



Ref: JSL/BHL/ISP/2019-20/26

Date: 29.11.2019

To,

**The Regional Office (Central),
Ministry of Environment, Forest and Climate Change,
5th Floor, Kendriya Bhawan, Sector-H, Aliganj,
Lucknow- 226024 (U.P.)**

Sub: Six monthly compliance report reference to conditions of environment clearance of Integrated Steel Plant of M/s Jindal Saw Ltd. located near Village: Pur, Tehsil & Distt. Bhilwara (Raj)

Ref: EC granted by MoEF vide letter No. F. No. J-11011/293/2014-IA II (I) dated 23rd Feb' 2017.

Dear Sir,

With reference to the above subject matter and referred letter, please find enclosed herewith Six monthly point-wise compliance report for the period from 1st Apr' 2019 to 30th Sep' 2019 of the conditions stipulated in Environment Clearance granted for **Integrated Steel Plant** (Pellet Plant - 15,00,000 TPA, Blast Furnace - 10,65,000 TPA, DRI Plant - 6,50,000 TPA, SMS - 10,00,000 TPA, Rolling Mill - 7,25,000 TPA, CPP - 75 MW, Supporting utilities like RMH yard, Oxygen Plant, DM Plant, Lab, HVAC, Air Compressor, DG Sets) proposed to installed near Village: Pur, Tehsil & District- Bhilwara, Rajasthan.

Copy of the compliance report is also being sent in soft format through e-mail for your kind perusal.

This is submitted for your kind consideration please.

Thanking you,

Yours faithfully,

For: Jindal Saw Ltd.


**Rajender Gaur
Authorized Signatory**

Encl: a/a

Copy to:

1. Ministry of Environment, Forest and Climate Change (I.A. Division), Government of India, Indra Paryavaran Bhawan, Jor Bagh Road, New Delhi, Pin-110003
2. Zonal Office, Central Pollution Control Board (CPCB), Sahkar Bhawan, 3rd Floor, North TT Nagar, Bhopal-462003 (M.P.)
3. The Member Secretary, Rajasthan Pollution Control Board, 4- Institutional Area, Jhalana Doongri, Jaipur, Pin- 302004
4. The Regional Officer, Rajasthan State Pollution Control Board 18, Azad Nagar, Pannadhai Circle, Bhilwara-Rajasthan, Pin-311001

**Compliance of EC conditions of Integrated Steel Plant
M/s Jindal Saw Limited, Bhilwara**

(EC granted vide letter No. F. No. J-11011/293/2014-IA II (I) dated 23rd Feb' 2017

Period of Compliance Report: 01st Apr' 2019 to 30th Sep' 2019

Date: 29/11/2019

	A. Specific Conditions	Compliance Status
i.	The project proponent should install 24x7 air monitoring devices to monitor air emission and submit report to Ministry and its Regional Office.	Ambient air monitoring stations will be installed for monitoring air emission. At present project work has not started. Presently AAQ monitoring is being carried out by MoEF & GOI approved lab. Ambient Air Quality monitoring results for last six months Apr' 2019 to Sep' 2019 are enclosed as Annexure-I .
ii.	The ETP for Blast Furnace effluent should be designed to meet Cyanide standards as notified by MoEFCC.	The condition will be implemented as stipulated. At present project work has not started.
iii.	No effluent shall be discharged outside the plant premises and 'Zero' discharge shall be adopted.	The condition will be implemented as stipulated.
iv.	Online ambient air quality and continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices viz, Electrostatic precipitator (ESP), bag filters etc. shall be provided.	Online ambient air quality monitoring station and continuous stack monitoring facilities for all the stacks along with sufficient air pollution control devices viz, Electrostatic precipitator (ESP), bag filters etc. shall be installed whenever project will be installed.
v.	In plant control measures and dust suppression system shall be provided to control fugitive emission from all the vulnerable sources. Dust extraction and suppression system shall be provided at all transfer points, coal handling plant and coke sorting plant of coke oven plant. Bag filter shall be provided to hoods and dust collectors to coal and coke handling to control dust emission. Water Sprinkling system shall be provided to control secondary fugitive dust emission generated during screening, loading, unloading, handling and storage of raw material etc.	The pollution control measures will be implemented as stipulated. At present project work has not started.
vi.	The emission standard specified in the Environmental (Protection) Amendment Rule, 2015 issued by vide SO-3305 (E) dated 7 th December, 2015 for the Thermal Power Plant shall be strictly adhered to.	Shall be complied as stipulated

vii.	The Standard issued by the Ministry vide G.S.R. 277 (E) dated 31st March, 2012 shall be strictly adhered to.	Shall be complied as stipulated
viii.	Hot gases from DRI Kiln should be passed through dust settling chamber (DSC) to remove coarse solid and after Burning Chamber (ABC) to burn CO completely and used in Waste Heat Recovery Boiler (WHRB). The gas then shall be cleaned in ESP before dispersion out into the atmosphere through ID fan and stack. ESP shall be installed to control the particulate emission from WHRB.	The condition will be implemented as stipulated. At present project work has not started.
ix.	Effort shall further be made to use maximum water from the rain water harvesting sources. If needed capacity of the reservoir shall be enhanced to meet the maximum water requirement.	The water requirement for Integrated Steel plant will be met out from treated sewage water of Bhilwara town. Further rain water harvesting structure will be constructed as per requirement.
x.	A statement on carbon budgeting including the quantum of equivalent CO ₂ being emitted by the existing plant operation, the amount of carbon sequestered annually by the exiting green belt and the proposed green belt and the quantum of equivalent CO ₂ that will be emitted due to the proposed expansion shall be prepared by the project proponent and submitted to the Ministry and the Regional Offices of the Ministry. This shall be prepared every year by the project proponent. The first such budget shall be prepared within a period of 6 month and subsequently it should be prepared every year.	The condition will be implemented as stipulated whenever project will come under operation.
xi.	For the employee working in high temperature zones falling in the plant operation areas, the total shift duration would be 4 hrs. or less per day where the temperature is more than 50°C. Moreover, the jobs of these employees will be alternated in such a way that no employee is subjected to working in high temperature area for more than 1 hrs. continuously. Such employees would be invariably provided with proper protective equipment, garment and gears such as head gear, clothing, gloves, eye protection etc. There should be also be an arrangement for sufficient drinking water at site to prevent dehydration etc.	Shall be complied as stipulated during the plant operation.


xii.	Risk and Disaster Management Plan along with the mitigation measures shall be prepared and a copy submitted to the Ministry's Regional Office, SPCB and CPCB within 3 month of issue of environment clearance letter.	Risk and Disaster Management Plan has been sent to MoEF&CC, CPCB, and RPCB along with last period compliance report through Letter No. JSL/BHL/ISP /2017-18/ 23 dated 09.11.2017.
xiii.	All the blast furnace (BF) slag shall be granulated and provided to cement manufacturers for further utilization. Flue dust from pellet Plant and SMS and Sludge from BF shall be reused in pellet plant. SMS Slag shall be given for metal recovery and properly utilized. All the other solid waste including broken refractory mass shall be properly disposed off in environment-friendly manner.	Shall be complied as stipulated during the plant operation.
xiv.	Green belt shall be development in 33% of plant area. Selection of plant species shall be as per the CPCB guideline in consultation with the DFO. Intervening space between the planted trees should be used for growing fodder and grass species.	Shall be complied as stipulated. At present project work has not started.
xv.	All the recommendations made in the charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plant and Coke Oven Plant shall be implemented.	CREP recommendations issued for the Steel Plant and Coke Oven Plant shall be implemented as per guideline.
xvi.	At least 2.5% of the total cost of the project shall be earmarked towards the Enterprises Social Commitment based on Public Hearing issues, local need and item wise details along with time bound action shall be prepared and submitted to the Ministry's Regional Office. Implementation of such program shall be ensured by constituting a committee comprising of the proponent, representatives of village Panchayat and District Administration. Action taken report in this regard shall be submitted to the Ministry's Regional Office.	The condition will be implemented as stipulated whenever project will come under operation.
xvii.	The proponent shall prepare a detailed CSR Plan for every year for the 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 villages roads, avenue plantation etc.) activities in consultation with the local communities and	The condition will be implemented as stipulated whenever project will come under operation.

	<p>administration. The CSR Plan will be include the amount of 2% retain annual profits as provided for the Clause 135 of the Companies Act , 2013 which provides for 2% of the average net profit of previous 3 year towards CSR activities for life of the project. A separate budget head shall be created and the annual capital and revenue expenditure on various activities of the Plan shall be submitted as part of the Compliance Report to RO. The details of the CSR Plan Shall also be uploaded on the company website and shall also be provided in the Annual Report of the company. The Plan so prepared shall be based on SMART (Specific, Measurement, Achievable, Relevant and Time bound) Concept. The expenditure should be aimed at sustainable development and direct free distribution and temporary relief should not be included.</p>	
xviii.	<p>All the commitment made to the public during the public hearing/ Public Consultation meeting shall be satisfactorily implemented and a separate budget for implementing the same shall be allocated and information submitted to the Ministry's Regional Office at Bhubaneswar.</p>	<p>Shall be complied as stipulated. At present project work has not started.</p>
xix.	<p>Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for coking, mobile toilet, mobile STP, Safe drinking Water, Medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project.</p>	<p>Shall be complied as stipulated. At present project work has not started.</p>
<p>B. General Condition :</p>		
i.	<p>The project authorities must be strictly adhere to the stipulation made by the Rajasthan Pollution Control Board and the State Government.</p>	<p>The stipulation shall be complied with time to time.</p>
ii.	<p>No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change (MoEFCC)</p>	<p>Being complied as stipulated.</p>

iii.	<p>At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM 10, PM 2.5, SO₂ and NO_x 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 Lucknow and the SPCB /CPCB once in six month.</p>	<p>Ambient Air Quality monitoring station will be installed for monitoring air emission as stipulated. Presently AAQ monitoring is being carried out by MoEF & GOI approved lab. Ambient Air Quality monitoring results for last six months Apr' 2019 to Sep' 2019 are enclosed as Annexure-I.</p>
iv.	<p>Industrial waste water shall be properly collected, treated so as to conform to the standard prescribed under GSR 422 (E) dated 19th May 1993 and 31th December 1993 or as amended form time to time. The treated waste water shall be utilized for plantation purpose.</p>	<p>Shall be complied as stipulated whenever project will come under operation.</p>
v.	<p>The overall noise levels in and around the plant area shall be kept well within the standard (85dBA) by providing noise level control measures including acoustic hoods, silencer, enclosure etc. on all sources of noise generation.</p> <p>The ambient noise levels should conform to the standards prescribed under EPA Rule, 1989 viz 75 dBA (daytime) and 70dBA (night time)</p>	<p>Proper measures will be taken for control of noise in the work environment area. Acoustic hoods, silencer, enclosure etc. will be installed to control the noise level.</p>
vi.	<p>Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per the Factory Act.</p>	<p>Pre-employment Medical Tests examination is under practice. It is being repeated periodically to observe any contractions. Record is being maintained by Dispensary team.</p>
vii.	<p>The Company shall develop rain water harvesting structure to harvest the rain water for utilization in the lean season besides recharging the ground water table.</p>	<p>Rain water harvesting structure to harvest the rain water will be installed as stipulated.</p>
viii.	<p>The project proponent shall also comply with all the environment protection measure and safeguard recommended in the EIA/EMP report. Further Company must undertake socio-economic development activities in the surrounding villages like community development programmes, drinking water supply and health care etc.</p>	<p>Environment protection measure will be implemented as recommended in EIA/EMP. Following Rural Development / CSR activities already under practice by M/s Jindal Saw Ltd.</p> <ol style="list-style-type: none"> 1. Community Park Maintenance 2. Tree Guard & Plantation 3. Fruit Plantation in nearby village 4. Blood Donation Camp 5. Drinking water supply in nearby village 6. School & Village development 7. Fodder Distribution 8. Religious Places development 9. Disaster Relief 10. Hygiene Cleaning in MG Hospital Bhil 11. Construction of Urinal & Toilets in schools 12. Construction of rain water harvesting structure

ix.	<p>Requisites funds shall be earmarked toward 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 (MoEF&CC) 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 Lucknow. The fund so provided shall not be diverted for any other purpose.</p>	<p>Shall be complied as stipulated whenever project will come under operation.</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 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>The copy of the Clearance letter has been sent to all concerned and it has been put on the website of the Company on 4th Mar' 2017. Environment Clearance forwarding letter acknowledgement copy has been sent to MoEF, CPCB, and RPCB along with compliance report through Letter No. JSL/BHL/ISP/2017-18/23 dated 09.11.2017.</p>
xi.	<p>The project shall be upload the status of compliances of the stipulated environment clearance conditions, including result of monitored data on their website and shall update the same periodically. It shall be simultaneously be sent to the Regional Office of MOEFCC at Lucknow. The respective Zonal Office of CPCB and SPCB. The criteria pollutant level namely, PM 10, SO_x, NO_x (Ambient Level as well as stack emissions) or criteria sectoral parameters indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the Public domain.</p>	<p>We are uploading the status of compliance of the stipulated environment condition, including result of monitoring date in company website on routine interval. The Ambient Air Quality monitoring data is being displayed near the main gate of company.</p>
xii.	<p>The project shall also submit six month report on the status of the compliance of the stipulated environment condition including result 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 Lucknow/CPCB/SPCB shall monitor the stipulated conditions.</p>	<p>The Compliance Report for the period from 01st Apr' 2019 to 30th Sep' 2019 is enclosed herewith.</p>
xiii.	<p>The environment statement for each financial year ending 31st Mar in Form -V as is mandated to be submitted by project proponent to the concern State Pollution Control Board as prescribed under the Environment (Protection) Rules 1986, as amended subsequently shall be</p>	<p>EC has granted by MoEF&CC on 23 Feb' 2017. Environment Statement will be submitted whenever project will come under operation.</p>

	put on the website of the company along with the status of compliance of environment conditions and shall also be sent to the respective Regional Office of the MoEFCC at Lucknow by e-mail.	
xiv.	The project proponent shall inform the public that the project has been accorded environment 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 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 vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional Office at Lucknow.	EC notice published on two local Hindi news papers and one national English news paper copy of the same has been forwarded to MoEF Delhi, Lucknow and RPCB Jaipur and Bhilwara. Public Notice forwarding letter acknowledgement copy has been sent to MoEF, CPCB, and RPCB along with compliance report through Letter No. JSL/BHL/ISP/2017-18/23 dated 09.11.2017.
xv.	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approved of the project by the concern authorities and the date of commencing the land development work.	The date of financial closure of the company is 31 st March of every year. At present project work has not started.



(Rajendra Gaur)
Authorized Signatory

Annexure - I

Summarized Ambient Air Quality Monitoring Results (Apr 2019 to Sep 2019)
Integrated Steel Plant, Jindal Saw Limited , Bhilwara

Sr. No.	Monitoring Locations Monitoring Period/ Parameter	Plant Site Near 220 KVA Switch Yard		Pur Village	
		11.06.2019	05.09.2019	09.06.2019	06.09.2019
1	PM 10 [$\mu\text{g}/\text{m}^3$]	87.93	72.37	79.13	63.42
2	PM 2.5 [$\mu\text{g}/\text{m}^3$]	25.77	11.62	39.40	29.86
3	SPM [$\mu\text{g}/\text{m}^3$]	235.20	155.46	282.55	156.89
4	SO ₂ [$\mu\text{g}/\text{m}^3$]	6.99	6.98	8.09	6.79
5	Nox [$\mu\text{g}/\text{m}^3$]	16.78	11.71	15.94	14.66
6	CO [$\mu\text{g}/\text{m}^3$]	310.00	350.00	300.00	230.00
7	Ammonia [$\mu\text{g}/\text{m}^3$]	BDL(<10.0)	BDL(<10.0)	BDL(<10.0)	BDL(<10.0)
8	Lead [$\mu\text{g}/\text{m}^3$]	0.25	0.24	0.12	0.15
9	Ozone [$\mu\text{g}/\text{m}^3$]	BDL(<20.0)	BDL(<20.0)	BDL(<20.0)	BDL(<20.0)
10	Benzene [$\mu\text{g}/\text{m}^3$]	BDL(<1.0)	BDL(<1.0)	BDL(<1.0)	BDL(<1.0)
11	Benzo-alfa-Pyrine [ng/m ³]	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)
12	Arsenic [ng/m ³]	BDL(<2.0)	BDL(<2.0)	BDL(<2.0)	BDL(<2.0)
13	Nickel [ng/m ³]	3.30	1.70	10.90	4.20

Sr. No.	Monitoring Locations Monitoring Period/ Parameter	Dariba Village		Gandhi Sagar	
		08.06.2019	06.09.2019	07.06.2019	04.09.2019
1	PM 10 [$\mu\text{g}/\text{m}^3$]	77.97	53.08	83.10	61.22
2	PM 2.5 [$\mu\text{g}/\text{m}^3$]	30.01	25.76	37.71	28.40
3	SPM [$\mu\text{g}/\text{m}^3$]	169.96	117.00	305.56	137.77
4	SO ₂ [$\mu\text{g}/\text{m}^3$]	4.56	4.29	7.59	5.16
5	Nox [$\mu\text{g}/\text{m}^3$]	12.19	9.63	19.39	12.96
6	CO [$\mu\text{g}/\text{m}^3$]	210.00	180.00	330.00	280.00
7	Ammonia [$\mu\text{g}/\text{m}^3$]	BDL(<10.0)	BDL(<10.0)	BDL(<10.0)	BDL(<10.0)
8	Lead [$\mu\text{g}/\text{m}^3$]	0.08	0.12	0.40	0.12
9	Ozone [$\mu\text{g}/\text{m}^3$]	BDL(<20.0)	BDL(<20.0)	BDL(<20.0)	BDL(<20.0)
10	Benzene [$\mu\text{g}/\text{m}^3$]	BDL(<1.0)	BDL(<1.0)	BDL(<1.0)	BDL(<1.0)
11	Benzo-alfa-Pyrine [ng/m ³]	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)
12	Arsenic [ng/m ³]	BDL(<2.0)	BDL(<2.0)	BDL(<2.0)	BDL(<2.0)
13	Nickel [ng/m ³]	4.70	3.40	5.10	3.70

Note: Above monitoring result is based upon Environment Monitoring carried out by MoEF and NABL Approved Agency.
 * All values in $\mu\text{g}/\text{m}^3$