



JSW Steel Limited

Dolvi Works: Geetapuram,
Dolvi, Taluka - Pen,
Dist Raigad - 402 107, Maharashtra, India.
CIN. : L27102MH1994PLC152925
Phone : +91 2143 277501-15
Fax : +91 2143 277533/42
Website : www.jsw.in

BY COURIER

November 30, 2020

JSWSL/ENV/MoEF&CC/2020

To

The Regional Officer
Ministry of Environment, Forest and Climate Change
Regional Office (WCZ), Ground Floor
East Wing, New Secretariat Building,
Civil Line, Nagpur-440001

Sub: Submission of Six Monthly Compliance report of Environmental Clearance for 3.5 MTPA Coke Oven Plant at JSW Steel Plant Ltd. at Dolvi, Raigad District, Maharashtra (Formerly known as Dolvi Coke Projects Ltd.)

Ref: i) MoEFCC Letter - F No J-11011/497/2017-IA-II(I) dated 01 /02/2018.
ii) Our letter dated 21st September 2019 regarding merging of Dolvi Coke Projects Ltd with JSW Steel Ltd.


Dear Sir,

With reference to above, please find enclosed herewith Six Monthly Compliance report of Environmental Clearance for 3.5 MTPA Coke Oven Plant at JSW Steel plant Ltd. at Dolvi, Raigad District, Maharashtra. (Formerly known as Dolvi Coke Projects Ltd.)

This is for your kind information & record please.

Thanking you,

Yours faithfully,
For JSW Steel Ltd


04/30/11/2020

Dr. Anand Rai
General Manager (Head – Environment)

CC:

- 1) The Director, MoEF&CC, Indira Paryavaran Bhawan, Jor Bagh, Lodi Road, New Delhi-110003.
- 2) The Zonal officer, CPCB, Parivesh Bhawan, Opp. VMC Ward Office No. 10, Subhanpura, Vadodara- 390 023, Gujarat.
- 3) The Regional Officer, MPCB, Raigad, Raigad Bhavan, CBD Belapur, Navi Mumbai



JINDAL Part of O.P. Jindal Group

Regd. Office: JSW Centre,
Bandra Kurla Complex,
Bandra(East), Mumbai - 400 051.
Phone : +91 22 4286 1000
Fax : +91 22 4286 3000

SIX MONTHLY COMPLIANCE REPORTS OF ENVIRONMENT CLEARANCE CONDITIONS

Sub: 3.5 (1.0+2.5) MTPA Coke Oven and By-product plant – Transfer of 1.0 MTPA Coke oven and by-product plant – from EC of 3 to 5 MTPA and 2.5 MTPA Coke Oven with by-product plant from EC of Expansion of Integrated Steel plant from 5 to 10 MTPA and Power plant from 300 MW to 600 MW (Gas Based) of M/s. JSW Steel Limited in Geetapuram, Village Dolvi, Teshil – Pen, District- Raigad, Maharashtra to M/s Dolvi Coke Projects Limited regarding

Ref: Environmental Clearance for 3.5 MTPA Coke Oven Plant at Dolvi Coke Projects Ltd. vide letter No F.No. IA-J-11011/497/2017-IA-II(I) dated 01/02/2018.

The production facilities after the expansion are given below:

S. No	Technological Facility	Total unit capacities at 10 MTPA	Status as on September 2020
1.	DR1 (Gas based Mega Module)	4.0 MTPA	2 MTPA plant is in operation & new 2 MTPA plant under 5-10 MTPA, technology finalization under progress
2.	Pellet Plant	8.0 MTPA	4 MTPA plant is in operation & for 4 MTPA plant under 5-10 MTPA, It is proposed to enhance the capacity to 9 MTPA for which amendment has been Done .EC Revised dated 16/06/2020
3.	Coke Ovens including By-product plant	4.5 MTPA (1+1+2.5) MTPA	3.5 MTPA Coke Oven, EC transferred from JSW Steel Ltd to Dolvi Coke Projects Ltd. 1.5 MTPA (under 3.5 MTPA) is in operation (Dolvi Coke Projects Ltd.) 1.0 MTPA (under 3 MTPA) is in operation (Amba River Coke Ltd).
4.	Sinter Plant	14.0 MTPA	2.8+2.5 MTPA plants are in operation. The 8 MTPA plant under 5-10 MTPA is being amended to 4 MTPA for which amendment Revised on 16/06/2020
5.	Blast Furnace including Pig casting	8.1 MTPA	3.5 MTPA plant is in operation & for 4.5 MTPA plant under 5-10 MTPA, Construction work in progress.
6.	SMS (CONARC)	5.2 MTPA	5.2 MTPA Plant is in operation

7.	SMS -BOF	6.0 MTPA	Construction work in progress.
8.	Ladle Furnace (LF)	2x200t +205t 2X300t	2x200t +205t LF is in operation and for 2X300t LF under 5-10 MTPA, Construction work started.
9.	VD/VOD & RH-TP	1x200t +1x205t 2x300t	1x200t+1x205t is in operation and for 1x200t +1x205t 2x300t under 5-10 MTPA, techno- commercial discussion in progress.
10.	CSP(HRC Coil) Thin Caster-cum-Hot Strip Finishing Train	3.5 MTPA	3.5 MTPA plant in operation.
11.	Conventional Slab Caster	Total 6 strands (9.4 MTPA)	2x1 strands (3.68 MTPA) in operation and for 2x2 strands (5.72 MTPA), Construction work started.
12.	Billet Caster	6 strands (1.5 MTPA)	6 strands (1.5 MTPA) Plant in operation.
13.	Plate Mill	1.5 MTPA	Technology to be finalised.
14.	CRM (Hot Rolled Skin Pass + Cold Rolled Full Hard Coil + Hot Rolled Pickled & Oiled Coil)	2.5 MTPA	Technology to be finalised.
15.	Galvanizing Line (Cold Rolled Steel Strips, Hot Dip Zinc Coated Full Hard)	0.6 MTPA	Technology to be finalised.
16.	Electrical Steel CRGO line	0.4 MTPA	Technology to be finalised.
17.	Tin Plate Mill	0.4 MTPA	Technology to be finalised.
18.	Colour Coating Plant	0.5 MTPA	Technology to be finalised.
19.	Lime/Dolo Plant	3600 TPD	1200 TPD plant in operation and 600 TPD under 5 MTPA work in progress & for 1800 TPD plant under 5-10 MTPA, Construction work in progress.
20.	Oxygen Plant	7600 TPD	4100 TPD plant is in operation. Construction work for 3500 TPD plant under 5-10 MTPA in progress.

21.	Hot Rolling Mill with shearing & slitting line	5.0 MTPA	5 MTPA plant under 5-10 MTPA, Construction work in progress.
22.	Bar Mill	1.4 MTPA	1.4 MTPA Plant in operation.
23.	Slag & Clinker Grinding Unit	10 MTPA	EC transferred to JSW Cement Ltd.
24.	Captive Power Plant	600 MW (based on surplus gases of BF & Coke Oven)+RLNG	55 MW Gas based CPP in operation. Techno- commercial discussion for 300 MW CPP under 5 -10 MTPA in progress.
25.	Township	150 acres	Work not yet started.

Sr. No.	ENVIRONMENTAL CLEARANCE CONDITIONS	COMPLIANCE STATUS AS ON September, 2020
A) Specific Conditions		
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.	<ul style="list-style-type: none"> • Five Continuous Ambient Air Quality Monitoring stations have been installed in consultation with MPCB. All these stations are hooked up to MPCB & CPCB & data is being transmitted online on real time basis for PM2.5, PM10, SO2 & NOx. • 22 Nos. Continuous Stack Emission Monitoring systems are installed in all major stacks. • Data on Stack Emission, Ambient Air Quality and Work Environment Air Quality are being submitted to; • MPCB - Once in three months, • MOEF&CC, Nagpur & Delhi – Once in Six month • CPCB, New Delhi – Monthly basis and shall be extended to 5 to 10 MTPA expansion units.
ii	The PP should ensure treatment of effluent particularly from Blast Furnace (BF) and Coke Oven plant. The plant should be designed to meet the cyanide standards stipulated by MoEF&CC under EPA Act 1986.	ETP has been provided to the existing Blast Furnace (BF) and Coke Oven plant and are designed to meet the norms. Similarly ETP has been designed to meet the norms both for BF and Coke Oven plant II in the expansion project.

iii	<p>The commitment made by the PP for plantation of the green belt to the tune of 655 acres should be expedited. Three rows of green belt, 12-15 meters wide, all along the periphery of the plant should be planted.</p>	<p>The coke oven plant is in contiguous to the expansion of 5 to 10 MTPA projects. Accordingly, 33% green belt shall be completed inside and outside premises as recommended by the EAC, MoEF&CC in the next 5 years once the expansion projects are completed.</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 implementation of the project, and annual report on CSR activity should be submitted to the Ministry.</p>	<p>JSW foundation is the apex organization which is responsible for implementation of CSR activity in and around Dolvi works. JSW foundation is supported by JSW Steel Limited. Accordingly plan is prepared and projects are taken under the area of health care, rural infrastructure development, education, sports and cultural activity, Swachh Bharat Abhiyan and implemented.</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 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>CSR activities in various sectors are being done in the surrounding villages and a time bound action plan for various CSR activities have been submitted to MoEF&CC as per EAC recommendation of 2.5% of project cost.</p>

vi	No development should be done on the creek-ward side of the land. Land area between HTL to 100 mts or width of the creek, whichever is less, on the landward side should be kept free from any type of development.	Development of plant is beyond 100 meter from HTL & kept free in line with CRZ regulations of 2011.
vii	Full utilization of slag both BF and SMS should be implemented. The details should be submitted along with 6 monthly compliance reports.	Noted & will be complied once the projects are completed
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.	In Coke Oven Plant, BOD plant has been installed and the treated water is being used for coke quenching purpose.. No waste water will be discharged outside the plant boundary during normal operation. In case of discharge effluent meeting norms fit to the marine environment, permission of the relevant authority will be obtained.
ix	No untreated effluent should be reused for any process.	Not being used
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 50mg/Nm ³ and installing energy efficient technologies in the Plant	Noted & will be complied. All necessary air pollution control devices shall be provided to keep the emission level below 50 Mg/NM ³
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.	Noted & will be complied 5 Nos. online Ambient Air Quality Monitoring Stations have been installed in consultation with MPCB & the data connected to MPCB & CPCB Website.
xii	Dust suppression system and bag filters should be installed to control the fugitive	Noted & will be complied

	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.	The Specific water consumption as per CREP is 5 M3/TCS. JSW Steel is currently operated at 3.0 M3/tcs
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 will be complied. Rain Water Harvesting system has been implemented in the existing plant at coke oven (1 MTPA).
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 & will be complied. All the effluents shall be treated and reused for dust suppression/green belt development. No effluent will be discharged and 'zero' liquid discharge shall be adopted.
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.	Utilization of fly ash is not relevant to this plant.
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 & will be complied. Existing designated area for storage of Hazardous waste would be used for expansion project also
xviii	Vehicles and construction machinery are properly maintained to minimize the exhaust emission as well as noise generation to meet prescribed standards.	Noted
xix	Risk and Disaster Management Plan along with the mitigation measures should be prepared and implemented.	Risk & Disaster Management plan has been submitted to MoEF&CC, New Delhi along with EIA report.

xx	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants should be implemented.	Noted & shall be complied
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.	Complied
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 Check-up 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 & shall be complied as per earlier practice. As per the Factories Act, regular health checkups done for workers and employees & records are maintained on regular basis
B) General Conditions		
i	The project authorities must strictly adhere to the stipulations made by the Maharashtra Pollution Control Board and the State Government.	The guidelines given by Maharashtra Pollution Control Board (MPCB) and State Government are followed.
ii	No further expansion or modifications in the plant should be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Noted and is being 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 should be regularly submitted to this Ministry including its Regional Office at Nagpur and the SPCB/CPCB once in six months.	Already 5 Nos. online Ambient Air Quality Monitoring Station Installed with consultation of SPSB & data connected to MPCB & CPCB Website.
iv	Industrial wastewater should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 313' December, 1993 or as amended form	Noted & will be complied

	time to time. The treated wastewater should be utilized for plantation purpose.	
v	The overall noise levels in and around the plant area should be kept well within the standards (85 dBA) 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).	Overall noise levels in and around the plant area shall be maintained well within the standards (85 dBA). Ambient noise levels will be maintained as prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (night time).
vi	Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	As per the Factories Act, regular health checkups done for workers and employees & records are maintained on regular basis.
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.	Site is located near coast and ground water level is high in this area. Hence Rain water harvesting is not applicable for Dolvi Coke Projects Ltd., Dolvi
viii	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 programmes, educational programmes, drinking water supply and health care etc.	Noted & will be complied
ix	Requisite funds should be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment, Forests and Climate Change (MoEF&CC) as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein should be submitted to the Regional Office of the Ministry at Nagpur. The funds so provided should not be diverted for any other purpose.	Noted & will be complied. Requisite funds has been earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment, Forests and Climate Change (MoEF&CC) as well as the State Government.
x	A copy of clearance letter should be sent by the proponent to concerned	Complied.

	<p>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 should also be put on the web site of the company by the proponent.</p>	<p>A copy of clearance letter is already send to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the local NGO.</p>
xi	<p>The project proponent should upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and should update the same periodically. It should 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 should be monitored and displayed at a convenient location near the main gate of the company in the public domain.</p>	<p>Being Complied.</p>
xii	<p>The project proponent should 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 e-mail) to the Regional Office of MOEFCC, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Nagpur / CPCB / SPCB should monitor the stipulated conditions.</p>	<p>Being complied</p>
xiii	<p>The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, should also be put on the website of the company along with the status of compliance of environmental conditions and should also be sent to the respective</p>	<p>Being Complied</p>

	Regional Office of the MOEFCC at Nagpur by e-mail.	
xiv	<p>The Project Proponent should 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, Forests and Climate Change (MoEF&CC) at http://envfor.nic.in. This should 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 should be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office at Nagpur.</p>	<p>Complied.</p> <p>Published in news paper as per guidelines namely in Local news paper Krushiwal, Raigad Times, Ramprahar dated February 9, 2018 and English news paper Free Press Journal dated March 13, 2018.</p>
xv	<p>Project authorities should 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.</p>	<p>Noted & will be complied time to time.</p>