



JSW Cement Limited

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PLC180838

Date: 25th April 2019

To,

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

Subject: Submission of 6 monthly Compliance report for Environment Clearance condition for F No IA-J-11011/499/2017-1A.II(I) dated 2 Feb 2018 & No SEAC-2010/CR.708.TC.2, dated 14.06.2011 of Mls JSW Cement Limited located at Geetapuram, Village Dolvi, Tehsil Pen District Raigad Maharashtra.

Dear Sir,

Kind Attention: Mr Suresh Kumar Adapa
Scientist — D

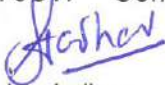
With above subject we are sumitting the 6 monhtly Compliance report for Environment Clearance condition with the required Annexures.

Period 1st Oct 2018 to 31st Mar 2019

Hope the above documents/information are in order

Thanking You

Your Truly
For JSW Cement Limited


Sanjay Jadhav
(Vice President)



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Compliance Report of Environment Clearance Conditions

<p>Name of the Project: 10MTPA Slag & Clinker Grinding Unit, JSW Cement Ltd. located at Geethapuram, Village Dolvi, Tehsil Pen, District Raigad, Maharashtra MoEF&CC Environment Clearance Letter- F.No IA-J-11011/499/2017-IA.II(I)dated 2nd February 2018 Period 1st Oct 2018 to 31st March 2019</p>		<p>Project Code: Yet not allotted</p>
S.No	Conditions	Compliance
13 A	<p>Specific Conditions</p> <p>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>	<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 & MPCB servers.</p> <p>In addition, JSWCL has also installed 2 nos of CAAQMS in the existing cement plant premises with connectivity to CPCB & MPCB. These analyzers will also measure the ambient air quality of new unit which is in close proximity to the existing plant.</p> <p>Installed online continuous emission monitoring system (OCEMS) in the cement mill stack. OCEMS will be connected to CPCB & 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 will be regularly submitted to the Ministry, CPCB and also to its Regional office, after commencement of the plant.</p> <p>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>
	<p>The PP should ensure treatment of effluent from Cement plant.</p>	

iii	<p>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.</p>	Noted & Agreed.
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 implementation of the project, and annual report on CSR activity should be submitted to the Ministry.</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>
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 296 retain annual profits as provided for in Clause 135 of the Companies Act, 2013 which provides for 296 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 Nagpur. 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>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 Annexure-1</p>
vi	<p>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>	Noted & Agreed.

vii	Full utilization of BF slag should be implemented. The details should be submitted along with 6 monthly compliance reports.	Noted and Agreed.
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.	Noted and Agreed.
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 ³ and installing energy efficient technologies in the Plant	<p>We have taken various measures for reducing PM levels in the ambient air:</p> <ol style="list-style-type: none"> Concrete silos for storage of clinker & cement Covered belt conveyors and covered shed for storage of gypsum Concrete paved roads for vehicle movement Cement Mill is equipped with Pulse Bag House and chimney with 48 mtr height and 3.5 mtr diameter Bag filters at all the material transfer points. The bag house and bag filters are designed to meet the outlet emission standards < 30 mg/Nm³ <p>Installed online continuous emission monitoring system (OCEMS) in the cement mill stack.</p> <p>Latest technology energy efficient equipment has been provided to conserve energy to the extent possible.</p>
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	<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 & MPCB servers.</p> <p>In addition, JSWCL has also installed 2 nos of CAAQMS in the existing cement plant premises with connectivity to CPCB &</p>

		<p>MPCB. These analyzers will also measure the ambient air quality of new unit which is in close proximity to the existing plant.</p> <p>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> <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 are given in the attached Annexure XXXX.</p> <p>This specific condition is applicable for Steel plant.</p>
xii	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	
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	
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 scheme shall be implemented after commissioning of the project. Efforts shall be made to reuse the harvested water for plantation and dust suppression.

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.	Noted & Agreed.
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
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 will be implemented in due course.
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 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	Noted and will be complied by JSW Steel.
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, Audiometry, Spirometry etc. should be conducted amongst the employees of the Company	Noted and will be complied. Hospital services are available within the steel plant complex. Ambulance is available 24x7 at the cement plant to meet any medical emergency.

13 B	General Conditions	
i	The project authorities must strictly adhere to the stipulations made by the Maharashtra Pollution Control Board and the State Government	Noted.
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 (MoEF&CC)	Noted.
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 four ambient air quality & stack emission will be regularly submitted to authorities after commencement of the plant 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
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)	Noted and complied
vi	Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act	Noted and complied
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	Noted and Agreed.

viii	<p>The project proponent should also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. 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</p>	<p>We will comply with all the environmental protection measures recommended in EIA/EMP. We will continuously implement various CSR programs as per the CSR plan in association with JSW Steel, the parent company.</p>
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>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 13.90 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 Annexure-2. These funds shall not be diverted for any other purpose.</p>
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>Copy of the Environment clearance letter has been uploaded on our company website and can be seen at the below link: http://www.jswcement.in/wp-content/uploads/EC-transfer-10-MTPA-JSW-Cement-compressed.pdf</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>We shall upload the compliance report on our company website and shall periodically update the same. Six monthly compliance reports shall also be submitted to all the concerned regulatory authorities after commencement of production.</p> <p>We shall install the display board at the main gate for displaying the monitored parameters for public.</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-</p>	<p>Six monthly compliance reports shall be submitted to all the concerned regulatory authorities on regular basis as stipulated.</p>

	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	
xiii	The environmental statement for each financial year ending 31st March in Form-Vas 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	Environment statement for this financial year will be submitted before 30 th Sept, 2019 to MoEF and MPCB as prescribed.
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 http://envfor.nic.in . 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	As stipulated, we have uploaded copy of the Environment clearance on our company website. http://www.iswcement.in/wp-content/uploads/ECT-transfer-10-MTPA-JSW-Cement-compressed.pdf We have advertised our Environment Clearance in local newspapers (i.e. Krushiva & Free Press Journal) which are widely circulated in the region and copy of the same was submitted to Regional office, MoEF&CC. Newspaper advertisement is attached as Annexure-3 for your ready reference.
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: 31st March 2019 Date of final approval: 20th Dec 2016 Date of commencement of land development work: 10th Jan 2017.
14	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 Limited	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 251 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

Sanjay Jadhav

Unit Head



Environment Clearance of JSW Steel

F. «. J-i k01k76;aOis-iA.IItlj
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

Indira Paryavaran Bhawan
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E-mail: shamth.Edwin
Tel: 011-24695819

Dated: 23a January, 2018

To

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

Tel: {02143} 246000/2467000/277501-15; Fax: {02143} 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 - As per the Ministry of Environment, Forest and Climate Change.

This has reference to your online proposal no. IA/KH/ERD/410BS/00IB dated 15a January, 2016; the meeting of IBPTI/011R, dated 10th August 2016 and your communications dated 8th February 2017; R3rd Stay Order dated 22nd June 2017; 90th July 2017; and 2nd November 2017 for partial transfer of 1.0 MTPA Coke-Over Plant and 2.5 MTPA 'Coke-Oven including by-product plant' to the Dolvi Coke Project Limited and 10 MTPA Slag & Clinker Grinding unit to the NSW Cement Limited respectively from M/s JSW Steel Limited.

1.0 The Environmental Clearance for 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 J-11011/76/2013-IA-II (1) dated 15th August 2015.

2.0 The proposal was considered in the Expert Appraisal Committee (Industry-II) in its 19th meeting held during 8th - 9th June 2017; 30th meeting held during 10th - 11th July 2017 and 21st meeting held during 10th - 11a August, 2017.

3.0 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 the 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.

4.0 The Ministry of Environment, Forest and Climate Change, based on the recommendations of the Expert Appraisal Committee (Industry-II), 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/s 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.