JSW Cement Limited

Village - Khar Karavi, P.O - Gadab,
Taluka-Pen, Dist. Raigad,
Maharashtra - 402 107
CIN - U26957MH2006PLC160839
Board : +91-2143-277-601/2/3
Fax: +91-2143 - 277-725

Date: 25th May 2023

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 14th 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 1st Oct 2022 to 31st Mar 2023 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

JSW Cement Limited

Manish Pujari
(Unit Head)

CC to RD CPCB Pune and RO Belapur

Half yearly Compliance Report (1st October 2022 to 31st March 2023)

JSW Cement Limited, Dolvi works

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

Name of Project	**:**	**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}**
Clearance letter No.	**:**	**No. SEAC-2010/CR.708/TC.2, Dated 14th June 2011**
Period of Compliance	**:**	**1st October 2022 to 31st March 2023**

A	**Specific Conditions**	
SI. No.	**CONDITIONS**	**COMPLIANCE STATUS**
(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_2 emission modelling submitted by project proponent as recommended by SEAC.	**Complied.** 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 SO2 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.	**Agreed.**
(iii)	No additional land shall be used / acquired for any activity of the project without obtaining proper permission.	**Agreed.**
(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.	**Complied.** 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 S02 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.	**Complied.** 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 & NOx in ambient air. Real-time data are transmitted to MPCB and CPCB. Monthly monitoring reports are submitted to MPCB on regular basis.  
(vi)	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge groundwater.	**Complied.** The project of rain water harvesting scheme is already completed.

		
(vii)	Arrangement shall be made that waste water and storm water do not get mixed.	**Complied.**
(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).	**Complied.** Periodic monitoring of groundwater is being done and report is submitted to the Board.
(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.	**Complied.** 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 aI1 sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 and Rules 1989.	**Complied.** 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, conocorpus, 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.	**Complied.** 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 14001 :2015 & ISO 45001:2018 based safety management system since 2015. The system is audited by internal as well as external auditors at periodic intervals.
(xüi)	Occupational health surveillance of workers shall be done on a regular basis and records maintained as per factories Act.	**Complied.** Regular health checkup of employees is done and records are maintained as per Factories Act.
(xiv)	The company shall make the arrangements for protection of possible fire hazards during manufacturing process in material handling.	**Complied.** Fire hydrant is installed throughout the plant. In addition, dedicated fire tender and firefighting team is available round the clock inside the plant premises. 
(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.	**Complied.** 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.
(xvi)	The company shall undertake following Waste Minimization Measures.	**Complied.** 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.	**Complied.** 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 : 27.06.2022 Time : 19:35

Venue: JSW CEMENT DOLVI UNIT Location: Main gate

Scenario: - Heavy Structure collapsed in 1.6 MTPA Project
Observer: - Mr. Nilesh Chaudhari – Shift Safety Incharge
Mr. Gajanan Rajhans – Security InCharge

Incident Description: For evaluation of emergency preparedness, we conducted emergency rehearsal at 19:35 at MAIN GATE (Assembly point). We had conducted an emergency rehearsal on assuming that a heavy structure is collapsed in the 1.6 MTPA project time in the "B" shift for checking of our emergency preparedness is in line with or not.
The observations made on emergency preparedness are as: -
What went well: -

Sr. No	Timing	Activities	Action
1	19:35	Emergency siren blown for 3 minutes	Inline
2	19:37	Informed to the security gate	Inline
3	19:38	Employees started to gather at main gate side assembly point	Inline
4	19:42	Emergency Vehicle reached at site	Inline
5	19:43	Wheelchair, stretcher ready at site	Inline
6	19:47	Head count of JSW employees and contractor employees (70)	Inline
7	19:48	Training imparted on "How to handle an accident situation, knowing the nature of accident, taking injured person to the hospital as soon as possible." by Mr. Gajanan Rajhans, Security & Mr. Nilesh Chaudhari, EHS	Inline
8	20:15	All clear Siren	Inline

Addressing Plant Personal

During the mock drill, we checked our emergency preparedness level and it's found satisfactory but there is some scope for further improvement. We closed this rehearsal followed by training on "How to handle a sudden emergency in a project work site".
Following points are discussed among the workmen during the emergency preparedness: -

- How to act during the emergency situation
- How can we have identified the emergency situation inside the plant premises
- What is the role and responsibilities of the rescue team?
- How to communicate during the emergency?
- How to identify that emergency situation is over (About all clear Siren Pattern)?

What went wrong: -

Sr.No.	Description	Action	Target Date for Action Plan
1	Without making noise employees were coming towards main gate assembly point	More awareness program to be arranged	01.07.2022
2	2-4 employees were not in active mood as they were found relaxed	More awareness program to be arranged	01.07.2022
3	2 no's our own employees and 5 associate employees were not reached at spot because he were engaged in plant operation.		01.07.2022

Note: - Total numbers of employees were presented in "B" shift : 55
Own employees – 10, Associates – 45
Total numbers of employees assembled at spot : 70
Own employees – 08, Associates – 40
Security – 08, Drivers- 12, others- 08
Number of employees not reached at spot :07

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

Manindra Nawtan
AGM
Safety & Environment
To"- All Concerned


LOGISTICS
SECURITY
JSW


JSW

(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.	**Noted.** 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.	**Noted.** 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.	**Complied.** 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 http://envis.maharashtra.gov.in.	**Complied.**
(xxii	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 1st June and 1st December of each calendar year.	**Complied.** 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.	**Complied.** EC letter can be accessed on our company website: https://www.jswcement.in/wp-content/uploads/2020/08/EC-of-1.70-MTPA-of-JSW-Cement-Dolvi.pdf

(xxv)	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. 1t 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, SO2 and NOx (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.	**Complied.** Online data for stack and ambient air are electronically displayed near the main factory entrance. 
(xxvi)	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.	**Complied.** Six monthly compliance reports are regularly sent to the respective regional office of the MoEF, the respective zonal office of CPCB and the SPCB.
(xxvi	The Environmental Statement of each financial year ending 31st 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.	**Complied.** 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.

Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2022

Unique Application Number	Submitted Date
MPCB-ENVIRONMENT_STATEMENT-0000046517	21-09-2022

PART A

Company Information

Company Name	Application UAN number	
JSW Cement Limited	NA	
Address		
Village-Khar Karavi, P.O-Gadab, Tal.-Pen, Dist.-Raigad		
Plot no	**Taluka**	**Village**
NA	Pen	Khar Karavi
Capital Investment (in lakhs)	**Scale**	**City**
21013	Large	Pen
Pincode	**Person Name**	**Designation**
402107	Manish Pujari	Unit-Head (GM)
Telephone Number	**Fax Number**	**Email**
9449598309	02143277725	manish.pujari@jsw.in
Region	**Industry Category**	**Industry Type**
SRO-Raigad II	Red	R26 Cement
Last Environmental statement submitted online	**Consent Number**	**Consent Issue Date**
yes	Format1.0/CAC/UAN No. MPCB-CONSENT-0000114682/CR-2110000929	2021-10-20
Consent Valid Upto	**Establishment Year**	**Date of last environment statement submitted**
2026-07-31	1999	Sep 20 2021 12:00:00:000AM
Industry Category Primary (STC Code) & Secondary (STC Code)		

Product Information

Product Name	Consent Quantity	Actual Quantity	UOM
Portland Slag Cement/Ground Granulated Blast Furnace Slag Cement	1700000	977854	MT/A

By-product Information

By Product Name	Consent Quantity	Actual Quantity	UOM
NA	0	0	MT/A

Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for	Consent Quantity in m3/day	Actual Quantity in m3/day
Process	0.00	0.00
Cooling	255.00	194.50
Domestic	20.00	17.50
All others	5.00	4.17
Total	280.00	216.17

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
BOD	30	21.25	MLD
COD	100	66.25	MLD
Suspended Solids	50	35.42	MLD

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

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
GGBS	.06	.07	
PSC	.06	.07	

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

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
Granulated Slag for GGBS	1.00	1.00	Ton/Ton
Clinker for PSC	0.374	0.371	Ton/Ton
Granulated Slag for PSC	0.584	0.579	Ton/Ton
Chemical Gypsum	0.0185	0.024	Ton/Ton
Anhydrite Gypsum	0.0227	0.0267	Ton/Ton

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Blast Furnace Gas for Grinding Mill	5950000	1196223	
Coke Oven Gas for Grinding Mill	8750	2970.5	
LDO/HSD for Grinding Mill	0.00022	0.000023	Ton/Y
Blast Furnace Gas for Cement Mill	8500000	568188.8	
Coke Oven Gas for Cement Mill	212500	30707.33	
LDO/HSD for Cement Mill	0.00022	0.000023	Ton/Y

Part-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

[A] Water

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

Nil	0	0	Nil	Nil	Nil

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/NM3)	Percentage of variation from prescribed standards with reasons		
	Quantity	Concentration	%variation	Standard	Reason
TPM (Grinding Mill)	39.72	30	41.93	30	Good Control
TPM (Cement Mill)	33.05	30	36.67	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	439.97	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

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Power cost, Filter Bags and Cage cost	To control dust emission	439.97
Green Belt Development	To develop garden and plantation	5.65

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Green Belt Development	Tree Plantation and Gardening	10

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-0000046517

Submitted On:
21-09-2022

(xxviii)	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.	**Noted.**
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.	**Noted.**
5	**Validity of Environment Clearance:** The Environment Clearance accorded shall be valid for a period of 5 years to start of production operations.	**Noted.**
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.	**Noted.**

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.	**Noted and being Complied.**
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.	**Noted.**

For JSW Cement Limited
Authorized Signatory

Manish Pujari
(Unit Head)

JSW Cement Limited