JINDAL STEEL & POWER

o/c

Ref. No. JSPL/ ENV/2020/05/CON

Dated: 04th June 2020

REGISTERED A.D/HAND DELIVERY

To,
Mr. Bharat Jyoti ,IFS
Additional Director General of Forests (C),
Ministry of Environment, Forest and Climate Change,
Regional Office (ECZ),
Bungalow No. A-2, Shyamali Colony,
Ranchi – 834002

SUB : ENVIRONMENT STATEMENT

Dear Sir,

Please find enclosed the Environment Statement for M/s Jindal Steel & Power Limited for setting up a 6.0 MTPA Integrated Steel Plant & 1320 MW Captive Power Plant at Balkudra, Patratu, Ramgarh (Jharkhand) for the financial year ending 31st March 2020.

Thanking you,

Yours very truly,
For Jindal Steel & Power Ltd

Sanjay Sinha
Plant Head

Copy to :

1. The Member Secretary,JSPCB,T.A. Bhawan, HEC- Complex, Dhurwa,Ranchi - 834004
2. The Regional Officer, JSPCB,RegionalOffice,PTCChowk,Matwari,Hazaribagh

Jindal Steel & Power Limited
Works Balkudra, Patratu, Ramgarh - 829 143 (Jharkhnad)
T +91 6553 275 742 F +91 6553 275 730 w www.jindalsteelpower.com
Registered Office O. P. Jindal Marg, Hisar, 125 005, Haryana
CIN No.: L27105HR1979PLC009913
GSTIN No.: 20AAACJ7097DIZU

FAME

ANNEXURE

ENVIRONMENTAL STATEMENT FORM-V
(See rule 14)

Environmental Statement for the financial year ending with 31st March 2020

PART- A

i.	*Name and address of the owner/ occupier of the industry operation or process.*	*Sanjay Sinha* *Plant Head* *Jindal Steel & Power Ltd,* *Post: Balkudra - 829143* *Dist: Ramgarh (Jharkhand)*
ii.	*Industry category* *Primary-(STC Code)* *Secondary- (STC Code)*	*PRIMARY*
iii.	*Production category . Units.*	*0.6 MTPA Wire Mill, 1.0 MTPA Re-Bar Mill,0.90 lac capacity Fly ash Brick Plant unit & Coal Gas Based Plant 90000 Nm3/hr (M/s Jindal Steel & Power Ltd)*
iv.	*Year of establishment*	*JSPL has acquired the (UMI) Special Steel Ltd on 09.01.2007, premises on "as is where is basis" from the Jharkhand Government. The plant being a sick unit was shut down for more than 10 years.*
v.	*Date of the last environmental statement submitted.*	*06th April 2019*

PART - B

Water and Raw Material Consumption:

i. *Water consumption in m3/d*

Process : *3000*

Domestic : *250*

Name of Products	Process water consumption per unit of products	
	During the previous financial year (2018 – 2019)	During the current financial year (2019 – 2020)
From Wire Rod Mill : Wire Rod From Bar Mill : Re-bar, Round,RCS,Angle	1.55 m3/MT	1.72 m3/MT

ii. Raw material consumption

Name of raw materials*		Name of Products	Consumption of raw material	
			During the previous financial year (2018 – 2019)	During the current financial year (2019 – 2020)
a	Wire Rod Mill			
	Mild Steel Billets of various size i.e. 165x165x12000 mm in MS,Fe500D & Alloy steel	Wire Mill Wire Rod : 5.2 – 22 mm, G.I : 0.2 - 14 mm, Spring: 1.3 - 10 mm, Binding : 1.2 - 3.4 mm, CA , PC, ACSR, Tire Bead	453896.928 MT	471553.537 MT
b	Bar Mill			
	Mild Steel Billets of various size i.e. 165x165x12000 mm in MS,Fe500D & Alloy steel	Re-Bar Mill Rebar : 8 – 40 mm Round : 20 – 63 mm, RCS : 40 – 63 mm, Angle : 50x50 to 90x90,Cut & Bend TMT, Cut to length TMT, Weld Mesh, Stirrups, U Bend TMT, Straight	217854.824 MT	346006.627 MT
c	Wire Rod Mill			
	LDO		0.0 KL	0.0 KL
	HFO		12913.841 MT	13855.430 MT
d	Bar Mill			
	LDO		0.0 KL	0.0 KL
	HFO		8146.10 MT	13401.421 MT

** Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.*

PART-C

Pollution discharged to environment/unit of output (2019 – 2020)
(Parameter as specified in the consent issued)

Pollutants		Quantity of Pollutants discharged (mass/day)	Concentration of Pollutants discharged (mass/volume)	Percentage of variation from prescribed standards with reasons.
		kg/day	mg/litre	Within stipulated limit
(a) Effluent water generated from the process is 100% re-circulated back to process				
(b) Air				
	Wire Rod Mill Chimney Stack	Kg/day	mg/Nm3	
I	Suspended Particulate Matter (Soot)	132.95	27.1	”
Ii	SOx	151.71	31.0	”
Iii	NOx	70.66	14.4	”
	Bar Mill Chimney Stack	Kg/day	mg/Nm3	
I	Suspended Particulate Matter (Soot)	141.39	29.5	”
Ii	SOx	146.94	30.7	”
iii	NOx	66.39	13.9	”

PART-D

HAZARDOUS WASTES

(as specified under Hazardous Wastes (Management & Handling& Transboundary Movement Rules, 1989/2008).

Hazardous waste is not generated either from process or from pollution control facilities. However, the following miscellaneous items unrelated to manufacturing process will be recycled / sent to authorized recyclers / re-processors approved by CPCB

Hazardous Wastes Miscellaneous	Total Quantity
	During the current financial year (April 2019 – Mar 2020)
Used /Spent oil (under schedule-1 of category no. 5.1 of HWMHT rules 1989/2008) - sold to authorized recyclers /re-processors approved by JSPCB/CPCB.	13.400 KL

PART . E

SOLID WASTES:

Solid Wastes	Total Quantity	
	During the previous financial year (2018 – 2019)	During the current financial year (2019 – 2020)
a. From Process i) Mill Scale	10092.48 MT	13522.30 MT
ii) Scrap & end cuts	15786.00 MT	19475.00 MT
b. From Pollution Control Facilities	Nil	Nil
c. Quantity recycled or re-utilised within the unit.	Nil	Nil

PART . F

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

Solid Waste:

a) Scrap is generated from the process and is sent to our sister concern and also given to other parties back for melting & the Mill scale generated is given to different vendors for their use

PART-G

Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production.

a) *We are taking steps in promoting the use of fly ash bricks thereby not using of fresh earth for making bricks. JSPL is taking the fly ash generated from PTPS, Patratu for use in brick making as per the guidelines issued by MoEF.*

PART . H

Additional measures /investment proposal for environmental protection including abatement of pollution.

a) An online Continuous Ambient Air Quality Monitoring Station (CAAQMS) has been installed and commissioned in JSPL,Patratu. The data is being regularly transmitted to PCB and the same has been confirmed from PCB for being received by their server at their end. The estimated cost incurred was Rs 80.0 lacs

b) An online Continuous Automatic Weather Monitoring Station (AWMS) has been installed and commissioned in JSPL,Patratu. The data is being regularly transmitted to PCB and the same has been confirmed from PCB for being received by their server at their end. The estimated cost incurred was Rs 10.0 lacs.

c) Two online Continuous Emission Monitoring System for Stack (CEMS) has been installed and commissioned in the stack of both the chimneys of the Mills at JSPL,Patratu. The data is being regularly transmitted to PCB and the same has been confirmed from PCB for being received by their server at their end. The estimated cost incurred was Rs 20.0 lacs.

d) An online Continuous Display System has been installed and commissioned in the entrance gate at JSPL,Patratu. The data is being regularly transmitted to the Display Board and the same the same is visible to the local public. The estimated cost incurred was Rs 10.0 lacs.

e) Artificial rain water harvesting structures for recharging of ground are constructed. Four of the structures have been constructed- two in A gate hostel area and the other two in Mills area . The estimated cost incurred was Rs 30.0 lacs.

f) Tree plantation activity is being carried out in the total available land at an expenditure cost of Rs 2.0 crores annually. Plantation in and around plant & colony as well as stretches of roadside is being carried out with the assistance of Self Help Groups under Community development programme .

g) *A tree transplantation machine has been procured at an expenditure cost of Rs 1.50 crores to move/shift one tree from one place to another .This is a way ahead to stop de-afforestation in the areas and control air pollution.*

h) *Water sprinkling tanker has been procured and is deployed to sprinkle water in the roads to minimize dust emission during project construction activities. Additional water tankers are deployed as and when basis on the requirement.*

i) *Housekeeping is being maintained to a World Class level and various equipments are procured and deputed for the purpose.*

j) *An online Continuous Ambient Air Quality Monitoring Station (CAAQMS) has been installed and commissioned at Old DC Office Ramgarh by JSPL,Patratu. The data is being regularly transmitted to PCB and the same has been confirmed from PCB for being received by their server at their end. The estimated cost incurred was Rs 110.0 lacs*

k) *An online Continuous Automatic Weather Monitoring Station (AWMS) has been installed and commissioned at Old DC Office Ramgarh by JSPL,Patratu. The data is being regularly transmitted to PCB and the same has been confirmed from PCB for being received by their server at their end. The estimated cost incurred was Rs 10.0 lacs.*

l) *An online Continuous Water Flow Meter and Web camera for Zero Liquid Discharge Plant has been installed and commissioned at JSPL,Patratu. The data is being regularly transmitted to PCB. The estimated cost incurred was Rs 5.0 lacs.*

PART .I

MISCELLANEOUS:

Any other particulars in respect of environmental protection and abatement of pollution.

a) *Local villagers are being trained on various method of farming, vermicompost manufacture and other activities to develop greenery and as a farming aid*

b) *Various community development programmes on water conservation/ rain water harvesting to keep water clean and use it by construction of wells, tube wells and small dams for agriculture purpose are being imparted. Doctors visit the nearby villages and give medical treatment & train persons on the safe use of water. People are being made aware day by day and are being educated on different water conservation steps.*

c) *Personal protective equipments (including ear muffs & ear plugs) are compulsorily used by the employees in the areas where sound levels (db) are high.*

d) *Housekeeping in plant is done and maintained regularly.*

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