

RASHMI GREEN HYDROGEN STEEL PRIVATE LIMITED

Address : 9, AJC Bose Road, 1st Floor, Ideal Centre, Kolkata, West Bengal, 700017

CIN : U27100WB2021PTC246718 | PAN : AALCR1619N | TAN : CALR19495A | GSTIN : 19AALCR1619N1ZT

Website : www.rashmigroup.com | Email Id : projectseamless@rashmigroup.com

Ref.: RGHSPL/ENV_Statement_23-24/2024-25/01

Date: 24.09.2024

To,

The Member Secretary,
West Bengal Pollution Control Board,
Parivesh Bhawan,
10A, Block LA, Sector – III, Bidhannagar,
Kolkata – 700 106



Sub.: Submission of Environmental Statement in Form-V for the Financial Year ending March 31st, 2024 (FY 2023-24) by M/s Rashmi Green Hydrogen Steel Private Limited located at Mouza – Changua (J.L. No. - 360), Jethia (J.L. No. - 361), Khatranga (J.L. No. - 362), Gopinathpur (J.L. No. - 359) and Goyalara (J.L. No. - 391), P.S. – Kharagpur (Local), Dist. – Paschim Medinipur, West Bengal

Ref.: Consent to Operate No. CO141072 issued vide Memo no. 242-361-hl-nc-r/2022, dated 16.05.2023, valid up to 31.03.2028

Dear Sir,

With reference to the above mentioned subject, we are submitting herewith the Environmental statement in Form-V for the financial year ending March 31st, 2024 (FY 2023-24) as per the provisions of Rule – 14 of the Environmental (Protection) [Second Amendment] Rules, 1992 for your kind consideration and record, please.

Kindly acknowledge the same.

Thanking you,

Yours faithfully,

For, M/s Rashmi Green Hydrogen Steel Private Limited

Rashmi Green Hydrogen Steel Pvt. Ltd.

Authorized Signatory

Director

Encl.: Stated as above

ENVIRONMENTAL STATEMENT (FORM – V)

FOR

**THE FINANCIAL YEAR ENDING MARCH 31ST, 2024
(FY 2023-24)**



M/s Rashmi Green Hydrogen Steel Private Limited

Mouza – Changua (J.L. No. - 360), Jethia (J.L. No. - 361),
Khatranga (J.L. No. - 362), Gopinathpur (J.L. No. - 359) and
Goyalara (J.L. No. - 391), P.S. – Kharagpur (Local),
Dist. – Paschim Medinipur, West Bengal

[FORM-V]

(Rule-14)

Environmental Statement for the financial year ending the 31st March 2024

PART – I

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

Mr. Abhishek Singh (Director),

M/s Rashmi Green Hydrogen Steel Private Limited

Registered address: 9, AJC Bose Road, 1st Floor, Ideal Centre, Kolkata, West Bengal, India, 700017

Works: Mouza – Changual (J.L. No. - 360), Jethia (J.L. No. - 361), Khatranga (J.L. No. - 362), Gopinathpur (J.L. No. - 359) and Goyalara (J.L. No. - 391), P.S. – Kharagpur (Local), Dist. – Paschim Medinipur, West Bengal

- ii) Industry Category

Red Category

- iii) Production Capacity

S. No.	Name of the Product	Production Capacity as per CTO C0141072 dated 16.05.2024	Production (Ton)	
			2022-23	2023-24
1.	Seamless Pipe/Tube	3,20,000 Ton/Year	NA*	9,842.00 Ton
2.	Coal Gas	31,500 Cum/Hour	NA*	-

*CTO obtained on dated 16.05.2023.

- iv) Year of Establishment: 2023

- v) Date of the last Environment Statement Submitted: 1st CTO obtained on 16.05.2023

PART - B

- i) Water and river material consumption:

- i. Water Consumption (m³/day) = 9.00 KLD

Process = NIL

Cooling = 7.00 KLD

Domestic Purpose = 2.0 KLD

Rashmi Green Hydrogen Steel Pvt. Ltd.
Abhishek Singh

Director

Process water consumption per unit of product output:

Name of the product	Water consumption of product output during the previous financial year (FY 2022-23)	Water consumption of product output during the current financial year (FY 2023-24)
Seamless Pipe/Tube	NA	7.0 KLD
Coal gas (Coal Gasifier Plant)	NA	

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

ii) Raw Material Consumption:

S. No.	Name of Raw Materials	Name of Products	Consumption of raw material	
			Consumption quantity during the previous financial year (FY 2022-23)	Consumption quantity during the current financial year (FY 2023-24)
1.	Billets	Seamless Pipe/Tube	NA	13,619.31

PART – C

Pollution discharged to environment/ unit of output.

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	Zero liquid discharge has been adopted and is being maintained. No liquid effluent is being discharged outside factory premises. ETP for treatment of industrial effluent is in place. Domestic waste water generated from offices is being treated in septic tank followed by soak pit.		

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
Coal gas fired reheating furnace-1	6.15 kg/day	28.0 mg/Nm ³	Within the limit as per CTO obtained from WBPCB/CPCB/MOEF
Coal gas fired	5.84 kg/day	26.0 mg/Nm ³	

Rashmi Green Hydrogen Steel Pvt. Ltd.

Abhishek Singh

Director

reheating furnace-3			notification. Analysis report attached as Annexure-I.
Hot water generator	7.26 kg/day	28.0 mg/Nm ³	

PART – D

Hazardous Waste

(As specified under Hazardous Waste Management and Handling Rules, 2016)

Hazardous Waste	Total Quantity (Kg)
	During the current financial year (FY 2023-24)
From Process	NIL
For Pollution Control Facilities	5.4 MT/Year

PART – E

Solid waste

	Total Quantity	
	During the previous financial year (FY 2022-23)	During the current financial year (FY 2023-24)
a) From Process Waste from process scrap	NIL	925.0 TPA
b) From pollution control facilities ESP dust	NIL	NIL
c) Quantity recycled or reutilized within the unit	NIL	925.0 TPA
d) Disposed	**	0.00

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.

S. No.	Name of the Hazardous/Solid Waste	Quantity per Annum
Hazardous Waste		
1.	Chemical sludge from waste water treatment (35.3)	5.4 MT/Year
2.	Used or Spent Oil (Rule 5.1)	0.00
3.	Exhaust Air or Gas cleaning residue (35.1)	0.00
4.	Wastes or residues containing oil (5.2)	0.00
5	Zinc fines/dust/ash/skimmings (dispersible form) (6.2)	0.00

Rashmi Green Hymen Steel Pvt. Ltd.
Abhijit

Director

All hazardous waste is being/will be disposed off through WBPCB authorized vendors/recyclers/disposal facility.

Organic bio degradable solid wastes will be used for organic manure creation and used for Green Belt Development purpose.

PART – G

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

The unit is very concerns and conscious about the product quality and equally about the environmental protection & resource conservation. The unit has adopted following conservation measures:

Natural resource conservation:

- ❖ Water is being/will be conserved by practicing rainwater harvesting and maximum recycling within the plant premises.
- ❖ Waste water will be used after treatment in the plant.
- ❖ The company will explore possibilities for solar power generation on roof tops of buildings and installation of solar light system in all common areas, street lights, parking etc.

PART - H

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

Additional measures will be taken for prevention of Pollution as follows:

- ❖ Planning of extensive green belt development in and around the plant and along the plant boundary.
- ❖ Schedule maintenance and monitoring of all Air Pollution Control Device's (APCD's) and will be regularly undertaken to ensure their efficient operations in order to keep emission level within the prescribed limit.
- ❖ Regular sprinkling and spraying of water will be done through sprinklers and water tanker for suppress the fugitive dust.
- ❖ Repairing of internal road inside the plant to reduce fugitive emission.
- ❖ Awareness programs like plantation activities, Slogan competition, extempore speech competition was organized for children for awareness on environment protection/water conservation on 5th June (World Environment Day).

Rashmi Green Steel Pvt. Ltd.

(Signature)

Director

- ❖ Regular monitoring and awareness among workers will help in controlling air pollution.
- ❖ Sensitization/ Awareness poster on implementation of ban on Single Use Plastic (SUP).
- ❖ Also under 'Van Mahotsav Campaign' with theme 'Ek Ped Maa Ke Naam, tree sapling planted inside and in close vicinity of the project.
- ❖ Electronic wastes generated from the plant are and will be handled as per E-Waste (Management) Rules 2022 and its further amendment and wastes generated are and will be handed over only to the registered recycler/ PRO.

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, 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 protection amongst employees and the people in the neighboring 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.

Rashmi Green Hydrogen Steel Pvt. Ltd.


Director



Qualissure Laboratory Services

361, Prantik Pally, 45/361, Bose Pukur Road, Kolkata - 700107
Email : qualissure@gmail.com; info@qualissure.com; Mob.No. 98312 87086; 9830093976



TC-6271

DOC NO: QLS/SAMP/08-B/00

TEST REPORT

Name & Address Of the Customer :	Report No. : QLS/P-86/23-24/C/09A
M/s. Rashmi Green Hydrogen Steel Pvt. Ltd.	Date : 11.08.2023
Khatranga, Changuai, Gopinathpur	Sample No. : QLS/P-86/23-24/09A
Kharagpur,	Sample Description : Stack Flue Gas
Paschim Mednipur,	Date of performance : 09.08.2023-11.08.2023
West Bengal-721301	Ref No. Date : 5400012651, : Dated - 05.08.2023

Analysis Result

Date & Time of Sampling : 07.08.2023 at 12:40 hrs.		Sampling Procedures : EPA/IS
Sampling done by : C.Sahoo		
A : General Information of Stack:		
1	Stack connected to	: Hot Water Generator
2	Emission due to	: Wood Chips
3	Material of construction of Stack	: MS
4	Shape of Stack	: Circular
5	Whether stack is provided with permanent platform	: Yes
6	Generation Capacity	: 25 Ton
B : Physical Characteristic of Stack:		
1	Height of Stack from ground level	: 35.0 m
2	Diameter of Stack at bottom	: —
3	Diameter of Stack at sampling point	: 1.0 m
4	Height of the sampling point from ground level	: 17.0 m (approx)
5	Area of Stack	: 0.7857 m ²
C : Analysis/Characteristic of Stack:		
1	Fuel used : Woodchips	2. Fuel consumption : 500kg/Hr
D : Results of Sampling & Analysis of gaseous Emission:		
	RESULT	METHOD
1	Temperature of emission (°C)	: 121 EPA Part 2
2	Barometric pressure (mm of Hg)	: 749 EPA Part 2
3	Velocity of gas (m/sec)	: 5.13 EPA Part 2
4	Quantity of gas flow (Nm ³ /hr)	: 10814 EPA Part 2
5	Concentration of Carbon monoxide (%)	: <0.2 IS:13270-1992, Reaf : 2017
6	Concentration of Carbon dioxide (%)	: 9.4 IS:13270-1992, Reaf : 2017
7	Concentration of Sulphur dioxide (mg/Nm ³)	: 9.3 EPA Part-6
8	Concentration of Oxides of Nitrogen (mg/Nm ³)	: 27.1 EPA Part-7
9	Concentration of Particulate Matter (mg/Nm ³)	: 28 EPA Part-5
E : Pollution Control Device :		
Details of pollution control devices attached with the stack : Cyclone Separator		
F : Remarks: Sample taken from final exhaust		

Report Prepared By :

CS

for Qualissure Laboratory Services

Reviewed & Authorized By



Binitadhab Gorai, Chemist
(Authorized Signatory)

— End of the Report —

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DOC NO : QLS/SAMP/08-B/00

TEST REPORT

Name & Address Of the Customer :	Report No. : QLS/P-86/23-24/C/16
M/s. Rashmi Green Hydrogen Steel Pvt. Ltd.	Date : 18.09.2023
Khatranga, Changual, Gopinathpur	Sample No. : QLS/P-86/23-24/16
Kharagpur,	Sample Description : Stack Flue Gas
Paschim Mednipur,	Date of performance : 14.09.2023-18.09.2023
West Bengal-721301	Ref No. Date : 540012651, : Dated – 05.08.2023

Analysis Result

Date & Time of Sampling : 14.09.2023 at 12:30 hrs.		Sampling Procedures : EPA/IS	
Sampling done by : C.Sahoo			
A : General Information of Stack:			
1	Stack connected to	: Coal Gas Fired Reheating Furnace-3	
2	Emission due to	: Burning of Coal Gas	
3	Material of construction of Stack	: MS	
4	Shape of Stack	: Circular	
5	Whether stack is provided with permanent platform	: Yes	
6	Generation Capacity	: 6 MT/hr.	
B : Physical Characteristic of Stack:			
1	Height of Stack from ground level	: 35.0 m	
2	Diameter of Stack at bottom	: —	
3	Diameter of Stack at sampling point	: 0.85 m	
4	Height of the sampling point from ground level	: 17.0 m	
5	Area of Stack	: 0.5676 m ²	
C : Analysis/Characteristic of Stack:			
1	Fuel used : Coal Gas	2. Fuel consumption : 2850 Nm ³ /hr	
D : Results of Sampling & Analysis of gaseous Emission:		RESULT	METHOD
1	Temperature of emission (°C)	: 343	EPA Part 2
2	Barometric pressure (mm of Hg)	: 750	EPA Part 2
3	Velocity of gas (m/sec)	: 9.6	EPA Part 2
4	Quantity of gas flow (Nm ³ /hr)	: 9359	EPA Part 2
5	Concentration of Carbon monoxide (%)	: <0.2	IS:13270-1992, Reaf : 2017
6	Concentration of Carbon dioxide (%)	: 7.2	IS:13270-1992, Reaf : 2017
7	Concentration of Sulphur dioxide (mg/Nm ³)	: 4.9	EPA Part-6
8	Concentration of Oxides of Nitrogen (mg/Nm ³)	: 20.2	EPA Part-7
9	Concentration of Particulate Matter (mg/Nm ³)	: 26	EPA Part-5
E : Pollution Control Device :			
Details of pollution control devices attached with the stack		: Nil	
F : Remarks: Sample taken from final exhaust			

Report Prepared By:

(Signature)

for Qualissure Laboratory Services

Reviewed & Authorized By

Benimadhab Gorai, Chemist
(Authorized Signatory)

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TC-6271



DOC NO : QLS/SAMP/08-B/00

TEST REPORT

Name & Address Of the Customer :	Report No. : QLS/P-86/23-24/C/17
M/s. Rashmi Green Hydrogen Steel Pvt. Ltd.	Date : 18.09.2023
Khatranga, Changual, Gopinathpur	Sample No. : QLS/P-86/23-24/17
Kharagpur,	Sample Description : Stack Flue Gas
Paschim Mednipur,	Date of performance : 14.09.2023-18.09.2023
West Bengal-721301	Ref No. Date : 5400012651, : Dated – 05.08.2023

Analysis Result

Date & Time of Sampling : 14.09.2023 at 14:10 hrs.	Sampling Procedures : EPA/IS
Sampling done by : C.Sahoo	
A : General Information of Stack:	
1 Stack connected to	: Coal Gas Fired Reheating Furnace-1
2 Emission due to	: Burning of Coal Gas
3 Material of construction of Stack	: MS
4 Shape of Stack	: Circular
5 Whether stack is provided with permanent platform	: Yes
6 Generation Capacity	: 4 MT/hr.
B : Physical Characteristic of Stack:	
1 Height of Stack from ground level	: 35.0 m
2 Diameter of Stack at bottom	: —
3 Diameter of Stack at sampling point	: 0.85 m
4 Height of the sampling point from ground level	: 17.0 m
5 Area of Stack	: 0.5676 m ²
C : Analysis/Characteristic of Stack:	
1 Fuel used : Coal Gas	2. Fuel consumption : 2450 Nm ³ /hr
D : Results of Sampling & Analysis of gaseous Emission:	RESULT
1 Temperature of emission (°C)	: 333
2 Barometric pressure (mm of Hg)	: 750
3 Velocity of gas (m/sec)	: 9.23
4 Quantity of gas flow (Nm ³ /hr)	: 9147
5 Concentration of Carbon monoxide (%)	: <0.2
6 Concentration of Carbon dioxide (%)	: 7.6
7 Concentration of Sulphur dioxide (mg/Nm ³)	: 6.1
8 Concentration of Oxides of Nitrogen (mg/Nm ³)	: 24.3
9 Concentration of Particulate Matter (mg/Nm ³)	: 28
E : Pollution Control Device :	METHOD
Details of pollution control devices attached with the stack	: Nil
F : Remarks: Sample taken from final exhaust	

Report Prepared By:

(Signature)

for Qualissure Laboratory Services

Reviewed & Authorized By

Benimadhab Gorai, Chemist
(Authorized Signatory)

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