

Ref: JSL/BHL/Pellet/2019-20/ 152

Date: 14.11.2019

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 1.5 MTPA Pellet Plant (after capacity enhancement) of M/s Jindal Saw Limited, Bhilwara.

Ref: 1. Environment Clearance letter No. F. No. J-11011/371/2014-IA II (I) dated 28.06.2017.
2. Environment Clearance letter No. F. No. J-11011/371/2014-IA II (I) dated 23.09.2016.

Dear Sir,

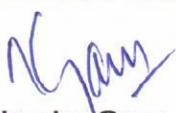
With reference to the above subject matter and referred letter, we are submitting herewith Six monthly point-wise compliance report of above environment clearance conditions for the period from 1st Apr' 2019 to 30th Sep' 2019.

As a part of this compliance report we are enclosing summarized environment monitoring result which is based upon Environment Monitoring and analysis carried out by MoEF and NABL accredited lab.

This is submitted for your kind information 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, Rajasthan, 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 1.5 MTPA Pellet Plant

M/s Jindal Saw Limited, Bhilwara

(Environment Clearance granted on 23 Sep'2016 and 28 Jun' 2017)

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

Date: 14/11/2019

	A. Specific Conditions	Compliance Status
i.	The project proponent should install 24x7 air monitoring devices to monitor air emission, as provided by CPCB and submit report to Ministry and its Regional Office.	<p>Ambient air monitoring stations have been installed for monitoring air emission and the reports are submitted on quarterly basis to RPCB. Monitoring results for last six months i.e. 1st Apr' 2019 to 30th Sep' 2019 are enclosed as Annexure-I.</p> <p>Online Ambient Air Quality Monitoring station to monitor air quality has been installed on 30.12.2017. Installation photographs of same have been submitted to MoEF, CPCB, and RPCB along with HY compliance report through Letter No. JSL/ BHL/Pellet/2018-19/114 dated 12.06.2018.</p>
ii.	Continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices viz, Electrostatic precipitator (ESP), bag house, bag filters etc. shall be provided to keep the emission levels below 50 mg/Nm ³ and installing energy efficient technology.	<p>To achieve the prescribed norms as specified: In Rotary Kiln ESP has been installed along with 120 m. adequate stack height. In Coal grinding sections, Bag filter with adequate stack height has been installed.</p> <p>Online stack emission monitoring system has been installed in all two stacks. Installation photographs of the same have been submitted to MoEF, CPCB, and RPCB along with HY compliance report through Letter No. JSL/ BHL/Pellet/ 2017-18/97 dated 05.11.2017.</p> <p>Stack Emission monitoring is being carried out by MoEF & GOI approved lab on quarterly basis Monitoring results for last six months Apr' 2019 to Sep' 2019 are enclosed as Annexure-II</p>
iii.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826 (E) dated 16th November, 2009 shall be followed.	<p>The ambient air quality standards as prescribed vide MoEF&CC Notification dated 16th Nov. 2009 with respect to NAAQ is being complied. 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.	Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry by the Ministry vide G.S.R. 414 (E) dated 30 th May, 2008 and regularly monitored. Guideline/ Code of practice issued by the CPCB shall be followed.	Guidelines/codes of practice issued by CPCB are followed. Quarterly reports are sent to RPCB, Jaipur and Regional office, Bhilwara. Monitoring results of Gaseous emission levels including secondary fugitive emissions from all the sources for last six months i.e. Apr' 2019 to Sep' 2019 is enclosed as Annexure- II&III.
v.	Vehicular pollution due to transportation of raw material and finished product shall be controlled. Proper arrangement shall also be made to control dust emissions during loading and unloading of the raw material and finished product.	To avoid vehicle pollution main Raw material i.e. iron ore concentrate transported through closed conveyors from JSAW Beneficiation Plant to Pellet Plant, vehicle used for transportation of finished product regularly maintained on routine interval.
vi.	'Zero' effluent discharge shall be strictly followed and no waste water shall be discharged outside the premises.	We are following "Zero" discharge system. There is no generation of effluent from pellet manufacturing process. Domestic sewage generated from Pellet Plant complex is being treated in STP unit and treated water is completely reused in plantation / horticulture purpose.
vii.	Regular monitoring of influent and effluent surface, sub-surface and ground water shall be ensured and treated waste water shall meet the norms prescribed by the State Pollution Control Board or described under the Environment (Protection) Act whichever are more stringent.	Domestic sewage water generated from office toilets and plant building is being treated in 15 KLD STP unit based on green bio filter bed technology and treated water is being used for plantation / horticulture purpose. STP treated water quality monitoring results are enclosed as Annexure-IV
viii.	Proper handling, storage, utilization and disposal of all the solid waste shall be ensured and regular report regarding toxic metal content in the waste material and its composition, end use of solid/hazardous waste shall be submitted to the Ministry's Regional Office, SPCB and CPCB.	Generated solid waste i.e. ESP dust is being reused (100 % recycle) in the preparation of green pellet by dispatching to proportioning room, there is no toxic metal content in waste material and its composition.
ix.	A time bound action plan shall be submitted to reduce solid waste generated due to the project related activity, its proper utilization and disposal.	Generated solid waste i.e. ESP dust is being reused and completely utilized for preparation of green pellet. There is no long time storage required for same.
x.	A Risk and Disaster Management Plan 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.	Risk and Disaster Management plan has been submitted to MoEF&CC, Delhi and its Regional Office-Lucknow, RPCB and CPCB along with six monthly compliance report sent on 20.12.2016.

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xi.	Green belt over 33% of the total project area shall be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of the project area and along road sides etc. by planting native and broad leaved species in consultation with local DFO, local community and as per the CPCB guidelines.	Total green cover area in pellet plant site is 3.66 hectare Up to Sep 2019 with around 3976 nos. plants. In pellet plant area we are strengthening green belt area in phase manner and our target is to cover minimum 33% green belt cover area.
xii.	The Company shall submit within three months their policy towards Corporate Environment Responsibility which shall inter-alia address (i) Standard operating process/procedure to bring into focus any infringement/deviation/ violation of environmental or forest norms/conditions, (ii) Hierarchical system or Administrative order of the Company to deal with environmental issues and ensuring compliance to the environmental clearance conditions and (iii) System of reporting of noncompliance/ violation environmental norms to the Board of Directors of the company and/or stakeholders or shareholders.	Policy towards Environment Responsibility has been submitted along with the six monthly compliance report sent on 19.12.2016 to MoEF & CC, Delhi and its Regional Office-Lucknow, RPCB and CPCB.
xiii.	The project proponent shall provide for solar light system for all common areas, street lights, villages, parking around project area and maintain the same regularly.	Solar light systems has been installed in plant office and weigh bridges area etc. Solar system implementation in parking area has been installed on Dec' 2017. Photographs of solar light system installed in vehicle parking have been submitted to MoEF, CPCB, and RPCB along with HY compliance report through Latter No. JSL/ BHL/Pellet/2018-19/114 dated 12.06.2018.
xiv.	The project proponent shall provide for LED lights in their offices and residential areas.	LED light has been installed in most of the plant and office area, as mentioned we have also replaced plant street light from normal halogen to LED light. Photographs of LED Street light implementation have been submitted to MoEF, CPCB, and RPCB along with HY compliance report through Latter No. JSL/ BHL/Pellet/2018-19/114 dated 12.06.2018.
xv.	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.	Details of CSR funds allocated in consultation with committee and expenditure incurred towards ESC is enclosed as Annexure-V .

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xvi.	<p>In addition to the above provision of ESC, the proponent shall prepare a detailed CSR Plan for the next 5 years including annual physical and financial targets for the existing-cum-expansion project, which includes village-wise, sector-wise (Health, Education, Sanitation, Skill Development and infrastructure 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.</p>	<p>Details of CSR funds allocated in consultation with committee and expenditure incurred towards ESC is enclosed as Annexure-V.</p>
xvii.	<p>Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities mandatorily such as LPG 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.</p>	<p>Maximum workers are from nearby villages. After end of days work they go back to their houses. Therefore, need for temporary structures have not arisen.</p>

B. General Condition :

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 in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change (MoEFCC)</p>	<p>Being complied. Environmental Clearance for Pellet Plant Capacity Expansion by 0.30 MTPA i.e. from 1.2 MTPA (existing) to 1.5 MTPA (final after expansion) has granted by MoEF vide letter no. F. No. J-11011 /371/2014-IA II (I) dated 28th June' 2017.</p>

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 PM 10, PM 2.5, 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 month.	Ambient Air Quality monitoring station has been installed for monitoring ambient air quality and the reports are submitted on Half yearly basis to MoEF&CC, CPCB and RPCB. Monitoring results for last six months i.e. Apr' 2019 to Sep' 2019 are enclosed as Annexure-I
iv.	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 31 st December 1993 or as amended form time to time. The treated waste water shall be utilized for plantation purpose.	There is no industrial waste water was discharged from the manufacturing process. Domestic sewage water generated from office toilets and plant building is treated in 15 KLD STP unit based on green bio filter bed technology and treated water completely used for plantation / horticulture purpose. STP treated water quality monitoring results are enclosed as Annexure-IV
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 are being taken for control of noise in the work environment area. Acoustic enclosure has already been provided in both DG Sets installed in pellet unit for emergency power backup. The noise level monitoring reports are enclosed as Annexure-VI.</p> <p>Proper PPE are provided to the workers engaged in the operations.</p>
vi.	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per the Factory Act.	Pre-employment Medical Tests examination is under practice. It is being repeated periodically to observe any contractions. Record is being maintained as per guideline.
vii.	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.	Two Nos. Rain water harvesting / ground water recharge structure has been installed in pellet plant area for preservation and recharge of ground water.
viii.	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>Environment protection measure is being implemented as recommended in EIA/EMP.</p> <p>Following Rural Development / CSR activities already under practice by M/s Jindal Saw Ltd. in Bhilwara Units:</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

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		<p>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. Drinking water RO Installation in schools 13. Rain Water harvesting under Mukhyamantri Jal Swavlamban Abhiyan (MJSA).</p>												
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>Requisites fund detail towards for environment pollution control measures is mentioned below.</p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Particulates</th> <th>Proposed</th> <th>Actual Expenditure</th> </tr> </thead> <tbody> <tr> <td>01</td> <td>Capital Cost</td> <td>15 Crores</td> <td>16.6 Crores</td> </tr> <tr> <td>02</td> <td>Recurring Cost</td> <td>40 Lakhs</td> <td>26.9 Lakhs in (2019-20 upto Sep 2019)</td> </tr> </tbody> </table>	Sr. No.	Particulates	Proposed	Actual Expenditure	01	Capital Cost	15 Crores	16.6 Crores	02	Recurring Cost	40 Lakhs	26.9 Lakhs in (2019-20 upto Sep 2019)
Sr. No.	Particulates	Proposed	Actual Expenditure											
01	Capital Cost	15 Crores	16.6 Crores											
02	Recurring Cost	40 Lakhs	26.9 Lakhs in (2019-20 upto Sep 2019)											
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 clearance letter has been sent to all concerned and it has been put on the website of the company on 20th Jul' 2017. EC forwarding letter acknowledgement copy has been sent to MoEF, CPCB, and RPCB along with Six Monthly compliance report through Letter No. JSL/BHL/Pellet/2017-18/97 date 05.11.2017.</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 MOEF&CC at Lucknow. The respective Zonal Office of CPCB and SPCB. The criteria pollutant level namely, PM 10, SOx, NOx (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>Status of compliances of the stipulated environment clearance conditions, including result of monitored data is being uploaded in company website on routine interval. The same compliance report is being sent to Regional Office of MOEF&CC at Lucknow, Zonal Office of CPCB Bhopal and SPCB Head office Jaipur and Regional Office Bhilwara. Presently monitored data displayed at main gate of the company in the Public domain.</p>												

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xii.	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 MoEF&CC, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Lucknow/CPCB/SPCB shall monitor the stipulated conditions.	The Compliance Report for the period from 01 st Apr' 2019 to 30 th Sep' 2019 is enclosed herewith. Six monthly reports on the status of the compliance of the stipulated environment condition including result of monitored data is being sent to Regional Office of MOEF&CC at Lucknow, Zonal Office of CPCB Bhopal and SPCB Head office Jaipur and Regional Office Bhilwara.
xiii.	The environment statement for each financial year ending 31 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 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 MoEF&CC at Lucknow by e-mail.	Complied, Annual Environment Statement 2018-19 has been submitted to RPCB Bhilwara, RPCB Jaipur and Regional office MoEF&CC Lucknow on 19.09.2019.
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 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 sent to MoEF&CC Lucknow and RPCB Jaipur and Bhilwara. Public Notice forwarding letter acknowledgement copy has been sent to MoEF, CPCB, and RPCB along with HY compliance report through Letter No. JSL/BHL/Pellet/2017-18/97 dated 05.11.2017.
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. Project was commissioned in 2013 after getting CTE and CTO from RPCB. In compliance to the NGT order pertains to regularisation of existing 1.2 MTPA pellet plant EC has accorded by MoEF dated 23 rd Sep' 2016 and EC for Pellet Plant Capacity Enhancement from 1.2 MTPA to 1.5 MTPA has granted by MoEF dated 28 Jun' 2017.

For: Jindal Saw Limited

(Rajendra Gaur)
Authorized Signatory

Summarized Ambient Air Quality Monitoring Results (Apr 2019 to Sep 2019)

Iron Ore Pellet Plant, Jindal Saw Limited , Bhilwara

Sr. No.	Monitoring Locations Monitoring Period/ Parameter	Nr. Staff Canteen Area						Tiranga House					
		10.04.2019	03.05.2019	11.06.2019	04.07.2019	05.08.2019	03.09.2019	10.04.2019	01.05.2019	10.06.2019	04.07.2019	05.08.2019	02.09.2019
1	PM 10 [$\mu\text{g}/\text{m}^3$]	78.05	82.37	85.48	88.75	67.01	67.87	71.40	79.43	74.93	86.47	61.64	51.53
2	PM 2.5 [$\mu\text{g}/\text{m}^3$]	26.04	30.59	37.33	31.84	27.77	26.79	26.07	32.77	39.24	34.22	30.69	27.86
3	SPM [$\mu\text{g}/\text{m}^3$]	243.10	248.20	235.69	261.03	183.56	148.72	265.46	258.15	312.00	230.11	132.91	166.19
4	SO ₂ [$\mu\text{g}/\text{m}^3$]	7.10	6.59	7.64	8.71	4.52	7.75	7.17	4.68	7.22	5.86	3.17	5.06
5	Nox [$\mu\text{g}/\text{m}^3$]	12.77	14.28	15.77	15.62	12.21	12.45	13.69	10.52	16.89	14.74	11.23	10.87
6	CO [$\mu\text{g}/\text{m}^3$]	320.00	310.00	330.00	310.00	250.00	310.00	240.00	280.00	310.00	280.00	270.00	340.00
7	Ammonia [$\mu\text{g}/\text{m}^3$]	-	-	BDL(<10.0)	-	-	BDL(<10.0)	-	-	BDL(<10.0)	-	-	BDL(<20.0)
8	Lead [$\mu\text{g}/\text{m}^3$]	-	-	0.23	-	-	0.21	-	-	0.19	-	-	0.22
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]	-	-	3.10	-	-	2.40	-	-	2.50	-	-	2.00

Sr. No.	Monitoring Locations Monitoring Period/ Parameter	220 KVA Switch Yard						Nr. Mineral Benefication Plant - B					
		10.04.2019	03.05.2019	11.06.2019	03.07.2019	04.08.2019	05.09.2019	10.04.2019	02.05.2019	09.06.2019	03.07.2019	05.08.2019	02.09.2019
1	PM 10 [$\mu\text{g}/\text{m}^3$]	76.32	88.74	87.93	78.53	63.44	72.37	89.92	83.27	87.55	78.90	66.23	58.44
2	PM 2.5 [$\mu\text{g}/\text{m}^3$]	29.92	40.94	25.77	25.41	30.13	11.62	37.17	37.00	31.44	29.06	28.28	26.17
3	SPM [$\mu\text{g}/\text{m}^3$]	336.93	297.22	235.20	210.12	221.16	155.46	277.38	240.86	267.09	245.88	141.27	151.13
4	SO ₂ [$\mu\text{g}/\text{m}^3$]	5.84	5.59	6.99	7.42	4.29	6.98	6.38	5.59	6.47	8.54	3.58	5.89
5	Nox [$\mu\text{g}/\text{m}^3$]	16.97	13.80	16.78	16.45	12.08	11.71	17.45	12.75	16.69	15.69	12.08	10.98
6	CO [$\mu\text{g}/\text{m}^3$]	280.00	290.00	310.00	300.00	221.16	350.00	320.00	320.00	300.00	310.00	300.00	350.00
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	-	-	0.22	-	-	0.25
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	-	-	2.60	-	-	2.10

Note: Above monitoring result is based upon Environment Monitoring carried out by MoEF and NABL Approved Agency.

* All values in $\mu\text{g}/\text{m}^3$

Summarized Stack Emission Monitoring for the period of Apr 2019 to Sep 2019
Iron Ore Pellet Plant, Jindal Saw Limited , Bhilwara

Location /Month	Rotary Kiln	Coal Grinding Mill
	Stack Monitoring Result	Stack Monitoring Result
	PM (mg/Nm3)	PM (mg/Nm3)
Apr-19	36.70	28.44
May-19	35.26	39.10
Jun-19	36.96	30.39
Jul-19	25.54	28.57
Aug-19	28.76	23.36
Sep-19	25.67	28.71
Min	25.54	23.36
Max	36.96	39.10
Average	31.48	29.76

Location /Month	D.G. Set 750 KVA (Kirloskar)				
	PM (g/KW-hr)	SO2 (g/KW-hr)	NO2 (g/KW-hr)	CO (g/KW-hr)	HC (g/KW-hr)
Jun-19	0.16	BDL(<0.02)	3.06	0.85	0.18
Sep-19	0.13	BDL(<0.02)	2.61	0.91	0.25
Min	0.13	BDL	2.61	0.85	0.18
Max	0.16	BDL	3.06	0.91	0.25
Average	0.15	BDL	2.84	0.88	0.22

Location /Month	D.G. Set 563 KVA (Magnamax)				
	PM (g/KW-hr)	SO2 (g/KW-hr)	NO2 (g/KW-hr)	CO (g/KW-hr)	HC (g/KW-hr)
Jun-19	0.13	BDL(<0.02)	2.65	0.74	0.15
Sep-19	0.11	BDL(<0.02)	2.77	0.89	0.2
Min	0.11	BDL	2.65	0.74	0.15
Max	0.13	BDL	2.77	0.89	0.2
Average	0.12	BDL	2.71	0.82	0.18

Note:- Above monitoring result is based upon Environment Monitoring carriedout by MoEF and NABL Approved Agency

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Summarized Fugitive Emission Air Quality Monitoring Result for the period of Apr 2019 to Sep 2019		
Iron Ore Pellet Plant, Jindal Saw Limited , Bhilwara		
Location /Month	Bentonite Storage Area (Near Balling Disc Building) SPM (ug/m3)	Coal Pulvorize Area (Near Nitrogen Plant) SPM (ug/m3)
Jun-19	476.19	442.49
Sep-19	324.66	373.92
Min	324.66	373.92
Max	476.19	442.49
Average	400.43	408.21

Note:- Above monitoring result is based upon Environment Monitoring carriedout by MoEF and NABL Approved Agency

ACG

Annexure-IV

**Summarized Water Quality Monitoring 15 KLD STP Outlet Period of Apr 2019 - Sep 2019
Iron Ore Pellet Plant, Jindal Saw Limited , Bhilwara**

Sr. No.	Date of Monitoring /Parameter	Unit	STP Outlet (15 KLD STP Unit)	
			11.06.2019	07.09.2019
1	pH Value	mg/l	7.52	7.32
2	Total Suspended Solid	mg/l	48	26
3	Oil & Grease	mg/l	5	6
4	Biological Oxygen Demand (3 days)	mg/l	7	11
5	Chemical Oxygen Demand	mg/l	21.28	32.03
6	Ammonical Nitrogen as NH ₄ -N	mg/l	8.79	8.26
7	Total Kjeldahal Nitrogen as N	mg/l	22.2	20.56
8	Total Residual Chlorine	mg/l	0.2	0.2
9	Chroride as Cl	mg/l	955.94	742.46
10	Sulphide	mg/l	BDL(<0.1)	BDL(<0.1)

Note:- Above monitoring result is based upon Environment Monitoring carriedout by MoEF and NABL Approved Agency

AC

Details of CSR Funds allocated released and expenditure incurred
Pellet Plant, M/s Jindal Saw Limited, Bhilwara

Period	Year Wise Expenditure Planning (Rs. Lacs)	Year-Wise Actual Expenditure (Rs. Lacs)	Name of CSR Activities	Whether Completed or not
2012-13	200	207.54	Village Development, Blood donation / Medical camp, Medical Relief, School Development, Contribution to Marriages, Art and culture, Construction of rooms in hostel for special privilege children, Sports Activities, Drinking Water Facilities, Education, Community Drainage Maintenance - (MCB), Community Parks Maintenance - (MCB), Cultural Activities, Animal Fodder to Villages (Three), Payment for Social Development, Rural Sports, Cultural Activities	Completed
2013-14	250	281.36	Art and culture, Construction of rooms in hostel for special privilege children, Disaster Relief, School Development, Village Development, Community Parks Maintenance, Cultural Activities, Blood donation/ Medical camp, Medical Relief, Rural Sports, Community Drainage Maintenance (MCB), Community Parks Maintenance, Drinking Water	Completed
2014-15	475	479.72	Hygiene Cleaning/ Housekeeping (MG Hospital), Plantation works, Construction of 8 rooms in hostel for special privilege children, Sports Activities, Blood donation / Medical camp, Animal Fodder to Villages, Village Development, Community Drainage Maintenance-(MCB), Community Parks & Drainage Maintenance, Community Parks Maintenance, School Development, Plantation in lease area villages, Cultural Activities,	Completed
2015-16	700	715.25	Construction of rooms in hostel for special privilege children, Art and culture, Hygiene Cleaning/ Housekeeping (MG Hospital), Sports Activities, Community facilities Projects, School Development, Blood donation / Medical camp, Village Development, Drinking Water Facilities, Nepal Disaster Relief, Accidental Relief, Health care, Art and culture, Animal Fodder to Villages, Rural Sports, Community Parks & Drainage Maintenance-(MCB)	Completed
2016-17	700	809.70	Art and culture, Restore Heritage site, Community facilities Projects, Hygiene Cleaning/ Housekeeping (MG Hospital), Plantation Works, Construction of rooms in hostel for special privilege children, Animal Fodder to Villages, Armed force veterans, Health care, Promote special Education, Rural Sports, Rajasthan Heritage week 2016, Schools - Class room, Toilet, Kitchen Shed, Water Hut, etc., Water harvesting/management in 6 villages, Promote gender equality, Animal Fodder to Villages, Veterinary Cover, School Development, Blood donation / Medical camp, Village Development, Drinking Water Facilities etc, Community Parks & Drainage Maintenance - (MCB), Community facilities Projects, Animal Welfare, Mukhyamantri Jal Swavlamban Abhiyan (MJSA)	Completed
2017-18	700	637.76	(Community facilities Projects, Hygiene Cleaning/ Housekeeping (MG Hospital-Bhilwara), Fodder supply for Cattles in nearby Villages (Green/dry grass), Community Parks & Drainage Maintenance - (MCB)	Completed
2018-19	700	809.90	(Community facilities Projects, Hygiene Cleaning/ Housekeeping (MG Hospital-Bhilwara), Fodder supply for Cattles in nearby Villages (Green/dry grass), Community Parks & Drainage Maintenance - (MCB), Promote special Education, Art and culture, Armed force veterans, RUB Renovation work at Bhilwara.	Completed
2019-20	700	315.78	(Community facilities Projects, Hygiene Cleaning/ Housekeeping (MG Hospital-Bhilwara), Fodder supply for Cattles in nearby Villages (Green/dry grass), Community Parks & Drainage Maintenance - (MCB), Promote special Education, RUB Repair and Maintenance.	Upto Sep 2019
2020-21	700			-
2021-22	700			-
Total	5825	4257.01		

Total Project Cost

2.5% of Total Project Cost

CSR Expenditure upto Sep 19

324.27 (Rs. in Crore)

8.10675 (Rs. in Crore)

42.57 (Rs. in Crore)



Annexure-VI

Summarized Ambient Noise Level Monitoring Results (Apr 2019 to Sep 2019)
Iron Ore Pellet Plant, Jindal Saw Limited , Bhilwara

Sr. No.	Location of Sampling/ Month	Date of Monitoring	Near Proportioning & HPGR Building		Date of Monitoring	Near Balling Disc Building	
			Results in dB(A) (Day Time)	Results in dB(A) (Night Time)		Results in dB(A) (Day Time)	Results in dB(A) (Night Time)
1	Jun-19	11.06.2019	67.2	57.6	11.06.2019	65.8	55.6
2	Sep-19	04.09.2019	67.8	56.8	04.09.2019	66.7	57.9
	Min		67.20	56.80	Min	65.80	55.60
	Max		67.80	57.60	Max	66.70	57.90
	Avg.		67.50	57.20	Avg.	66.25	56.75
Sr. No.	Location of Sampling/ Month	Date of Monitoring	D.G. Room		Date of Monitoring	Near Cooler Area	
			Results in dB(A) (Day Time)	Results in dB(A) (Night Time)		Results in dB(A) (Day Time)	Results in dB(A) (Night Time)
1	Jun-19	11.06.2019	70.8	61.3	11.06.2019	66.9	58.3
2	Sep-19	04.09.2019	65.8	56.8	04.09.2019	71.9	61
	Min		65.80	56.80	Min	66.90	58.30
	Max		70.80	61.30	Max	71.90	61.00
	Avg.		68.30	59.05	Avg.	69.40	59.65
Sr. No.	Location of Sampling/ Month	Date of Monitoring	Nitrogen Plant		Date of Monitoring	Results in dB(A) (Day Time)	Results in dB(A) (Night Time)
			Results in dB(A) (Day Time)	Results in dB(A) (Night Time)			
1	Jun-19	11.06.2019	68.0	62.1			
2	Sep-19	04.09.2019	68.7	60.5			
	Min		68.00	60.50			
	Max		68.70	62.10			
	Avg.		68.35	61.30			

Note: Above monitoring result is based upon Environment Monitoring carried out by MoEF and NABL Approved Agency.

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