall noise levels in and around the plant shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 and Rules 1989.	<b>Complied.</b> We have provided silencers, acoustic enclosures where necessary and feasible to control the overall noise levels within the prescribed limits. Ambient noise levels are maintained well within the prescribed limits.

- (xi) Green belt shall be developed and maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including section of plant species and in consultation with the local DFO/ Agriculture Department.

### Complied.



Greenbelt is being developed along the periphery and also in vacant areas of plant. CPCB guidelines being followed.

### Species planted

Banyan, Bael, Champa, Neem, Ashoka, Sheesham, Christmas, peepal, badm, coconut trees, peltophorum, cluster, kikar, reetha, avla, drumstick, gulmohar, mango, gauva, cashew, dolar, royal, palm, tamrind, rubber, karanj, acacia, palas, chiku, sweet apple, bakulla, rain tree, niva, neelgiri, cykash, jamun, banana, suru, conocarpus, papaya





		
(xii)	Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic locations for early detection and warning.	<p><b>Complied.</b></p> <p>All the required safety measures have been implemented in line with the requirements of the Factories Act and State Factory Rules. We have implemented 3rd party accredited ISO 9001:2015, 14001:2015, 50001:2018 &amp; ISO 45001:2018 based safety management system since 2015. The system is audited by internal as well as external auditors at periodic intervals.</p>
(xiii)	Occupational health surveillance of workers shall be done on a regular basis and records maintained as per factories Act.	<p><b>Complied.</b></p> <p>Regular health checkup of employees is done and records are maintained as per Factories Act.</p>
(xiv)	The company shall make the arrangements for protection of possible fire hazards during manufacturing process in material handling.	<p><b>Complied.</b></p> <p>Fire hydrant is installed throughout the plant. In addition, dedicated fire tender and firefighting team is available round the clock inside the plant premises.</p> 
(xv)	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the hazardous Waste Management and handling Rules, 2003 (amended). Authorization from MPCB shall be obtained for collection/treatment/storage/disposal of hazardous wastes.	<p><b>Complied.</b></p> <p>We have obtained due authorization from MPCB for collection, handling, storage and disposal of hazardous waste. Hazardous waste (used oil and waste grease) is sold to authorized recyclers only.</p>

(xvi)	The company shall undertake following Waste Minimization Measures.	<b>Complied.</b> The latest technology VRM requires less oil and grease.
(xvii)	Regular mock drills for on-site emergency management plan shall be carried out. Implementation of changes, improvements required, if any, in the on-site management plan shall be ensured.	<b>Complied.</b> Mock drills with regard to identified emergencies are conducted once in six months. The results of mock drills are reviewed by the Safety committee and recommendations for improvement, if any, are implemented by safety department.

**ON-SITE EMERGENCY PLAN REHEARSHAL**  
**(MOCK DRILL)**

Date : 12.04.2023

Time : 19:30 Hours

Venue : JSW Cement, Dolvi Unit

Location: Plant

Observer Name : Mr. Nilesh Chaudhari

EMERGENCY SITUATION : FIRE at LDO tank, Scrap Yard

S.No	Time	Activities	Action
1.	19:31	Informed the emergency control room	In line
2.	19:31	Emergency siren starting time	In line
3.	19:33	Emergency siren blown as per pre decided siren pattern for emergency (up to 03 minutes with high & low pitch)	In line
4.	19:32	Switch off the power in case of electrical fire	In line
5.	19:32	Arrange to keep the personal away from the affected area	In line
6.	19:32	Cordon off affected area	In line
7.	19:33	Shut down the consuming point	In line
8.	19:35	Remove the other combustible materials from nearby the fire point	In line
6.	19:36	Try to arrest the spilled /leaked oil within the dyke wall & oil pit	In line
8.	19:35	Extinguish the fire by departmental trained persons in firefighting with locally available fire-extinguisher	In line
9.	19:33	Inform occupational health centre for their help in case of any injury	In line
10	19:40	Clean up the area after fire extinction & dispose the waste material suitable to	In line



their place.

### **Addressing by Shift In-charge Head**

On dated, 12.04.2023 @ 19:30 PM, we arranged a mass gathering as it was arranged on short notice of management i.e. we used emergency siren for gathering the employees and also to check our emergency preparedness. The overall response from all the employees during this drill was in line with our emergency preparedness plan.

We concluded this drill with safety oath and committed that we all will follow safety procedure religiously and make our working environment safest workplace.

### **Drawbacks**

S.No	Description	Action	Status
1.	Fire Extinguisher safety pin has been tied fit at the time of mock drill.	Inspect the fire extinguisher in regular basis	Now it is okay
2.	Casual approach towards gathering at assemble point	Awareness program to be arranged	Conducted

**Note:** -Total numbers of employees present during that time : 32  
Total numbers of employees assembled at spot : 28  
Number of employees not reached at spot : 04

The above points are to overcome by providing awareness training and rectified during next mock drill.

**Manindra Nawtan**

**Safety Manager**

**To: -All Concerned**

**Apex Safety Committee**

**Incident Investigation Sub-Committee**

**Photographs: -**




(xviii) A separate environment management cell with qualified shall be set up for implementation of stipulated environmental safeguards.

**Complied.**

Separate environment management cell is in place for implementation of stipulated environmental safeguards.

(xix)	Transportation of ash shall be through closed containers and all measures shall be taken to prevent spilling of the ash.	<b>Noted.</b> We shall comply with the condition whenever we start using fly ash.
(xx)	Separate silos shall be provided for collecting and storing bottom ash and fly ash.	<b>Noted.</b> We shall comply with the condition whenever we start using fly ash.
(xxi)	Separate funds shall be allocated for implementation of environmental protection measures/ EMP along with item wise breakup. These costs shall be included as part of project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year wise expenditure should reported to the MPCB and this department.	<b>Complied.</b> Separate funds for implementation of environmental protection measures/ EMP has been allocated. These funds have been included in the project cost. Year wise expenditure on environment management is being reported to MPCB and SEAC as part of the Annual Environment Statement (Form-V)
(xxii)	The project management shall advertise at least in two newspapers widely circulated in the region around the project, one of which shall be in Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environment clearance and copies of environment clearance letter are available with Maharashtra Pollution Control Board and may also be seen at the website at <a href="http://envis.maharashtra.gov.in">http://envis.maharashtra.gov.in</a> .	<b>Complied.</b>
(xxiii)	Project management should submit half yearly compliance reports in respect of the stipulated prior environmental terms and conditions in hard and soft copies to the MPCB and this department on 1 <sup>st</sup> June and 1 <sup>st</sup> December of each calendar year.	<b>Complied.</b> Half yearly EC compliance reports are regularly submitted to MPCB and SEAC.
(xxiv)	A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	<b>Complied.</b> EC letter can be accessed on our company website: <a href="https://www.jswcement.in/wp-content/uploads/2020/08/EC-of-1.70-MTPA-of-JSW-Cement-Dolvi.pdf">https://www.jswcement.in/wp-content/uploads/2020/08/EC-of-1.70-MTPA-of-JSW-Cement-Dolvi.pdf</a>

(xxv)	<p>The proponent shall upload the status of compliance of the stipulated EC conditions including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective zonal office of CPCB and the SPCB. The criteria pollutant levels namely, SPM, RSPM, SO<sub>2</sub> and NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.</p>	<p><b>Complied.</b></p> <p>Online data for stack and ambient air are electronically displayed near the main factory entrance.</p> 
(xxvi)	<p>The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as email) to the respective regional office of the MoEF, the respective zonal office of CPCB and the SPCB.</p>	<p><b>Complied.</b></p> <p>Six monthly compliance reports are regularly sent to the respective regional office of the MoEF, the respective zonal office of CPCB and the SPCB.</p>
(xxvii)	<p>The Environmental Statement of each financial year ending 31<sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board, as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently, shall also be put on the website of the Company along with the status of compliance of EC conditions and shall also be sent to the respective regional offices of the MoEF by email.</p>	<p><b>Complied.</b></p> <p>The Environment Statement in Form V is regularly submitted to the Maharashtra State Pollution Control Board (MPCB) and is also put on the website of the Company along with the status of compliance of EC conditions and also sent to the regional office of the MoEF by email.</p>



## Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

### FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2023

#### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000059446

#### Submitted Date

25-09-2023

### PART A

#### Company Information

##### Company Name

JSW Cement Limited

##### Application UAN number

MPCB-CONSENT-0000114612/CR-2110000929

##### Address

Village-Khar Karavi, P.O-Gadab, Tal.-  
Pen, Dist.-Raigad

##### Plot no

NA

##### Taluka

Pen

##### Village

Khar Karavi

##### Capital Investment (In lakhs)

21013

##### Scale

Large

##### City

Pen

##### Pincode

402107

##### Person Name

Manish Pujari

##### Designation

Unit-Head (GM)

##### Telephone Number

9449598309

##### Fax Number

02143277725

##### Email

manish.pujari@jsw.in

##### Region

SRO-Raigad II

##### Industry Category

Red

##### Industry Type

R26 Cement

##### Last Environmental statement submitted online

yes

##### Consent Number

Format1.0/CAC/UAN No. MPCB-  
CONSENT-0000114682/CR-2110000929

##### Consent Issue Date

2021-10-20

##### Consent Valid Upto

2026-07-31

##### Establishment Year

1999

##### Date of last environment statement submitted

Jan 1 1900 12:00:00:000AM

##### Industry Category Primary (STC Code) & Secondary (STC Code)

#### Product Information

##### Product Name

Portland Slag Cement/Ground Granulated Blast Furnace Slag Cement

##### Consent Quantity

1700000

##### Actual Quantity

1106621

##### UOM

MT/A

#### By-product Information

##### By Product Name

NA

##### Consent Quantity

0

##### Actual Quantity

0

##### UOM

MT/A

### Part-B (Water & Raw Material Consumption)



**1) Water Consumption in m3/day**

<b>Water Consumption for Process</b>	<b>Consent Quantity in m3/day</b>	<b>Actual Quantity in m3/day</b>
	0.00	0.00
<b>Cooling</b>	255.00	254.99
<b>Domestic</b>	20.00	19.98
<b>All others</b>	5.00	4.99
<b>Total</b>	280.00	279.96

**2) Effluent Generation in CMD / MLD**

<b>Particulars</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Trade effluent	0	0	CMD
Domestic effluent	14	11.5	CMD

**2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)**

<b>Name of Products (Production)</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
GGBS	0	0	
PSC	0	0	

**3) Raw Material Consumption (Consumption of raw material per unit of product)**

<b>Name of Raw Materials</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Granulated Slag for GGBS	1.00	1.00	Ton/Ton
Clinker for PSC	0.371	0.304	Ton/Ton
Granulated Slag for PSC	0.579	0.662	Ton/Ton
Chemical Gypsum	0.024	0.017	Ton/Ton
Anhydrite Gypsum	0.0267	0.017	Ton/Ton

**4) Fuel Consumption**

<b>Fuel Name</b>	<b>Consent quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Blast Furnace Gas	2376000	2330533	M3/Month
Coke Oven Gas	504000	3148.76	M3/Month
LDO/HSD	509700	66143	Ltr/A

**Part-C****Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)****[A] Water**

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged (Mg/Lit) Except PH,Temp,Colour Concentration</b>	<b>Percentage of variation from prescribed standards with reasons %variation</b>	<b>Standard</b>	<b>Reason</b>
Nil	0	0	Nil	Nil	Nil

**[B] Air (Stack)**

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged (Mg/NM3)</b>	<b>Percentage of variation from prescribed standards with reasons</b>
--------------------------	---	--	---

	Quantity	Concentration	%variation	Standard	Reason
TPM (VRM-1)	40.98	14.66	0	30	Good Control
TPM (VRM-2)	36.86	13	0	30	Good Control

#### Part-D

##### HAZARDOUS WASTES

###### 1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used or spent oil	0	0	MT/A

###### 2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	MT/A

#### Part-E

##### SOLID WASTES

###### 1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	0	0	MT/A

###### 2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	0	0	MT/A

###### 3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	MT/A

#### Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

##### 1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.1 Used or spent oil	0	MT/A	NA

##### 2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
NA	0	MT/A	NA

#### Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
-------------	---	--	--------------------------------	--------------------------------------	-----------------------------	-----------------------------------

Air Pollution	0	0	0	0	18.15	0
---------------	---	---	---	---	-------	---

#### Part-H

*Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.*

**[A] Investment made during the period of Environmental Statement**

<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
Power cost, Filter Bags and Cage cost	To control dust emission	648.91
Green Belt Development	To develop garden and plantation	2.92

**[B] Investment Proposed for next Year**

<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
Green Belt Development	Tree Plantation and Gardening	2.15

#### Part-I

*Any other particulars for improving the quality of the environment.*

**Particulars**

NA

**Name & Designation**

Manish Pujari- Unit Head (GM)

**UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000059446

**Submitted On:**

25-09-2023

(xxv iii)	The environment Clearance is being issued without prejudice to the court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him.	<b>Noted.</b>
4	The environment department reserves the right to revoke the clearance if the conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.	<b>Noted.</b>
5	<b>Validity of Environment Clearance:</b> The Environment Clearance accorded shall be valid for a period of 5 years to start of production operations.	<b>Noted.</b>
6	In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the conditions imposed and to incorporate additional environment protection measures required, if any.	<b>Noted.</b>
7	The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Waste (Management & Handling) Rules, 1989 and its amendments and the Public Liability Insurance Act, 1991 and its amendments.	<b>Noted and being Complied.</b>
8	Any appeal against this environment clearance shall lie with the National Environmental Appellate Authority, if preferred, within 30 days as prescribed under section 11 of the National Environmental Appellate Act, 1997.	<b>Noted.</b>

For JSW Cement Limited  
Authorized Signatory

  
**Manish Pujari**  
(Unit Head)