

ORISSA METALIKS PRIVATE LIMITED

REGD. OFFICE : 1, GARSTIN PLACE, 'ORBIT HOUSE', 3RD FLOOR, ROOM NO. 3B, KOLKATA - 700 001, INDIA
Phone : +91-33-2243-8518, Fax : +91-33-2243-8517, E-mail : sc_ompl@orissametaliks.com
Website : www.orissametaliks.com, CIN : U27109WB2006PTC111146

Ref. OMPL-II/ENV_Statement / 2020-2021

Date: 23-Sept- 2019

To,
The Member Secretary,
West Bengal Pollution Control Board
Parivesh Bhawan
10A, Block LA, Sector – III, Salt Lake City
Kolkata- 700 098

**Sub. Environmental Statement for the Financial Year ending the 31st March, 2020 Submitted by
M/s Orissa Metaliks Private limited Unit-II**

Dear Sir,

With reference to the above subject matters , we hereby enclosed the Environmental statement for the financial year ending the 31st March 2020 as per rule – 14, Form – V for your ready reference.

So, kindly acknowledge the same.

Thanking you,

For, M/s Orissa Metaliks Private limited Unit-II

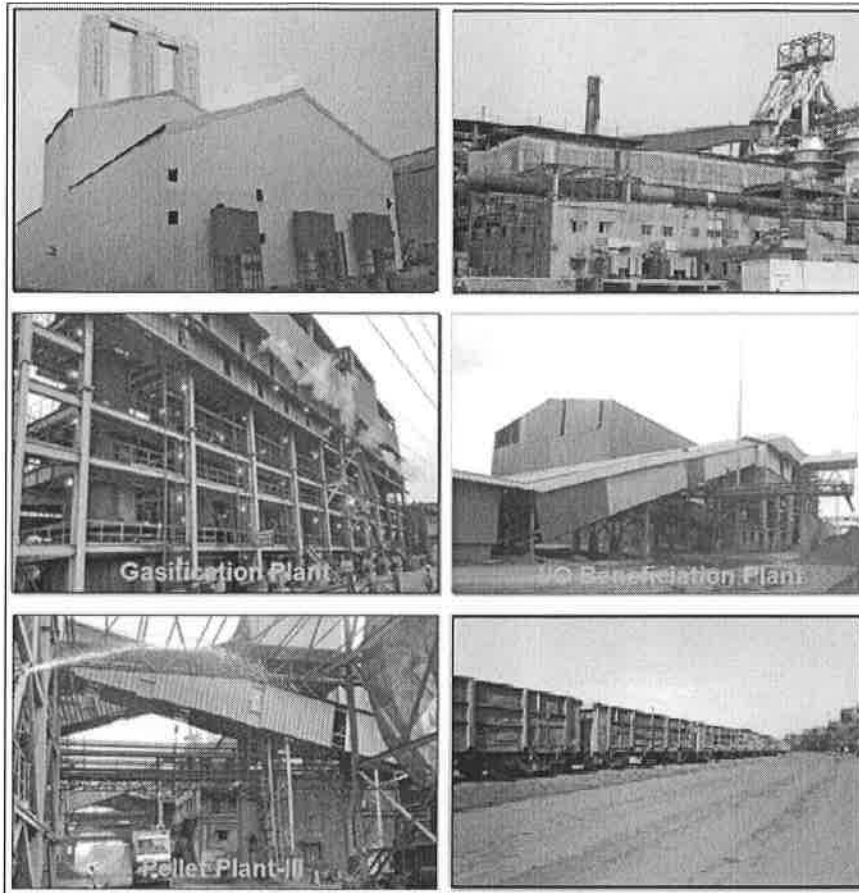
Authorized Signatory

Encl. Stated as above



Environmental Statement for the Financial Year 2019-2020

FORM-V



ORISSA METALIKS PRIVATE LIMITED

Factory address:

M/s Orissa Metaliks Private Limited Unit-II
Village-Gokulpur P.O – Shyamraipur, P.S – Kharagpur (Local)
Dist. – Paschim Midnapur (W), Pin-721301, West Bengal

[FORM - V]

(Rule - 14)

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

PART - I

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

Registered & Corporate office address:

M/s Orissa Metaliks Private Limited

1, Grastin Place, Orbit House

3rd Floor, Room No-3B

Kolkata - 700 001

West Bengal

Factory address / location:

M/s Orissa Metaliks Private Limited Unit-II

Village - Gokulpur, P.O - Shyamraipur, P.S - Kharagpur (Local)

Dist - Medinipur (West), Pin - 721301

West Bengal

ii. **Industry category**

Red Category

iii. **Production Capacity**

Sl. No.	Name of the Product	Production Capacity	
		2018-2019	2019-2020
1	Iron Ore Beneficiation	--	--
2	Iron Ore Pellet	13,69,991.84 TPA	22,68,239.13 TPA
3	Producer Gas Plant	7174.03 Nm ³ /hr	13,837.99 Nm ³ /hr
4	MBF	2,72,862.63 TPA	3,40,351.33 TPA
5	Oxygen Plant	200 TPD	200 TPD

iv. **Year of Establishment:** Year of 2007

v. **Date of the last Environmental Statement submitted:** July 2018

PART - B

(i) Water and River Material Consumption

(1) Water consumption (m³/Day): 1080 KLD

(2) Process: 112 KLD

(3) Cooling: 950 KLD

(4) Domestic: 18 KLD

Name of the Products	Water consumption of Product output	
	During the previous Financial year- 2018-2019	During the Current Financial Year- 2019-2020
I/O Beneficiation	--	--
Producer Gas Plant	80 KLD	112 KLD*
Iron Ore Pellet & Oxygen Plant	310 KLD	410 KLD*
Mini Blast Furnace	450 KLD	540 KLD*

* All data are furnished in the basis of makeup water per day and production capacity is as per CFO permission.

(ii) Raw Materials Consumption:

Name of Raw Materials	Name of Products	Consumption of Raw Materials per unit of Output	
		During Previous Financial year 2018-2019	During current Financial year 2019-2020
Iron Ore	Iron Ore Pellet	1.239	1.256
Bentonite		0.011	0.012
Coal		0.032	0.018
Petroleum Coke		0.012	0.006
Coke Fines		0.011	0.002
Coal - Anthracite		0.027	0.058
Iron Ore	Pig Iron	0.180	0.360
Coke		0.571	0.494
Lime Stone		0.038	0.008
Dolomite		0.022	----
Pyroxinite		0.018	0.009
Manganese		----	0.001
Sinter		1.484	1.291
Iron Ore Pellet		----	----
Anthracite Coal		0.088	0.166
Ferro Silico		----	----
Low grade Coal	Producer gas	0.5	1.256

PART - C

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

A. Water Pollution:

Pollutants	Quantity of pollutants discharged (mass / day)	Concentrations of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
NIL	<p>As the industry is being operated on dry process technology, no liquid effluent is generated from the manufacturing process.</p> <p>However, the waste water generated during the cooling, spraying etc. Waste water is treated through in primary ETP. Clean water is used for preventive the fugitive emission and Green Belt development after conformity with the CPCB guideline. Phenolic water is used for green ball making and on coal spraying</p> <p>Domestic waste water generated from residential colony and office toilets is treated by septic tank and Soak pits.</p>		

B. Air Pollution:

Pollutant Type: - Particular Matter

Source of Pollutants	Quantity of pollutants discharged (mass / day)	Concentrations of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
Pellet Unit Stacks			
-- Pellet Pre-Heater -2	122.11 Kg/day	20.45 mg/Nm ³	Within the limit as per CFO warded from WBPCB & MoEF /CPCB Notification The analysis report is enclosed as Annexure-I .
-- Pellet Pre-Heater -3	128.04 Kg/day	20.65 mg/Nm ³	
-- Pellet Pre-Heater -4	119.93 Kg/day	19.63 mg/Nm ³	
-- Pellet Pre-Heater -5	123.78 Kg/day	20.77 mg/Nm ³	
-- Mini Blast Furnace	70.92 Kg/day	23.02 mg/Nm ³	

PART - D
Hazardous Waste

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

Hazardous Waste	Total Quantity (Kg)	
	During the previous Financial Year (2018-2019)	During the current Financial Year (2019-2020)
From Process	For Liquid : 5338.06 MTPA For Solid : 80 Kg	For Liquid : 4150 Litre For Solid : 2020.09 TPA
From Pollution control facilities	None	None

PART - E
Solid Waste

		Total Quantity	
		During the previous Financial Year (2018-2019)	During the current Financial Year (2019-2020)
A	From Process	66,000 TPA	2,27,150 TPA
B	From Pollution control facilities	32,300 TPA	24,170 TPA
	1 Quantity recycled or re-utilized within the unit	99,300 TPA	2,51,320 TPA
	2 Sold	--	--
C	3 Disposed	--	--

PART-F

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

Sr. No.	Name of the Hazardous waste	Quantity per Annam
1	Used transformer Oil (Rule 5.1)	150 Liter.
2	Waste Oil (Rule 5.1)	4000 Liter
3	DG set Filter (Damage) (Rule 35.1)	01 No
4	Cotton waste / Jute containing Oil (Rule - 5.2)	35 Kg
5	Coal Tar (Rule -13.3)	2020 TPA
6	Bag Filter (35.1)	55 kg

All Hazardous wastes are disposed of by WBPCB authorised vendors.

Organic bio-degradable solid wastes are used for organic manure creation and used for Green Belt development purpose.

PART-G

In respect of the pollution abatement measures taken up on conservation of natural resources and on the cost of production.

We have adopting some good manufacturing practice for betterment of plant environment like:

1. Bag Filters dust from pellet plant are 100% reused in process.
2. Iron ore fines are used for pellet production and this pellet will used in DRI production.
3. SMS slag is used in Rashmi cement Limited & Bansal Cement Private Limited for cement manufacturing
4. Currently wet grinding is practice however for tailing utilization agreement is made with Rashmi Metaliks limited for using in Sinter of M/s Rashmi Metaliks Ltd Plant.



PART-H

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

We are adopting the 'Zero water Discharge' philosophy for our day to day plant operation i.e. Reduce - Recycle - Reuse the water. We are also adopting the Rain water harvesting and roof top rain water harvesting (proposed) schemes for minimizing the Ground water uses.

Environment protection and pollution controls have been the priority for the industry. Any suggestions or improvements made by the Pollution Control Board would be implemented.

PART-I

Any other particular for improving the quality of the environment

In addition to training of employees in various aspects of pollution control activities of the plant, programmes like celebration of World Environment Day, World safety Day, screening of films on environment; tree plantation etc. will be regularly carried out in order to create greater awareness towards environment protection amongst employees and the people in the neighbouring areas.

All the environmental standards / stipulation will be fully maintained by the plant Management on priority basis.

Constant efforts will be made in making use of the updated technologies.

PART J

Table J specifies the characteristics (in terms of composition and quantity) of effluents as well as solid wastes and surface disposal practices adopted for both the categories of wastes.

S. No.	Name of the Effluent	Quantity (liters per day)
1	Used Grease Oil (G.O.)	150 liter
2	Spent Oil (S.O.)	4000 liter
3	Waste Water (Domestic) (D.W.)	11.75
4	Waste Water (Industrial) (I.W.)	31.85
5	Waste Water (Sewage)	5000 liter
6	Waste Water (Rain)	20.15

PART K

Table K specifies the pollution abatement measures taken up in order to reduce the level of effluents and the cost of treatment.

We have adopted various measures for treatment of effluents. The cost of treatment is as follows:
1. Effluent treatment plant (ETP) - Rs. 1000000/-
2. Sewage treatment plant (STP) - Rs. 500000/-
3. Rain water harvesting system - Rs. 200000/-
4. Solid waste management system - Rs. 100000/-
5. Noise abatement measures - Rs. 50000/-
6. Air pollution control measures - Rs. 100000/-
7. Water conservation measures - Rs. 50000/-
8. Environmental monitoring system - Rs. 100000/-
9. Employee training and awareness programmes - Rs. 50000/-
10. Environmental impact assessment (EIA) - Rs. 1000000/-
11. Environmental management system (EMS) - Rs. 500000/-
12. Environmental audit - Rs. 100000/-
13. Environmental reporting - Rs. 50000/-
14. Environmental communication - Rs. 50000/-
15. Environmental research and development - Rs. 1000000/-
16. Environmental education - Rs. 50000/-
17. Environmental protection - Rs. 1000000/-
18. Environmental quality management system (EQMS) - Rs. 500000/-
19. Environmental performance evaluation - Rs. 100000/-
20. Environmental risk assessment - Rs. 500000/-



ENVIROCHECK

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189 & 190, Rastraguru Avenue, Kol-700028, Ph : 2679-2889 /2891, 2649-7490, Fax : 2529-9141
E-mail : envirocheck@cal2.vsnl.net.in, Website : www.envirocheck.org

STACK GAS ANALYSIS REPORT

1.	Name of the Industry	:	Orissa Metaliks Private Limited
2.	Address	:	Vill.- Gokulpur, O.O. – Shyamraipur, Kharagpur, Paschim Medinipur
3.	Date of Sampling	:	5.03.2020
4.	Report No.	:	34/EC/Mar./TR (A)/I/19-20
5.	Analysis completed on	:	08.03.2020
6.	Reporting Date	:	09.03.2020

A. GENERAL INFORMATION ABOUT STACK

1.	Stack attached to	:	Pellet Pre Heater Discharge-I
2.	Shape of Stack	:	Circular
3.	Material of Construction	:	M.S.
4.	Height of Stack from G. L. (mtr.)	:	50.0
5.	Stack I.D. at sampling point (mtr.)	:	3.0
6.	Height of sampling port G. L. (mtr.)	:	---
7.	Load of the plant	:	2000 TPD
8.	Emission due to	:	Combustion of PCI & P. Gas

(a) Type of Fuel used: PCI & P. Gas (b) Fuel Consumption: PCI-2.5 TPH & P.Gas-5500 M³/Hr.

Coal	Cal-Value (K-Cal/Kg.) ---	Ash Content (0% by Wt.) --	Sulphur Content (0% by Wt.) --
9.(a) Permanent ladder & platform	Yes	(b) Pollution Control Device	: E.S.P

B. RESULTS OF SAMPLING

SL. NO.	PARAMETERS	METHOD NO.	RESULTS
1.	Flue Gas Temperature (°C)	IS: 11255 (Part 1)	: 114
2.	Barometric Pressure (mm of Hg.)	--	: 755
3.	Velocity of Gas flow (m/S)	IS: 11255 (Part 3)	: 10.11
4.	Quantity of Gas flow (Nm ³ /hr.)	IS: 11255 (Part 3)	: 181420.565
5.	Concentration of particulate Matter (mg/Nm ³)	IS: 11255 (Part – 1) & ASTM D 3685/D 3685M	: 33.11

Remarks : All the information under column A are supplied by the respective industry.

Date: 09.03.2020

Authorised Signatory:

Dr. Ajoy Paul
Dr. Ajoy Paul

(Quality Manager)



WEST BENGAL POLLUTION CONTROL BOARD
HALDIA REGIONAL LABORATORY
Block - 5, 40 flats complex, Priyambada Housing Estate, Basudeb
P.O.Khanjanchak, Durgachak, Haldia, Tel- (03224)276

Analysis Report of Gaseous Emission
Analysis Done at Haldia Regional Laboratory:

1. Name of Industry	M/S. Orissa Metaliks Pvt. Ltd.(Unit-II)		
2. Address	Gokulpur, P.O - Shyamraipur, Paschim Medinipur		
3. Category & Type	Red/Sponge & Steel Plant		
4. Sampling Date	13/08/19		
5. Duration of Sampling	28.0 min.		
6. Name of Laboratory	M/S. S.M.Scientific Service		
7. Height of Stack from ground (m)	50.0		
8. Cross section of Stack at sampling point(m ²)	7.0714		
9. Stack connected to	Pellet Pre-heater discharge no.3		
10. Emission due to (Furnace /Boiler)	Burning of PCI & PG		
11. Average operational hours of boiler/ furnace (per month)	720 Hrs./Month		
12. APC System (if any)	ESP		
13. Working load of source (MT/hr)	2000 TPD		
14. Fuel used	Coal & Producer gas		
15. Rated Fuel consumption (Kg or l/hr)	-		
16. Working Fuel consumption (Kg or l/hr)	PCI-2.3TPH & PG-5000M ³ /hr		
17. Nature of Furnace /Boiler	Rotary kiln		
18. Flue gas Temp. (°C)	143.0		
19. Flue gas velocity	10.98 m/sec	20. Volume of Flue gas drawn in lit (m ³)	1.036
21. Corrected flue gas volume (Nm ³)	0.888	22. Percentage CO ₂	6.4 %
23. To be compensated at (% if required)	-		
24. Initial wt of thimble (gm)	1.4945	25. Final wt of thimble (gm)	1.5296
26. Wt. of PM (mg)	0.035	27. Particulate matter (mg/Nm ³)	39.53
28. Barometric Pressure Head	749.0 mm Hg	29. Diameter of the nozzle	9.523 mm
30. Others:-	-		
31. Thimble No.	748		
32. Sampled by:	N C Barai, AEE, HRO		

*Done by M/S. S.M.Scientific Service

Signature of Scientist
03/09/19

Signature of In-Charge
03/09/19

Copy to:
1. Chief Engineer, O & E, WBPCB
2. Environmental Engineer, H.R.O., WBPCB (two copies)





GREENVISION

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Urvashi Malhar, Phase II, MEAV-25, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216
Contact : 0343-2542377, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com

TEST REPORT OF STACK GAS ANALYSIS [FORMAT NO. : GV/LAB/FM/33A]

Page : 1/1

Sample is drawn by M/s. Greenvision		Laboratory Ref. No.	: AS-234-2019
Report No.	: GV/AR/19-20/0389	Report Date	: 12.11.2019
Issued to	: M/s. Orrisa Metaliks Pvt. Ltd.[Unit-II]	Date of Sampling	: 09.11.2019
Address	: Vill. : Gokulpur, P.O. : Shyamraipur, Paschim Medinipur, 721301.	Analysis Started On	: 11.11.2019
Sample Description	: Stack Air	Analysis Completed On	: 11.11.2019
Location	: Pellet Pre Heater Discharge No. 4	Time of Sampling	: 01:30 pm
Sample Condition	: In GMF Thimble		
Sampling Method	: CPCB, Emission Regulation (Part III)		
Test Method	: CPCB, Emission Regulation (Part III), IS:11255 (Part I), 1985, Reaffirmed 2014, IS:11255 (Part 3), 2008, IS:11255 (Part 2), 1985, Reaffirmed 2014, IS:13270:1992, Reaffirmed 2014		

A. GENERAL INFORMATION ABOUT STACK

01. Particulars of plant	: Steel Plant
02. Stack connected to	: Pellet Pre Heater Discharge No. 4
03. Material of construction	: Concrete
04. Shape of stack	: Circular
05. Height of stack from G.L (mtr)	: 50.0 from roof level (mtr) : ---
06. Height of sampling from G.L (mtr)	: --- from L.D.Z (mtr) : ---
07. Internal stack diameter at sampling point (mtr)	: 3.0
08. Emission due to	: Combustion of PCI & P.G.
09. Steam generation capacity: (rated)	: --- (running) : ---
10. Load of source: (rated)	: --- (running) : 2000 TPD

B. FUEL CHARACTERISTIC REPORT

01. Type of fuel used	: PCI & P.G.
02. Calorific value (K-Cal/Kg): ---	03. Ash content (% by Wt): ---
05. Rated fuel consumption	: ---
06. Working fuel consumption	: PCI : 2.5 TPH & P.G. : 5000 m ³ /Hr.

C. RESULTS OF GASEOUS EMISSION SAMPLING

01. Flue gas temperature (°C)	: 118
02. Barometric pressure (mm of Hg)	: 755.0
03. Velocity of flue gas (m/sec)	: 11.26
04. Quantity of gas flow (Nm ³ /hr.)	: 213252.02
05. Concentration of Particulate Matter (mg/ Nm ³)	: 24.96
06. Particulate Matter normalized at 12% CO ₂	: ---
07. Concentration of SO ₂ (mg/ Nm ³)	: ---
08. Concentration of NO ₂ (mg/ Nm ³)	: ---
09. Concentration of CO ₂ (% V/V)	: 9.6
10. Concentration of CO (% V/V)	: < 1.0

Pollution Control Device	: ESP
Permanent Ladder and Platform	: Yes

ANALYST

Payal Ghosh

Green Vision



- Note: 1. This report refers to the values obtained at the time of testing and results related to the items tested.
2. All the information under column A & B are supplied by the respective industry.
3. This certificate may not be reproduced in part or full without written permission of the management.
4. Retention period of tested sample (Thimble) is 6 months from the date of issue test report unless otherwise specified.

City Office : 3/45, Viveknagar, Jadavpur, Kolkata-700 065, Ph. : 9433158173

Branch Office : Durgachak, Haldia, Purba Medinipur, Ph. : 9593474712 • M. N. Sarkar Road, Mahananda Para, Siliguri-734001



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E-mail : envcheck@cal2.vant.net.in, Website : www.envirocheck.org

STACK GAS ANALYSIS REPORT

1.	Name of the Industry	:	Orissa Metaliks Pvt. Ltd (Unit-II).
2.	Address	:	Vill.- Gokulpur, O.O. – Shyamraipur, Kharagpur, Paschim Mednipur
3.	Date of Sampling	:	07.12.2019
4.	Report No.	:	10/EC/Nov./TR (A)/I/19-20
5.	Analysis completed on	:	11.12.2019
6.	Reporting Date	:	14.12.2019

A. GENERAL INFORMATION ABOUT STACK

1.	Stack attached to	:	Pellet Pre Heater Discharge No. 5
2.	Shape of Stack	:	Circular
3.	Material of Construction	:	Concrete
4.	Height of Stack from G. L. (mtr.)	:	50.0
5.	Stack I.D. at sampling point (mtr.)	:	3.0
6.	Height of sampling port G. L. (mtr.)	:	---
7.	Load of the plant	:	2000 TPD
8.	Emission due to	:	Combustion of PCI & P.Gas

(a) Type of Fuel used: PCI & P. Gas (b) Fuel Consumption: PCI: 2.5 TPH & P.G: 5500 M³/Hr.

Coal	Cal-Value (K-Cal/Kg.) ---	Ash Content (0% by Wt.) ---	Sulphur Content (0% by Wt.) ---
9.(a) Permanent ladder & platform	Yes	(b) Pollution Control Device	: E.S.P

B. RESULTS OF SAMPLING

SL. NO.	PARAMETERS	METHOD NO.	RESULTS
1.	Flue Gas Temperature (°C)	IS: 11255 (Part 1)	: 114
2.	Barometric Pressure (mm of Hg.)	--	: 755
3.	Velocity of Gas flow (m/S)	IS: 11255 (Part 3)	: 10.21
4.	Quantity of Gas flow (Nm ³ /hr.)	IS: 11255 (Part 3)	: 183381.52
5.	Concentration of SO ₂ (mg/Nm ³)	IS: 11255 (Part 2)	: ---
6.	Concentration of CO ₂ % (v/v)	IS: 13270	: 9.3
7.	Concentration of CO % (v/v)	IS: 13270	: <1.0
8.	Concentration of particulate Matter (mg/Nm ³)	IS: 11255 (Part – 1) & ASTM D 3685/D 3685M	: 37.85

Remarks : All the information under column A are supplied by the respective industry.

Date: 14.12.2019

Authorised Signatory:

Dr. Ajoy Paul
Dr. Ajoy Paul
(Quality Manager)