



JCL/JRD/ENV/2019-20/03

Date: 27.05.2019

To  
**The Joint Director,**  
Ministry of Environment, Forest & Climate Change,  
Eastern Regional Office,  
A/3, Chandrasekharpur,  
**Bhubaneswar – 751023**

**Sub: Half Yearly Compliance Report on Environmental Clearance for the period from October 2018 to March 2019.**

**Ref:** Environmental Clearance vide Letter No. IA-J-11011/111/2018-1A II (I), dated 25.05.2018 for 0.425 MTPA Coke Oven Battery (Recovery Type).

Dear Sir,

With reference to the above Environment Clearances, please find enclosed herewith the half yearly compliance report (both soft and hard copy) on Environmental Clearance for the period from October 2018 to March 2019 for 0.425 MTPA Coke Oven Battery (Recovery Type).

Thanking You,

Yours faithfully,  
**For M/s. Jindal Coke Limited**

**S.S. Upadhyay**  
**(Resident Director)**

Enclose: As Above

CC:

1. The Director, Industry – I, MOEF&CC, Indira Paryavaran Bhawan, Jor Bagh Road, Ali Ganj, New Delhi - 110003.
2. The In-Charge, Central Pollution Control Board, 502, Southend Conclave 4582, Rajdanga Main Road, Kolkata – 700017.
3. The Member Secretary, State Pollution Control Board, Odisha, A/118, Nilakantha Nagar, Unit – VIII, Bhubaneswar – 751012.



Jindal Coke Limited

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**Status of compliance report environment clearance conditions of 0.425 MTPA Coke Oven Battery (Recovery type)**

Ref: IA-J-11011/111/02018-1A II (I), dt. 25<sup>th</sup> May. 2018

**A. SPECIFIC CONDITIONS:**

S. No.	Condition	Compliance
i.	The Industry shall follow coke oven standards as per Environment (P) Act, 1986. VOCs from the coke oven shall be monitored and controlled as per CPCB guideline	<b>Being Complied.</b>
ii.	Bag filter shall be installed to control the emissions from the coal crusher section, charging fume car section of the Coke Oven Plant. Online continuous monitoring system shall be installed to monitor various pollutants and data submitted to the Ministry's Regional Office at Bhubaneswar, CPCB and OPCB. Dust suppression system shall be installed at raw material handling areas, material transfer points and solid waste dumps to control fugitive emissions. Water sprinkling shall be done on the roads to control fugitive emissions.	<p><b>Being complied.</b></p> <p>Bag filter having adequate capacity has been installed at coal crusher section, charging fume car section of the Coke Oven Plant</p> <p>Online continuous monitoring system has been installed at main stack of Coke Oven and data is being transmitted to SPCB &amp; SPCB on uninterrupted basis.</p> <p>Dust suppression system has been installed at raw material handling areas, material transfer points to control fugitive dust emission.</p> <p>The entire internal road is concrete and water sprinkling systems have been installed to control fugitive emission. Photograph is attached as <b>Annexure – I.</b></p>
iii.	No ground water shall be used for the plant. All the treated waste water shall be recycled and reused in the process and 'Zero' discharge shall be strictly adopted as per direction of OPCB. Phenolic effluent from Coke Oven complex shall be treated in the ETP of BOD Plant and recycled and reused for quenching of coke. Ammonia, Phenol and Cyanide in the effluent should be treated. Cyanide shall meet the standard of 0.2 ppm. TDS in the effluent shall not be more than 2100 mg/l. The domestic waste water after treatment in STP shall be used for green belt	<p><b>Complied.</b></p> <p>No ground water is being used in the plant. Zero discharge is being maintained for the entire plant.</p> <p>Effluent generate from process is being treated in BOD Plant and the treated water is completely reused for coke quenching. Photograph of BOD Plant is enclosed as <b>Annexure – II.</b></p> <p>Monitoring of parameters like Ammonia, Phenol and Cyanide, TDS etc. in effluent</p>

	development.	of BOD plant is being carried out in regular interval and all the parameters are well within standard. The monitoring report is being submitted to SPCB on regular basis.  The domestic waste water after treatment in is being reused for green belt development
iv.	Coke oven by-product effluent shall be treated as per notified standards and only treated effluents after meeting the norms shall be used for coke quenching. No fresh water shall be used for this purpose.	<b>Being complied.</b>  Effluent generated from Coke Oven by-product is being treated in BOD plant and the treated water is completely reused for coke quenching
v.	Ground water monitoring around the solid waste disposal site/ secured landfill (SLF) shall be carried out regularly and report submitted to the Ministry's Regional Office at Bhubaneswar / CPCB and OPCB.	<b>Being complied.</b>  As no solid waste storage area is required, hence no ground water monitoring is carried out.
vi.	Solid waste shall be disposed of in secured landfill designed as per the specifications of the CPCB. Coke breeze from Coke oven shall be sold to the parent company (JSL) for recycling	Noted and agreed.
vii.	Green belt shall be developed within and around the plant premises as per the CPCB guidelines in consultation with DFO.	<b>Being Complied.</b>
viii.	As, proposed, modified wet quenching for 1 <sup>st</sup> Coke oven battery as per CPCB guideline.	Noted.

**B. GENERAL CONDITIONS:**

S. No.	Condition	Compliance
i.	The project authorities must strictly adhere to the stipulations made by the Orissa Pollution Control Board (OPCB) and the State Government.	<b>Being Complied.</b>  JCL is strictly adhering to the stipulations made by SPCB and the State Government.
ii.	No further expansion or modifications in the plant should be carried out without prior approval of the Ministry of Environment and Forests.	Noted.

iii.	<p>The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19<sup>th</sup> May, 1993 and standards prescribed from time to time. The state board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time, the emission level shall go beyond the prescribed standards. On-line continuous monitoring system shall be installed in stacks to monitor SPM and interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit. NOx burners shall be installed to control Nox levels.</p>	<p><b>Being Complied.</b></p> <p>The gaseous emissions from various process units are being monitored by in-house Environmental Laboratory. The analysis reports are being submitted to SPCB and MOEF regularly. The gaseous emissions are conforming to the standards.</p>
iv.	<p>At least four ambient air quality-monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO<sub>2</sub> and NO<sub>x</sub> is anticipated in consultation with the OPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhubaneswar/ OPCB/ CPCB once in six months.</p>	<p><b>Complied.</b></p> <p>4(four) nos. of AAQ monitoring stations have been installed at M/s. Jindal Stainless Limited, which is common for M/s. Jindal Coke Limited and M/s. Jindal Stainless Limited; as the both plant are in same premises. Monitoring of Ambient Air is being carried out for PM<sub>10</sub>, PM<sub>2.5</sub> and other gaseous parameters. Monitoring data is being submitted to both SPCB and MOEF regularly. Both Stack Analysis report &amp; ambient air quality is provided as <b>Appendix-A.</b></p>
v.	<p>In-plant control measures for checking fugitive emissions from all the vulnerable sources of Coke oven area shall also be provide. De-dusting system i.e. collection of fugitive emissions through suction hood and subsequent treatment through bag filter or any other device and finally emitted through a stack of appropriately designed and height conforming to the standards shall be provided. Fugitive emissions shall be controlled, regularly monitored and records maintained.</p>	<p><b>Being Complied.</b></p> <p>Fugitive emission monitoring is being carried out on regular basis.</p>
vi.	<p>Industrial waste water shall be properly</p>	<p><b>Being Complied.</b></p>

	collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 <sup>th</sup> May, 1993 and 31 <sup>st</sup> December, 1993 or as amended from time to time. The treated waste water shall be utilized for plantation purpose.	<p>The plant is being maintained a zero discharge plant. Industrial waste water is treated to conform to prescribed standards and fully recycled / reused in the process and various in-house applications.</p> <p>BOD plant has been installed for treatment of process water and the treated water is being reutilize in the process to reduce the fresh water consumptions.</p>
vii.	The overall noise levels in and around the plant area shall be kept 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 EIA Rules, 1989 viz. 75 dBA (daytime) and 70 (dBA) night time.	<p><b>Being Complied.</b></p> <p>Adequate measures have been taken to keep noise level within 85 dB(A) in and around plant area. Silencers, Acoustic Enclosures are provided to control noises, in various areas of the Plant.</p> <p>The Ambient Noise levels are conforming to the standards prescribed under EPA Rules, 1989.</p> <p>Noise monitoring result are enclosed as <b>Appendix-A.</b></p>
viii.	The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	<p><b>Complied.</b></p> <p>Rain water harvesting pit has been constructed to harvest the rain water / surface runoff water from plant catchment area.</p>
ix.	Occupational Health Surveillance of the workers shall be done on a regular basis and record maintained as per the Factories Act.	<p><b>Being Complied.</b></p> <p>Occupational health surveillance of the workers is being carried out on a regular basis and records are being maintained as per the Factories Act.</p>
x.	Recommendations made in the CREP guidelines issued for the steel plants shall be implemented.	<p><b>Being Complied.</b></p> <p>CREP guidelines are being followed.</p>

<p>xi.</p>	<p>The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/ EMP report for Coke oven plant.</p>	<p><b>Being Complied.</b></p> <p>The Plant has taken all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further the unit has undertaken various CSR related activities (which are common for M/s. JSL, M/s. JUSL &amp; M/s. JCL) for peripheral development including community development, educational development, safe drinking water supply, good sanitation of the villagers etc.</p> <p>CSR report is enclosed as <b>Annexure – III.</b></p>
<p>xii.</p>	<p>The project authorities shall utilize Rs. 6.0 Crores earmarked for the environment pollution control measures judiciously to implement the conditions stipulated by the Ministry Of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for other purpose.</p>	<p>Noted</p>
<p>xiii.</p>	<p>The regional office of the Ministry at Bhubaneswar/ CPCB/ OPCB will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.</p>	<p><b>Being Complied.</b></p> <p>Six monthly compliance report and monitored data is being submitted to the Ministry regularly for undivided JSL. The six monthly compliance report and the monitoring data for M/s. JCL is enclosed.</p>
<p>xiv.</p>	<p>The project proponent shall inform to the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the OPCB/ Committee and may also be seen at Website of the Ministry Of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the</p>	<p><b>Complied.</b></p>

	locality concerned and a copy of the same shall be forwarded to the regional Office..	
xv.	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	<b>Complied.</b>
xvi.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted.
xvii.	The Ministry reserves the right to stipulate additional conditions if found necessary. The company in a time bound manner will implement these conditions	Noted.
xviii.	The above conditions will 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 Waste (Management & Handling) Rules, 2016 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.	<b>Being Complied.</b>