JSL/JPR/2013/ Date: 20.11.2013

To

The Member Secretary,
Rajasthan State Pollution Control Board,
4, Institutional Area, Jhalana Doongari,
Jaipur-302004.

Reg: **Regarding Consent to operate under section 25/26 of the Water (Prevention & Control of Pollution)Act, 1974 and under section 21 (4) of Air (Prevention & Control of Pollution) Act, 1981 – Report for Compliance of Conditions**

Ref: **Your Order No. 2013-14/ MUID 1172 dated 17th April'13**

Sir,

We are thankful to you for according Consent to Operate of our 1.20 MTPA capacity iron ore Pellet Plant at Khasra No. 6711 & 9697/6711, village Pur , Distt. Bhilwara. The plant has been set up and started production. The first quarterly report for compliance of conditions is submitted herewith for your record and further necessary action.

Thanking you,

Yours faithfully,
For JINDAL SAW LTD.

R.S.Goyal
President (Mines)

Encls: a/a

Copy with a set of the quarterly compliance report for information to;

1. Incharge (MUID), RSPCB, Jaipur
2. Regional Officer, RSPCB, Bhilwara

Noo:

1. Director (Mines & Steel), JSL, Bhilwara
2. Mr. Shitansu Pandey, Manaager, EHS, Bhilwara
3. Jaiupr

1612 To 1614

CTO RSPCB Granted vide letter no. F (MUID)/Bhilwara (Bhilwara)/2(1)/2010-2011/384-386 dated 17.04.13

S.NO.	Compliance of Conditions				Compliance as on 20.11.13
1.	That this Consent to Operate is valid for a period from 29.01.13 to 31.12.2015.				Noted
2.	That the consent is granted for manufacturing/producing following products/by products or carrying out the following activities or operation/processes or providing following services with capacities given below:				Noted
	Particulars	Type	Capacity		
	Pellet	Product	1.20 million tons per annum		
3.	That this consent to operate is for existing plant, process and capacity and separate consent to establish/operate is required to be taken for any addition/modification/ alteration in process or change in capacity or change in fuel.				We shall take separate CTE & CTO for any addition/modification/ alteration in the process/ change in capacity/ change in fuel.
4.	That the quantity of effluent generation and disposal along with mode of disposal for the treated effluent shall be as under:				Generation of domestic sewage in the Pellet Plant complex is 11.0 KLD.
	Type of Effluent	Max. effluent generation (KLD)	Recyled Qty. of Effluent (KLD)	Disposed of effluent (KLD) and mode of disposal	
	Domestic Sewage	11.000	Nil	11.000 on land for plantation/ Horticulture etc.	
5.	That the sources of air emissions alongwith pollution control measures and the emission standards for the prescribed parameters shall be as under: -				*The DG Set has been provided with Acoustic enclosures and 4.8 m. high stacks over the building for discharge of emissions.*
	Source of Air Emissions	Pollution Control Measures	Prescribed		
			Parameters	Standard	
	One DG Set (563 KVA)	ACOUSTIC ENCLOSURE WITH ADEQUATE STACK HEIGHT		-	
	Rotary Kiln	ESP and Stack			
6.	That the industry shall maintain the following pollution control measures and fugitive emission				*Bag filters have been provided for coal pulverizing and Bentonite grinding. The SPM has been recorded as 257.88 and 218.33 µg/m^3 and 44.58 bg/m^3 in the plant area at 3*
	Source of fugitive Emission	Pollution Control Measures	Prescribed		
			Parameter	Standard	

	Coal Pulverizer & Grinding of Bentonite	1. BAG FILTER	SPM	600 $\mu g/m^3$ to be measured at a distance of 3 to 10 meters from the process	*to 10m distance. Copy enclosed as Annexure I & II & IIA.*
7.	That the domestic sewage shall be treated before disposal so as to conform to the standards prescribed under the Environment (Protection) Act, 1986 for disposal into Inland Surface Water. The main parameters for regular monitoring shall be as under:				No domestic sewage is disposed into Inland surface water or Land. For the present, it is treated in septic land and disposed of in soak pit.
	Parameters	Standards			
	Total Suspended Solids	Not to exceed 100 mg/l			
	pH Value	Between 5.5 to 9.0			
	Oil and Grease	Not to exceed 10 mg/l			
	Biochemical Oxygen Demand (3days at 27°)	Not to exceed 30mg/l			
	Chemical Oxygen Demand	Not to exceed 250 mg/l			
8.	That the industry shall obtain all necessary permissions from district administration Bhilwara and Government of Rajasthan related to the plant.				All necessary permissions for setting up the plant at the land sanctioned by Rajasthan Govt. have been obtained.
9.	That the industry shall install STP of adequate capacity to treat the domestic waste water generated from utilities in the plant.				The STP for treating the Domestic Sewage at the Plant site shall be installed within six months.
10..	That water requirement for process shall be meet out from the treated waste water of STP situated at Village – Kewara, Tehsil –Bhilwara				The water requirement for process is met out from the treated sewage water of STP situated at Village Kewara of Bhilwara.
11.	That the industry shall not generate any trade effluent from process and complete zero discharge status shall be maintained by the unit.				No trade effluent is generated in the preparation of green pellets and their burning as well as storage.
12.	That the process of pellet shall not involve any mineral beneficiation activities.				*The process of pellet does not involve any mineral beneficiation activities including metallurgy.*
13.	That the industry shall comply with all the condition of consent to establish granted by State Board vide letter no. 3687-3689 dated 01.08.2012.				All the conditions of Consent to Establish have been complied with after which only the CTO has been granted.
14.	That the industry shall comply with the standards as prescribed vide MOEF notification no.GSR 826 (E) dated 16th November, 2009 with respect to National Ambient Air Quality.				The ambient air quality standards as prescribed vide MOEF Notification dated 16th Nov.2009 with respect to

		NAAQ have been complied with.
15.	That the industry shall ensure compliance of ambient air quality standard in respect of noise as prescribed under Environment (Protection) Act & Rules made therein.	Ambient Air Quality standards in respect of Noise have been complied with. Noise level is within prescribed standard.
16.	That the unit shall not allow making any obstacles to any natural water flow i.e. natural nallah/stream carrying rain water to any water body.	The plant area does not come within the area of natural flow of water/ nallah/ stream etc.
17.	That this consent to operate is valid for manufacturing of Pellet – 1.20 Million Tonnes/Annum only. For any change in quantity and number of products and by- products, the industry has to seek fresh consent to operate.	*Noted . We shall seek fresh CTE & CTO in case of any proposal for enhancement of production or number of products.*
18.	That the water requirement for drinking purpose shall be meet out from ground water/surface water and in no case ground water shall be withdrawn more than 25 KLD without prior permission from CGWA, New Delhi.	Water requirement of 14 KLD for drinking purpose is obtained from a bore well. drinking water requirement will not exceed this quantity.
19	That if the project cost exceeds Rs. 213.01 crores, the unit shall take/obtain modification in consent to operate after paying fee as applicable.	Noted.
20	That the industry shall comply with provision of Hazardous Waste (Management Handling & Transboundary Movement) Rules, 2008.	At present no hazardous waste is generated . We shall comply with the provisions of Hazardous Waste (Management Handling and Transboundary Movement) Rules, 2008.
21	That the water flow meters shall be provided at all suitable points to measure quantity of daily water consumption, cooling bleed and domestic waste water generation. Daily record of the same shall be maintained and to be submitted to the Board.	Water flow meters are being installed all suitable points to measure quantity of daily water consumption and domestic water use. The daily record shall be maintained and submitted to the Board by the end of December'13.
22	That the entire treated domestic waste water shall be utilized within premises for horticulture/plantation etc. and other gainful purposes and zero discharge status shall be maintained outside the premises.	Noted.
23	That the unit shall ensure proper recycling and reuse of domestic waste water after adequate treatment.	Domestic waste water shall be treated in STP and the treated water shall be used for control of dust and also for plantation.
24	That the industry shall install adequately designed rain water harvesting structure for prevention and recharge of ground water in and around the area.	Noted. We shall install water harvesting structure for preservation and recharge of

		ground water.
25	That the industry shall provide concrete/metallic road to avoid fugitive emissions by vehicle movement in the plant.	Concrete road has been provided in and around the plant area to avoid fugitive emissions by vehicle movement. The roads are sprayed with water to arrest dust lying on the road.
26	That the industry shall develop tree plantation in atleast 33% area in phase manner and accordingly submit action plan within 30 days time.	Phased Programme for plantation in 33% area has been developed and is enclosed herewith as **Annexure III.** By now plantation has been done in one hectare area planting 900 saplings.
27	That the industry shall provide adequate height of stack along with acoustic enclosures on one D.G.Set of 1x563 KVA.	Acoustic enclosure and stack of 4.75m height above the DG Room RSPCB have been provided with the DG Set of 563 KVA capacity.
28	That the unit shall install adequate air pollution control measures and stack height with one Rotary Kiln, Bentonite Grinding Section, Coal Grinding Section and Fugitive Emissions from material transfer points.	A stack of 120 m. height has been installed for the Rotary kiln. Bag houses and ESP have been provided in in the coal and Bentonite Grinding Sections to Control air pollution.
29	That the industry shall install and maintain adequate infrastructure facilities for stack monitoring to know the concentration of pollutant emitted in the atmosphere with Rotary Kiln and other sources.	Adequate infrastructure facilities have been installed for stack monitoring . The stack monitoring report is attached as **Annexure IV**
30	That this revised consent letter shall supercede the earlier consent letter no. F(MUID)/Bhilwara (Bhilwara)/2(1) 2010/2011/381-383 dated 17.04.13.	Noted
31	That not withstanding anything provided hereinabove, the State Board shall have power and reserves its right as contained under section 27 (2) of the Water Act and under section 21 (6) of the Air Act to review anyone or all the conditions imposed here in above and to make such variation as it deemed fit for the purpose of Air Act and Water Act.	Noted
32	That the grant of this Consent to Operate is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility to comply with the conditions laid down in all other laws for the time being in	Noted

	force, rests with the industry/unit/project proponent.	
33	That the grant of this Consent to Operate shall not, in any way, adversely affect or jeopardize the legal proceeding, if any, instituted in the past or that could be instituted against you by the State Board for violation of the provisions of the Act or the Rules made there under.	Noted

General Conditions

Conditions related to both Air and Water Acts

1.	That to achieve the prescribed standards of the consent order, adequate arrangement for pollution control shall have to be provided, maintained and operated all the time whenever the process/plant is in operation.	Adequate arrangement for pollution control have been provided and are being maintained and operated.
2.	The power supply to all the pollution control measure/system shall be measured by separate power meters and separate log book shall be maintained for recording running hours of PCM, consumption of power chemicals, every eight hours. The log books/records are to be shown to the officials of the Board during inspection or as and when asked for.	Noted
3.	That the occupier shall make appropriate arrangement for interlocking the pollution control devices with DG set so that in the event of power failure the pollution control arrangement may remain in operation while the plant is being operated on the DG.	We shall provide in 2 months time.
4.	That the power supply to the production/process shall be so interlocked with the pollution control equipments that in the event of none functioning of the pollution control equipment, the production process stops automatically.	We shall provide in 2 months time.
5.	That the industry shall submit compliance of the consent conditions alongwith analysis reports of the stack emissions/ambient air quality. The compliance report along with analysis report of the samples will be submitted to the Head Office of the Board at Jaipur and also concerned Regional Office of the Board office soon after it is carried out. For this, the paid sampling and analysis facilities with the Board can be availed. The frequency of compliance reporting for various types of units will be as under: -	The stack emission report is enclosed herewith as **Annexure -III**. It is noted that this report should be submitted once in 6 months for our Pellet Plant.

	Sr.No.	**Type of industry**	**Compliance Reporting schedule by the industry**	
	1.	17 highly polluting industries (large and medium scale)	Once in 6 months	Ambient Air Quality Report is submitted as **Anneuxre I, II, IIA & III.**
	2.	17 highly polluting industries (small scale) and 17 highly polluting industries (other	Once in12months	

		than 17 categories)		
	3.	Small scale industries (small scale)	Once in 18 months	
	4.	Orange category industries (large and medium scale)	Once in 24 months	
	5.	Orange category (small scale) and all the other category units.	Once in 36 months	
6.	That the industry shall comply with the provisions of Hazardous Waste (Management & Handling) Rules, 1989 and Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 and Battery Rules (Management & Handling) Rules, 2001 amended to date as notified under Environment (Protection) Act, 1986 (if applicable).			Noted
7	That the management shall obtain and maintain valid insurance policy coverage under Public Liability Insurance Act (PLIA) and submit its copy to the Board every year (if applicable).			Noted
8.	That Occupier shall ensure compliance of recommendations of Corporate Responsibility of Environment Protection (CREP) issued by Central Pollution Control Board (CPCB) for certain specific kind of industries (if applicable)			We shall comply with recommendations of CREP issued by CPCB in respect of Pellet Plant.
9.	That the Occupier shall submit Environmental Statement every year in the month of September for the period April to March of the previous financial year.			We shall submit Form V in Sept.2014.
10.	That the management shall maintain good house keeping in the plant.			We are maintaining good house keeping in the plant.
11.	In case of consent to operate for the proposed project or expansion, the industry shall inform to this office and also the Concerned Regional Office about the installation arrangement made for control of pollution so as to conform to the prescribed norms at least 4 weeks in advance of commissioning of the processing plant so that the same could be inspected and verified for its adequacy.			Noted
12.	That any incorrect information submitted in the consent application form and its enclosures shall make the industry liable for legal action under section 43 of Water Act section 38 of the Air Act.			Noted
13.	The consent under no circumstances shall be constructed as conferment of any property or any interest of the applicant unit. It is only confined for the purpose of regulation of the provisions of Water Act and Air act.			Noted
14.	That this consent is valid subject to fulfillment of other statutory requirement in other Laws/Acts/Rules applicable.			Noted
15.	The Occupier shall make an application for renewal of consent to operate in the prescribed form in triplicate along with the requisite consent fees and compliance reports atleast 120 days before the expiry of consent to			Noted

	operate. It may be noted that no post facto consent will be issued in case the industry failing to apply for renewal within the time prescribed as above.	
16.	That this consent to operate is for existing plant and process and separate consent to establish is required to be obtained for any addition/modification/alteration or change before taking any step for such a change. Further, this consent to operate shall in no case be treated Consent to Establish for further expansion, if any.	Noted
17.	That the industry will submit compliance report of the aforesaid conditions quarterly to the Head Office as well as the concerned Regional Office of the Board, However, compliance of the conditions in which specific time scheduled has been prescribed has to be submitted as per the prescribed time schedule.	Noted
18.	That 33% of the total area of factory premises shall be covered by the tree plantations. This area under plantation will be calculated as per circular No. F.14(40) RPCB/Plg/Policy/5804-5825 dated 15.07.04 or	We have started plantation and shall cover 33% of total factory area as per Boards Policy dated 15.07.2004.

General Conditions related to Air Act only

1	That, height of the stacks attached to all the major sources/DG sets shall be provided and maintained as per the norms prescribed.	The height of the main stack for Rotary Kiln has been kept 120 m and for DG sets of 653 KVA has been kept as per the norms prescribed by RSPCB.
2.	That you shall provide and maintain necessary infrastructure facilities for the monitoring of stack emissions and ambient air quality parameters in accordance with the prescribed guidelines and suggestion given by the officials of the Pollution Control board from time to time.	We have provided and are maintaining the infrastructure facilities for monitoring of stack emissions and ambient air quality parameters as per the prescribed guidelines and suggestions given by the Officers of RSPCB.
3.	That the occupier shall provide and maintain above ground recycling tanks of adequate capacity with proper lining to avoid spillage or overflow of scrubbing media on land. In order to check the corrosion of the drains , anti corrosive lining should be provided. Also the industry shall have to maintain proper record of water consumption in scrubbing system, scrubbed liquor, recycling, treatment, sale etc.	In the process of Pellet production, no scrubbing is required hence no recycling tank is needed.
4.	In case of 17 category highly polluting units and large scale red category air polluting units like major Power Plants, Cement Plants, Smelters, Petroleum Refineries, Fertilizer Plants and Chemicals Units, the occupier shall provide atleast three ambient air quality stations at the periphery of the factory premises for monitoring of ambient air parameters. Location of these stations shall	We have set up three Ambient Air Quality stations at the periphery of the factory premises for monitoring of ambient air parameters. The results of monitoring done in the 1st week of Oct.'13 are

	be decided in consultation with concerned Regional Office. the results of monitoring shall be submitted to the State Board every three month.	enclosed herewith as **Annexure No. I , II & IIA.**
5.	That, the Occupier shall provide the proper extraction and control system for the fugitive emission from the various activities/process . These are to be maintained in good condition and operated properly so as to maintain clean and safe environment in and around the premises of the unit.	Proper extraction and control system for fugitive emission, such as bag house and ESP have been provided and are maintained in good condition and operated properly to maintain clean and safe environment in and around the premises of the Plant.
6.	That for the diesel generator sets acoustic enclosure /acoustic treatment shall be provided to meet the prescribed norms w.r.t. .noise as per the Gazette Notification dated of the Ministry of Environment and Forests, Government of India 02.01.1999. Noise from the diesel Generator Sets shall be controlled by providing an acoustic enclosure or by treating the room acoustically. The acoustic enclosure/acoustic treatment of room should be designed for minimum 25 dB (A) Insertion Loss or for meeting the ambient noise standards, whichever is on the higher. The measurement for Insertion Loss may be done at different points at 0.5 meter from the acoustic enclosure/room and then averaged. The Diesel Generator Sets should also be provided with proper exhausts muffler with Insertion Loss of minimum 25 dB (A).	DG sets have been provided with acoustic enclosure to meet the requirements of MOEF Notification dated 02.01.1999 to control the noise level and the minimum Insertion Loss is 25 dB (A).
7.	In case of D.G. Set of capacity more than 0.8 MW, the air emission standards as prescribed under GSR 489 (E) dated 09.02.02 shall be complied with.	The DG set installed in our plant is of 653 KVA capacity and its emission standard is as per the norms of RSPCB.
8.	The stack height for the Diesel Generator Sets shall be as below: - Height of Stack (in Meters) = Height of Building + 0.2√ (KVA of DG Set).	The stack height of the DG set is as per the norms of the Board.
9.	That the Occupier shall ensure that the noise from the operations in the unit does not exceed the prescribed ambient noise standards for the industrial area i.e. 75 dB (A) Leq. during the day time and 70 dB (A). Leq.during the night. The day time is reckoned in between 6 am to 9 pm and the tight time is reckoned between 9 pm and 5 am.	The noise level is within the prescribed norms . A copy of the noise, monitoring report is enclosed in this regard. **Annexure V (13 Reports).**

General Conditions related to Water Act only

1.	Samples of treated effluent shall be collected as per the schedule prescribed in condition no. 2 at the terminal manhole during normal production and shall be analyzed for all the parameters in respect of which limits have been fixed. Report of analysis shall be submitted to the Board regularly/or immediately after the analysis is	No industrial effluent is generated in the process. Only 11 KLD domestic effluent is generated. At present it is treated in Septic tank and disposed off in Soak Pits.

	completed. Methods of sampling and testing shall be as per 18:1733 and IS: 2433 or methods approved by Board as the case may be for domestic and industrial effluent.	The construction of STP for treated the domestic sewage is underway. After its commissioning, the treated water will be used for plantation and dust suppression.
2.	The efforts shall be made to recycle maximum quantity of the treated waste water into the process and utilities and the remaining be utilized in plantation in the premises. For utilization of the treated waste water in plantation, a well designed sprinkling system should be installed maintained and operated .Adequate land depending upon the applicable hydraulic loading criteria shall be arranged and maintained under plantation. The criteria is as follows; Hydraulic loading to be restricted depending on the nature of soil as stated below: - (subject to taking into account the nature of crop and its water requirement, climatic conditions and frequency of	A total of about 11 KLD treated water will be obtained from STP in the Plant area. This water will not be discharged to outside filed or water bodies, but will be used for dust suppression and plantation.

	Soil Texture Class	**Dosage of settled sewage applied M3/Hectare/day**
	Sandy	225 to 282
	Sandy Loam	168 to 225
	Loam	112 to 168
	Clay Loam	56 to 112
	Clayey	35 to 57

		Dosage of settled Industrial waste applied M3/Hectare/Day		
	Soil Texture Class	BOD up to 300 mg/l	BOD more than mg/l but less than 500 mg/l	
	Sandy	180 to 226	90 to 113	
	Sandy Loam	134 to 180	67 to 90	
	Loam	90 to 134	45 to 67	
	Clay Loam	44 to 90	22 to 45	
	Clayey	28 to 44	14 to 22	

3.	A holding tank of atleast 24 hours capacity shall be provided and maintained to store the waste water in case of failure of any part of treatment plant or non functioning of treatment system.	It will be established to take care in the case of failure of STP.
4.	That the domestic waste water generated from the industry shall be treated as per 15:2470 (Pail-I & II) and shall be discharged into soak pit through septic tank. In case the industry is having its own housing colony having discharge more than 30 KLD the industry should have Sewage treatment plant. The requirement of waste water	Our domestic water requirement is 14 KLD. For the present it is discharged into soak-pit through Septic Tank. We have a plan to construct a STP of 14 KLD capacity and use

	treatment for hotels shall be according to specific circulars issued for hotels.	the treated water for plantation and dust suppression.
5.	That the occupier shall provide and maintain above ground recycling /evaporation tanks of adequate capacity with proper lining to avoid spillage or overflow of scrubbing media on land. In order to check the corrosion of the drains, anti-corrosive lining should be provided. Also the industry shall have to maintain proper record of water consumption in scrubbing system, scrubbed liquor, recycling, treatment, sale etc.	Our process does not require any scrubbing operation, hence this is not applicable in our Pellet Plant.
6.	In case of disposal of effluent through solar evaporation, industry is required to have solar evaporation pans for evaporation of the effluent atleast one meter above the ground having proper lining to make them impervious. They should have adequate evaporation surface area based on the evaporation rate at that particular area.	This is not applicable in our case.
7.	That the occupier shall have to store the semi solid arid solid waste if so generated in a proper manner on impervious platform alongwith facility for leachate collection which shall be collected and sent to the effluent treatment plant for proper treatment.	Our operation does not generate solid or semi-solid arid waste. The fines generated in the plant are consumed in the preparation of Ore Pellets.
8.	In case the water consumption is more than 10 KLD, the authorities shall comply with the provisions of Water (Prevention & Control of Pollution) Cess Act, 1977 and industry shall regularly submit to the Board the returns in the prescribed from and will deposit the cess as specified under Section 3 of the said Act. In case the industry fails to submit the returns in time, the assessment of cess will be made considering the water consumption figures given in the consent application form or earlier return whichever is higher. Units covered under self assessment scheme (SAS) having annual cess amount upto Rs. 6000/- shall deposit the cess in the concerned Regional Office of the Board alongwith Self Assessment Form.	The Returns under water cess Act, 1977 shall be submitted in the prescribed form and the cess will be deposited timely and regularly.
9.	That the industry will install water meters at the source of water supply and will keep complete.	Water meters have been installed and complete records are being maintained.