



Date: 25th April 2018

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-IA.II(I) dated 2 Feb 2018 &
No SEAC-2010/CR.708.TC.2, dated 14.06.2011
of M/s 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 6monthtly Compliance report for Environment Clearance
condition with the required Annexures.

Hope the above documents/information are in order

Thanking You

**Your Truly
For JSW Cement Limited**


**Sanjay Jadhav
Vice President**



Compliance Report of Environment Clearance Conditions

JSW CEMENT LIMITED - DOLVI

Name of the Project: 10 MTPA 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 Project Code: Yet not allotted	
S.No	Compliance
13 A	Specific Conditions
i	<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 Units are established within the JSW Steel complex and 5 no of continues ambient air Quality monitoring stations 24x7 are installed at the boundary of the steel complex and they are connected to CPCB and MPCB server.</p> <p>However, in addition JSW cement has already installed 2 nos. of continues ambient air quality monitoring station with connectivity to CPCB & MPCB.</p> <p>As per CPCB & MOEF direction continuous stack emission monitoring equipment need to be installed by 17 category of polluting industries as specified by CPCB.</p> <p>JSW cement at Dolvi is only a Grinding unit with Vertical Roller Mill & does not involve any Rotary Kiln manufacturing of Clinker unit, hence OCEMS is not applicable for cement Grinding unit.</p> <p>Therefore, our vertical Roller Mills Grinding Unit do not fall under the 17 category of Highly polluting industry.</p> <p>However, we are in the process of installation of CSEMS at our upcoming unit.</p> <p>There is no effluent generation from the cement manufacturing process and therefore, online effluent monitoring is not required for cement plants. We will submit</p>

		the air emission monitoring reports to the Ministry and also to its Regional office, after commencement of the plant.
ii	The PP should ensure treatment of effluent from Cement plant.	There is no effluent generation from the cement manufacturing process. We will be complied.
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.	
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 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.	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. Copy of the above referred letter is enclosed as Annexure-1
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	Noted and complied

	less, on the landward side should be kept free from any type of development.	
vii	Full utilization of BF slag should be implemented. The details should be submitted along with 6 monthly compliance reports.	JSW Cement does not generate any B F slag & hence is not applicable. However B F slag from JSW Steel is being utilize for Cement making by JSW Cement.
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 effluent is generated from Cement Manufacturing process.
ix	No untreated effluent should be reused for any process	No effluent is generated from Cement Manufacturing process.
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	We have taken various measures for reducing PM levels in the ambient air by adopting efficient dust control measures such as covered sheds, pulse bag house, bag filters at all the material transfer points as well as stacks. The bag filters are designed to meet the standard of <50 mg/Nm ³ . Our equipment are energy efficient and latest technology equipment's in the plant.
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	We have already installed online continuous emission monitoring system (OCEMS) for our cement mill. Since the cement grinding unit is located inside JSW Steel premises, the ambient air quality at the periphery of the complex is being monitored by JSW Steel by means of CAAQMS installed at the periphery of the steel plant complex by M/s JSW Steel Ltd. Emissions from all the sources will be maintained below the prescribed norms. Guidelines/code of practice issued by the CPCB will be followed.
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	Dust suppression systems and bag filters will be installed to control fugitive dust emissions. In addition covered sheds for

		storage of raw materials will be established to minimize fugitive dust emissions.
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 form rainwater stored in rainwater harvesting structures	This specific condition is applicable for Steel plant.
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	Noted and complied will be complied.
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 will be no effluent generation from the cement manufacturing process. Domestic waste water will be disposed in septic tanks followed with soak pits. No effluents shall be discharged outside the premises.
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 will be 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 will be 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.

xx	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants should be implemented	The responsibility of the JSW Steel Ltd., the parent company.
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 is being complied 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	We shall strictly adhere to the stipulations made by Maharashtra Pollution Control Board and the 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 will be 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	JSW Cement Units are established within the JSW Steel complex and 5 no of continues ambient air Quality monitoring stations 24x7 are installed at the boundary of the steel complex and they are connected to CPCB and MPCB server. However, in addition JSW cement has already installed 2 nos. of continues ambient air quality monitoring station with connectivity to CPCB & MPCB.
iv	Industrial wastewater 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 will be 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 will be complied. Ambient noise levels will be 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	We will carry out occupational health surveillance of the workers on regular basis and the records shall be maintained as per the Factories 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	Noted and will be complied.
viii	The project proponent should also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP	The responsibility of the JSW Steel Ltd., the parent company.

	<p>report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc</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>Noted & will be complied Annexure-2</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>We have sent the copy of our Environment Clearance to concerned panchayat, zila parishad / municipal corporation. Complied.</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>Complied.</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>Being complied</p>

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	Being complied.
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	Complied Annexure-3
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	Noted and will be complied
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 in association with JSW steel.
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 Jadhav

Unit Head



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: 23rd 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 Geethapuram, 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 15th January, 2016; **IA/MH/IND/18771/2012**, dated 10th August 2016 and your communications dated 8th February 2017; 23rd May 2017; 22nd June 2017; 20th July 2017; and 2nd 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 21st 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 25th August 2015.

3.0 The proposal was considered in the Expert Appraisal Committee (Industry-I) in its 19th meeting held during 8th – 9th June 2017; 20th meeting held during 10th – 11th July 2017 and 21st meeting held during 10th – 11th 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 Geethapuram, 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(I) dated 25th 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(I) dated 25th 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(I) dated 25th August 2015.

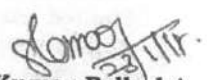
11.0 Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

This issues with the approval of Competent Authority.


(Sharath Kumar Pallerla)
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 Pallerla)
Scientist 'F' / Director

ANNEXURE - 2

ITEMWISE BREAKUP OF CAPITAL INVESTMENT & ESTIMATES FOR ENVIRONMENT MANAGEMENT PLAN FOR PHASE-1, 1.2 MTPA CAPACITY

Details of allocation made for environmental management for Cement Plant		
S. No.	Particulars	Capital Investment (Rs. in lakhs)
1	Air Pollution Control – Cement Mill Bag House as well as Bag filters alongwith ventilation systems for the control of fugitive dust emissions at material transfer points and vents	1000.00
2	Concrete paving, covering of conveyors and raw material storage sheds	130.00
2.	Water Pollution control	50.0
3	Emission monitoring equipment (including online emission monitoring equipment at sources and ambient air quality in the vicinity and laboratory	80.00
4	Greenbelt development	80.0
5	Water Harvesting Schemes	25.0
6	Establishment of environment management cell and environmental monitoring	25.0
	Total	1390.00

RECURRING COST & ESTIMATES

Details of allocation made for Annual cost of monitoring and implementation of control measures for Phase-1, 1.2 MTPA Capacity		
S. No.	Particulars	Recurring Cost per annum (Rs. in lakhs)
1	Maintenance & Operation of pollution control equipment	65.00
2	Environmental monitoring	10.0
3	Occupational Health & Safety	20.0
4	Greenbelt development	5.0
	TOTAL	100.00

