

Ref.: -NSPL/EMD/2019/111

Date: 10.09.2019

To  
The Member Secretary,  
Paryavas Bhavan,  
North Block Sec. 19  
NAYA RAIPUR,  
Chhattisgarh - 490099.

**Subject: Submission of Environmental Statement for the financial year (2018-19) ending 31<sup>st</sup> March 2019 For DRI, WHR & AFBC based power plant, Steel Melting Shop, Coal Washery, Oxygen plant, Rolling Mill and Producer Gas Plant.**

Dear Sir,

Please find enclosed herewith the Environmental Statement for the financial year (2018-19) ending 31<sup>st</sup> March 2019 duly filled in the form (V) for DRI, WHR & AFBC based Power Plant, Steel Melting shop, Coal Washery, Oxygen plant, Rolling Mill and Producer Gas Plant.

This is for your information and Record please.

Thanking you.

With Regards,  
For, Nalwa Steel and Power Limited

*Ann - 10.9.19*  
S.S.Rathi  
Director  
DIN No.06986371

Copy to: The Regional Officer  
Chhattisgarh Environment Conservation Board  
T.V. Tower Road Raigarh (C.G.)

Nalwa Steel And Power Limited

[Corporate identity number (CIN): U74899DL1989PLC035212]

P.B. No.7, Gharghoda Road, Taraimal, Raigarh-496001, Chhattisgarh

T +91 7762- 304700-9, F +91 7762- 261489-90, E info@nalwa.com, W www.nalwa.com

Registered Office 28, Najafgarh Road, New Delhi-110015

## FORM - V

Environment Statement for the financial year ending the 31<sup>st</sup> March 2019

(DRI, WHRB & AFBC Based Power Plant, Coal Washery, Steel Melting Shop,  
Oxygen plant, Rolling Mill and Producer Gas Plant)

### PART - A

- (i) Name and address of the owner / Occupier of the industry / Operation or process. **Shri S. S. Rathi (Occupier),**  
Nalwa Steel And Power Limited,  
P.B. No. 7, Gharghoda Road, Taraimal  
Dist.-Raigarh, (Chhattisgarh) 496001
- (ii) Industry category - **Large**
- (iii) Production capacity- Units -

Sr. No.	Product	Installed Capacity
01	Sponge Iron	1,98,000 TPA
02	Ingot/ Billet	1,60,000 TPA
03	Washed Coal	13,20,000 TPA
04	WHR based Power	08 MW
05	AFBC based Power	16 MW
06	Oxygen	100 Nm <sup>3</sup> / Hour
07	wire rods / re-bar	2,50,000 TPA
08	Producer Gas	12,000 Nm <sup>3</sup> /Hour

- (iv) Year of establishment - **2001**
- (v) Date of the last environment Statement submitted. - **01.09.2018**

### PART - B

#### Water and Raw Material Consumption

#### (1) Water consumption m<sup>3</sup>/day

Current year 2018-2019

Process	: 262.48 m <sup>3</sup> /day
Cooling	: 1912.06 m <sup>3</sup> /day
Domestic	: 244.00 m <sup>3</sup> /day

Name of products	Water consumption per unit of product output.	
	During the current financial year (2017-18)	During the current financial year (2018-19)
Sponge Iron	0.1175 m <sup>3</sup> /T	0.3163 m <sup>3</sup> /T
Ingot / Billet	0.6027 m <sup>3</sup> /T	0.8110 m <sup>3</sup> /T
Washed Coal	0.00 m <sup>3</sup> /T	0.00 m <sup>3</sup> /T
WHRB based Power,	0.0059 m <sup>3</sup> /KWH	0.00623 m <sup>3</sup> /KWH
AFBC based Power		
Rolling Mill	0.4757 m <sup>3</sup> /T	0.4174 m <sup>3</sup> /T
Oxygen	0.0087 m <sup>3</sup> / Nm <sup>3</sup>	0.0054 m <sup>3</sup> / Nm <sup>3</sup>
Producer Gas	0.00066 m <sup>3</sup> /Nm <sup>3</sup>	0.00053 m <sup>3</sup> / Nm <sup>3</sup>

*M. S. Rathi*

(2) Raw material consumption

Name of raw materials	Name of products	Consumption of raw material per unit of output	
		During the current financial year (2017-18)	During the current financial year (2018-19)
Iron Ore	Sponge Iron	1.687 T/T	1.827 T/T
Iron ore Pallet		1.465 T/T	0.000 T/T
Coal		1.180 T/T	0.940 T/T
Dolomite		0.087 T/T	0.078 T/T
Pig Iron(PI +Panthor shot + PCM fines)	Billet/Ingot	0.163 T/T	0.133 T/T
Sponge Iron		0.699 T/T	0.361 T/T
Scrap		0.284 T/T	0.595 T/T
CPC		0.0025 T/T	0.0011 T/T
Silico Magnise		0.0114 T/T	0.0105 T/T
End Cut		0.0001 T/T	0.000082 T/T
Skull		0.00 T/T	0.001 T/T
Plant/slag proc. scrap		0.00 T/T	0.002 T/T
Mill scale		0.0077 T/T	0.0102 T/T
Ferro Magnise		0.00 T/T	0.00 T/T
'F' Grade COAL	Washed Coal	0.00T/T	0.00 T/T
Billets	Wire Rod	1.054 T/T	1.041 T/T
Coal	Producer Gas	0.00052 T/Nm3	0.00057 T/Nm3
Coal middling	Power	0.00000 T/KWH	0.00 T/KWH
Ash Char		0.000255 T/KWH	0.000267 T/KWH
Coal fines		0.00 T/KWH	0.00 T/KWH
Washery Pond fines		0.000287 T/KWH	0.00 T/KWH
F & G grade Coal		0.00142 T/KWH	0.00123 T/KWH

PART - C

Pollution discharge to environment per unit of output

Pollutants	Quantity of pollutants discharged (mass/day)	Concentration of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
Water	No discharge	No discharge	No violation Within the prescribed standards
Air	43.2 kg/day	34.9 mg/Nm3	Dust conc. Variation

*Maize*



			(-) 30.2 %. No violation of against standard 50 mg/Nm3
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**PART - D**  
**Hazardous Wastes**

(As specified under Hazardous Wastes/ Management and Handling Rules, 1989)

Hazardous waste	Total Quantity (kg)	
	During the current financial year (2017-18)	During the current financial year (2018-19)
Used Oil (Cat. 5.1)	3960.00 LTR	5803.00 LTR
Decanter Tank Tar Sludge (Cat 13.3)	1143.00 MT	815.00 LTR
<b>SOLD : MOEF Authorized Party</b>		
Used Oil (Cat. 5.1)	0.00 LTR.	7040.00 LTR
Decanted Tar Sludge (Cat 13.3)	1096.07 MT	880.81 MT

**PART - E**  
**SOLID WASTE**

Solid waste	Total Quantity	
	During the current financial year (2017-18)	During the current financial year (2018-19)
<b>a. From process</b>		
Char	61697.53 MT	45758.00 MT
Iron Ore Dust (Fine)	62450.87 MT	43983.72 MT
Slag	6805.50 MT	26332.00 MT
Coal Rejects	000.00 MT	000.00 MT
Coal Washery fine	000.00 MT	000.00 MT
Mill Scale	3772.67 MT	3889.11 MT
PGP Ash	9765.00 MT	11058.00 MT
Kiln Accretion	3245.00 MT	1840.00 MT
<b>b. From pollution control facility</b>		
DRI -ESP dust	23858.00 MT	21648.00 MT
Bag Filter Dust	14094.00 MT	23269.00 MT
AFBC - Fly Ash	83658.00 MT	29790.00 MT
<b>c.</b>		
<b>1. Quantity recycled or reutilized within the unit</b>		
Char	22946.00 MT	9661.00 MT
Coal Rejects	000.00 MT	0.00 MT
Coal Washery fine (dust)	25853.00 MT	0.00 MT

*M. J.*

Mil Scale	648.00 MT	1942.43 MT
Fly Ash	000.00 MT	0.00 MT
PGP Ash	000.00 MT	0.00 MT
<b>2. Sold</b>		
Char	44290.92 MT	821.10 MT
Iron Ore Dust (Fine)	52938.00 MT	28271.78 MT
Slag(Magnetic)	000.00 MT	4391.00 MT
Coal Rejects	000.00 MT	000.00 MT
Coal Washery fine (dust)	000.00 MT	000.00 MT
Mil Scale	000.00 MT	3917.32 MT
PGP Ash	000.00 MT	6344.00 MT
Bag Filter Dust	000.00 MT	19921.00 MT
<b>3. Disposed</b>		
Char	0000.00 MT	0000.00 MT
Slag(Non-magnetic)	0000.00 MT	21941.00 MT
ESP Dust	23858.00 MT	21648.00 MT
Bag Filter dust	14094.00 MT	0.00 MT
Fly Ash	83658.00 MT	29790.00 MT
PGP Ash	9485.00 MT	7185.00 MT
Kiln Accretion	3245.00 MT	1840.00 MT

#### PART - F

Please specify the characterizations (in term of composition of quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

Solid wastes are not hazardous category. (Report already submitted to Board – Copy enclosed).

Ash Char obtained from DRI production process which is using in AFBC Boiler for power generation and extra was sold.

#### PART – G

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

Upgraded pollution control equipment's like as ESP and bag filters to achieve Particulate matter below 50Mg/Nm<sup>3</sup>. One no. additional Bag Filter installed at Steel Melting Shop of discharge limit is below 50 Mg/Nm<sup>3</sup> for new 2 X 12 Ton Induction Furnace in 2018. Zero liquid discharge has been maintained.

#### PART – H

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

*Mani*

- (i) One no. additional Bag Filter installed at Steel Melting Shop of discharge limit is below 50 Mg/Nm<sup>3</sup> for new 2 X 12 Ton Induction Furnace in September 2018.
- (ii) Web camera will be installed for monitoring of zero discharge and online display data will be transmitted to CECB & CPCB web server.

### PART – I

#### Any other particulars for improving the quality of the environment

- (i) Green Belt developed in the factory campus and surrounding the boundary and nearest village total 2,38,570 nos. saplings plantation up to 10<sup>th</sup> September 2019.
- (ii) Gardens & lawns has been developed inside the factory premises. Good Housekeeping practice has been adopted and also neat & clean maintained all internal Roads of the plant area are made pucca.
- (iii) Three nos. Road sweeping machine and Water tanker provide for fugitive dust control regularly. In summer season, we have hiring water tankers for irrigation of plantation area & control of emission from Road.
- (iv) One Drain Cleaning machine, two no. Bobcut m/c and two no. Tractor provide for the Maintaining Good Housekeeping regularly basis in plant & colony Area.
- (v) SMS slag are using for road making after crushing (Slag crusher is installed inside the plant premises) and non-magnetic fine slag using for the civil construction work also using in the fly ash brick plant as Raw material. APCD dust is used for land filling. Fly Ash are using for Land filling & Brick making.
- (vi) Ash filling at identified low laying area and fly ash bricks is being utilized in civil construction actively in the plant premises.
- (vii) At present solid waste is being filled up at own low laying area under guidance of Indian School of Mines, Dhandbad, Jharkhand and covering with soil layer by layer.
- (viii) STP – 350-m<sup>3</sup>/day capacity of Sewage Treatment Plant installed in the Factory premises for colony and plant domestic waste water treatment. Treated water are using in irrigation of our garden, lawn & plantation area in the plant premises.
- (ix) Fly ash Bricks Plant – 60, 000, 00.00 bricks per Annum Capacity Fly ash Brick plant is installed for the utilization of fly Ash.
- (x) Three nos. Rain water Harvesting pond and three no. dead bore well are converted into harvesting pit.

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10.9.19