

Ref. OMPL (UNIT- II)/ENV_Statement/2023-2024

Date- 26.09.2023

To,
The Member Secretary,
West Bengal Pollution Control Board
Parivesh Bhawan,
10A, Block LA, Sector - III, Salt lake City
Kolkata - 700098



Sub: Environmental Statement for the Financial Year ending the 31st March, 2023
submitted by M/s - Orissa Metaliks Private Limited (Unit - II)

Dear Sir,

With respect to the above subject matters, we hereby enclosed the Environmental statement for the financial year ending the 31st March, 2023 as per rule - 14, Form - V for your ready reference.

You are requested kindly acknowledge the same.

Thanking you,
For, M/s- Orissa Metaliks Private Limited (Unit - II)

ORISSA METALIKS PVT. LTD.

Director/Authorised Signatory
Authorized Signatory

Encl. Stated as above.

**ENVIRONMENTAL STATEMENT FOR
THE FINANCIAL YEAR
2022-2023**

FORM - V

**M/S. ORISSA METALIKS PVT. LTD.
(UNIT - II)**



Factory Address:

**M/s – Orissa Metaliks Pvt. Ltd.
(Unit – II)**

*Village – Gokulpur, P.O. – Shyamraipur,
P.S. – Kharagpur (Local) Dist. – Paschim
Medinipur (W), Pin – 721301, West Bengal*

ORISSA METALIKS PVT. LTD.

Director/Authorised Signatory

**[FORM-V]
(Rule-14)**

**Environmental Statement for the financial year ending the 31st March
2023**

PART - I

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

i) Register & Corporate Office address:

M/s Orissa Metaliks Private Limited (Unit - II).

1, Garstin Place, Orbit House

3rd Floor, Room No- 3B

Kolkata - 700001

West Bengal

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 as per Valid CTO	Production (2021-2022)	Actual Production (2022-2023)
1.	Iron Ore Pellet or DRI grade pellet (using pet coke & anthracite coal)	44,00,000 TPA	35,19,530.52 TPA	34,41,873.28 TPA
2.	Concentrated Iron Ore	44,00,000 TPA	--	
3.	Producer gas	1,20,000 Nm ³ /Hr	15,000 Nm ³ /Hr	7,500 Nm ³ /Hr
4.	Oxygen by cryogenic	200	200	180 TPD

ORISSA METALIKS PVT. LTD.

Director/Authorised Signatory

5.	Nitrogen distillation process	650	640	600 TPD
6.	Argon	15	12	11 TPD
7.	Hot metal/Pig Iron	4,50,000 TPA	3,89,995.81 TPA	4,48,406.03 TPA
8.	BF Gas	86,000 Nm ³ /Hr.	--	--
9.	Loading and unloading through rakes (Pvt. railway siding)	5,00,000 TPA	--	--

iv) Year of Establishment: - 2007

v) Date of the last Environment Statement Submitted :- 24/11/2022

PART - B

i) Water and river material consumption :-

1. Water Consumption (m³/day) = 1482.0 KLD

2. Process = 99.0KLD

3. Cooling = 1356.0 KLD

4. Domestic Purpose = 27 KLD

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

ii) Raw Material Consumption :-

Name of Raw Materials	Name of Products	Consumption of Raw Materials per unit of Output	
		During Previous Financial year 2021-2022	During current financial year 2022-2023
Iron Ore	Iron Ore Pellet	1.157	1.127
Bentonite		0.008	0.008
Coal		0.014	0.001
Petroleum Coke		0.028	0.043
Coke Fines		----	----
Coal - Anthracite		0.025	0.002
Iron Ore		0.270	0.075
Coke		0.590	0.525
Lime Stone		0.010	0.003
Dolomite			0.002

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Authorised Signatory

Pyroxenite	Pig Iron	0.004	0.005
Manganese		0.002	0.001
Sinter		1.243	1.206
Iron Ore Pellet		0.274	0.418
Anthracite Coal		0.208	0.198
Ferro Silico		-----	-----
Low Grade Coal	Producer Gas	-----	-----

PART - C

A. Water Pollution:-

Pollutants	Quantity of pollutant discharged (mass/day)	Concentration of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standard with reason
Nil	<p>As the industry is being operated on dry process technology, no effluent is generated from the manufacturing process.</p> <p>However the waste water generated during the cooling, spraying etc. Waste water is treated through primary ETP. Clean water is used for reduce the fugitive emission and green belt development after conformity with the CPCB guideline.</p> <p>Domestic waste water generated from residential colony and office toilets is treated by septic tanks and Soak-pits.</p>		

B. Air Pollution:

Pollutant type: - Particular Matter

Source of Pollutants	Quantity of pollutant discharged (mass/day)	Concentration of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standard with reason
MBF	8.24 kg/day	3.14 mg/Nm ³	Within the limit as per CFO awarded from WBPCB & MoEF/CPCB notification. The analysis report is annexed as Annexure I.
Pellet Pre Heater Stack II	165.03 kg/day	23.82 mg/Nm ³	
Pellet Pre Heater Stack III	229.07 kg/day	20.82 mg/Nm ³	
Pellet Pre Heater Stack IV	127.14 kg/day	20.14 mg/Nm ³	
Pellet Pre Heater V	156.694 kg/day	17.63 mg/Nm ³	

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

Hazardous Waste	Total Quantity	
	During the Financial year (2021-2022)	During the current Financial year (2022-2023)
From Process	For Liquid = 423.26 TPA For Solid = 0.018 TPA	For Liquid = 70.88 TPA For Solid = 0.0471 TPA
For pollution control facilities	0.055 TPA	0.16027 TPA

PART - E
Solid waste

	Total Quantity	
	During the financial year (2021-2022)	During the Current financial year (2022-2023)
a) From process	2,41,342.94 TPA	2,50,357 TPA
b) From pollution control facilities	2,900 TPA	3,334.33 TPA
c) Quantity recycled or reutilized in the unit	1,00,742.94 TPA	1,06,591.33 TPA
d) Sold	1,43,500 TPA	1,47,100 TPA

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.

Sl. No.	Name of the Hazardous Waste	Quantity per Annum
1.	Waste Oil (Rule 5.1)	3.4 TPA
2.	Coal-Tar (13.4)	67.48 TPA
3.	Cotton Waste/Jute Containing Oil (Rule- 5.2)	0.0471 TPA
4.	Bag Filter (Rule - 35.1)	0.16027 TPA

All hazardous waste will be disposed of by WBPCB authorized vendors.

ORISSA METALIKS PVT. LTD.

Director/Authorised Signatory

Organic bio degradable solid wastes will be 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 are 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. MBF slag is used associate company for cement manufacturing
4. Currently wet grinding is practice however for tailing utilization agreement is made with Rashmi Metaliks limited for using in Sinter Plant.
5. Online real time Continuous Stack System is installed and data is being transferred to CPCB server.

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 - Reuse the water, we are also adopting the 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 employees in various aspects of pollution control activities of the plant, programs 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 towards environment protection amongst employees and the people in the neighboring areas.

All the environmental standards/stipulation will be fully maintained by the Plant Management on the priority basis. Constant efforts will be made in making use of the updated technology.

ORISSA METALIKS PVT. LTD.
Director/Authorised Signatory



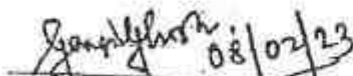
WEST BENGAL POLLUTION CONTROL BOARD
HALDIA REGIONAL LABORATORY
Rajghomathchak, P.O. Burghardpur, P.S.- Bhubanipur, Haldia
Purba Medinipur- 721657

Analysis Report of Gaseous Emission

Analysis Done at Haldia Regional Laboratory :

1. Name of Industry	M/s Orissa Metalles Pvt. Ltd.(Unit-II)		
2. Address	NH-6 VIB- Chokulpur Po- Shyampur, PS- Ebarappur(Local) Dist-Paschim Medinipur		
3. Category & Type	Red. Pellets Plant		
4. Sampling Date	17/01/2023		
5. Duration of Sampling	39 min		
6. Name of Laboratory	M/s Envirocheck		
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-IV		
10. Emission due to (Furnace /Boiler)	Combustion of Coal & Producer Gas		
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)	3300 TPD		
14. Fuel used	Coal and Producer Gas		
15. Rated Fuel consumption (Kg or l/hr)	-		
16. Working Fuel consumption (Kg or l/hr)	Coal-2.5 MTPH And Producer Gas-3600 m ³ /Hr		
17. Nature of Furnace /Boiler	Pellet Pre Heater		
18. Flue gas Temp. (°C)	108.5		
19. Flue gas velocity m/s	15.76	20. Volume of Flue gas drawn in lit (m ³)	1.014
21. Corrected flue gas volume (Nm ³)	0.9595	22. Percentage CO ₂ & O ₂	CO ₂ -8.0% & O ₂ -10.4%
23. To be compensated at (% , if required)	-		
24. Initial wt of thimble (gm)	1.5616	25. Final wt of thimble (gm)	1.5793
26. Wt. of PM (mg)	17.70	27. Particulate matter (mg/Nm ³)	18.45
28. Barometric Pressure Head	754 mm of Hg	29. Diameter of the nozzle	6.35 mm
30. Others:-		31. Thimble No.	248
32. Sampled by:	N C Barui, AEE, HRO		

*Done by M/s Envirocheck


08/02/23
Scientist


08/02/23
Signature of In-Charge

- Copy to:
1. Chief Engineer, O & E, WBPCB.
 2. Chief Scientist, WBPCB
 3. AEE & I/C, H.R.O, WBPCB (two copies)





WEST BENGAL POLLUTION CONTROL BOARD
HALDIA REGIONAL LABORATORY
Raghunathchak, P.O. Barghaspur, P.S. Bhabanipur, Haldia
Purba Medinipur- 721657

Analysis Report of Gaseous Emission

Analysis Done at Haldia Regional Laboratory :

1. Name of Industry	M/s Orrisa Metaliks Pvt. Ltd.(Unit-II)		
2. Address	NH-6 Vill- Gokulpur Po- Shyamraipur, PS- Kharagpur(Local) Dist-Paschim Medinipur		
3. Category & Type	Red, Pellet Plant		
4. Sampling Date	17/01/2023		
5. Duration of Sampling	25 min		
6. Name of Laboratory	M/s Envirocheck		
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-III		
10. Emission due to (Furnace /Boiler)	Combustion of Coal & Producer Gas		
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)	3300 TPD		
14. Fuel used	Coal and Producer Gas		
15. Rated Fuel consumption (Kg or l/hr)	-		
16. Working Fuel consumption (Kg or l/hr)	Coal-2.5 MTPH And Producer Gas-3600 m ³ /Hr		
17. Nature of Furnace /Boiler	Pellet Pre Heater		
18. Flue gas Temp. (°C)	113.0		
19. Flue gas velocity m/s	25.46	20. Volume of Flue gas drawn in lit (m ³)	1.0
21. Corrected flue gas volume (Nm ³)	0.9463	22. Percentage CO ₂ & O ₂	CO ₂ -8.4% & O ₂ -10.6%
23. To be compensated at (%. if required)	-		
24. Initial wt of thimble (gm)	1.5602	25. Final wt of thimble (gm)	1.5799
26. Wt. of PM (mg)	19.70	27. Particulate matter (mg/Nm ³)	20.82
28. Barometric Pressure Head	754 mm of Hg	29. Diameter of the nozzle	6.35 mm
30. Others:-		31. Thimble No.	249
32. Sampled by:	N C Barai, AEE, HRO		

*Done by M/s Envirocheck

Ganesh Ghosh
Scientist 08/02/23

Aditya
Signature of In-Charge

Copy to:

1. Chief Engineer, O & E, WBPCB.
2. Chief Scientist, WBPCB
3. AEE & I/C, H.R.O, WBPCB (two copies)



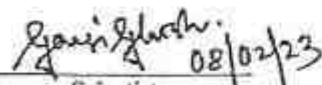
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HALDIA REGIONAL LABORATORY
Raghunathchak, P.O Barghasipur, P.S- Bhabanipur, Haldia
Purba Medinipur- 721657

Analysis Report of Gaseous Emission

Analysis Done at Haldia Regional Laboratory :

1. Name of Industry	M/s Orrisa Metaliks Pvt. Ltd.(Unit-II)		
2. Address . .	NH-6 Vill- Gokulpur Po- Shyamraipur, P.S- Kharagpur(Local) Dist-Paschim Medinipur		
3. Category & Type	Red, Pellet Plant		
4. Sampling Date	17/01/2023		
5. Duration of Sampling	34 min		
6. Name of Laboratory	M/s Envirocheck		
7. Height of Stack from ground (m)	50.0		
8. Cross section of Stack at sampling point(m ²)	7.9714		
9. Stack connected to	Pellet Pre Heater-I)		
10. Emission due to (Furnace /Boiler)	Combustion of Coal & Producer Gas		
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)	3300 TPD		
14. Fuel used	Coal and Producer Gas		
15. Rated Fuel consumption (Kg or l/hr)	-		
16. Working Fuel consumption (Kg or l/hr)	Coal-2.5 MTPH And Producer Gas-3600 m ³ /hr		
17. Nature of Furnace /Boiler	Pellet Pre Heater		
18. Flue gas Temp. (°C)	88.10		
19. Flue gas velocity m/s	18.21	20. Volume of Flue gas drawn in lit (m ³)	1.020
21. Corrected flue gas volume (Nm ³)	0.9652	22. Percentage CO ₂ & O ₂	CO ₂ -8.8% & O ₂ -10.8%
23. To be compensated at (% , if required)	-		
24. Initial wt of thimble (gm)	1.4766	25. Final wt of thimble (gm)	1.4943
26. Wt. of PM (mg)	17.70	27. Particulate matter (mg/Nm ³)	18.34
28. Barometric Pressure Head	754 mm of Hg	29. Diameter of the nozzle	6.35 mm
30. Others:-		31. Thimble No.	250
32. Sampled by:	N C Barai, AEE, HRO		

*Done by M/s Envirocheck


Scientist


Signature of In-Charge

Copy to:
1. Chief Engineer, O & E, WBPCB.
2. Chief Scientist, WBPCB
3. AEE & I/C, H.R.O, WBPCB (two copies)





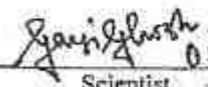
WEST BENGAL POLLUTION CONTROL BOARD
HALDIA REGIONAL LABORATORY
Raghunathchak, P.O Barghasipur, P.S- Bhabanipur, Haldia
Purba Medinipur- 721657

Analysis Report of Gaseous Emission

Analysis Done at Haldia Regional Laboratory :

1. Name of Industry	M/s Orrisa Metalks Pvt. Ltd.(Unit-II)		
2. Address	NH-6 Vill- Gokulpur Po- Shyamraipur, PS- Kharagpur(Local) Dist-Paschim Medinipur		
3. Category & Type	Red. Pellet Plant		
4. Sampling Date	17/01/2023		
5. Duration of Sampling	32 min		
6. Name of Laboratory	M/s Envirocheck		
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-V		
10. Emission due to (Furnace/Boiler)	Combustion of Coal & Producer Gas.		
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)	3300 TPD		
14. Fuel used	Coal and Producer Gas		
15. Rated Fuel consumption (Kg or l/hr)	-		
16. Working Fuel consumption (Kg or l/hr)	Coal-2.5 MTPH And Producer Gas-3600 m ³ /hr		
17. Nature of Furnace /Boiler	Pellet Pre Heater		
18. Flue gas Temp. (°C)	95.30		
19. Flue gas velocity m/s	19.75	20. Volume of Flue gas drawn in lit (m ³)	1.024
21. Corrected flue gas volume (Nm ³)	0.9722	22. Percentage CO ₂ & O ₂	CO ₂ -8.4% & O ₂ -10.4%
23. To be compensated at (% if required)	-		
24. Initial wt of thimble (gm)	1.5378	25. Final wt of thimble (gm)	1.5557
26. Wt. of PM (mg)	17.90	27. Particulate matter (mg/Nm ³)	18.41
28. Barometric Pressure Head	754 mm of Hg	29. Diameter of the nozzle	6.35 mm
30. Others:-		31. Thimble No.	251
32. Sampled by:	N C Barai, AEE, HRO		

*Done by M/s Envirocheck


08/02/23
Scientist


08/02/23
Signature of In-Charge

- Copy to:
1. Chief Engineer, O & E, WBPCB.
 2. Chief Scientist, WBPCB
 3. AEE & I/C, H.R.O, WBPCB (two copies)



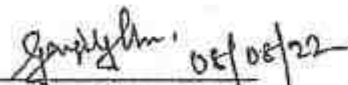



Analysis Report of Gaseous Emission

Analysis Done at Haldia Regional Laboratory :

1. Name of Industry	M/s Orissa Metaliks Pvt Ltd.(Unit-II)		
2. Address	Vill-Gokulpur,PO- Shyamraipur, Kharagpur, Paschi m Medinipur		
3. Category & Type	Red, Sponge Iron Unit		
4. Sampling Date	26/07/2022		
5. Duration of Sampling	46 min		
6. Name of Laboratory	Indicative Consultant India		
7. Height of Stack from ground (m)	50.00		
8. Cross section of Stack at sampling point(m ²)	7.0714		
9. Stack connected to	Pellet Pre Heater II		
10. Emission due to (Furnace /Boiler)	Combustion Of Coal & Producer Gas		
11. Average operational hours of boiler/ furnace (per month)	720 hrs		
12. APC System (if any)	ESP		
13. Working load of source (MT/hr)	2500 TPD		
14. Fuel used	Coal & Producer Gas		
15. Rated Fuel consumption (Kg or l/hr)	-		
16. Working Fuel consumption (Kg or l/hr)	Coal -2.0 MTPH, Producer Gas-3000 m ³ /hr		
17. Nature of Furnace /Boiler	Pellet Pre Heater		
18. Flue gas Temp. (°C)	128.0		
19. Flue gas velocity m/s	15.85	20. Volume of Flue gas drawn in lit (m ³)	1.012
21. Corrected flue gas volume (Nm ³)	0.9125	22. Percentage CO ₂ & O ₂	CO ₂ -8.6% & O ₂ -10.4%
23. To be compensated at (% , if required)	-		
24. Initial wt of thimble (gm)	1.4773	25. Final wt of thimble (gm)	1.5001
26. Wt. of PM (g)	22.80	27. Particulate matter (mg/Nm ³)	24.99
28. Barometric Pressure Head	756 mm of Hg	29. Diameter of the nozzle	6.35 mm
30. Others:-		31. Thimble No.	955
32. Sampled by:	A. Das, AEE, HRO & P. Mukherjee, JEE, HRO		

*Done by M/s Indicative Consultant India


Scientist


Signature of In-Charge

- Copy to:
1. Chief Engineer, O & E, WBPCB.
 2. Dr. R.K.Saha, Chief Scientist, WBPCB
 3. Asst. Environmental Engineer, H.R.O., WBPCB (two copies)

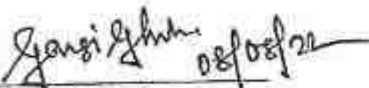




Analysis Report of Gaseous Emission
Analysis Done at Haldia Regional Laboratory :

1. Name of Industry	M/s Orissa Metaliks Pvt Ltd.(Unit-II)		
2. Address	VIII-Gokulpur,PO- Shyamraipur, Kharagpur, Paschim Medinipur		
3. Category & Type	Red. Sponge Iron Unit		
4. Sampling Date	26/07/2022		
5. Duration of Sampling	32 min		
6. Name of Laboratory	Indicative Consultant India		
7. Height of Stack from ground (m)	50.00		
8. Cross section of Stack at sampling point(m ²)	7.0714		
9. Stack connected to	Pellet Pre Heater III		
10. Emission due to (Furnace/Boiler)	Combustion Of Coai & Producer Gas		
11. Average operational hours of boiler/ furnace (per month)	720 hrs		
12. APC System (if any)	ESP		
13. Working load of source (MT/hr)	2500 TPD		
14. Fuel used	Coai & Producer Gas		
15. Rated Fuel consumption (Kg or l/hr)	-		
16. Working Fuel consumption (Kg or l/hr)	Coai -1.8 MTPH, Producer Gas-2500 m ³ /hr		
17. Nature of Furnace /Boiler	Pellet Pre Heater		
18. Flue gas Temp. (°C)	124.0		
19. Flue gas velocity m/s	10.42	20. Volume of Flue gas drawn in lit (m ³)	1.024
21. Corrected flue gas volume (Nm ³)	0.9233	22. Percentage CO ₂ & O ₂	CO ₂ -8.0% & O ₂ -12.0%
23. To be compensated at (% , if required)	-		
24. Initial wt of thimble (gm)	1.6471	25. Final wt of thimble (gm)	1.6692
26. Wt. of PM (g)	22.140	27. Particulate matter (mg/Nm ³)	23.94
28. Barometric Pressure Head	756 mm of Hg	29. Diameter of the nozzle	9.525 mm
30. Others:-		31. Thimble No.	954
32. Sampled by:	A. Das, AEE, HRO & P. Mukherjee, JEE, HRO		

*Done by M/s Indicative Consultant India


Scientist


Signature of In-Charge

- Copy to:
1. Chief Engineer, O & E, WBPCB.
 2. Dr. R.K.Saha, Chief Scientist, WBPCB
 3. Asst. Environmental Engineer, H.R.O., WBPCB (two copies)



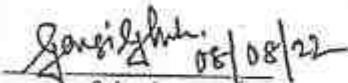


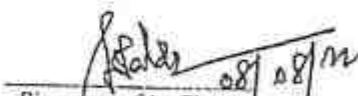
Analysis Report of Gaseous Emission

Analysis Done at Haldia Regional Laboratory :

1. Name of Industry	M/s Orissa Metaliks Pvt Ltd.(Unit-II)		
2. Address	VIII-Gokulpur,PO- Shyamraipur, Kharagpur, Paschim Medinipur		
3. Category & Type	Red, Sponge Iron Unit		
4. Sampling Date	26/07/2022		
5. Duration of Sampling	29 min		
6. Name of Laboratory	Indicative Consultant India		
7. Height of Stack from ground (m)	50.00		
8. Cross section of Stack at sampling point(m ²)	7.0714		
9. Stack connected to	Pellet Pre Heater IV		
10. Emission due to (Furnace /Boiler)	Combustion Of Coal & Producer Gas		
11. Average operational hours of boiler/ furnace (per month)	720 hrs		
12. APC System (if any)	ESP		
13. Working load of source (MT/hr)	2500 TPD		
14. Fuel used	Coal & Producer Gas		
15. Rated Fuel consumption (Kg or l/hr)	-		
16. Working Fuel consumption (Kg or l/hr)	Coal -1.8 MTPH, Producer Gas-2500 m ³ /hr		
17. Nature of Furnace /Boiler	Pellet Pre Heater		
18. Flue gas Temp. (°C)	108.0		
19. Flue gas velocity m/s	10.97	20. Volume of Flue gas drawn in lit (m ³)	1.015
21. Corrected flue gas volume (Nm ³)	0.9152	22. Percentage CO ₂ & O ₂	CO ₂ -8.4% & O ₂ -10.6%
23. To be compensated at (% , if required)	-		
24. Initial wt of thimble (gm)	1.7256	25. Final wt of thimble (gm)	1.7477
26. Wt. of PM (g)	22.10	27. Particulate matter (mg/Nm ³)	24.15
28. Barometric Pressure Head	756 mm of Hg	29. Diameter of the nozzle	9.525 mm
30. Others:-		31. Thimble No.	953
32. Sampled by:	A. Das, AEE, HRO & P. Mukherjee, JEE, HRO		

*Done by M/s Indicative Consultant India


05/08/22
Scientist


08/08/22
Signature of In-Charge

- Copy to:
1. Chief Engineer, O & E, WBPCB.
 2. Dr. R.K.Saha, Chief Scientist, WBPCB
 3. Asst. Environmental Engineer, H.R.O., WBPCB (two copies)





WEST BENGAL POLLUTION CONTROL BOARD
HALDIA REGIONAL LABORATORY
Rajamathchak, P.O. Barghatipur, P.S. Bhabanpur, Haldia
Purba Medinipur- 721657

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	Vill- Gokulpur, PO- Shyamnagar Kharagpur Dist- Paschim Medinipur,		
3. Category & Type	Red/Pellet Plant		
4. Sampling Date	19/10/2022		
5. Duration of Sampling	39 min		
6. Name of Laboratory	M/s Envirocheck		
7. Height of Stack from ground (m)	50.0		
8. Cross section of Stack at sampling point(m ²)	7.063		
9. Stack connected to	Pellet Pre Heater No.02		
10. Emission due to (Furnace/Boiler)	Combustion of coal & producer gas		
11. Average operational hours of boiler/ furnace (per month)	720 Hr/month		
12. APC System (if any)	ESP		
13. Working load of source (MT/hr)	2500 TPD		
14. Fuel used	coal & producer gas		
15. Rated Fuel consumption (Kg or l/hr)	-		
16. Working Fuel consumption (Kg or l/hr)	coal - 2.0 MTPH & producer gas- 3000 m ³ /hr		
17. Nature of Furnace/Boiler	Pellet Pre Heater		
18. Flue gas Temp. (°C)	102.5		
19. Flue gas velocity m/s	15.61	20. Volume of flue gas drawn in lit (m ³)	1.014
21. Corrected flue gas volume (Nm ³)	0.9402	22. Percentage CO ₂ & O ₂	CO ₂ -9.2%, O ₂ -9.5%
23. To be compensated at (%a, if required)	-		
24. Initial wt of thimble (gm)	1.5174	25. Final wt of thimble (gm)	1.5398
26. Wt. of PM (g)	22.40	27. Particulate matter (mg/Nm ³)	23.82
28. Barometric Pressure Head	756 mm of Hg	29. Diameter of the nozzle	6.35 mm
30. Others:- mg/Nm ³		31. Thimble No.	84
32. Sampled by:	K sahu, AEE, HRO		

*Done by M/s Envirocheck

Ganesh Ghosh
Scientist 10/11/22

K. Sahu
Signature of In-Charge 10/11/22

Copy to: 1. Chief Engineer, O & E, WBPCB.
2. Chief Scientist, WBPCB
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Director/Authorised Signatory



WEST BENGAL POLLUTION CONTROL BOARD
HALDIA REGIONAL LABORATORY
Rajmahalchak, P.O. Barghasapur, P.S. - Bhadransar, Haldia
Purba Medinipur-721657

Analysis Report of Gaseous Emission

Analysis Done at Haldia Regional Laboratory :

1. Name of Industry	M/s Orissa Metaliks Pvt. Ltd.(Unit-11)		
2. Address	Vill- Gokulpur, PO- Shyamraipur, Kharagpur Dist- Paschim Medinipur.		
3. Category & Type	Red Pellet Plant		
4. Sampling Date	19-10-2022		
5. Duration of Sampling	36 min		
6. Name of Laboratory	M/s Envirocheck		
7. Height of Stack from ground (m)	50.0		
8. Cross section of Stack at sampling point(m ²)	7.065		
9. Stack connected to	Pellet Pre Heater No.03		
10. Emission due to (Furnace /Boiler)	Combustion of coal & producer gas		
11. Average operational hours of boiler/ furnace (per month)	720 Hr/month		
12. APC System (if any)	ESP		
13. Working load of source (MT/hr)	2500 TPD		
14. Fuel used	coal & producer gas		
15. Rated Fuel consumption (Kg or l/hr)	-		
16. Working Fuel consumption (Kg or l/hr)	coal - 2.0 MTPH & producer gas- 3000 m ³ /hr		
17. Nature of Furnace -Boiler	Pellet Pre Heater		
18. Flue gas Temp. (°C)	108.0		
19. Flue gas velocity m/s	17.10	20. Volume of flue gas drawn in lit (m ³)	1.008
21. Corrected flue gas volume (Nm ³)	0.9377	22. Percentage CO ₂ & O ₂	CO ₂ -9.0%, O ₂ -10.2 %
23. To be compensated at (% if required)	-		
24. Initial wt of thimble (gm)	1.4397	25. Final wt of thimble (gm)	1.4619
26. Wt. of PM (g)	22.20	27. Particulate matter (mg/Nm ³)	23.67
28. Barometric Pressure Head	756 mm of Hg	29. Diameter of the nozzle	6.35 mm
30. Others:- mg/Nm ³		31. Thimble No.	85
32. Sampled by:	K sahu, AEE, HRO		

*Done by M/s Envirocheck

Ganesh Ghosh
Scientist 10/11/22

K. Sahu 16/11/22
Signature of In-Charge

Copy to:
1. Chief Engineer, O & E, WBPCB.
2. Chief Scientist, WBPCB
3. AEE & I/C, H.R.O., WBPCB (two copies)

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WEST BENGAL POLLUTION CONTROL BOARD
HALDIA REGIONAL LABORATORY
Rajinattchak, P.O. Barghaspur, P.S.- Bhabanurpur, Haldia
Portia Medinipur- 721627

Analysis Report of Gaseous Emission

Analysis Done at Haldia Regional Laboratory :

1. Name of Industry	M/s Orissa Metaliks Pvt. Ltd(Luxa-II)		
2. Address	VIII- Gokulpur, PO- Snyanraipur Kharagpur Dist- Paschim Medinipur,		
3. Category & Type	Red/Pellet Plant		
4. Sampling Date	19/10/2022		
5. Duration of Sampling	39 min		
6. Name of Laboratory	M/s Envirocheck		
7. Height of Stack from ground (m)	50.0		
8. Cross section of Stack at sampling point(m ²)	7.065		
9. Stack connected to	Pellet Pre Heater No.04		
10. Emission due to (Furnace /Boiler)	Combustion of coal & producer gas		
11. Average operational hours of boiler/ furnace (per month)	720 Hr month		
12. APC System (if any)	ESP		
13. Working load of source (MT/hr)	2580 TPD		
14. Fuel used	coal & producer gas		
15. Rated Fuel consumption (Kg or L/hr)	-		
16. Working Fuel consumption (kg or L/hr)	coal - 2.0 MTPH & producer gas- 3000 m ³ /hr		
17. Nature of Furnace /Boiler	Pellet Pre Heater		
18. Flue gas Temp. (°C)	101.07		
19. Flue gas velocity m/s	16.36	20. Volume of Flue gas drawn in lit (m ³)	1.014
21. Corrected flue gas volume (Nm ³)	0.9334	22. Percentage CO ₂ & O ₂	CO ₂ -8.6%, O ₂ -10.2 %
23. To be compensated in (% if required)	-		
24. Initial wt of thimble (gm)	1.5188	25. Final wt of thimble (gm)	1.5376
26. Wt. of PM (g)	18.80	27. Particulate matter (mg/Nm ³)	20.14
28. Barometric Pressure Head	756 mm of Hg	29. Diameter of the nozzle	6.35 mm
30. Others:- mg/Nm ³		31. Thimble No.	86
32. Sampled by:	K saho, AEE, HRO		

*Done by M/s Envirocheck

[Signature]
Scientist 10/11/22

[Signature]
Signature of In-Charge 10/11/22

COPY TO:
1. Chief Engineer, O & E, WBPCB
2. Chief Scientist, WBPCB
3. AEE & I/C, H.R.O., WBPCB (two copies)

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WEST BENGAL POLLUTION CONTROL BOARD
HALDIA REGIONAL LABORATORY
Rajghumarchak, P.O. Bangladespur, P.S. Bhabanipur, Haldia
Purba Medinipur- 721652

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	VIII- Gokulpur, PO- Shyamraipur Kharagpur Dist- Paschim Medinipur.		
3. Category & Type	Red Pellet Plant		
4. Sampling Date	19/10/2022		
5. Duration of Sampling	32 min		
6. Name of Laboratory	M/s Envirocheck		
7. Height of Stack from ground (m)	50.0		
8. Cross-section of Stack at sampling point(m ²)	7.065		
9. Stack connected to	Pellet Pre Heater No 05		
10. Emission due to (Furnace /Boiler)	Combustion of coal & producer gas		
11. Average operational hours of boiler/ furnace (per month)	720 Hr/month		
12. APC System (if any)	ESP		
13. Working load of source (MT/hr)	2500 TPD		
14. Fuel used	coal & producer gas		
15. Rated Fuel consumption (Kg or l/hr)	-		
16. Working Fuel consumption (Kg or l/hr)	coal - 2.0 MTPH & producer gas- 3000 m ³ /hr		
17. Nature of Furnace /Boiler	Pellet Pre Heater		
18. Flue gas Temp (°C)	105.0		
19. Flue gas velocity m/s	20.02	20. Volume of Flue gas drawn in lit (m ³)	1.024
21. Corrected flue gas volume (Nm ³)	0.9495	22. Percentage CO ₂ & O ₂	CO ₂ -8.8% O ₂ -10.2 %
23. To be compensated at (% if required)	-		
24. Initial wt of thimble (gm)	1.5731	25. Final wt of thimble (gm)	1.5891
26. Wt. of PM (g)	16.00	27. Particulate matter (mg/Nm ³)	16.85
28. Barometric Pressure Head	756 mm of Hg	29. Diameter of the nozzle	6.35 mm
30. Others:- mg/Nm ³		31. Thimble No.	83
32. Sampled by:	K sahu, AEE, HRO		

*Done by M/s Envirocheck

Gangadhar
Scientist 10/11/22

K. Sahu
Signature of In-Charge 10/11/22

- Copy to:
1. Chief Engineer, O & E, WBPCB.
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