



Ref: BALB/ENV/ES/ 2024

Date: 27/09/2017

To,

The Member Secretary
State Pollution Control Board, Odisha
A/118, Nilakanthanagar
Unit-VIII
Bhubaneswar-751 012 (Odisha)

Sub: Submission of Annual Environmental Statement Report.

Sir,

We are herewith submitting the Annual Environmental Statement Report (in FORM-V) of BALASORE ALLOYS LIMITED, BALGOPALPUR, BALASORE for the year ending 31st March'2017.

Kindly receive & acknowledge the same.

Thanking you.

Yours truly,

For **BALASORE ALLOYS LIMITED**


Authorized Signatory

Encl: Environmental Statement Report

CC: Regional Officer, Orissa Pollution Control Board, Sahadevkhunta, BLS.



Environment Statement For the Year 2016-17
M/s Balasore Alloys Ltd.

FORM – V

(See rule 14)

Environmental Statement for the financial year ending with 31st March' 17

PART – A

- i. Name and address of the owner/occupier of the industry/operation/process :

Mr. D.K. Nath, Head (operations)

Balgopalpur Industrial Estate

Balgopalpur, PO: Rasalpur

Dist: Balasore - 756020

Odisha

Dhiren.nath@balasorealloys.com

- ii. Industry category : Primary - Large
Secondary – Red A
- iii. Production category : High carbon ferro chrome (FeCr)
- iv. Year of establishment : 1985
- v. Date of the last Environmental Statement submitted: 30.09.2016

PART – B

Water and Raw Material Consumption:

- i. Water consumption in m³/day

Consumption Head	Consumption rate (m ³ /day) (at full production capacity)
Process	37
Cooling	655
Domestic	110



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Name of Products	Process water consumption per unit of products	
	During the last financial year (2015-16)	During the current financial year (2016-17)
High Carbon Ferro chrome	2.67 KL/Ton	2.28 KL/Ton

ii. Raw material consumption:

Name of raw materials*	Name of Products	Consumption of raw material per unit of output	
		During the current last financial year(2015-16)	During the current financial year(2016-17)
Reductant	Chrome ore briquette & High Carbon Ferro chrome	0.55 - 0.60	0.55 - 0.60
Quartz		0.25 - 0.30	0.25 - 0.30
Dolomite		0.15 - 0.20	0.15 - 0.20
Electrode Paste		0.015 - 0.020	0.015 - 0.020
Chrome Ore		2.30 - 2.50	2.30 - 2.50
Hydrated Lime (Briquette making)		0.018-0.022	0.018-0.022
Molasses (Briquette making)		0.048-0.058	0.048-0.058
Furnace Oil (Drying of ore)		0.006-0.010 (KL)	0.006-0.010 (KL)

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



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M/s Balasore Alloys Ltd.

PART – C

Pollution discharged to environment/unit of output:

(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
<u>Water</u>	Zero Discharge	Zero Discharge	NA

Air

Stack Emission monitoring

Pollutants	Quantity of Pollutants discharged (mass/day) Kg/Day	Concentration of Pollutants discharged (mass/volume) mg/Nm ³	Percentage of variation from prescribed standards with reasons
<u>Air</u>			
F-1	75.7	59.9	-40.1%
F-2	78.6	61.0	-39.0%
F-3	94.3	63.4	-36.6%
F-4	99.9	64.0	-36.0%
F-5	71.5	62.5	-37.5%



Environment Statement For the Year 2016-17
M/s Balasore Alloys Ltd.

Stack of Briquette Plant

Pollutants	Quantity of Pollutants discharged (mass/day) Kg/Day	Concentration of Pollutants discharged (mass/volume) mg/Nm ³	Percentage of variation from prescribed standards with reasons
<u>Air</u>			
F-1	9.1	65.3	-34.7%
F-2	7.9	67.3	-32.7%
F-3	7.4	62.0	-38.0%
F-4	9.0	62.2	-37.8%

Ambient Air Quality Monitoring

Pollutants	Quantity of Pollutants discharged (mass/day)	Concentration of Pollutants discharged (mass/volume) mg/CuM	Percentage of variation from prescribed standards with reasons
<u>Air</u>			
PM 10	...	57.50	-42.50%
PM 2.5	...	24.30	-59.50%
SO2	...	04.90	-93.88%
NO2	...	10.50	-86.88%



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M/s Balasore Alloys Ltd.

PART – D

HARZARDOUS WASTES:

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

Hazardous Wastes	Total Quantity	
	During the previous financial year (2015-16)	During the current financial year (2016-17)
From Process		
i. Used oil	7.942 KL	6.60 KL
From Pollution Control		
Flue Dust from GCP	1424.62 Metric Ton	1390.56 Metric Ton

PART – E

SOLID WASTES:

Solid Wastes	Total Quantity	
	During the previous financial year (2015-16)	During the current financial year (2016-17)
From Process		
i. Slag tailing	173188.31 MT	159628.96 MT
From Pollution Control Facility	Nil	Nil
Quantity recycled or reutilized within the unit	100%	100%



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M/s Balasore Alloys Ltd.

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:

The ultimate solid waste generated in the form of slag tailings and fines from Metal Recovery Plant is utilised in roads lining, boundary wall and other construction purposes & filling up of low lying areas respectively. Balance is dumped within the company's premises.

PART – G

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

GAS CLEANING PLANTS are installed for each furnace as a measure of pollution control. This reduces the PM levels in & around the factory premises. The dust collected from GCP contains Cr_2O_3 . The utilisation of this dust in the furnace reduces the raw material cost.

The water used for cooling is recycled & spillage water is collected in the settling tank made inside the Company's own created Horticultural garden and reused for gardening.

PART – H/PART-I

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

The industry has been granted consent order for the period upto 31.03.2021. Tree plantation is going on in & around the factory premises.