



**DATE: 28<sup>TH</sup> MAY 2022**

To,  
**Ministry of Environment Forest & Climate Changes**  
**Regional Office (WCZ)**  
**Ground Floor, East**  
**New Secretariat Building, Civil Lines**  
**Nagpur – 440 001**

**Sub:** Submission of 6 Monthly Compliance Report for Environment Clearance Condition  
For – **1. F. NO. IA-J-11011/499/2017- 1A. II (I) DATED 2 FEB 2018 &**  
**2. NO. SEAC – 2010/CR.708/TC.2, Dated 14.06.2011** Of M/S JSW Cement Limited  
Located Geetapuram Dolvi PEN Dist. Raigad Maharashtra 402107.

Dear Sir,

Kind Attention: Mr Suresh Kumar Adapa  
Scientist – D

With above subject we are submitting the six monthly compliance report for environment clearance conditions with the required annexure for the period of 1<sup>ST</sup> Oct 2021 TO 31<sup>TH</sup> Mar 2022.

Hope the above documents/ information are in order.

Thanking You

Yours Faithfully,  
**For JSW Cement Limited**

**Sanjay Jadhav**

★ (Unit Head - Sr. VP)

Compliance Report of Environment Clearance  
Conditions  
JSW Cement Limited - Dolvi formerly known  
as M/s Heidelberg Cement Limited

Project Code: Yet not allotted

NAME OF THE PROJECT:

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)

MOEF LETTER No. & DATE:

No. SEAC-2010/CR.708/TC.2, dated 14-06-2011

PERIOD OF COMPLIANCE REPORT:

01<sup>st</sup> Oct, 2021 to 31<sup>st</sup> Mar, 2022

**Note: The project was implemented and commissioned in March 2016.**

Sl. No.	SPECIFIC CONDITIONS	COMPLIANCE
3		
(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.	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.	Noted and agreed
(iii)	No additional land shall be used / acquired for any activity of the project without obtaining proper permission.	Noted and 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.	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.	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.

(vi)	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge groundwater.	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.	Storm water drains are separated from waste water drains.
(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).	Periodic monitoring of groundwater is being done at regular intervals and report is submitted to the Board. The Report of the same is attached as an Annexure#1
(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.	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.	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 selection of plant species and in consultation with the local DFO/ Agriculture Department.	Greenbelt is being developed along the periphery and also in vacant areas of plant. CPCB guidelines being followed.
(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.	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.
(xiii)	Occupational health surveillance of workers shall be done on a regular basis and records maintained as per factories Act.	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.	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.	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.	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.	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.
(xviii)	A separate environment management cell with qualified shall be set up for implementation of stipulated environmental safeguards.	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.	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.	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.	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> .	Complied
(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.	6 monthly compliance reports of EC as prescribed 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: <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)	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.	Noted and complied.  Online data for stack and ambient air are electronically displayed near the main factory entrance.
(xxv i)	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.	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 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.	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. The Environment Statement in Form V is attached an <b>Annexure#2</b>
(xxvii i)	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 and agreed.
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 and agreed.
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.	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 and agreed.
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 agreed.
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 and agreed.

**For JSW Cement Limited**

  
Sanjay Jadhav

X Unit Head

Annexure - 1

ULR-TC550921000017006P

TEST REPORT

Sample ID : W/10/21/0280	Report No. W/10/21/0280	Report Date	25/10/2021
Name and address of Customer	JSW Cement Ltd. Dolvi Unit : Village Kharkaravi, Post Gadab, Tal. Pen, Dist. Raigad - 402107. Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Water <i>Ground water</i>
Sampling Location	Opposite Central Store	Date - Sampling	16/10/2021
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	18/10/2021
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed.,2017,1060 B,1-40	Date - Start of Analysis	18/10/2021
Order Reference	Work Order No. JSWCL/DOLVI/20-21/7700013192 Dated: 12.11.2020	Date - Completion of Analysis	25/10/2021

Sr.No.	Parameter	Result	Acceptable Limit as per IS 10500:2012	Unit	Method
<b>Chemical Testing; Group: Water, Subgroup: Ground Water</b>					
<b>Physical &amp; Chemical Parameters</b>					
1	Temperature	30	-	°C	IS 3025 (Part 9):1984
2	pH value	6.58	6-5-8.5	-	IS 3025 (Part 10):1983
3	Biochemical Oxygen Demand (3 days, 27°C)	373	Not specified	mg/L	IS 3025 (Part 44):1993, Amds.1
4	Chemical Oxygen Demand	940	Not specified	mg/L	APHA, 23rd Ed., 2017, 5220-B, 5-18
5	Total Suspended Solids	68	Not specified	mg/L	IS 3025 (Part 17):1984, Amds.1
6	Copper (as Cu)	<0.02	Max.0.05	mg/L	IS 3025(Part 2):2004 /ISO 11885:1996
7	Iron (as Fe)	1.18	Max. 1.0	mg/L	IS 3025 (Part 2): 2004, / ISO 11885:1996
8	Manganese (as Mn)	3.12	Max.0.1	mg/L	IS 3025 (Part 2): 2004, /ISO 11885:1996
9	Nitrate (as NO <sub>3</sub> )	7.7	Max. 45	mg/L	IAPHA, 23rd Ed., 2017, 4500-NO3 B-4-127
10	Sulphate as (SO <sub>4</sub> )	2106	Max. 200	mg/L	IS 3025 (Part 24):1986
11	Zinc (as Zn)	<0.05	Max.5	mg/L	IS 3025(Part 2):2004/ISO 11885:1996
12	Cadmium (as Cd)	<0.002	Max.0.003	mg/L	IS 3025 (Part 2): 2004, /ISO 11885:1996
13	Lead (as Pb)	<0.008	Max.0.01	mg/L	IS 3025 (Part 2): 2004, RA 104/ISO 11885:1996
14	Chromium (Total) (as Cr)	<0.02	Max 0.05	mg/L	IS 3025 (Part 2):2004/ ISO 11885:1996

Note: Sample ID W/10/21/280 bears two Test Reports - W/10/21/280 and W/10/21/280N

Ninad Soundankar  
Technical Manager (Chemical)  
Reviewed & Authorised by



Note:

1. The result listed refer only to the tested sample(s) and applicable parameter(s).
2. This report is not to be reproduced except in full, without written approval of the laboratory.
3. In case sampling is not done by laboratory, the results apply to the sample as received.
4. There are no additions to, deviations or exclusions from the method.

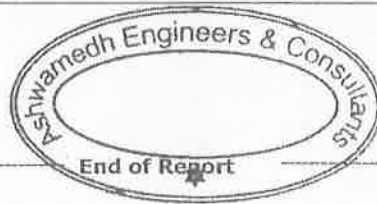


**TEST REPORT**

Sample ID : W/10/21/0280	Report No. W/10/21/0280N	Report Date	25/10/2021
Name and address of Customer	JSW Cement Ltd. Dolvi Unit : Village Kharkaravi, Post Gadab, Tal. Pen, Dist. Raigad - 402107. Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Water
Sampling Location	Opposite Central Store	Date - Sampling	16/10/2021
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	18/10/2021
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed.,2017,1060 B,1-40	Date - Start of Analysis	18/10/2021
Order Reference	Work Order No. JSWCL/DOLVI/20-21/7700013192 Dated; 12.11.2020	Date - Completion of Analysis	25/10/2021

Sr.No.	Parameter	Result	Acceptable Limit as per IS 10500:2012	Unit	Method
<b>Chemical Testing; Group: Water, Subgroup: Ground Water</b>					
<b>Physical &amp; Chemical Parameters</b>					
1	Electrical Conductivity (at 25°C)	<b>85500</b>	Not Specified	µmho/cm	IS 3025(Part 14):1984.
2	Total Dissolved Solids	<b>47800</b>	Max.500	mg/L	IS 3025 (Part 16):1984.
3	Chloride (as Cl)	<b>35988</b>	Max. 250	mg/L	IS 3025 (Part 32):1988.
4	Total Hardness (as CaCO <sub>3</sub> )	<b>13400</b>	Max.200	mg/L	IS 3025 (Part 21):1983.
Note: Sample ID W/10/21/280 bears two Test Reports - W/10/21/280 and W/10/21/280N					

  
Ninad Soundankar  
Technical Manager (Chemical)  
Reviewed & Authorised by



**Note:**

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# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

ANNEXURE 2

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000035819

### Submitted Date

20-09-2021

## PART A

### Company Information

#### Company Name

JSW Cement Limited

#### Application UAN number

NA

#### Address

Village-Khar Karavi, Poss-Gadab, Tal-Pen, Dist-Raigad

#### Plot no

NA

#### Taluka

Pen

#### Village

Khar Karavi

#### Capital Investment (In lakhs)

15906

#### Scale

Large

#### City

pen

#### Pincode

402107

#### Person Name

Manish Pujari

#### Designation

Head-Operation

#### Telephone Number

9449598309

#### Fax Number

02143277725

#### Email

cementdolvi.office@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.0000091972/CR-2008001080

#### Consent Issue Date

28/08/2020

#### Consent Valid Upto

31/07/2021

#### Establishment Year

1999

#### Date of last environment statement submitted

Aug 6 2020 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 Actual Quantity UOM

1700000 507492.58 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

Water Consumption for

Consent Quantity in m3/day

Actual Quantity in m3/day

Process	0	0
Cooling	255	89.79
Domestic	20	10.88
All others	5	4.37
<b>Total</b>	<b>280</b>	<b>105.04</b>

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

Particulars	Consent Quantity	Actual Quantity	UOM
BOD	30	27.05	MLD
COD	100	80.00	MLD
Suspended Solids	50	67.25	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	0.10	0.06	KL/A
PSC	0.10	0.06	KL/A

**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	0.379	0.374	Ton/Ton
Granulated Slag for PSC	0.579	0.584	Ton/Ton
Chemical Gypsum	0.0272	0.0185	Ton/Ton
Anhydrite Gypsum	0.0180	0.0227	Ton/Ton

**4) Fuel Consumption**

Fuel Name	Consent quantity	Actual Quantity	UOM
Blast Furnace Gas	3300	980	CMD
HSD	182.5	6.696	KL/A

**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) Quantity	Concentration of Pollutants discharged (Mg/NM3) Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
SPM	32.95	10	6.67	150	Better 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	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	0.0	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	350.923	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>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Power cost, Filter Bags, Cage cost.	To control dust emission.	350.923
Green Belt Development.	To Develop Garden & Plantation	4.86

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

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Green Belt Development.	Tree Plantation & Gardening.	5.50

**Part-I**

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

**Particulars**

NA

**Name & Designation**

Manish Pujari, Operation Head (AGM)

**UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000035819

**Submitted On:**

20-09-2021

# Compliance Report of Environment Clearance Conditions

Name of the Project: 10 MTPA Slag & Clinker Grinding Unit, JSW Cement Ltd. located at Geethapuram, Village Dolvi, Tal: Pen, District Raigad, Maharashtra  
MoEF&CC Environment Clearance Letter- F. No IA-J-11011/499/2017-IA.II(I) dated 2<sup>nd</sup> February 2018  
**Period 1<sup>st</sup> Oct'21 to 31<sup>st</sup> Mar 2022**  
Project Code: JDEX-002

Sl. No	Conditions	Compliance
1 3 A	<b>Specific Conditions</b>	
i	The project proponent should install 24x7 air and water monitoring devices to monitor air emission and effluent discharge, as provided by CPCB and submit report to Ministry and its Regional Office.	<p>JSW Cement plant is established within JSW Steel complex where five numbers of CAAQMS 24x7 are installed at the periphery of the steel complex and these are connected to CPCB &amp; MPCB servers.</p> <p>In addition, JSWCL has also installed 2 nos of CAAQMS in the existing cement plant premises with connectivity to CPCB &amp; MPCB. These analyzers also measure the ambient air quality of new unit which is in close proximity to the existing plant.</p> <p>We have installed online continuous emission monitoring system (OCEMS) in the cement mill stacks. OCEMS has been connected to CPCB &amp; MPCB servers for online data transmission.</p> <p>Online effluent monitoring is not applicable for cement plants as per CPCB guidelines.</p> <p>Monitoring reports are being regularly submitted to the Ministry, CPCB and also to its Regional office.</p>

ii	The PP should ensure treatment of effluent from cement plant.	There is no effluent generation from the cement manufacturing process. However, an ETP of 31 KLD capacity is installed for treating cooling water blow down coming from the Equipment cooling.
iii	The commitment made by the PP for plantation of the green belt over 33% of project area should be expedited. Three rows of green belt, 12- 15 meters wide, all along the periphery of the plant should be planted.	We have started green belt development along the periphery of the plant will comply to the stated requirement.
iv	The CSR plan as submitted by the PP in the area of health care, rural infrastructure development, education, sports and cultural activity, Swachh Bharat Abhiyan with respect to the earlier projects and the ongoing project at Dolvi site are very slow in implementation. The CSR activities should be implemented expeditiously and simultaneously with the implementation of the project, and annual report on CSR activity should be submitted to the Ministry.	The EC has been transferred from M/s JSW Steel Limited and as per point No. 8 of the EC letter F.No. J-11011/76/2013- IA.II(I), dated 23-01-2018, implementation of ESC and CSR shall be the responsibility of the JSW Steel Ltd., the parent company. Annual report on CSR shall be submitted to the Ministry by M/s JSW Steel Ltd.
v	At least 5% of the total cost of the project should be earmarked towards the Enterprise Social Commitment (ESC) based on local needs. The proponent should prepare a detailed CSR Plan for every next 5 years for the existing-cum-expansion project, which includes village-wise, sector- wise (Health, Education, Sanitation, Health, Skill Development and infrastructure requirements such as strengthening of village roads, avenue plantation, etc) activities in consultation with the local communities and administration. The CSR Plan will include the amount of 2% retain annual profits as provided for in Clause 135 of the Companies Act, 2013 which provides for 2% of the average net profits of previous 3 years towards CSR activities for life of the project. A separate budget head should be created and the annual capital and revenue expenditure on various activities of the Plan should be submitted as part of the Compliance Report to RO, at Bhopal. The details of the CSR Plan should also be uploaded on the company website and should also be provided in the Annual Report of the company.	<p>The EC has been transferred from M/s JSW Steel Limited and as per point No. 8 of the EC letter F.No. J-11011/76/2013- IA.II(I), dated 23-01-2018, implementation of ESC and CSR shall be the responsibility of the JSW Steel Ltd., the parent company. Annual report on CSR shall be submitted to the Ministry by M/s JSW Steel Ltd.</p> <p>Copy of the above referred letter is enclosed as <b>Annexure-1</b></p>

xi	<p>On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks should be provided and sufficient air pollution control devices. Gaseous emission levels including secondary fugitive emissions from all the sources should be controlled within the latest permissible limits issued by the Ministry vide G.S.R. 414(E) dated 30th May, 2008 and regularly monitored. Guidelines / Code of Practice issued by the CPCB should be followed.</p>	<p>JSW Cement plant is established within JSW Steel complex where five numbers of CAAQMS 24x7 are installed at the periphery of the steel complex and these are connected to CPCB &amp; MPCB servers.</p> <p>In addition, JSWCL has also installed 2 nos of CAAQMS in the existing cement plant premises with connectivity to CPCB &amp; MPCB. These analyzers also measure the ambient air quality of new unit which is in close proximity to the existing plant.</p> <p>We have installed online continuous emission monitoring system (OCEMS) in the cement mill stack.</p> <p>Emissions from all the sources will be maintained below the prescribed norms. Guidelines/code of practice issued by the CPCB will be followed in our plant.</p>
xii	<p>Dust suppression system and bag filters should be installed to control the fugitive dust emissions at conveyor and transfer points, product handling, loading and unloading points.</p>	<p>For dust suppression, regular water sprinkling is done through water tanker in unpaved areas to control fugitive emission in the premises. Slag contains around 10-12% moisture and hence no dust is generated during its handling and transportation.</p> <p>Details of bag filters installed at conveyors and material transfer points, product handling, loading and unloading points is given in <b>Annexure-2</b></p> <p style="text-align: center;">4</p>
xiii	<p>Water consumption should not exceed as per the CREP standard prescribed for the steel plants. Additional water, if any, required for the plant project operations. Should be met from rainwater stored in rainwater harvesting structures.</p>	<p>This specific condition is applicable for Steel plant. We are complying with the CREP standard as applicable for cement industry. The compliance status of CREP is attached as <b>Annexure#3</b></p>

vi	No development should be done on the creek-ward side of the land. Land area between HTL to 100 mts or width of the creek, whichever is less, on the landward side should be kept free from any type of development.	Complied. We have not carried out any development work on the creek ward side of the land.
vii	Full utilization of BF slag should be implemented. The details should be submitted along with 6 monthly compliance reports.	Noted and Agreed. BF Slag generated by JSW Steel from 01-10-2021 to 31-03-2022 = 972002.204MT BF Slag consumed by JSW Cement from 01-10-2021 to 31-03-2022 = 803705.084MT
viii	No waste water will be discharged outside the plant boundary during normal operation. In case it become necessary to discharge effluent meeting norms fit to the marine environment, permission of the relevant authority should be obtained.	No waste water is being discharged outside the plant boundary. Even after, there is no effluent generation from the cement manufacturing process. However, an ETP of 31 KLD capacity is installed for treating cooling water blow down coming from the Equipment cooling. In addition to this we have a STP of 39 LKD capacity to treat domestic sewage.
ix	No untreated effluent should be reused for any process.	Noted and agreed.
x	Measures should be taken to reduce PM levels in the ambient air. Stack of adequate height & diameter with continuous stack monitoring facilities for all the stacks should be provided and sufficient air pollution control devices viz. Electrostatic precipitator (ESP), bag house, bag filters etc. should be provided to keep the emission levels below 50 mg/Nm <sup>3</sup> and installing energy efficient technologies in the Plant	We have taken various measures for reducing PM levels in the ambient air: a) Silos for storage of clinker & cement b) Covered belt conveyors and covered shed for storage of gypsum c) Concrete paved roads for vehicle movement d) Cement Mill is equipped with Pulse Bag House and chimney with 48 mtr height and 3.5 mtr diameter e) Bag filters at all the material transfer points. The bag house and bag filters are designed to meet the outlet emission standards < 30 mg/Nm <sup>3</sup> Installed online continuous emission monitoring system (OCEMS) in the cement mill stack. Latest technology energy efficient equipment has been provided to conserve energy to the extent possible.



xxii	All the permanent workers should be covered under ESI Scheme. The company should have the provision for treatment of its workers at the local Nursing Homes & Hospitals in case of emergency. Annual Medical Checkup on some medical parameters like Blood test, Chest X-Ray, Eye test, Audiometric, Spirometry etc. should be conducted amongst the employees of the Company.	Noted and being complied. Occupational Health Centre (OHC) is available within the steel plant complex with 24x7 ambulance facility availability at the cement plant to meet any medical emergency. In addition to this, we have Sanjavini Hospital run by JSW group to meet any medical emergencies.
13 B	<b>General Conditions</b>	
i	The project authorities must strictly adhere to the stipulations made by the Maharashtra Pollution Control Board and the State Government.	We are strictly adhering to the stipulation made by MPCB and state government.
ii	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change (MoEFCC).	Noted and complied
iii	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM10, PM2.5, SO2 and NOx are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Nagpur and the SPCB/CPCB once in six months.	We are carrying out ambient air quality monitoring at four locations in the downward direction. The data of our ambient air quality & stack emission are regularly submitted to authorities during its six monthly compliance reporting.
IV	Industrial waste water shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	Noted and complied We have a STP of capacity 50CMD to treat waste water and treated water is being used for gardening as well as water sprinkling on the road for dust suppression purpose.
v	The overall noise levels in and around the plant area shall be kept well within the standards (85 dB A) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz, 75 dBA (day time) and 70 dBA (night time).	We have installed acoustic barrier around high noise generation equipment's, silencers and regular preventive maintenance of the equipment's to minimize the noise generation Ambient noise level maintained within the prescribed norms.

xiv	Rainwater harvesting scheme should be prepared so that the rainwater can be collected, re-used and may be used for ground water recharge. The concrete drains should be de-silted and regular supervision of the areas should be carried out so that blocking of drains may be avoided for quick discharge of rainwater. Efforts should further be made to use maximum water from the rain water harvesting sources. If needed, capacity of the reservoir should be enhanced to meet the maximum water requirement	Rainwater harvesting has been implemented for groundwater recharge. Concrete drains are desilted before monsoon.
xv	All the effluents should be treated and reused for dust suppression/ green belt development. No effluent should be discharged and 'zero' discharge should be adopted.	There is no effluent generation from the cement Manufacturing process. However, an ETP was installed for treating cooling water blow down coming from the Equipment cooling.
xvi	Full utilization of fly ash should be ensured as per Fly Ash Notification, 1999 and subsequent amendment in 2003 and 2010. All the fly ash should be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding should be submitted to the Ministry's Regional Office at Bhopal.	Noted. We shall comply with the condition whenever we start using fly ash.
xvii	Hazardous materials required during construction phase and in plant operations should be stored properly as per the regulations and reused/recycled as per the E(P)A Rules.	Noted and complied
xviii	Vehicles and construction machinery are properly maintained to minimize the exhaust emission as well as noise generation to meet prescribed standards.	Noted and complied
xix	Risk and Disaster Management Plan along with the mitigation measures should be prepared and implemented.	Risk & Disaster management plan has been prepared with mitigation measures and the same has been implemented.
xx	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants should be implemented.	We are complying with all the recommendations of the Charter on Corporate Responsibility (CREP) for Environment Protection applicable for cement plants/ cement grinding units.
xxi	All the commitments made to the public during public hearing/public consultation Should be satisfactorily implemented and adequate budget provision should be made accordingly.	All the commitments made to the public during the PH are being complied by JSW Steel.

Xi	<p>The project proponent shall upload the status of compliance of the stipulated environment clearance 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 the MOEFCC at Nagpur. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM10 SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.</p>	<p>We are uploading the compliance report on our company website and shall periodically update the same. Six monthly compliance reports are submitted to all the concerned regulatory authorities on regular basis as stipulated.</p> <p>Display board at the main gate for displaying the monitored parameters for public is installed.</p>
Xii	<p>The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by-mail) to the Regional, Office of MOEFCC, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bangalore / CPCB SPCB shall monitor the stipulated conditions.</p>	<p>Six monthly compliance reports are submitted to all the concerned regulatory authorities on regular basis as stipulated.</p>
Xiii	<p>The environmental statement for 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 environmental conditions and shall also be sent to the respective Regional Office of the MOEFCC at Nagpur by e-mail</p>	<p>Environment statement for this financial year will be submitted before 30<sup>th</sup> Sept, 2022 to MoEF and MPCB as prescribed.</p> <p>Environment statement of last financial year is attached herewith as an <b>Annexure#5</b></p>

vi	Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	We are carrying out occupational health surveillance of the workers on regular basis and the record shall be maintained as per the factory act requirement.
vii	The company should develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	We have already developed rain water harvesting structures to harvest the rain water and same is being utilized in lean season besides recharging the ground water table.
viii	The project proponent should also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply and health care etc.	All the environmental protection measures as recommended in the EIA/EMP are duly complied. We will continuously implement various CSR programs as per the CSR plan in association with JSW Steel, the parent company.
ix	Requisite funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change (MoEFCC) as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Nagpur. The funds so provided shall not be diverted for any other purpose.	We have earmarked INR 55 Crore and INR 2.5 crore towards capital cost & recurring cost/annum respectively for environment protection and pollution control measures for 10 MTPA cement project. However, presently, we have installed only 1.2 MTPA capacity plant for which INR 8.0 Crore and INR 1.00 crore has been earmarked for capital and recurring expenditures respectively. Till now, we have spent INR 7.52 Crore as capital expenditure towards implementation of EMP. Item wise breakup of EMP budget is given in <b>Annexure#4</b> . These funds shall not be diverted for any other purpose.
x	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body 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 web site of the company by the proponent.	Copy of the Environment clearance letter has been uploaded on our company website and can be seen at the below link: <a href="https://www.jswcement.in/wp-content/uploads/2020/08/EC-transfer-10.0-MTPA-to-JSW-Cement-Dolvi.pdf">https://www.jswcement.in/wp-content/uploads/2020/08/EC-transfer-10.0-MTPA-to-JSW-Cement-Dolvi.pdf</a>

xv	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Date of financial closure: 31 <sup>st</sup> March 2021 Date of final approval: 20 <sup>th</sup> December 2016 Date of commencement of land development work: 10 <sup>th</sup> January 2017
14	M/s JSW Cement limited shall abide by all the commitments and recommendations made in the EIA/EMP report and that during presentation to the EAC; commitments made during the Public hearing held on 28.01.2014 for Integrated Steel Plant.	Noted and will be complied
15	The Ministry may revoke or suspend the clearance, If implementation of any of the above conditions is not satisfactory.	Noted and agreed
16	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions	Noted and agreed
17	The PP shall ensure no change in the pollution load; and no conflict in sharing in common facilities in day to day operations	Noted and agreed
18	All the liabilities regarding environmental issues of slag and clinker grinding unit will be the responsibility of the new company i.e. M/s JSW Cement Ltd.	Noted and agreed
19	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Noted and agreed
20	This Environmental Clearance is partial modification of the J-11011/76/2013-IA II (I) dated 25 <sup>th</sup> August 2015.	Noted
21	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted

  
 For JSW Cement Limited,  
 Sanjay Jadhav

X Unit Head

xiv	<p>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 SPCB and may also be seen at Website of the Ministry of Environment, Forest and Climate Change (MOEFCC) at <a href="http://envfor.nic.in">http://envfor.nic.in</a>. This shall 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 should be forwarded to the Regional office at Nagpur.</p>	<p>As stipulated, we have uploaded copy of the Environment clearance on our company website. <a href="https://www.iswcement.in/wp-content/uploads/2020/08/EC-transfer-of-10.0-MTPA-to-JSW-Cement-Dolvi.pdf">https://www.iswcement.in/wp-content/uploads/2020/08/EC-transfer-of-10.0-MTPA-to-JSW-Cement-Dolvi.pdf</a> We have advertised our Environment Clearance in local newspapers (i.e. Krushival &amp; Free Press Journal) which are widely circulated in the region and copy of the same was submitted to Regional office, MoEF&amp;CC.</p>
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Environment Clearance of JSW Steel

F. «o, J-i ko1k76ç aOis-iA.11tlj Government  
of India  
Ministry of Environment, Forest and Climate Change  
(Impact Assessment Division)

Indim Paryavaran Bhawan  
Jnr Bagh Road, Aligarj,  
NrwDe1hi-11D003 E-  
met:shamth.Edwin Td:011-  
24695819

Dated: 23a January, 2018

To

The President,  
M/a JSW Steel Ltd, Geetapuram,  
Dolvi, Taluka: Pen,  
District: Raigad, Maharashtra 402107

Tel: {02143J '24G000/2467000/277501-15: Faxi {02143J 277583-42

**Subject: Expansion of Integrated Steel Plant (5 MTPA to 10 MTPA) and Gas Based Power Plant (300 MW to 600 MW) at Geethapuram, Village Dolvi, Tehsil Pen, District Raigad in Maharashtra by M/s JSW Steel Limited-AsimndmentieEowMoxmextsiCammocsw#pma**

This has reference to your online pmposal no. IA/KH/ERDF4t0BS/00IB dated 15a January, 201b; £h) mD f IBPTI/OtflR, dated 10'• August YOU and your communications dated 8'• February 2017; R3'• Stay 20 ¥7; 22'•• June 2017; 90\* July 2017; and 2'•• November 2017 for partial transfer of 1.0 MTPA Coke-Oven Plant and 2.5 MTPA 'Coke-Oven including by-product plant' to M/a Dolvi Coke Project Limited and 10 MTPA Slag & Clinker Grinding unit to M/a JSW Cement Limited respectively from M/e JSW Steel limited.

1.0 The Environmental Clearance to the expansion project of Integrated Steel plant from 3.0 MTPA to 5.0 MTPA at Village Dolvi, Taluka Pen, District Raigad in Maharashtra was accorded vide letter J-11011/166/2011-IA-II (I) dated 21a November 2012 to M/a JSW Steel Ltd and further expansion of its project up to 10 MTPA was accorded environmental clearance vide letter U-11011/76/2013-IA II (1) dated 15\* August 2015.

2.0 The project was considered in the Expert Appraisal Committee (Industry-IJ) in its 19<sup>th</sup> meeting held during 8\* - 9\* June 2017; 30<sup>th</sup> meeting held during 10<sup>th</sup> - 11\* July 2017 and 21<sup>st</sup> meeting held during 10\* - 11a August, 2017.

4.0 After detailed deliberation, the committee recommended for the transfer of 1.0 MTPA Coke-Oven Plant and 2.5 MTPA Coke-Oven including by-product plant' to M/a Dolvi Coke Project Limited (new company) and 10 MTPA Slag & Clinker Grinding unit to M/a JSW Cement Limited (new company) from M/s JSW Steel Limited (parent company) with specific and general conditions which are agreed by project proponent during the MAC meeting.

5.0 The Ministry of Environment, Forest and Climate Change, based on the recommendations of the Expert Appraisal Committee (Industry-IJ), decided to transfer the Environmental Clearance of 1.0 MTPA Coke-Oven Plant and 2.5 MTPA Coke-Oven including by-product plant' to M/a Dolvi Coke Project Limited (new company) and 10 MTPA Slag & Clinker Grinding unit to M/a JSW Cement Limited (new company) from M/e JSW Steel Limited (parent company) located at Geethapuram, Village Dolvi, Tehsil Pen, District Raigad in Maharashtra under clause 11 of EIA Notification, 2006 and subsequent amendments.

## Annexure-2

JSW Cement Ltd., Dolvi, 1.2 MTPA Cement Grinding Unit						
DETAILS OF AIR POLLUTION CONTROL EQUIPMENTS						
S.No.	Bag Filter No.	Capacity flow (M3/Hr)	Dust handled	Qty in Nos.	Area	
1	581 BH1 Bag House	297000	Cement	1		
2	582 BH1 Bag House	297000	Cement	1		
3	531BF1	10000	cement	1	Cement Mill Area	
4	531BF2	8000	cement	1		
5	531BF3	12000	clinker	1		
6	531BF4	18000	cement	1		
7	551BF1	25000	cement	1		
8	552BF1	25000	cement	1		
9	551BF2	8000	clinker	1		
10	552BF2	8000	clinker	1		
11	591BF2	10000	cement	1		
12	531BF1A	8000	cement	1		
13	531BF1B	8000	cement	1		
14	591BF1	5000	cement	1		
15	471BF02	6000	Clinker	1		Material Handling
16	151BF01, 151BF02, 481BF03, 481BF04	8000	Clinker	4		
17	481BF01, 481BF02	12000	Clinker	2		
18	481BF05	19500	Clinker	1		
19	471BF01	31500	Clinker	1		
20	531 WS1 Water Spray System	NA	Dust	1		
			<b>Total</b>	<b>22</b>		



## Corporate Responsibility for Environmental Protection (CREP) Compliance Report

S. No	Conditions	Compliance
1	Cement Plants, which are not complying* with notified standards, shall do the following to meet the standards: <ul style="list-style-type: none"> <li>• Augmentation of existing Air Pollution Control Devices — by July 2003</li> <li>• Replacement of existing Air Pollution Control Devices — by July 2004</li> </ul>	We have installed air pollution control devices to control the stack particulate emissions below 30 mg/Nm <sup>3</sup>
2	Cement Plants located in critically polluted or urban areas (including 5 km distance outside urban boundary) will meet 100 mg/Nm <sup>3</sup> limit of particulate matter by December 2004 and continue working to reduce the emission of particulate matter to 50 mg/Nm <sup>3</sup> .	Not Applicable
3	The new cement kilns to be accorded NOC/Environmental Clearance w.e.f. 01.04.2003 will meet the limit of 50 mg/Nm <sup>3</sup> for particulate matter emissions.	We shall maintain the particulate emissions below 30 mg/Nm <sup>3</sup>
4	CPCB will evolve load based standards by December 2003.	Not Applicable. As our plant is standalone grinding unit.
5	CPCB and NCBM will evolve SO <sub>2</sub> and NO <sub>x</sub> emission standards by June 2004.	Not Applicable. As our plant is standalone grinding unit.
6	The Cement industries will control fugitive emissions from all the raw material and products storage and transfer points by December 2003. However, the feasibility for the control of fugitive emissions from limestone and coal storage areas will be decided by the National Task Force (NTF). The NTF shall submit its recommendations within three months.	The following measures have undertaken to control fugitive emission from different sources: <ol style="list-style-type: none"> <li>1. All the transfer points are provided with Bag Filters with adequate extraction volume.</li> <li>2. Plant roads/ approach roads and open areas in between different sections of plant are made up of bitumen/concrete and will be regularly swept.</li> <li>3. Covered sheds are provided for storage of Clinker and Gypsum</li> <li>4. Regular preventive maintenance of pollution control equipment and good housekeeping within the premises</li> </ol>
7	CPCB, NCBM, BIS and Oil refineries will jointly prepare the policy on use of petroleum coke as fuel in cement kiln by July 2003.	Not Applicable. As our plant is standalone grinding unit.

8	After performance evaluation of various types of continuous monitoring equipment and feedback from the industries and equipment manufacturers, NTF will decide feasible unit operations/sections for installation of continuous monitoring equipment. The industry will install the continuous monitoring systems (CMS) by December 2003.	Continuous dust monitoring system provided in cement mill stack for measuring particulate emissions.
9	Trippings in kiln ESP to be minimized by July 2003 as per the recommendation of NTF.	Not applicable. As our plant is standalone grinding unit.
10	Industries will submit the target date to enhance the utilization of waste material by April 2003.	Plant is designed for PSC, PPC, CC and GGBS production and currently we are utilizing slag which is an industrial by-product from steel plants.
11	NCBM will carry out a study on hazardous waste utilization in cement kiln by December 2003.	Not Applicable. As our plant is standalone grinding unit.
12	Cement industries will carry out feasibility study and submit target dates to CPCB for co-generation of power by July 2003.	Not applicable. As our plant is standalone grinding unit.

EMP BUDGET ANNEXURE 4		
SR NO	EQUIPEMENT	COST
1	BAG HOUSE	3700000
2	BAG HOUSE	298800
3	BAG HOUSE	1612000
4	MH BAG FILTERS	69120
5	COST OF POWER CONSUMPTION ON APC EQUIPEMENTS	113457594
	TOTAL	119137514



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

ANNEXURE 5

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

**Unique Application Number**

MPCB-ENVIRONMENT\_STATEMENT-0000036406

**Submitted Date**

23-09-2021

## PART A

### Company Information

**Company Name**

JSW Cement Limited (Clinker Grinding Cement Unit)

**Application UAN number**

NA

**Address**

95,96,98, Village-Khar Karavi, PO-Gadab, Taluka- Pen, District-Raigad, Pin-402107

**Plot no**

NA

**Taluka**

Pen

**Village**

Khar Karavi

**Capital Investment (In lakhs)**

23084

**Scale**

Large

**City**

Pen

**Pincode**

402107

**Person Name**

Mr. Manish Pujari

**Designation**

Head - Opeartion

**Telephone Number**

9449598309

**Fax Number**

02143277725

**Email**

cementdolvi.office@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.  
0000106885/CR-2107000771

**Consent Issue Date**

2021-07-14

**Consent Valid Upto**

2022-03-31

**Establishment Year**

2018

**Date of last environment statement submitted**

Aug 6 2020 12:00:00:000AM

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

### Product Information

**Product Name**

Ordinary Portland Cement (OPC)

**Consent Quantity**

360000

**Actual Quantity**

200884

**UOM**

Ton/Y

Portland Pozzolana Cement (PPC)

40000

0

Ton/Y

Composite Cement (CC)

40000

0

Ton/Y

Ground Granulated Blast Furnace Slag (GGBFS)

500000

437002

Ton/Y

Portland Slag Cement (PSC)

260000

251000

Ton/Y

By-product information

<b>By Product Name</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
NA	0	0	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	0
<b>Cooling</b>	890	159.62
<b>Domestic</b>	15	19.34
<b>All others</b>	10	7.77
<b>Total</b>	915	186.73000000000002

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

<b>Particulars</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
oil and Grease	10	1	MLD
BOD (3 Days 27 degree centigrade)	30	27.05	MLD
Total Suspended Solids	100	67.25	MLD
COD	250	80	MLD

**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>
Ordinary Portland Cement (OPC)	.07	.065	
Portland Pozzolana Cement (PPC)	0	0	
Composite Cement	0	0	
Ground Granulated Blast Furnace Slag (GGBS)	.07	.065	
Portland Slag Cement (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	0.379	0.375	Ton/Ton
Granulated Slag for PSC	0.579	0.584	Ton/Ton
Chemical Gypsum for PSC	0.018	0.0185	Ton/Ton
Anhydrite Gypsum for PSC	0.0180	0.0227	Ton/Ton
Natural Gypsum	0.0003	0	Ton/Ton
Clinker for OPC	0.916	0.858	Ton/Ton
Slag for OPC	0.048	0.098	Ton/Ton
Chemical Gypsum for OPC	0.016	0.0204	Ton/Ton
Anhydrite Gypsum for OPC	0.020	0.0232	Ton/Ton

#### 4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
LDO/Blast Furnace Gas/Coke Oven Gas	650000	42391.682	CMD

#### 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) Quantity	Concentration of Pollutants discharged(Mg/NM3) Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
SPM	46.39	10	33.33	30	Better 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	398.57	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, Cage Cost	To control dust emission	398.57
Green Belt Development	To develop garden & Plantation	4.86

**[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	6.50

**Part-I**

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

**Particulars**

NA

**Name & Designation**

Mr. Manish Pujari - Operation Head (AGM)

**UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000036406

**Submitted On:**

23-09-2021