To

M/s Jindal Saw Ltd.,
Village Pur, Tehsil and District Bhilwara,
Rajasthan.

Subject: Integrated Steel Plant (Pellet Plant 1.5 MTPA, Blast furnace 10,65,000 TPA, DRI plant 6,50,000, 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) of M/s Jindal Saw Ltd., located at near Village Pur, Tehsil and District Bhilwara, Rajasthan. – Environmental Clearance regarding.

Sir,

This has reference to your online application No. IA/RJ/IND/27618/2014 dated 23rd May, 2016 along with copies of EIA/EMP report seeking environmental clearance under the provisions of the EIA Notification, 2006 for the project mentioned above. The ToR’s to the project were prescribed by MoEFCC vide letter No. F. No. J-11011/293/2014-IA.II(I) dated 17th November, 2014 and an amendment in the TORs were prescribed on 11.9.2015 for the preparation of EIA and EMP report. The proposed project activity is listed at S.No. 3(a) in Metallurgical industries (ferrous & non ferrous) under Category ‘A’ of the Schedule of EIA Notification 2006.

2.0 The project of M/s Jindal Saw Limited located in Village Pur, Tehsil and District Bhilwara is for setting up of a new steel plant for production of 1.0 MTPA of billets / rounds and TMT bars through Blast Furnace - Basic Oxygen Furnace (BOF) - Sponge Iron Plant (DRI) - Ladle Refining Furnace-Vacuum Degassing (VD) / Vacuum Oxy Decarburization (VOD) - Continuous Casting - Rolling Mill route. The name and production capacity of each unit of the proposed integrated steel plant is given below:

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of Unit</th>
<th>Size of the unit</th>
<th>Production capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Blast Furnace</td>
<td>1200 cu.m</td>
<td>10,65,000 TPA Hot Metal</td>
</tr>
<tr>
<td>2</td>
<td>DRI Plant</td>
<td>4 x 500 TPD</td>
<td>6,50,000 TPA Sponge Iron</td>
</tr>
</tbody>
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Environmental Clearance for Integrated Steel Plant of M/s Jindal Saw Ltd., located at near Village Pur, Tehsil and District Bhilwara, Rajasthan.
<table>
<thead>
<tr>
<th></th>
<th>Basic Oxygen Furnace (BOF)</th>
<th>100 tons</th>
<th>10,00,000 TPA Liquid Steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Steel Refining</td>
<td>LRF + VD / VOD</td>
<td>100 t with matching capacity BOF</td>
</tr>
<tr>
<td>5</td>
<td>Continuous Casting Machine</td>
<td>9/16, 5-strand combi-caster</td>
<td>10,00,000 TPA Steel Rounds and Billets</td>
</tr>
<tr>
<td>6</td>
<td>Rolling Mill</td>
<td>Rebar / TMT</td>
<td>7,25,000 TPA</td>
</tr>
<tr>
<td>7</td>
<td>Captive Power Plant</td>
<td>75 MW</td>
<td>Through recovery of waste heat and gases</td>
</tr>
<tr>
<td>8</td>
<td>Supporting Utilities</td>
<td>-</td>
<td>RMH Yard, DM Plant, Oxygen Plant, Laboratory,</td>
</tr>
<tr>
<td>9</td>
<td>Pellet Plant</td>
<td>Pellets plant</td>
<td>15,00,000 TPA</td>
</tr>
</tbody>
</table>

3.0 The total land required for the project is 76 acres, which is barren land (100% is Government Land). No forestland involved. Out of 76 acres mentioned above, 48 acres land has been acquired for the project and allotment of 28 acres by state government is under process. No River or stream passes through the project area. It has been reported that no water body exist around the project and modification / diversion in the existing natural drainage pattern at any stage has not been proposed. The topography of the area is flat and reported to lies between The Latitude is 25°18'56.32" to 25°19'57.12" N and Longitude is 74°32' 15.76" to 74°33'4.86" E in Survey of India Toposheet No at an elevation of 440 m AMSL. Groundwater will not be taken for the project. No national park/wildlife sanctuary/biosphere reserve/tiger reserve/elephant reserve etc. are reported to be located in the core and buffer zone of the project.

4.0 The iron ore for the plant would be procured from adjacent mines owned by Jindal Saw Limited. The iron ore transportation will be done through conveyors.

5.0 The water requirement of the project is estimated as 13850 m³/day. Jindal Saw Limited will use treated Sewage water of Bhilwara town. No freshwater will be used. The power requirement of the project is estimated as 90 MW out of which 75 MW will be obtained from proposed captive power plant and balance from grid. It has been reported that there are no people are present in the core zone of the project. No R&R is involved.

6.0 It has been reported that 27000 tons/month blast furnace slag shall be given for cement making, 6000 tons/month dolochar shall be given for power generation. 8000 tons per month SMS slag shall be partially reused in blast furnace and balance converted to slag balls and sold. 400 tons per month mill scales will be reused in pellet plant. It has been envisaged that an area of 25.4 acres (33% of 76 acres) will be developed as greenery to attenuate the noise levels and trap the dust generated due to the project development activities.

Environmental Clearance for Integrated Steel Plant of M/s Jindal Saw Ltd., located at near Village Pur, Tehsil and District Bhilwara, Rajasthan.
7.0 The Public hearing of the project was held on 19.1.2016 at Darak Stadium, Pur Village for setting up of the proposed steel plant, under the chairmanship of ADM. The issues raised during public hearing are related to employment in the project and infrastructure development in nearby villages. The capital cost of the project is Rs.2000 Crores and the capital cost for environmental protection measures is proposed as Rs.152 crores. The annual recurring cost towards the environmental protection measures is proposed as Rs 15 crores. The proponent has mentioned that there is no court case to the project or related activity.

8.0 The proposal was earlier considered during the 8th meeting of Expert Appraisal Committee (EAC) (Industry-I) held on 27th - 28th June, 2016 and again in the 12th meeting held on 27th -28th October, 2016 and recommended the project for Environmental Clearance and stipulated Specific Conditions along with other environmental conditions while considering for accord of environmental clearance.

9.0 The Ministry of Environment, Forest and Climate Change has considered the application based on the recommendations of the Expert Appraisal Committee (Industry-I) and hereby decided to grant environmental clearance to the above mentioned Integrated Steel Plant (Pellet Plant 1.5 MTPA, Blast furnace 10,65,000 TPA, DRI plant 6,50,000, 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 of M/s Jindal Saw Ltd., under the provision of EIA Notification dated 14th September, 2006, as amended, subject to strict compliance of the following Specific and General conditions:

A. SPECIFIC CONDITION:

i. The project proponent should install 24x7 air monitoring devices to monitor air emission and submit report to Ministry and its Regional Office.

ii. The ETP for Blast furnace effluent should be designed to meet Cyanide standards as notified by the MoEFCC.

iii. No effluent shall be discharged outside the plant premises and ‘zero’ discharge shall be adopted.

iv. On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices viz. Electrostatic precipitator (ESP), and bag filters etc. shall be provided.

v. In-plant control measures and dust suppression system shall be provided to control fugitive emissions from all the vulnerable sources. Dust extraction and suppression system shall be provided at all the transfer points, coal handling plant and coke sorting plant of coke oven plant. Bag filters shall be provided to hoods and dust collectors to coal and coke handling to control dust emissions. Water sprinkling
system shall be provided to control secondary fugitive dust emissions generated during screening, loading, unloading, handling and storage of raw materials etc.

vi. The emission standards specified in the Environmental (Protection) Amendment Rules, 2015 issued by vide SO -3305 (E) dated 7th December, 2015 for the Thermal Power Plant shall be strictly adhered to.

vii. The Standards issued by the Ministry vide G.S.R. 277(E) dated 31st March, 2012 shall be strictly adhered to.

viii. Hot gases from DRI Kiln should be passed through dust settling chamber (DSC) to remove coarse solids 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.

ix. Efforts 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.

x. A statement on carbon budgeting including the quantum of equivalent CO2 being emitted by the existing plant operations, the amount of carbon sequestered annually by the existing green belt and the proposed green belt and the quantum of equivalent CO2 that will be emitted due to the proposed expansion shall be prepared by the project proponent and submitted to the Ministry and the Regional Office 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 months and subsequently it should be prepared every year.

xi. For the employees 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 hr continuously. Such employees would be invariably provided with proper protective equipments, garments and gears such as head gear, clothing, gloves, eye protection etc. There should also be an arrangement for sufficient drinking water at site to prevent dehydration etc.

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 months of issue of environment clearance letter.

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 re-used 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.

xiv. Green belt shall be developed in 33% of plant area. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO. Intervening space between the planted trees should be used for growing fodder and grass species.

xv. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants and Coke Oven Plants shall be implemented.

xvi. At least 2.5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues, locals need and item-wise details along with time bound action plan 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.

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 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 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, Measurable, 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.

xviii. All the commitments 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.

xix. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
B. GENERAL CONDITIONS:

i. The project authorities must strictly adhere to the stipulations made by the Rajasthan 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, Forests and Climate Change (MoEFCC).

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 Lucknow and the SPCB/CPCB once in six months.

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 form time to time. The treated wastewater shall be utilized for plantation purpose.

v. The overall noise levels in and around the plant area shall 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 (nighttime).

vi. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

vii. The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.

viii. The project proponent shall 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.

ix. 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 Lucknow. The funds so provided shall not be diverted for any other purpose.
x. 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.

xi. 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 Lucknow. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM10, SO2, 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.

xii. 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 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.

xiii. 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, 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 Lucknow by e-mail.

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, Forests 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 Lucknow.

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.

10.0 The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
11.0 The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

12.0 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 & Other Waste (Management and Transboundary Movement) Rules, 2016 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.

(Sharath Kumar Pallerla)
Scientist ‘F’

Copy to:-

1. The Secretary, Department of Environment, Government of Rajasthan.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi, 110032.
3. The Chairman, Rajasthan State Pollution Control Board, 4, Jhalana Institutional Area, Jhalana Doongri, Jaipur, Rajasthan 302004.
4. The Additional Principal Chief Conservator of Forests (C), Ministry of Environment Forest and Climate Change, Regional Office (CZ) Kendriya Bhawan, 5\textsuperscript{th} Floor, Sector “H” Aliganj, Lucknow-226020.
5. Guard File / Record File/Monitoring file.

(Sharath Kumar Pallerla)
Scientist ‘F’

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