

Date: 25<sup>th</sup> 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: F No IA-J-11011/499/2017- 1A. II (I) dated 2 February 2018**

**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 2022 to 31<sup>st</sup> 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

**Manish Pujari  
(Unit Head)**

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

**Half yearly Compliance Report (1<sup>st</sup> October 2022 to 31<sup>st</sup> March 2023)**



**JSW Cement Limited, Dolvi works**

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

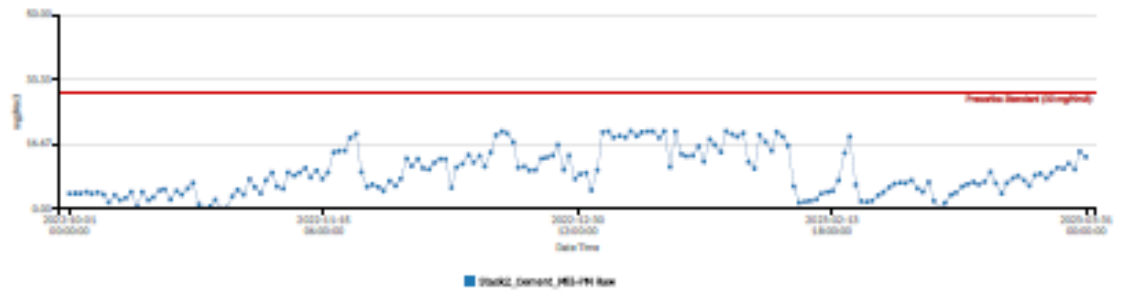
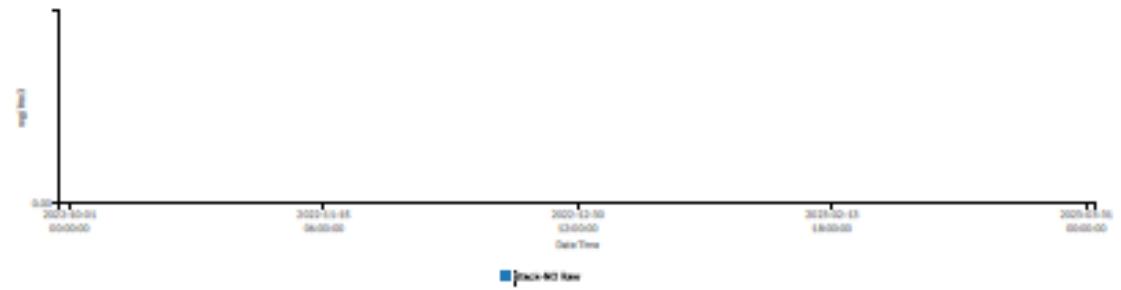
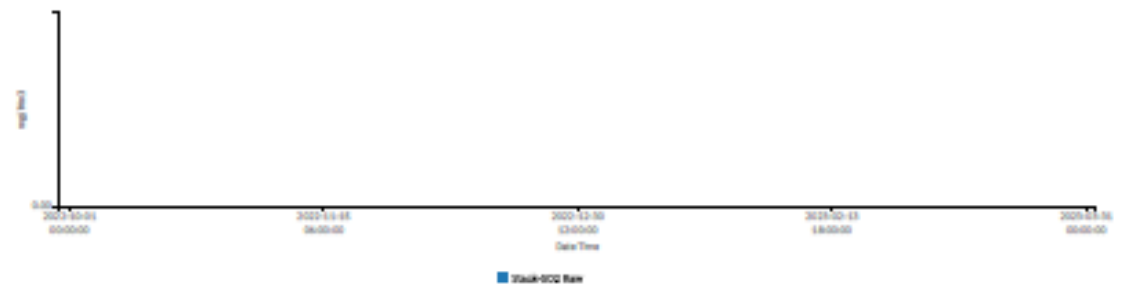
<b>Name of Project</b>	:	<b>Environmental Clearance for the 10 MTPA Slag &amp; Clinker Grinding Unit, JSW Cement Ltd. located at Geethapuram, Village Dolvi, Tal: Pen, District Raigad, Maharashtra.</b>
<b>Clearance letter No.</b>	:	<b>F. No IA-J-11011/499/2017-IA.II(I) dated 2<sup>nd</sup> February 2018</b>
<b>Period of Compliance</b>	:	<b>1st October 2022 to 31st March 2023</b>
<b>A</b>	<b>Specific Conditions</b>	
<b>Sl. No</b>	<b>Conditions</b>	<b>Compliance Status</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><b>Complied.</b></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 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>

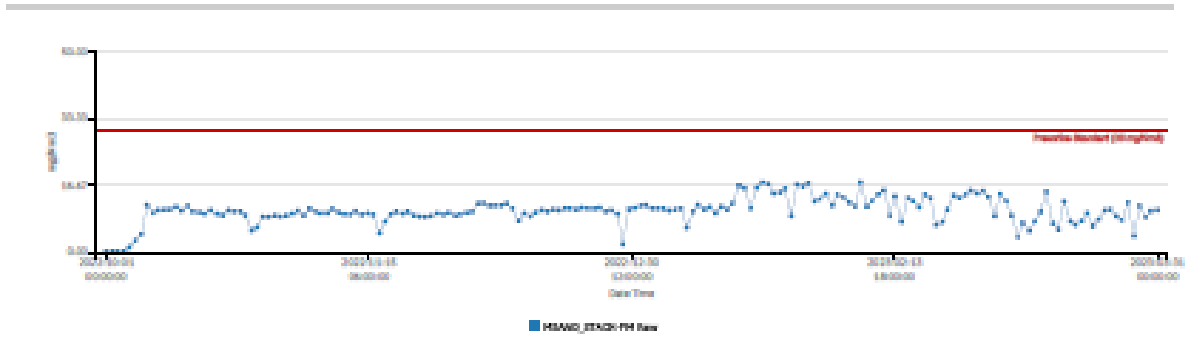
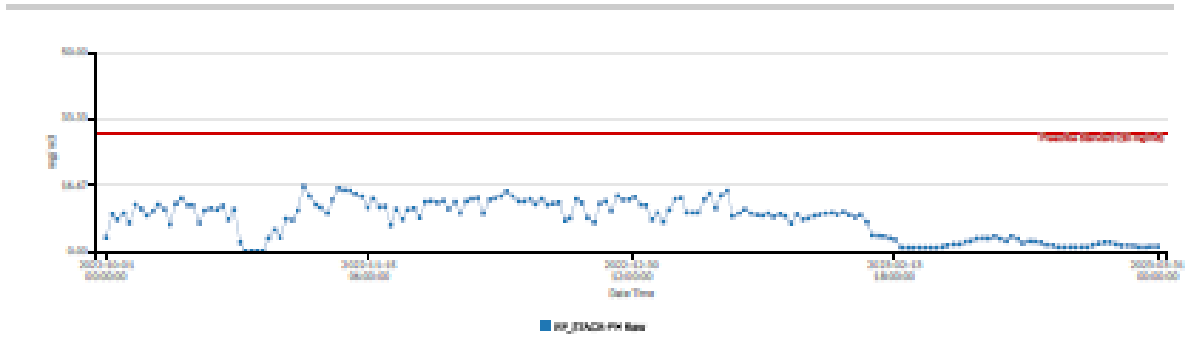


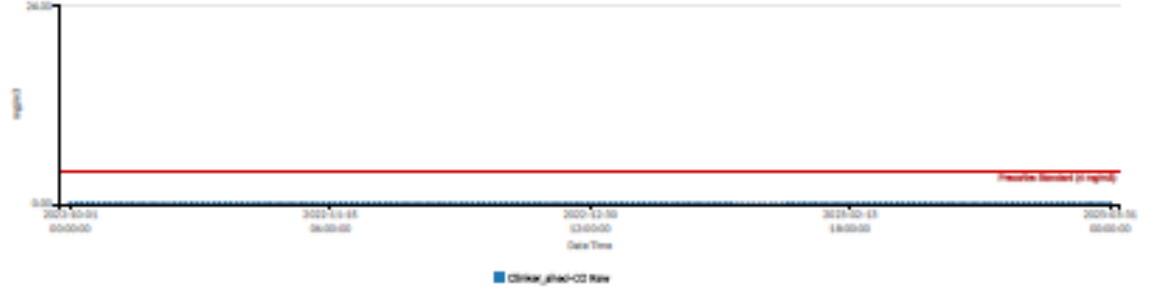
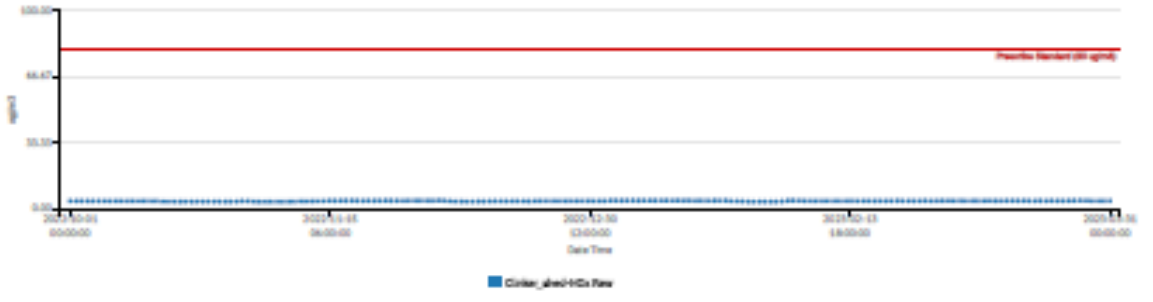
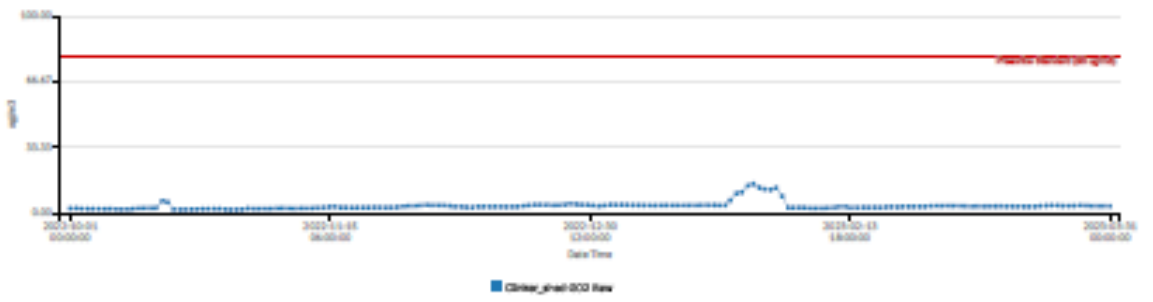
### Custom Report

SiteName: JSW CEMENT LTD. Kharkaravi

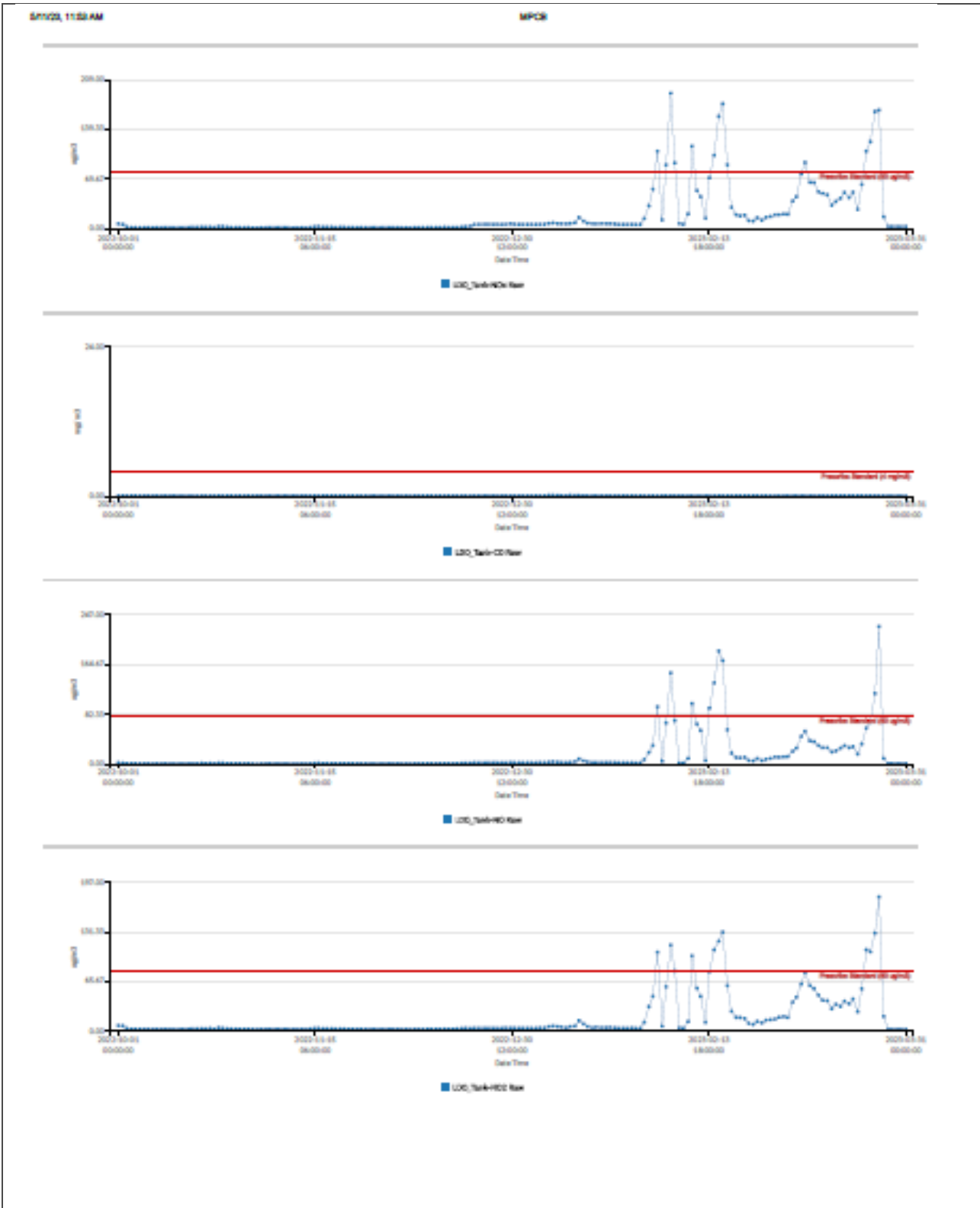
Created by: JSWKM, Created On: 11/05/2023











**Showing Online continuous emission monitoring system graph**

ii	The PP should ensure treatment of effluent from cement plant.	<b>Complied.</b> There is no effluent generation from the cement manufacturing process.
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.



		<p style="text-align: center;"><b>Species planted</b></p> <p>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,k aranj,acacia,palas,chiku,sweet apple, bakulla, rain tree, niva, neelgiri, cykash, jamun, banana, suru, conocarpus, papaya</p>  <p>Latitude: 18.681578 Longitude: 73.039297 Elevation: 26.14±19 m Accuracy: 15.6 m Time: 05-18-2023 11:51 Note: Greenbelt Powered by NoteCam</p>  <p>Latitude: 18.681404 Longitude: 73.039315 Elevation: 26.14±21 m Accuracy: 19.4 m Time: 05-18-2023 11:46 Note: Greenbelt Powered by NoteCam</p>  <p>Latitude: 18.681377 Longitude: 73.038969 Elevation: 39.54±6 m Accuracy: 21.0 m Time: 05-18-2023 11:44 Note: Greenbelt Powered by NoteCam</p>
iv	<p>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</p>	<p><b>Complied.</b></p> <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>

	implementation of the project, and annual report on CSR activity should be submitted to the Ministry.	
v	<p>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>	<p><b>Complied.</b> The ECHas been transferred from M/sJSW 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</p>

Environment Clearance of JSW Steel

F. No. J-11011/76/2013-IA-II(I)  
Government of India  
Ministry of Environment, Forest and Climate Change  
(Impact Assessment Division)

Indira Paryavaran Bhawan  
Jor Bagh Road, Aliganj,  
New Delhi - 110003  
E-mail: sharath.kr@gov.in  
Tel: 011-24695319

Dated: 23<sup>rd</sup> January, 2018

To  
The President,  
M/s JSW Steel Ltd,  
Geetapuram, Dolvi, Taluka: Pen,  
District: Raigad, Maharashtra 402107  
Tel: (02143) 246000/2467000/277501-15; Fax: (02143) 277533-42

**Subject: Expansion of Integrated Steel Plant (5 MTPA to 10 MTPA) and Gas Based Power Plant (300 MW to 600 MW) at Geetapuram, Village Dolvi, Tehsil Pen, District Raigad in Maharashtra by M/s JSW Steel Limited - Amendment in Environmental Clearance regarding.**

Sir,

This has reference to your online proposal no. IA/MH/IND/41055/2015 dated 15<sup>th</sup> January, 2016; IA/MH/IND/18771/2012, dated 10<sup>th</sup> August 2016 and your communications dated 8<sup>th</sup> February 2017; 23<sup>rd</sup> May 2017; 22<sup>nd</sup> June 2017; 20<sup>th</sup> July 2017; and 2<sup>nd</sup> November 2017 for partial transfer of 1.0 MTPA Coke-Oven Plant and 2.5 MTPA 'Coke-Oven including by-product plant' to M/s Dolvi Coke Projects Limited and 10 MTPA Slag & Clinker Grinding unit to M/s JSW Cement Limited respectively from M/s JSW Steel Limited.

2.0 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 21<sup>st</sup> November 2012 to M/s JSW Steel Ltd and further expansion of its project up to 10 MTPA was accorded environmental clearance vide letter J-11011/76/2013-IA II (I) dated 25<sup>th</sup> August 2015.

3.0 The proposal was considered in the Expert Appraisal Committee (Industry-I) in its 19<sup>th</sup> meeting held during 8<sup>th</sup> - 9<sup>th</sup> June 2017; 20<sup>th</sup> meeting held during 10<sup>th</sup> - 11<sup>th</sup> July 2017 and 21<sup>st</sup> meeting held during 10<sup>th</sup> - 11<sup>th</sup> August, 2017.

4.0 After detailed deliberations, 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/s Dolvi Coke Projects Limited (new company) and 10 MTPA Slag & Clinker Grinding unit to M/s 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 EAC meeting.

5.0 The Ministry of Environment, Forest and Climate Change, based on the recommendations of the Expert Appraisal Committee (Industry-I), 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/s Dolvi Coke Projects Limited (new company) and 10 MTPA Slag & Clinker Grinding unit to M/s JSW Cement Limited (new company) from M/s JSW Steel Limited (parent company) located at Geetapuram, Village Dolvi, Tehsil Pen, District Raigad in Maharashtra under clause 11 of EIA Notification, 2006 and subsequent amendments.

6.0 The environmental clearance vide letter no. J-11011/76/2013-IA.II(f) dated 25<sup>th</sup> August 2015 will be henceforth exclusive of 1.0 MTPA Coke-Oven Plant; 2.5 MTPA Coke-Oven including by product plant; and 10 MTPA Slag & Clinker Grinding unit.

7.0 All the conditions stipulated in environmental clearance vide letter no. J-11011/76/2013-IA.II(f) dated 25<sup>th</sup> August 2015 will be remain unchanged.


8.0 Implementation of the Enterprises Social Responsibility (ESR) and CSR; no change in the pollution load; and no conflict in sharing in common facilities in day to day operations shall be responsibility of the parent company i.e. JSW Steel Limited.

9.0 The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

10.0 This letter is issued in partial modification of the J-11011/76/2013-IA.II(f) dated 25<sup>th</sup> August 2015.


11.0 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.


This issues with the approval of Competent Authority.

  
(Sharath Kumar Palleria)  
Scientist 'F' / Director

**Copy to:-**

1. **The Secretary**, Department of Environment, Govt. of Maharashtra, Mantralaya, Mumbai.
2. **The Secretary**, Department of Forests, Govt. of Maharashtra, Mantralaya, Mumbai
3. **The Additional Principal Chief Conservator of Forests**, Regional Office (WCZ), Ministry of Environment, Forest and Climate Change, Nagpur
4. **The Chairman**, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office complex, East Arjun Nagar, New Delhi-1100032.
5. **The Member Secretary**, Central Ground Water Authority, A-2, W3, Curzon Road Barracks, K.G. Marg, New Delhi-110001.
6. **The Chairman**, Maharashtra Pollution Control Board, Kalpatru Point, Sion Circle, Sion (East), Mumbai-400 022, Maharashtra.
7. **The District Collector**, Raigad District, Maharashtra.
8. **Guard File / Record file / Monitoring file.**
9. **MOEF&CC Website.**

  
(Sharath Kumar Palleria)  
Scientist 'F'/Director

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.	<p><b>Complied.</b> We have not carried out any development work on the creek ward side of the land.</p>
vii	Full utilization of BF slag should be implemented. The details should be submitted along with 6 monthly compliance reports.	<p><b>Complied.</b> BF Slag generated by JSW Steel from 01-10-2022 to 31-03-2023 = 943937 MT BF Slag consumed by JSW Cement from 01-10-2022 to 31-03-2023 = 948085 MT</p>
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.	<p><b>Complied.</b> No waste water is being discharged outside the plant boundary. There is no effluent generation from the cement manufacturing process. However, we have a STP of 50 CMD capacity to treat domestic sewage.</p>
ix	No untreated effluent should be reused for any process.	<p><b>Complied.</b></p>
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	<p><b>Complied.</b> We have taken various measures for reducing PM levels in the ambient air:</p> <ul style="list-style-type: none"> <li>a) Silos for storage of clinker &amp; cement</li> <li>b) Covered belt conveyors and covered shed for storage of gypsum</li> <li>c) Concrete paved roads for vehicle movement</li> <li>d) Cement Mill is equipped with Pulse Bag House and chimney with 48 mtr height and 3.5 mtr diameter</li> <li>e) Bag filters at all the material transfer points. The bag house and bag filters are designed to meet the outlet emission standards &lt; 30 mg/Nm<sup>3</sup></li> </ul> <p>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.</p> <p style="text-align: center;"><b>b) Covered belt conveyors</b></p>  <p><small>Latitude: 18.691969 Longitude: 73.038513 Elevation: 95.54+9 m Accuracy: 17.8 m Time: 05-18-2023 11:41 Note: Covered Belt Conveyors Covered Belt Conveyors</small></p>



e) Bag house



Xi 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.

**Complied.**  
 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 & MPCB servers.  
 In addition, JSWCL has also installed 2 nos of CAAQMS in the existing cement plant premises with connectivity to CPCB & MPCB. These analyzers also measure the ambient air quality of new unit which is in close proximity to the



existing plant.  
We have installed online continuous emission monitoring system (OCEMS) in the cement mill stack.  
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.

### AAQMS STATION 1



### AAQMS STATION 2



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><b>Complied.</b></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</p>  
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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>		


xiii	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.	<b>Complied.</b> 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
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**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: • Augmentation of existing Air Pollution Control Devices — by July 2003 • Replacement of existing Air Pollution Control Devices — by July 2004	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: 1. All the transfer points are provided with Bag Filters with adequate extraction volume. 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. 3. Covered sheds are provided for storage of Clinker and Gypsum 4. Regular preventive maintenance of pollution control equipment and good housekeeping within the premises
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.

xiv	<p>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</p>	<p><b>Complied.</b> Rainwater harvesting has been implemented for groundwater recharge. Concrete drains are desilted before monsoon.</p> <p style="text-align: center;"><b>RAINWATER HARVESTING</b></p> 
xv	<p>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.</p>	<p><b>Complied.</b> 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.</p>
xvi	<p>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.</p>	<p><b>Noted.</b> We shall comply with the condition whenever we start using fly ash.</p>
xvii	<p>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.</p>	<p><b>Complied.</b></p>
xviii	<p>Vehicles and construction machinery are properly maintained to minimize the exhaust emission as well as noise generation to meet prescribed standards.</p>	<p><b>Complied.</b></p>
xix	<p>Risk and Disaster Management Plan along with the mitigation measures should be prepared and implemented.</p>	<p><b>Complied.</b> Risk &amp; Disaster management plan has been prepared with mitigation measures and the same has been implemented.</p>

xx	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants should be implemented.	<b>Complied.</b> 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.	<b>Complied.</b> All the commitments made to the public during the PH are being complied by JSW Steel.
xxii	All the permanent workers should be covered under ESIScheme. 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.	<b>Complied.</b> 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 Sanjeevani Hospital run by JSW group to meet any medical emergencies.
<b>B</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.	<b>Agreed.</b> 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).	<b>Agreed.</b>
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.	<b>Complied.</b> We are carrying out ambient air quality monitoring at four locations in the downward direction. The data of four 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.	<b>Complied.</b> We have a STP of capacity 50CMD to treat domestic waste water and treated water is being used for gardening as well as water sprinkling on the road for dust suppression purpose.
		<p style="text-align: center;"><b>STP</b></p>  <p>Latitude: 13.63264 Longitude: 73.118596 Elevation: 26.449 m Accuracy: 17.2 m Time: 2019-02-23 11:24 Name: STP</p>

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 (daytime) and 70 dBA (night time).	<b>Complied.</b>  Ambient noise level maintained within the prescribed norms .
vi	Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	<b>Complied.</b> 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.	<b>Complied.</b> 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.
<div style="display: flex; justify-content: space-between; align-items: center;"> <div data-bbox="268 824 805 898">  <p><b>VIVAAN WATER &amp; ENVIRO SOLUTIONS PVT. LTD.</b> CONSULTANTS : RAINWATER HARVESTING &amp; WATER MANAGEMENT</p> </div> <div data-bbox="853 824 1193 898"> <p>Head Office: Planet Industrial Premises C. S. Ltd., 205 B Wing, 2nd Floor, Subhash Road, Opp. SBI Bank, Vile Parle (East), Mumbai- 400 057 Tel: 02240298842 M : +91 9892702228 / +91 9867344735 Email : vivaanwatersolutions@gmail.com Website: www.vivaanwatersolutions.com</p> </div> </div> <p style="text-align: right; margin-right: 100px;">21/05/2021</p> <p>To, JSW Cement Limited Dolvi Unit, Village - Khar Karavi, PO - Gadab, Tal.-Pen, Raigad, Maharashtra -402107</p> <p>Sub: Certificate for Completion of implementation of Rooftop Rain Water Harvesting System of Admin Building of M/s JSW Cement Limited, Dolvi Unit, Village -Khar, Karavi, Tal. - Pen, Dist. - Raigad-402107, Maharashtra.</p> <p>Dear Sir,</p> <p>This is to certify that Roof Top Rain Water Harvesting System designed by us for Admin Building of M/s JSW Cement Limited, Dolvi Unit, Village, Khar, Karavi, Tal. - Pen, Dist. - Raigad-402107, Maharashtra has been successfully implemented as shown in the attached plan</p> <p>Please accept completion certificate for the same.</p> <p>Thanking You, Yours truly,</p> <p>For, M/s Vivaan Water &amp; Enviro Solutions Pvt. Ltd.  Nirav Saraiya</p> 		
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.	<b>Complied.</b> 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	<p>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.</p>	<p><b>Complied.</b> We have earmarked INR 55 Crore and INR 2.5 crore towards capital cost &amp; 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 below. These funds shall not be diverted for any other purpose.</p> <table border="1" data-bbox="911 651 1516 1025"> <thead> <tr> <th>SR NO</th> <th>LOCATION</th> <th>COST</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ROLLER PRESS</td> <td>3700000</td> </tr> <tr> <td>2</td> <td>VERTICAL ROLLER MILL 02</td> <td>298800</td> </tr> <tr> <td>3</td> <td>M SAND</td> <td>1612000</td> </tr> <tr> <td>4</td> <td>MATERIAL HANDLING</td> <td>69120</td> </tr> <tr> <td></td> <td></td> <td><b>5679920</b></td> </tr> </tbody> </table>	SR NO	LOCATION	COST	1	ROLLER PRESS	3700000	2	VERTICAL ROLLER MILL 02	298800	3	M SAND	1612000	4	MATERIAL HANDLING	69120			<b>5679920</b>
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x	<p>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.</p>	<p><b>Complied.</b> 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></p>																		
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 S02, 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><b>Complied.</b> 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. Display board at the main gate for displaying the monitored parameters for public is installed.</p>  <p>Latitude: 18.681526 Longitude: 73.639446 Elevation: 26.24113 m Accuracy: 7.5 m Time: 25-10-2023 11:49 Note: Display board</p>																		

Xii	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.	<b>Complied.</b> Six monthly compliance reports are submitted to all the concerned regulatory authorities on regular basis as stipulated.
Xiii	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	<b>Complied.</b> Environment statement for this financial year will be submitted before 30 <sup>th</sup> Sept, 2023 to MPCB as prescribed. Environment statement of last financial year is attached.



**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

MPCB-ENVIRONMENT\_STATEMENT-0000042591

Submitted Date

20-06-2022

**PART A**

Company Information

**Company Name**

JSW Cement Limited

**Application UAN number**

NA

**Address**

JSW Cement Limited, (Slag Sand /Manufactured Sand(M Sand))Unit, 95/1, 95/1, Khar Karavi, Po. Gadab, Tal. Pen., Dist- Raigad

**Plot no**

95/1, 95/1

**Taluka**

Pen

**Village**

Khar Karavi

**Capital Investment (In lakhs)**

1990.00

**Scale**

RED/L.S.I.(R26)

**City**

Pen

**Pincode**

402107

**Person Name**

Mr. Sanjay Jadhav

**Designation**

Unit Head

**Telephone Number**

02143277601

**Fax Number**

**Email**

sanjay.jadhav@jsw.in

**Region**

SRO-Raigad II

**Industry Category**

Red

**Industry Type**

R26 Cement

**Last Environmental statement submitted online**

no

**Consent Number**

Format1.0\CAC\UAN No.0000102838\CO-2107000772

**Consent Issue Date**

2021-07-14

**Consent Valid Upto**

2022-06-30

**Establishment Year**

2020

**Date of last environment statement submitted**

Jun 20 2022 12:00:00:000AM

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

Product Information

**Product Name**

Slag Sand([Manufactured Sand(M Sand)])

**Consent Quantity**

1000000

**Actual Quantity**

33512.37

**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>
Cooling	5.00	4.00
Domestic	1.00	0.80
All others	0.00	0.00
<b>Total</b>	<b>6.00</b>	<b>4.80</b>

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

<b>Particulars</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Suspended Solids	50	33.67	MLD
BOD 3 Days 27Degree C	30	21.25	MLD
COD	100	66.25	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>
Slag Sand/(Manufactured Sand (M Sand))	0	33512.37	MT/A

#### 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>
Slag	0	35185	MT/A

#### 4) Fuel Consumption

<b>Fuel Name</b>	<b>Consent quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
COG	468	423.84	CMD

### **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) Quantity</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) Quantity</b>	<b>Concentration of Pollutants discharged(Mg/MM3) Concentration</b>	<b>Percentage of variation from prescribed standards with reasons %variation</b>	<b>Standard</b>	<b>Reason</b>
TPM	0.27	1	3.33	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	30	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 (Lacs)
---	-----------------------------------	---------------------------

Power cost , Filter Bags ,Cage cost	To control dust emission	30
Green Belt Development	To develop Garden & Plantation	2.5

**(B) Investment Proposed for next Year**

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Green Belt Development	Tree Plantation & Gardening	4.5
REcurring Expenditure	To Maintenance Cost	5.0

**Part-I**

Any other particulars for improving the quality of the environment.

Particulars

NA

Name & Designation

Mr. Sanjay Jadhav -Unit Head

UAN No:

MPCB-ENVIRONMENT\_STATEMENT-0000042591

Submitted On:

20-06-2022

xiv	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.	<b>Complied.</b> 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 & Free Press Journal) which are widely circulated in the region and copy of the same was submitted to Regional office, MoEF&CC.
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.	<b>Complied.</b> 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.	<b>Noted and being complied.</b>
15	The Ministry may revoke or suspend the clearance, If implementation of any of the above conditions is not satisfactory.	<b>Agreed.</b>

16	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions	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	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.	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.	Agreed.
20	This Environmental Clearance is partial modification of the J-11011/76/2013-IA II (I) dated 25 <sup>th</sup> August 2015.	Agreed.
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.	Agreed.



**JSW Cement Limited**

Village - Khar Karavi, PO - Gadab,  
Tahsil-Pen, Dist. Raigad,  
Maharashtra - 420 107  
CIN - U25997MH-0200PLC160839  
Board - +91-2143-277-601/2/3  
Fax - +91-2143 - 277-726

12<sup>th</sup> May 2022

JSWCL/Dolvi-1.2 MTPA/ CTO/MPCB/2020/3

To,  
The CAC Cell,  
Maharashtra Pollution Control Board,  
Kalpataru Point, 3<sup>rd</sup> Floor,  
Near Cine Planet, Sion Circle,  
Sion East, Mumbai -400022

SUB: - Compliance status of Hon'ble National Green Tribunal (NGT) order dated 04.03.202 in the matter of OA No. 165 Of 2020 (Pb) [Earlier OA No. 122 Of 2015 (W2) titled as Samita Rajendra Patil Vs Jindal Steel Works Ltd., & Ors. regarding air pollution, slag disposal, mangrove cutting etc.

Ref: - E-mail towards Application for renewal of consent in respect of M/s JSW Cement Limited, VIII-Khar Karavi, PO - Gadab, Tal - Pen, Dist - Raigad. UAN-0000130421

Dear Sir,

Please find the compliance status of above cited subject matter: -

**Measures for Air Pollution Control:**

JSW Cement Ltd is committed to provide a pollution free environment to the society at large as part of Company's Corporate Environment Responsibility. We have been taking all the measures as stipulated in the Environment Clearance as well as Consent orders of the Board. In the background of the reference cited above we are herewith furnishing the measures implemented by JSW Cement for prevention and control of air pollution:

1. High efficiency Bag Houses in Cement Mill/ Slag Mills designed to control stack particulate emissions below 30 mg/Nm<sup>3</sup> .... List of Pollution Control Equipment attached
2. Bag filters are installed at all material transfer points. The dust collected in the bag filters is automatically recycled in the system.
3. Regular water sprinkling on roads and unpaved areas for dust suppression
4. All internal roads are concreted
5. All the conveyors and transfer point hoods are covered with GI sheets
6. Clinker, Fly Ash, GGBS and cement are stored in concrete silos
7. Online monitoring of Stack and ambient air quality emissions
8. JSW Cement is using cleaner fuels (Coke Oven Gas/ BF Gas) for slag drying and hence no gaseous emissions such SO<sub>2</sub> and NO<sub>x</sub> are generated from the cement manufacturing process.



Part of O. P. Jindal Group

Regd. Office: JSW Centre,  
Bandra Kurla Complex,  
Bandra (E), Mumbai - 400 051  
Phone : +91 22 42861000  
Fax : +91 22 42863000



Village - Khar Karvi, P.O - Gadob,  
Taluka-Pen, Dist. Raigad,  
Maharashtra - 402 107  
CIN - L25057MH2006PLC160839  
Board : +91-2143-277-801/03  
Fax: +91-2143 - 277-725

With all the above measures, the stack emission as well as ambient air quality are well within the norms and the same is evidenced from the online as well as 3<sup>rd</sup> party monitoring reports.

**Slag Disposal:**

JSW Cement, across the country has over the period focused its activities on production of green cements considering the need for Climate Change initiatives. In addition to production of eco-friendly Portland Slag, Pozzolana Cement and GGBS, the company has taken several new initiatives like manufacture of composite cements, M-Sand as alternative to river sand in order to utilize the waste generated from steel plants /power plants thus helping in scientific disposal of the wastes such as BF Slag and Fly Ash.

The entire BF Slag of JSW Steel, Dolvi is utilized by JSW Cement in the production of value added eco-friendly products such as Portland Slag Cement, GGBS and M-Sand. (Environmental Statement Attached)

**Mangrove Cutting:**

The cement plant premises do not fall in the Coastal Regulation Zone (CRZ) as evident from the map authenticated by the National Centre for Sustainable Coastal Management (NCSCM), Chennai as attached as Annexure-1.

Yours Faithfully  
For JSW Cement Limited

Sanjay Jadhav  
Authorized Signatory

Enclosed: - Pollution Control Equipment list  
Environmental Statement  
Coastal Regulation Zone (CRZ)



Part of O. P. Jindal Group

Regd. Office: JSW Centre,  
Bandra Kurla Complex,  
Bandra (E), Mumbai - 400 051  
Phone : +91 22 42861500  
Fax : +91 22 42863000

For JSW Cement Limited  
Authorized Signatory

**Manish Pujari**  
**(Unit Head)**