

# BALASORE ALLOYS LIMITED *(Formerly Ispat alloys Limited)*



ISO 9001 : 2008  
CERTIFIED

Ref: BALB/ENV/ES/3820

Date: 30/09/2016



Regd. Off and Works :

Balgopalpur-756020, Balasore, Odisha, India

Phone : (06782)-275781, 275782, 275783, 275784, 275785

Fax : (06782) 275724

E-mail : mail@balasorealloys.com

Website : www.balasorealloys.com

**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 31<sup>st</sup> March'2016.

Kindly receive & acknowledge the same.

Thanking you.

Yours truly,

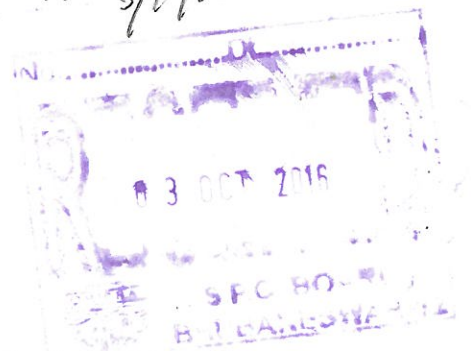
For **BALASORE ALLOYS LIMITED**

Authorized Signatory

Encl: Environmental Statement Report

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

Received  
3/10/16



Park Plaza, 71, Park Street, Kolkata - 700 016, Tel : 22178192, 40297000

E-mail : ispatalloys@yahoo.co.in, Fax : 91-33-22292278

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**Environment Statement For the Year 2015-16**  
**M/s Balasore Alloys Ltd.**

**FORM – V**

(See rule 14)

Environmental Statement for the financial year ending with 31<sup>st</sup> March' 16

**PART – A**

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

Mr. G. Janarthanam, Director (operation)

Balgopalpur Industrial Estate

Balgopalpur, PO: Rasalpur

Dist: Balasore - 756020

Odisha

**g.janarthanam@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: 26.09.2015

**PART – B**

Water and Raw Material Consumption:

- i. Water consumption in m<sup>3</sup>/day

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



**Environment Statement For the Year 2015-16**  
**M/s Balasore Alloys Ltd.**

Name of Products	Process water consumption per unit of products	
	During the last financial year(2014-15)	During the current financial year(2015-16)
High Carbon Ferro chrome	2.56 KL/Ton	2.67 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(2014-15)	During the current financial year(2015-16)
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.



**Environment Statement For the Year 2015-16**  
**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 <sup>3</sup>	Percentage of variation from prescribed standards with reasons
<u>Air</u>			
F-1	46.39	59	-41%
F-2	46.96	61	-39%
F-3	47.87	63	-37%
F-4	27.51	64	-36%
F-5	38.12	62	-38%



**Environment Statement For the Year 2015-16**  
**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 <sup>3</sup>	Percentage of variation from prescribed standards with reasons
<u><b>Air</b></u>			
F-1	3.73	65	-35%
F-2	3.69	65	-35%
F-3	3.60	62	-38%
F-4	3.76	64	-36%

**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><b>Air</b></u>			
PM 10	...	57.25	-42.75%
PM 2.5	...	25.00	-58.33%
SO <sub>2</sub>	...	04.55	-94.31%
NO <sub>2</sub>	...	10.57	-86.78%



**Environment Statement For the Year 2015-16**  
**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(2014-15)	During the current financial year(2015-16)
From Process		
i. Used oil	15.54KL	7.942 KL
From Pollution Control		
Flue Dust from GCP	1392.3 Metric Ton	1424.62 Metric Ton

**PART – E**

**SOLID WASTES:**

Solid Wastes	Total Quantity	
	During the previous financial year(2014-15)	During the current financial year(2015-16)
From Process		
i. Slag tailing	165873 MT	173188.31 MT
From Pollution Control Facility	Nil	Nil
Quantity recycled or reutilized within the unit	100%	100%





## **Environment Statement For the Year 2015-16**

### **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  $\text{Cr}_2\text{O}_3$ . 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.