

FORM-V
(See rule14)

Environmental statement for the financial year ending the 31st March,2018

PART-A

- | | |
|---|---|
| (i) Name and address of the owner/
occupier of the industry
operation or process. | Mr.Suresh Chandra Basnsal
Managing Director |
| (ii) Industry category primary- (STC Code)
Secondary -(STC code) | Rolling Mill (Hot) |
| (iii) Production capacity-Units | 3.90 LTPA |
| (iv) Year of establishment | 2001 & 2011 |
| (v) Date of last environmental
statement | Submitted on 05.07.2017(For Year ending-31.03.2017) |

PART-B

Water and Raw Material consumption

- | | |
|----------------------------|-----------------|
| (i) Water consumption m3/d | : -37.23 KL/day |
| Process | : - 3 KL/day |
| Cooling | : -26.90 KL/day |
| Domestic | : -7. 33 KL/day |

Name of Products	Process Water consumption per unit of product out put
------------------	--

During the previous Financial year 2016- 2017	During the current financial year-2017-2018
--	--

- | | | |
|--|------------------------------------|------------------------------------|
| (1) Others Bars &Rods
of non Alloy Steel | | |
| (2)Others Bars & Rods
of Alloy Steel | 24 ltrs/Ton
(Cooling + process) | |
| (3) Others Alloy Steel
Flats& Rolled Products | | 33.78 ltrs/Ton (Cooling + process) |
| (4) Non Alloy Steel Flats
Rolled Products | | |

(ii) Raw Material Consumption-

Name of Raw Materials	Name of Products	Consumption of raw material per unit of out put	
		During the previous financial year-2016-2017	During the current financial year-2017-2018
Billets,	TMT Bar	1.054 MT/T	1.054 MT/T

Billets/Bloom/Slabs	1.054 MT/T	1.054 MT/T
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Industry may use codes if disclosing details of raw material would violate contractual obligations otherwise all industries have to the name raw material used.

PART-C

Pollution discharged to Environment/unit of output
(Parameter an specified in the consent issued)

1	Pollutants	Quantity of Pollutants discharged (mass/day)	Concentrations of pollutants in discharged (mass/volume)	Percentage of variation from prescribed standards with reasons.
(a)	Water	Nil- No discharge of effluent Water used in house		
(b)	Air	Test report enclosed 107 mg/Nm3 Monitoring done by JSPCB reconised LAB		



PART-D/ Value PM

Hazardous Wastes

(as per specified under Hazardous Wastes/Management and Handling Rules,1989).

Hazardous Wastes	Total Quantity(Kg.)	
	During the previous financial year-2016-2017	During the Current Financial year-2017-2018
(a) From Process	used oil - 135 lits	145 Ltrs
(b) From pollution control Facilities	Nil	

PART-E

Solid Wastes

Hazardous Wastes	Total Quantity(Kg.)	
	During the previous financial year-2016-2017	During the current Financial year-2017-2018
(a) From Process	Scrap - 10195 MT (Prod TMT Bar -291293 .38 MT)	Scrap -11300 MT (Prodn TMT Bar-322995.34 MT)
(b) From pollution control Facility		
(c) (1) Quantity recycled or re-utilised within the unit	Sold to party for use as raw material in their process - 10195 MT	Sold to party for use as raw material in their process - 11300 MT
(3) Disposed		

PART-F

Please specify the characterizations (in terms of composite and quantum) of Hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

Used oil-145 lits/year-used in gear lubrication & roll lubrication

PART-G

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

Dedusting equipments installed and stack height raised as per norms.Emission within limit.

Online Monitoring equipments installed in Water.

PART-H

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

Plantation being carried out along the boundary and road.Roads have been made pucca.

Any other particulars for improving the quality of the environment.

Improving water mgt, Maintaining Gardening tree Plantation -Rs. 286900.00, Housekeeping and Cleaning Rs. 3672000.00





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Format No. : EC/TRT/42/FM/01

TEST REPORT

Report Release Date	: 03.04.2018	Sample Ref. No.(ARF)	: EC/ARF/29/180345
Test Report No	: EC/TR/42/03129	Source of Sample	: Rolling Mill
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 28.03.2018
Sample Collected by	: Mr. Binod Singh & Team	Period of Analysis	: 30.03.2018
Sample Details	: Stack Emission	Sampling Location	: Furnace Stack
Name & Address	: Beekay Steel Industries Ltd	Sample Condition	: Preserved & Sealed
	Large Sector	Sample Stamped	: TH - 237
	A.I.A, Gamharia	Sample Drawn By	: ECO CARE
	Dist. - Saraikela Kharsawan	Sampling Plan & Procedure	: EC/SOP/03/01
	Jharkhand	Remarks	: ----
		Deviation if any	: None

GENERAL INFORMATION

1	Particular of the Plant	: Rolling Mill (TMT Bar)
2	Emission Due to	: Process Activity
3	Stack Connected to	: Reheating Furnace No -1
4	Material of Construction	: M.S.
5	Stack Height from G.L.	: 31.00 m
6	Height of Sampling Port from G.L.	: 20.90 m
7	Height of Sampling Port from L.D.Z.	: 11.75 m
8	Dimension of Stack at Sampling Port	: 1.50 m
9	Shape of the Stack	: Circular
10	Working Load	: 17 MT/hr

FUEL CHARACTERISTIC REPORT

1	Source of Energy	: Furnace Oil
2	Energy Consumption	: 35 Ltr/hr
3	Calorific Value (K-Cal/Kg)	: ----

RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

		Method
1	Flue Gas Temperature	265 °C
2	Barometric Pressure	750 mm Hg
3	Velocity of Flue Gas	8.26 m/sec
4	Flue Gas Quantity	28771 NM ³ /hr
5	Concentration of Particulate Matter	77.38 mg/NM ³
6	Concentration of Carbon Dioxide %	6.2
7	Concentration of SO ₂	36.59 mg/NM ³
8	Concentration of NO _x	58.69 mg/NM ³
		IS 11255 : Part 3
		IS 11255 : Part 3
		IS 11255 : Part 3
		IS 11255 : Part 3
		IS 11255 : Part 1
		IS 13270
		IS 11255 : Part 2
		IS 11255 : Part 7

1. Test values are reported based on the samples received.
2. Sample(s) will be destroyed after 7 days from date of issues of the Test Report subject to nature of Preservation. Sample will be preserved as per the standard method.
3. The Test report shall not be reproduced, without the written approval of laboratory


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Dy Technical Manager



Eco Care



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TEST REPORT

Report Release Date	: 03.04.2018	Sample Ref. No.(ARF)	: EC/ARF/29/180345
Test Report No	: EC/TR/42/03130	Source of Sample	: Rolling Mill
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 28.03.2018
Sample Collected by	: Mr. Binod Singh & Team	Period of Analysis	: 30.03.2018
Sample Details	: Stack Emission	Sampling Location	: Furnace Stack
Name & Address	: Beekay Steel Industries Ltd Large Sector A.I.A, Gamharia Dist. – Saraikela Kharsawan Jharkhand	Sample Condition	: Preserved & Sealed
		Sample Stamped	: TH – 238
		Sample Drawn By	: ECO CARE
		Sampling Plan & Procedure	: EC/SOP/03/01
		Remarks	: ----
		Deviation if any	: None

GENERAL INFORMATION

1	Particular of the Plant	: Rolling Mill (TMT Bar)
2	Emission Due to	: Process Activity
3	Stack Connected to	: Reheating Furnace No -2
4	Material of Construction	: M.S.
5	Stack Height from G.L.	: 31.00 m
6	Height of Sampling Port from G.L.	: 20.90 m
7	Height of Sampling Port from L.D.Z.	: 11.75 m
8	Dimension of Stack at Sampling Port	: 1.50 m
9	Shape of the Stack	: Circular
10	Working Load	: 15 MT/hr

FUEL CHARACTERISTIC REPORT

1	Source of Energy	: Producer Gas
2	Energy Consumption	: 30 kg/MT
3	Calorific Value (K-Cal/Kg)	: ----

RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

		Method
1	Flue Gas Temperature	252 °C
2	Barometric Pressure	750 mm Hg
3	Velocity of Flue Gas	7.94 m/sec
4	Flue Gas Quantity	28310 NM ³ /hr
5	Concentration of Particulate Matter	76.28 mg/NM ³
6	Concentration of Carbon Dioxide %	6.4
7	Concentration of SO ₂	66.59 mg/NM ³
8	Concentration of NO _x	34.23 mg/NM ³

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TEST REPORT

Report Release Date	: 03.04.2018	Sample Ref. No.(ARF)	: EC/ARF/29/180345
Test Report No	: EC/TR/42/03131	Source of Sample	: Rolling Mill
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 28.03.2018
Sample Collected by	: Mr. Binod Singh & Team	Period of Analysis	: 30.03.2018
Sample Details	: Stack Emission	Sampling Location	: Furnace Stack
Name & Address	: Beekay Steel Industries Ltd Large Sector A.I.A, Gamharia Dist. – Saraikela Kharsawan Jharkhand	Sample Condition	: Preserved & Sealed
		Sample Stamped	: TH – 239
		Sample Drawn By	: ECO CARE
		Sampling Plan & Procedure	: EC/SOP/03/01
		Remarks	: ----
		Deviation if any	: None

GENERAL INFORMATION

1	Particular of the Plant	: Rolling Mill (TMT Bar)
2	Emission Due to	: Process Activity
3	Stack Connected to	: Reheating Furnace No -3
4	Material of Construction	: M.S.
5	Stack Height from G.L.	: 31.00 m
6	Height of Sampling Port from G.L.	: 20.90 m
7	Height of Sampling Port from L.D.Z.	: 11.75 m
8	Dimension of Stack at Sampling Port	: 1.50 m
9	Shape of the Stack	: Circular
10	Working Load	: 21 MT/hr

FUEL CHARACTERISTIC REPORT

1	Source of Energy	: Producer Gas
2	Energy Consumption	: 100 kg/MT
3	Calorific Value (K-Cal/Kg)	: ----

RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

		Method	
1	Flue Gas Temperature	280 °C	IS 11255 : Part 3
2	Barometric Pressure	750 mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	8.33 m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	28221 NM ³ /hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	78.36 mg/NM ³	IS 11255 : Part 1
6	Concentration of Carbon Dioxide %	6.0	IS 13270
7	Concentration of SO ₂	75.93 mg/NM ³	IS 11255 : Part 2
8	Concentration of NO _x	46.36 mg/NM ³	IS 11255 : Part 7

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Format No. : EC/TRT/42/FM/04

TEST REPORT

Report Release Date : 03.04.2018	Sample Ref. No.(ARF) : EC/ARF/29/180345
Test Report No : EC/TR/42/03132	Source of Sample : Rolling Mill
Type of Sample : Suspended Dust & Gases	Sampling Date : 28.03.18 to 29.03.18
Sample Collected by : Mr. Binod Singh & Team	Period of Analysis : 30.03.18 to 31.03.18
Sample Details : Ambient Air	Sample Condition : Sealed & Preserved
Name & Address : Beekay Steel Industries Ltd	Remarks : ---
Large Sector	Sample Drawn By : ECO CARE
A.I.A, Gamharia	Sampling Plan &
Dist. – Saraikela Kharsawan	Procedure : EC/SOP/03/01
Jharkhand	Deviation if any : None

METEOROLOGICAL INFORMATION

1	Average Temperature	30.0 C	2	Barometric Pressure	750 mm of Hg
3	Average Relative Humidity	61.0 %	4	Weather Condition	Clear Day

AMBIENT AIR QUALITY ANALYSIS REPORT

TEST METHOD	IS : 5182 (Part – 2)	IS : 5182 (Part – 6)	IS : 5182 (Part – 23)	EPA CFR40(50), Appendix 1
PARAMETERS	SO ₂ (µg/M ³)	NO _x (µg/M ³)	PM < 10 micron (µg/M ³)	PM-2.5 (µg/M ³)
Method Detection Limit	4	6	20	10

1. Sampling Location : Near Scrap Yard

Shift - A (10:10 AM To 06:10 PM)	25.58	35.09	94.04	38.84
Shift - B (06:20 PM To 02:20 AM)	19.77	26.46	73.36	
Shift - C (02:30 AM To 10:30 AM)	22.67	30.06	86.10	
Average (Shift - A To Shift - C)	22.67	30.54	84.50	

2. Sampling Location : Near Main Gate

Shift - A (10:20 AM To 06:20 PM)	31.40	37.25	82.48	34.85
Shift - B (06:30 PM To 02:30 AM)	22.67	29.34	70.33	
Shift - C (02:40 AM To 10:40 AM)	28.49	34.37	77.54	
Average (Shift - A To Shift - C)	27.52	33.65	76.78	

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Format No. : EC/TRT/42/FM/04

TEST REPORT

Report Release Date : 03.04.2018	Sample Ref. No.(ARF) : EC/ARF/29/180345
Test Report No : EC/TR/42/03133	Source of Sample : Rolling Mill
Type of Sample : Suspended Dust & Gases	Sampling Date : 28.03.18 to 29.03.18
Sample Collected by : Mr. Binod Singh & Team	Period of Analysis : 30.03.18 to 31.03.18
Sample Details : Ambient Air	Sample Condition : Sealed & Preserved
Name & Address : Beekay Steel Industries Ltd	Remarks : ---
Large Sector	Sample Drawn By : ECO CARE
A.I.A, Gamharia	Sampling Plan &
Dist. – Saraikela Kharsawan	Procedure : EC/SOP/03/01
Jharkhand	Deviation if any : None

METEOROLOGICAL INFORMATION

1	Average Temperature	30.0 C	2	Barometric Pressure	750 mm of Hg
3	Average Relative Humidity	61.0 %	4	Weather Condition	Clear Day

AMBIENT AIR QUALITY ANALYSIS REPORT

TEST METHOD	IS : 5182 (Part – 2)	IS : 5182 (Part – 6)	IS : 5182 (Part – 23)	EPA CFR40(50), Appendix 1
PARAMETERS	SO ₂ (µg/M ³)	NO _x (µg/M ³)	PM < 10 micron (µg/M ³)	PM-2.5 (µg/M ³)
Method Detection Limit	4	6	20	10

3. Sampling Location : Near Foreman Office (Furnace No. 3)

Shift	Time	SO ₂ (µg/M ³)	NO _x (µg/M ³)	PM < 10 micron (µg/M ³)	PM-2.5 (µg/M ³)
Shift - A	(10:30 AM To 06:30 PM)	28.49	36.53	87.15	30.84
Shift - B	(06:40 PM To 02:40 AM)	19.77	28.62	60.47	
Shift - C	(02:50 AM To 10:50 AM)	25.58	32.21	72.27	
Average	(Shift - A To Shift - C)	24.61	32.45	73.30	

4. Sampling Location : Near Coal Storage Area

Shift	Time	SO ₂ (µg/M ³)	NO _x (µg/M ³)	PM < 10 micron (µg/M ³)	PM-2.5 (µg/M ³)
Shift - A	(10:40 AM To 06:40 PM)	31.40	33.65	91.07	42.12
Shift - B	(06:50 PM To 02:50 AM)	22.67	24.30	68.85	
Shift - C	(03:00 AM To 11:00 AM)	25.58	27.90	80.42	
Average	(Shift - A To Shift - C)	26.55	28.62	80.11	

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Format No. : EC/TRT/42/FM/05

TEST REPORT

Report Release Date : 03.04.2018	Sample Ref. No.(ARF) : EC/ARF/29/180345
Test Report No : EC/TR/42/03134	Source of Sample : Rolling Mill
Type of Sample : Water	Sampling Date : 29.03.2018
Sample Collected by : Mr. Binod Singh	Period of Analysis : 30.03.18 to 02.04.18
Sample Details : Effluent Water (Near Main Gate)	Sampling Location : Plant Outlet
Name & Address : Beekay Steel Industries Ltd	Sample Condition : Sealed & Preserved
Large Sector	Sample Stamped as : "BK"
A.I.A, Gamharia	Sample Drawn By : ECO CARE
Dist. Saraikela Kharsawan	Remarks : ----
Jharkhand	Sampling Plan & Procedure : EC/SOP/03/01
	Deviation if any : None

Sl. No.	Parameters	Unit	Test Method (APHA 22 nd Edition)	Standards (EPR 1986 & IS 2296:1982)	Results
1	pH 24.7 °C		4500-H ⁺ B	5.5 – 9.0	6.68
2	Temperature	°C	----	----	24.7
3	TSS	mg/l	2540 D	100.0	81.60
4	TDS	mg/l	2540 C	2100.0	468.10
5	BOD (3 days) at 27.0 °C	mg/l	IS 3025 (Part - 44): 2009	30.0	18
6	COD	mg/l	5220 B	250.0	60.48
7	Oil & Grease	mg/l	5520 B	10.0	3.64

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TEST REPORT

Report Release Date : 03.04.2018	Sample Ref. No.(ARF) : EC/ARF/29/180345
Test Report No : EC/TR/42/03135	Source of Sample : Rolling Mill
Type of Sample : Noise	Sampling Date : 28.03.2018
Sample Collected by : Mr. Binod Singh & Team	Period of Analysis : ----
Sample Details : Ambient Noise	Sample Condition : ----
Name & Address : Beekay Steel Industries Ltd	Remarks : ----
Large Sector	Sample Drawn By : ECO CARE
A.I.A, Gamharia	Sampling Plan &
Dist. – Saraikela Kharsawan	Procedure : EC/SOP/03/01
Jharkhand	Deviation if any : None

METEOROLOGICAL INFORMATION

1	Average Temperature (°C)	30.0
2	Average Relative Humidity (%)	61.0
3	Barometric Pressure (mm of Hg)	750
4	Weather Condition	Clear Day

AMBIENT NOISE QUALITY REPORT

Sampling Location	NOISE LEVEL		
	Minimum	Leq – Mean	Maximum
1. Near Main Gate	60.20 dB(A)	72.98 dB(A)	78.80 dB(A)
2. Near Foreman Office	70.10 dB(A)	74.74 dB(A)	79.80 dB(A)
3. Near Scrap Yard	63.60 dB(A)	70.74 dB(A)	75.30 dB(A)
4. Near Coal Storage Area	58.20 dB(A)	66.55 dB(A)	73.10 dB(A)

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